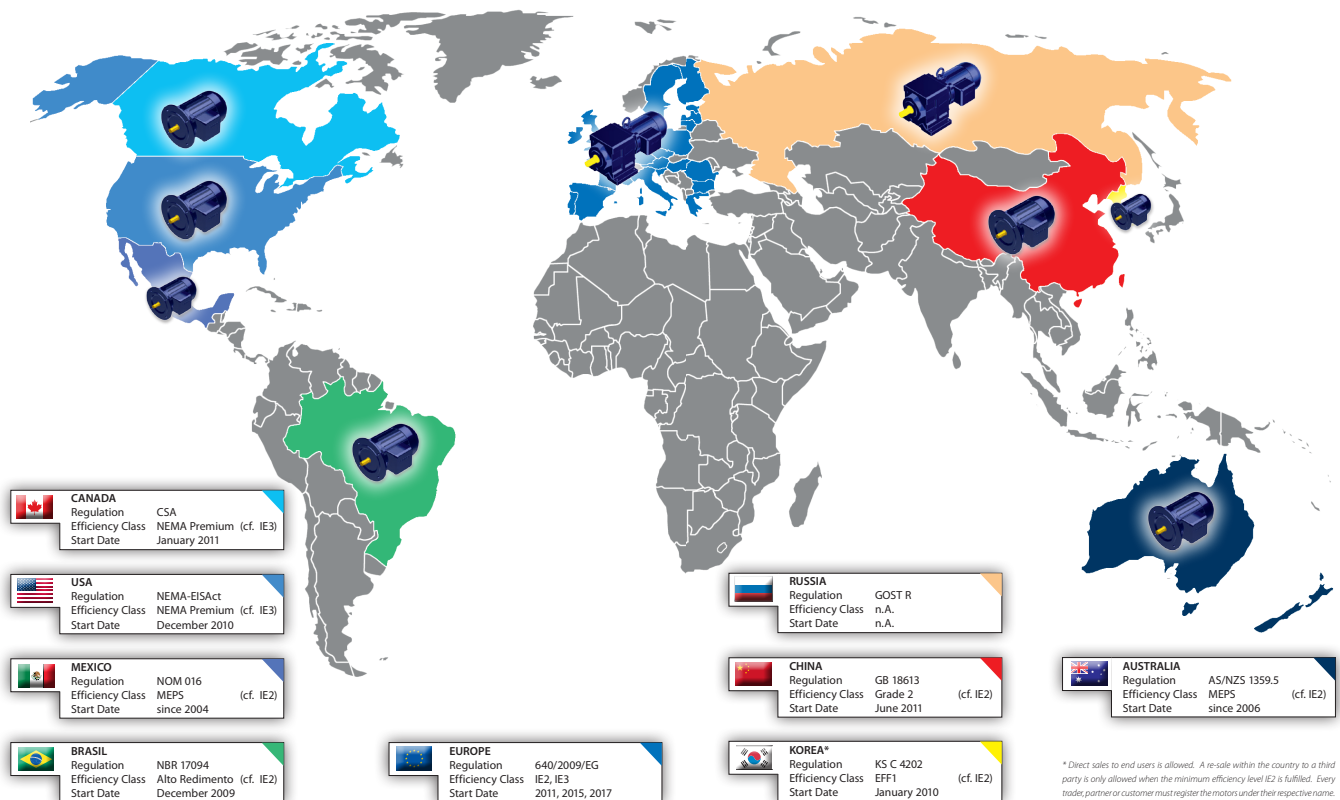


# Energieeffiziente Getriebemotoren

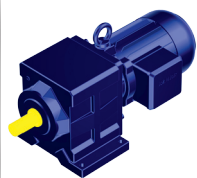
## Katalog Edition 03/2012 DE



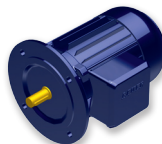
# Wirkungsgradanforderungen Weltweit



## Legende



Wirkungsgradanforderungen gelten sowohl für Getriebemotoren als auch Normmotoren



Wirkungsgradanforderungen gelten nur für Normmotoren

Ausnahmen der Verordnung (EC) no. 640/2009/EG von 22 Juli 2009:

Betrieb	Umgebungsbedingungen	Umgebungsbedingungen
<ul style="list-style-type: none"> <li>• Motoren die konzipiert sind komplett in eine Flüssigkeit zu laufen (IP68)</li> </ul>	<ul style="list-style-type: none"> <li>• Höhen über 1000 m über dem Meeresspiegel</li> <li>• Umgebungstemperaturen über 40° C</li> <li>• bei maximum Betriebstemperaturen über 400 °C</li> <li>• Umgebungstemperaturen unter -15° C (alle Motoren) oder Umgebungstemperaturen unter 0° C (Luft gekühlte Motoren)</li> <li>• mit Kühlmitteltemperaturen unter 5 °C oder über 25 °C</li> </ul>	<ul style="list-style-type: none"> <li>• in explosionsgefährdete Bereiche wie in Directive 94/9/EC der europäischen Parlament erwähnt.</li> </ul>
Konstruktion		Andere
<ul style="list-style-type: none"> <li>• Vollständig in eine Maschine integrierte Motoren (z.B. Pumpe, Lüfter oder Kompressor), die nicht getrennt von der Maschine geprüft werden können.</li> </ul>		<ul style="list-style-type: none"> <li>• Bremsmotoren</li> <li>• Polumschaltbarer Motoren</li> <li>• 8-, 10-, 12-polige Motoren</li> <li>• Einphasenmotoren</li> <li>• DC-Motoren</li> <li>• Betriebsarten anders als S1</li> <li>• Ausschließlich für den Umrichterbetrieb gefertigte Motoren</li> </ul>

# Typenbezeichnungen

## BK 50 Z - 1 1 U W A / D.. 09L A 4 - TF - S / ES 010 A 9 HN / C2

### B K 50 Z X - 1 1 U W A

A = Abdeckung für SSV

W = Doppelte Wellendichtung

V H = Vorn und hinten

V = Flansch A oder C oder Drehmomentstütze vorne

H = Flansch, A oder C oder angeschraubte Drehmomentstütze hinten

U = Fuß unten oder angeschraubte Drehmomentstütze nach unten

O = Fuß oben oder Drehmomentstütze angeschraubt in Richtung nach oben

R = Fuß rechts oder Drehmomentstütze angeschraubt in Richtung nach rechts

L = Fuß links oder Drehmomentstütze angeschraubt in Richtung nach links

0 = Vielkeilverzahnung nach DIN 5480

1 = Zapfenwelle, vorne

2 = Zapfenwelle, hinten

3 = Zapfenwelle, vorne und hinten

4 = Hohlwelle mit Passfedernut

5 = Hohlwelle für Schrumpfscheibenverbindung, hinten (Standard)

6 = Hohlwelle für Schrumpfscheibenverbindung, vorne (Sonderausführung)

7 = Zapfenwelle vorne, bündig mit Standard-Flansch nur BG10-BG90 und BS02+BS03

8 = Zapfenwelle hinten, bündig mit Standard-Flansch nur BS02+BS03

9 = Zapfenwelle vorne und hinten, bündig mit Standard-Flansch nur BS02+BS03

0 = Getriebegehäuse, keine Flächen bearbeitet außer Bohrung für Drehmoment-Stütze beim BF

1 = Getriebegehäuse, Fuß

2 = Getriebegehäuse, Normflansch Durchmesser 1 kleiner A-Flansch

3 = Getriebegehäuse, Normflansch Durchmesser 2 Standard A-Flansch

4 = Getriebegehäuse, Normflansch Durchmesser 3 großer A-Flansch

5 = Getriebegehäuse, mit Drehmomentstütze bei BK + BS angeschraubt

6 = Getriebegehäuse, Fuß-Gewindesackbohrungen

7 = Getriebegehäuse, C - Flansch

8 = Getriebegehäuse, alle Seiten bearbeitet

9 = Getriebegehäuse, mit Fußplatte/n nur BG (Universalgehäuse)

- = Trennt Getriebetyp von Getriebeausführung

X = Verstärkte Lagerung radial)

Z = Getriebe mit Vorstufe

•• = Getriebegröße (03, 04, 05, 06, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100)

B • = Getriebeart (BG, BF, BK, BS)

### D .. 09 LA 4 - TF - S

S = Gleichrichter (siehe Kapitel 3)

TF = Motorschutz (siehe Kapitel 3)

4 = Motorpolzahl

LA = Motorpaketlänge und Design

09 = Motorgröße

.. = A Aseptikmotor = Keimfreierantrieb

.. = SE Drehstrommotor mit erhöhtem Wirkungsgrad nach IE1

.. = HE Drehstrommotor mit erhöhtem Wirkungsgrad nach IE2

.. = PE Drehstrommotor mit erhöhtem Wirkungsgrad nach IE3

.. = NF Motor ohne Getriebe, Motor in Flanschausführung

.. = XE Expl.-Motor mit erhöhter Sicherheit

.. = XD Druckfest

D = Drehstrommotor

### ES 010 A 9 HN

HA = Handlüftung (arretierbar)E = Einscheibenbremse

HN = Handlüftung (nicht arretierbar)

9 = Kennziffer der eingestellten Bremsmoment

A = Konstruktionsstand

010 = Bremsengröße

ES = Einscheiben-Haltebremse

ZS = Zweiseiben-Haltebremse

ESX = Einscheiben-Arbeitsbremse

ZSX = Zweiseiben-Arbeitsbremse

# EU-Verordnung 640/2009/EG

## Welche Bedeutung hat die EU-Verordnung?

EN 60034-30 ist eine weltweit gültige Norm für Energiesparmotoren und wird in den nächsten Jahren weltweite Verwendung im Bereich der Energiesparmotoren finden.

Elektrische Motoren decken ca. 1.07 Billionen kWh des Gesamtenergiebedarfs in der EU ab. Der Einsatz von Energiesparmotoren würde 20 - 30 % Energieeinsparung zur Folge haben, den Anwendern TCO-Vorteile (Total Cost of Ownership), also einen Mehrwert verschaffen und gleichzeitig den Treibhauseffekt verringern.

## Der Stand heute

Seit Anfang 2009 gibt es neue IE (International Energy Efficiency) – Wirkungsgradklassifizierungen :

IE1 = Standard Wirkungsgrad (~EFF2)

IE2 = Hohe Wirkungsgrad (~EFF1)

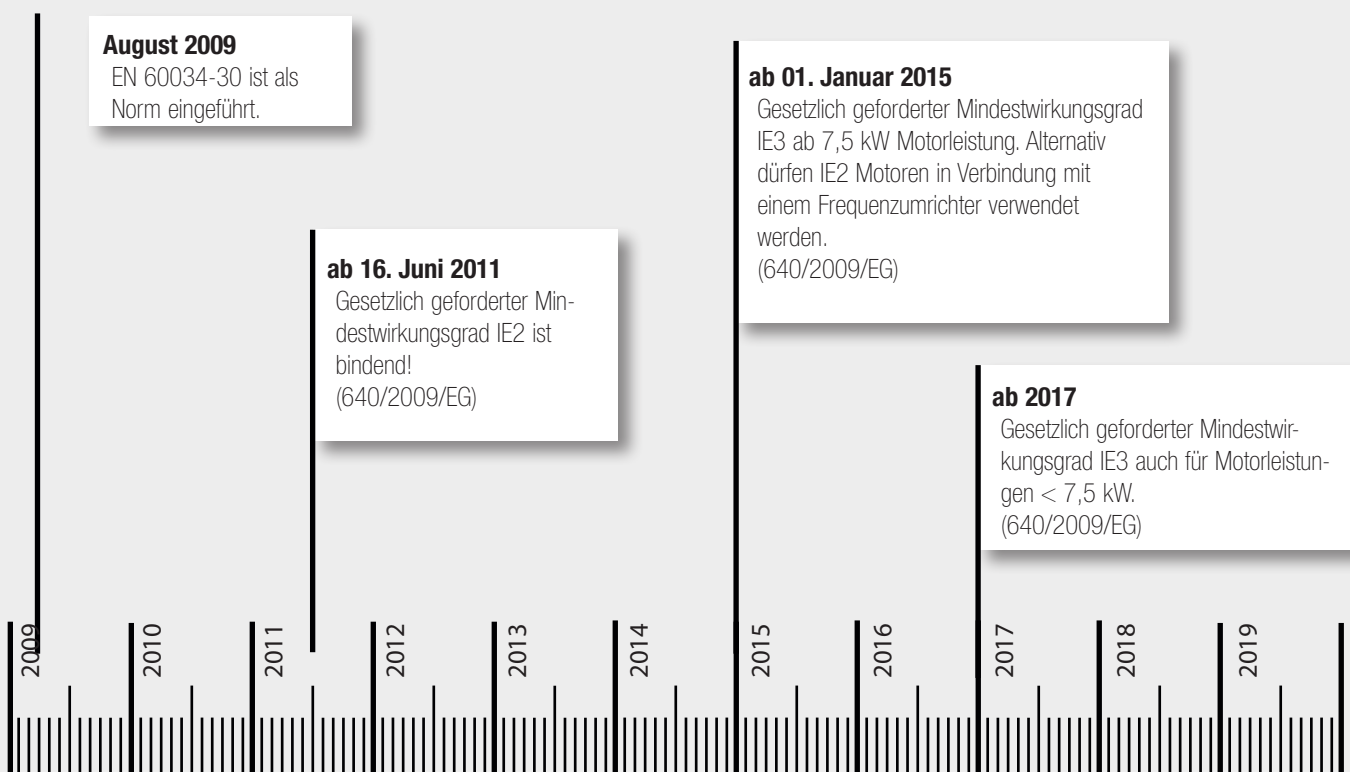
IE3 = Premium Wirkungsgrad (10 - 15 % höhere Wirkungsgrade als IE2)





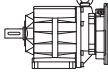
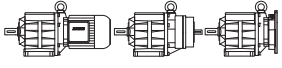
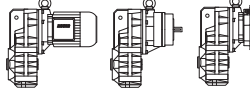
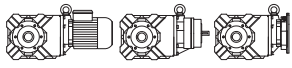
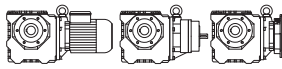
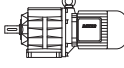
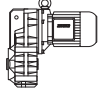
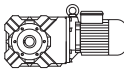
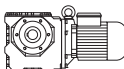
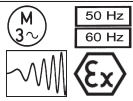

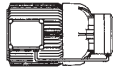
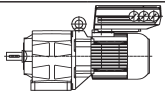

IE4 = Super Premium Wirkungsgrad

## Die IE Klassen decken folgendes ab

Nennspannung
bis 1000V
Leistung
0,75kW bis 375 kW
Polzahl
2, 4 oder 6 (50 und 60 Hz)
Betrieb
Netzbetrieb
Betriebsart
S1
Anmerkungen
Jetzt neu: Berücksichtigung von Getriebemotoren

## Was passiert wann?



		Seite
<b>Allgemein</b>		9-12
<b>Produktbeschreibungen</b>		13-18
<b>Typenbezeichnungen</b>		19-28
<b>Getriebemotorauswahl</b>		29-50
<b>Getriebe und Schmierstoffe</b>		51-76
<b>Stirnrad-Getriebemotoren Reihe BG Auswahl</b>		77-164
<b>Flach-Getriebemotoren Reihe BF Auswahl</b>		165-238
<b>Kegelrad-Getriebemotoren Reihe BK Auswahl</b>		239-298
<b>Schnecken-Getriebemotoren Reihe BS Auswahl</b>		299-336
<b>Stirnrad-Getriebemotoren Reihe BG Maßbilder</b>		337-390
<b>Flach-Getriebemotoren Reihe BF Maßbilder</b>		391-442
<b>Kegelrad-Getriebemotoren Reihe BK Maßbilder</b>		443-496
<b>Schnecken-Getriebemotoren Reihe BS Maßbilder</b>		497-534
<b>Motoren</b>		535-586
<b>Motoranbauten</b>		587-612
<b>Motoranbauten Maßbilder</b>		613-632
<b>Elektronik</b>		633-648
<b>BAUER Weltweit</b>		649-658

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18





### Fast - Flexible - Reliable

...Als einer der führenden Hersteller von intelligenter Antriebstechnik leben wir dieses Motto seit mehr als 80 Jahren .  
Innovative Produkte, zeitgemäße Prozesse und verantwortungsvolle Mitarbeiter setzen dies um, indem wir unser gesamtes Tätigkeitsfeld dem Ziel der Ressourcen – und Umweltschonung sowie effizienter Energienutzung unterordnen.  
Der Erfolg dieser Bemühungen setzt voraus, dass wir die Applikationen unserer Kunden und deren Anforderungen an die Antriebstechnik kennen und exakt beherrschen. Wir tun dies perfekt- von der Projektierung, Entwicklung, Auslegung, über Beschaffung, Produktion und Logistik bis hin zu speziellem Anwendungswissen in den wichtigsten Branchen.

### CD Rom:



### Internet:

**[WWW.BAUERGEARS.COM](http://WWW.BAUERGEARS.COM)**

Die aktuellste Version der AGB finden sie unter „[www.bauergears.de](http://www.bauergears.de)“.

### Stirnrad-Getriebemotor Reihe BG



Kompakte und wirtschaftliche Stirnrad-Getriebemotoren für lange Lebensdauer und kraftvollen Einsatz unter schwierigsten Bedingungen.

- Leistungsbereich von 0,03 kW bis 75 kW
- 13 Getriebegrößen für den Drehmomentbereich 20 Nm bis 18500 Nm
- Neue Anbaumöglichkeiten durch geringe Bauhöhe
- Hoher Wirkungsgrad durch zwei-stufige Grundkonstruktion
- Hohe Schutzart IP 65 serienmäßig
- Servicefreundliche Anbaubremse

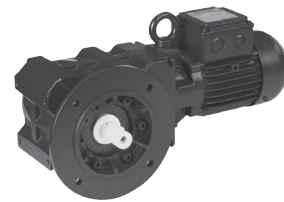
### Flach-Getriebemotor Reihe BF



Flache Aufsteckgetriebe mit integrierter Drehmomentstütze können einfach an- und eingebaut werden.

- Getriebegehäuse mit integrierter Drehmomentstütze
- Leistungsbereich von 0,03 kW bis 75 kW
- 10 Getriebegrößen für den Drehmomentbereich 90 Nm bis 18500 Nm
- Hoher Wirkungsgrad durch zwei-stufige Grundkonstruktion
- Hohe Schutzart IP 65 serienmäßig
- Servicefreundliche Anbaubremse

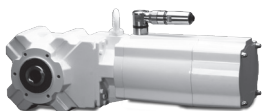
### Kegelrad-Getriebemotor Reihe BK



Kegelrad-Getriebemotoren sichern einen hohen Gesamtwirkungsgrad der Antriebslösung, besonders in Kombination mit Frequenzumrichtern.

- Winkelgetriebe mit universellen, platzsparenden Anbaumöglichkeiten
- Leistungsbereich von 0,03 kW bis 75 kW
- 10 Getriebegrößen für den Drehmomentbereich 80 Nm bis 18500 Nm
- Hoher Wirkungsgrad durch zwei-stufige Grundkonstruktion
- Hohe Schutzart IP 65 serienmäßig
- Servicefreundliche Anbaubremse

### AsepticDrive™



Getriebemotor für die Lebensmittel- und Getränkeindustrie sowie alle Anwendungen mit hoher Reinigungsintensität oder Umgebungsbelastung wie Staub, Flusen etc.

- Motor ohne Kühlrippen und Lüfter
- Motorleistung
  - DA08 0,25 kW-0,55 kW
  - DA09 0,37 kW - 1,5 kW
  - DA11 1,1 kW - 2,2 kW
- Lieferbar mit Stirnrad-, Flach-, Kegelrad- oder Schneckengetriebe
- Motorwicklung standardmäßig mit Thermistoren und Iso-Klasse F
- Standardmäßig Schutzart IP 67 und IP 69K mit laugen- und säurebeständiger Lackierung
- Motoranschluss über standardmäßigen Rundstecker in Edelstahl
- Wirkungsgradklassifizierung IE2 / IE3

### CleanDrive™



Getriebemotor für die Nahrungsmittel- und Getränkeindustrie in Schutzart IP 66 mit laugen- und säurebeständiger Lackierung als Standard.

- Motor ohne Kühlrippen und Lüfter
- Motorleistung 0,12 kW
- Motorwicklung standardmäßig mit Thermistoren und Iso-Klasse F
- Motoranschluss über standardmäßigen Klemmenkasten oder Edelstahl-Kabelverschraubung

### CleanConnect®



Speziell für die Anforderungen der Getränkeindustrie entwickelt: Hohe Schutzart IP 67, goldbedampfte Kontakte und glatte Oberfläche für eine sichere Strom- und Signalübertragung in feuchter Umgebung.

- Reinigungsfreundliche und reinigungsmittelbeständige Oberfläche
- Genormter M25 Gewindeanschluss
- Ohne Werkzeuge anschließbar, verdrehsicher codiert
- EMV-konform durch großflächige Schirmanbindung
- Lieferbar mit gerader und abgewinkelter Einschraubung



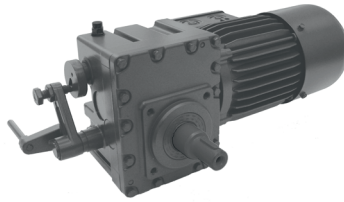
### Schnecken-Getriebemotor Reihe BS



Raumsparende Winkelgetriebe besonders für kleine Drehmomente und hohe Übersetzungen.

- Leistungsbereich von 0,03 kW bis 5,5 kW
- 8 Getriebegrößen für den Drehmomentbereich 25 Nm bis 1000 Nm
- Hohlwellen-Ausführung schon ab 25 Nm
- Hochbelastbare Schneckenverzahnung für lange Lebensdauer
- Hohe Schutzart IP 65 serienmäßig
- Servicefreundliche Anbaubremse

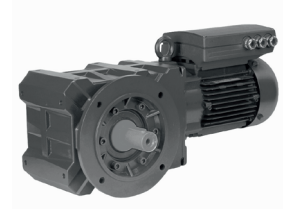
### Elektrohängebahn- Getriebemotor Reihe BM



Ein komplettes Getriebeprogramm für Elektrohängebahn-Applikationen in allen Lastbereichen.

- Drehmoment 30 Nm bis 680 Nm
- Querkraft bis zu 6500 N
- Getriebe mit vielseitigen Befestigungsmöglichkeiten
- Schutzart IP 65 als Standard
- Verbesserter Wirkungsgrad - niedriger Energieverbrauch - ideal für Fahrtriebe
- Getriebe rückwärts durchdrehbar bei gelüfteter Bremse

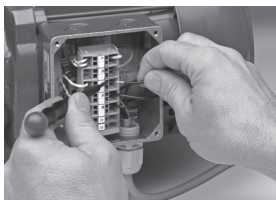
### Umrichter-Getriebemotor Reihe Eta-K



Eta-K-Lösungen sind eine integrale Kombination von Getriebemotor und Frequenzumrichter und bieten daher äußerst kompakte dezentrale Antriebslösungen.

- Raum- und kostensparendes Konzept
- Keine abgeschirmte Motorleitung notwendig
- Mechatronische Adaption zwischen Frequenzumrichter und Motor
- Leistungsbereich 0,12 kW bis 7,5 kW
- Spannungsversorgung 3 x 380V - 480V
- Gemäß aller EMV-Normen
- Standardmäßig RS485-Schnittstelle, optional Profibus- Schnittstelle
- Zugelassen für Zone 2 und 22
- UL zugelassen

### CAGE CLAMP®



Der Einsatz von Bauer Getriebemotoren bis 30 kW mit CAGE CLAMP® Anschluss-technik reduziert die Kosten sowohl bei der Neuinstallation als auch im Servicefall.

- Kosteneinsparung beim Anschließen
- Einfache Handhabung
- Kabelquerschnitt bis 25 mm<sup>2</sup> ohne Aderendhülsen
- Kosteneinsparung bei Material und Werkzeugen
- Rüttel- und schocksicher
- zugelassen

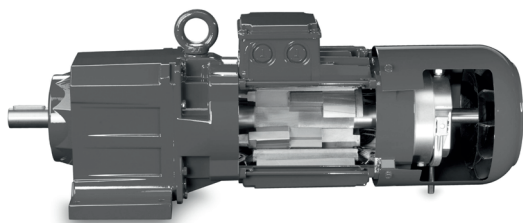
### Explosionsschutz BAUER Getriebemotoren



Getriebemotoren geeignet für die Verwendung in explosionsgefährdeten Bereichen:

GAS	Zonen 1, 2					
STAUB	Zonen 21, 22					
DXD	Zone 1,	II 2G Ex d(e) II C T4,	0,12	... 90	kW	
DXE	Zone 1,	II 2G Ex e II T3,	0,12	... 11	kW	
DXN	Zone 2,	II 3G Ex nA II T3,	0,03	... 30	kW	
DXC	Zone 21,	II 2D Ex tD A21 IP65 T<160°C,	0,03	... 30	kW	
DXC	Zone 21, II 2D Ex tD A21 IP65 T120°C,		0,03	... 11	kW	
DXS	Zone 22, II 3D Ex tD II T<160°C,		0,03	... 30	kW	
DXD	Zone 1/21,	II 2G Ex d(e) II C T4/II 2D Ex tD A21 IP65 T120°C,	0,12	... 90	kW	
DXE	Zone 1/21,	II 2G Ex e II T3/II 2D Ex tD A21 IP65 T120°C,	0,12	... 11	kW	
DXS	Zone 2/22,	II 3G Ex nA II T3/II 3D Ex tD II T<160°C,	0,03	... 30	kW	

### Energiespargetriebemotoren



$\eta$	Vorteile	Ihr Nutzen
Ohne	<ul style="list-style-type: none"> <li>• Motorauslegung nach Betriebsart</li> <li>• Geringes Bauvolumen und minimales Gewicht</li> <li>• höhere Motorleistungen</li> </ul>	<ul style="list-style-type: none"> <li>• Preiswert</li> <li>• geringer Bauraum</li> <li>• Motor effizient ausgenutzt</li> <li>• Auf Kundenanwendung zugeschnitten</li> <li>• Kleinere Motorbaugröße</li> </ul>
IE1	<ul style="list-style-type: none"> <li>• Standardwirkungsgrad bei Dauerbetrieb</li> <li>• Geringes Bauvolumen und minimales Gewicht</li> </ul>	<ul style="list-style-type: none"> <li>• Preiswert</li> <li>• Geringer Bauraum</li> <li>• Im EU Ausland universell einsetzbar</li> </ul>
IE2	<ul style="list-style-type: none"> <li>• Hoher Wirkungsgrad bei Dauerbetrieb</li> <li>• Höhere Anlaufmomente</li> </ul>	<ul style="list-style-type: none"> <li>• Preiswert</li> <li>• Wenig Bauraum</li> <li>• Bis zu 34% erhöhte Energieeinsparung gegenüber IE1</li> <li>• Niedrigere Motornennleistung bei dynamischen Anwendungen als IE1</li> <li>• Kurze Amortisationszeiten</li> </ul>
IE3	<ul style="list-style-type: none"> <li>• Premium Wirkungsgrad bei Dauerbetrieb</li> <li>• Höhere Anlaufmomente</li> </ul>	<ul style="list-style-type: none"> <li>• Bis zu 18% erhöhte Energieeinsparung gegenüber IE2</li> <li>• Erfüllt bereits heute die Mindestwirkungsgradanforderung von 2015/2017</li> </ul>
IE4	<ul style="list-style-type: none"> <li>• Super Premium Wirkungsgrad</li> <li>• Drehzahlregelung bei höchster Effizienzstufe</li> <li>• Geringes Bauvolumen und minimales Gewicht</li> <li>• Erheblich besserer Wirkungsgrad auch im Teillastbereich im Vergleich zu IE2 Motoren</li> <li>• Große Drehmoment- und Leistungsdichte</li> <li>• Hohe Überlastfähigkeit</li> </ul>	<ul style="list-style-type: none"> <li>• Bis zu 39% erhöhte Energieeinsparung gegenüber IE2</li> <li>• Kurze Amortisationszeit</li> <li>• Geringer Bauraum</li> <li>• Kompakte Antriebseinheit</li> <li>• Mehr Drehmoment bei gleicher Motorbaugröße</li> <li>• Weniger Bauraumbedarf bei gleicher Leistung</li> <li>• Variantenreduzierung durch höhere Wirkungsgrade über den gesamten Drehzahlbereich</li> <li>• Auslegungssicherheit durch Reserven in der Antriebseinheit</li> <li>• Technologieführer</li> <li>• Erfüllt bereits heute die Wirkungsgradanforderungen künftiger Standards</li> </ul>

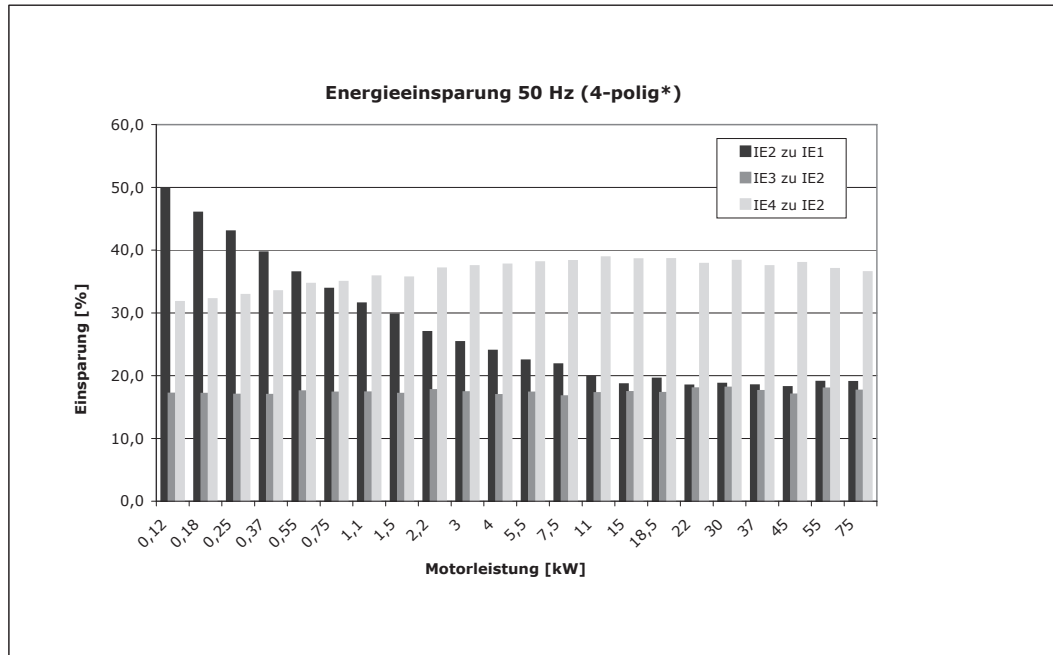
### Investitionssicherheit für die Zukunft

Rund 70% des Energiebedarfs des gesamten industriellen Verbrauchs entfallen auf elektromotorisch angetriebene Maschinen. Würde man die bereits seit Jahrzehnten installierten Altantriebe durch moderne Antriebssysteme ersetzen, wäre innerhalb Europas eine Energieeinsparung in Höhe von 135 Milliarden Kilowattstunden pro Jahr möglich.

Die Motorenplattform von Bauer Gear Motor GmbH bietet sowohl richtungsweisende Technologien für energieeffiziente Antriebe als auch auf die Anwendung zugeschnittene Motorauslegungen.

Letztere Lösungen gewährleisten hocheffiziente Antriebslösungen ohne Bauraumzuwachs.

### Energieeinsparungspotentiale in der Antriebstechnik



<b>P<sub>N</sub></b> <b>[kW]</b>	<b>IE1*</b>	<b>IE2*</b>	<b>IE3*</b>	<b>IE3*</b>	<b>IE4*</b>
0,55	DSE08MA4	DHE08LA4			SU08MA4
0,75	DSE08LA4	DHE08XA4	DPE09LA4		S08MA4
1,1	DSE09SA4	DHE09LA4	DPE09XA4		S08LA4
1,5	DSE09LA4	DHE09XA4	DPE09XA4C	S08LA4	S09SA4
2,2	DSE09XA4	DHE09XA4C	DPE11MA4	S09SA4	S09XA4
3	DSE11SA4	DHE11MA4	DPE11LA4	S09XA4	S11SA6
4	DSE11MA4	DHE11LA4	DPE11LA4C	S11SA6	S11MA6
5,5	DSE11LA4	DHE11LA4C	DPE13LA4	S11MA6	S11LA6
7,5	DSE13MA4	DHE13LA4	DPE16LA4	S11LA6	
9,5	DSE13LA4	DHE16MA4	DPE16XA4		
11	DSE16MA4	DHE16LA4	DPE18LA4		
15	DSE16LA4	DHE16XA4	DPE18XA4		
18,5	DSE16XA4	DHE18LA4			
22	DSE18LA4	DHE18XA4			
30	DSE18XA4	DHENF20LG4			

\*bei 1500 1/min





Seite

---

## **Kundennutzen durch Bauer-Getriebemotoren**

**9-12**

**Bauer-Getriebemotoren**

**Bauer-Getriebe**

**Bauer-Motoren**

**Bauer-Bremsen**

---



**Bauer-Getriebemotoren**

- Geringe Betriebskosten durch einen hohen Gesamtwirkungsgrad
- 2-stufiges Getriebekonzept ermöglicht eine längere Lebensdauer durch weniger bewegte Teile
- Geringer Instandhaltungsaufwand durch das Baukastensystem
- keine zusätzlichen Schutzmaßnahmen (z.B. staubige Umgebung) durch hohe IP65 Schutzart als Standard
- Elektrische Auslegung des Motors ist auf das Getriebe abgestimmt
- Rasche Reaktion in dringenden Fällen (Maschinenstillstände, etc.) durch Fast Assembly Lieferung (innerhalb von 24 Stunden)

**Bauer-Getriebe**

- Einfacher Zugang zu den Befestigungselementen reduziert die Montagezeiten und die Einbaukosten
- Geringe Wartungskosten, da Schmierstoffwechsel bei normalen Betriebsbedingungen und einer Schmierstofftemperatur von etwa 80°C erst nach 15000 Betriebsstunden bei Verwendung von CLP 220 bzw. 25000 Betriebsstunden bei Verwendung PGLP 220 / PGLP 460, erfolgen sollte.
- 2-stufiges Getriebekonzept verringert die Ersatzteilkosten
- Vielfalt von Anbaumöglichkeiten (Fuß, Flansch, Zapfen- oder Hohlwellen, Drehmomentstütze)
- Geschlossene Gehäusekonstruktion verhindert Ölleckagen und erhöht die Lebensdauer des Öls
- Großes Gehäusevolumen ermöglicht die Verwendung auch bei sehr rauen Arbeitsbedingungen

**Bauer-Motoren**

- Geringe Betriebskosten durch hohe Motorwirkungsgrade (IE1, IE2 und IE3 als Standard)
- Geringe Installationskosten durch Federzugklemmenanschluss CAGE CLAMP anstatt Klemmbrettverbindung
- Vielfalt von Zusatzausführungen (Stecker, Bremsen, Rücklaufsperrn, Schutzhauben, Fremdlüfter, Geber, etc.)
- Kostenreduzierung der Anschlussleitungen und Vermeidung zusätzlicher Schutzelemente (Ausgangsdrosseln, Filter, etc.), durch angebauten Frequenzumrichter (ETA-Solution)
- Ideal für den Frequenzumrichterbetrieb durch die Verwendung von Isolierstoffklasse F als Standard

**Bauer-Bremsen**

- Geringe Wartungskosten durch die lange Lebensdauer der Reibbeläge (ohne Nachstellen)
- Auf die Anwendung zugeschnittene Bremsen-Motor-Zuordnungen aufgrund von durchschnittlich drei kombinierbaren Bremsengrößen je Motorbaugröße
- Vielfalt von Ausführungen (arretierbare und nicht arretierbare Handlüftung, Mikroschalter, Heizung)
- Robuste Ausführung für Heavy Duty Anwendungen
- Hohe Schutzart IP65 als Standard
- Sehr hohe Verschleißfestigkeit







Seite

---

## **Auswahl von Getriebemotoren**

**13-18**

**Sicherheitshinweise**

**Abdeckungen rotierender Teile**

**Berührungsschutz**

**Geräuschverhalten**

**Lackierung und Korrosionsschutz**

**Das Modulare System**

**Getriebeausführungen**

---



### Räumliche Anordnung der Getriebemotoren

Bauer-Getriebemotoren können für jede beliebige Einbaulage geliefert werden. Bei Aufstellung mit nach unten hängendem Motorteil ist die Wellendichtung besonders beansprucht. Diese Aufstellung sollte daher vor allem bei hohen Motordrehzahlen (z.B. über 1800/min) und bei Dauerbetrieb vermieden werden.

### Sicherheitshinweise

Bei der Installation bitte die Sicherheitshinweise in der Betriebsanleitung beachten.

### Abdeckungen rotierender Teile

Die im "**Gesetz über technische Arbeitsmittel und Verbraucherprodukte (Geräte- und Produktsicherheitsgesetz - GPSG)**" oder in der **Unfallverhütungsvorschrift (UVV)**" vorgeschriebenen Abdeckungen der Schrumpfscheiben (SSV) gehören **nicht zum normalen Lieferumfang**, da sie häufig bauseits angebracht werden oder durch entsprechenden Einbau eine Unfallgefahr ausgeschlossen werden kann.

Bitte die Betriebsanleitung beachten.

### Berührungsschutz

Die kleinen Motoren D04LA und D05LA sind mit glattem Motorgehäuse ausgeführt. Diese IP54-Version bringt besonders in der Textil-, Pharma- und Lebensmittelindustrie sowie im Apparatebau Vorteile gegenüber den gerippten Motorgehäusen. Die technisch bedingte Oberflächentemperatur der glatten Motoren, besonders im Dauerbetrieb, kann in einigen Fällen einen bauseits angebrachten Berührungsschutz erforderlich machen. Die Lüfterhauben, über die außen angebrachten Lüfterräder, der gesamten B2000 Motorreihe erfüllen den Berührungsschutz mit dem Normfinger (Ø12mm).

### Geräuschverhalten

Das typische Geräuschverhalten von BAUER-Getriebemotoren liegt unter den zulässigen Werten der VDI-Richtlinie 2159 für Getriebe und EN 60034-9, Tab.2 für Motoren.

Die Geräuschentwicklung von Getrieben mit kleinen Übersetzungen und hohen Drehzahlen liegt physikalisch bedingt höher als bei mittleren und hohen Übersetzungen und niedrigen Drehzahlen.

Weitere Informationen siehe BAUER-Sonderdruck SD18..

### Lackierung und Korrosionsschutz

Bauer-Getriebemotoren sind listenmäßig im Farbton RAL 7031 nach DIN 1843 lackiert. Andere RAL-Farbtöne sind gegen Mehrpreis lieferbar.

Die Arbeitswellen werden zum Transport mittels Schutzhülse oder Schutzanstrich gegen Korrosion geschützt.

Bei erhöhten Anforderungen an die Korrosionsbeständigkeit sind die Antriebe mit erhöhtem Korrosionsschutz lieferbar: CORO 1, CORO 2, CORO 3 oder CORO 4

Auf Wunsch sind gegen Mehrpreis Lackschichtdicken bis 200 µm lieferbar. Von größeren Schichtdicken bei Getriebemotoren wird abgeraten, da die Gefahr des Lackabplatzens im Bereich der Rippen und beim Öffnen des Klemmenkastens besteht.

# Produktbeschreibungen

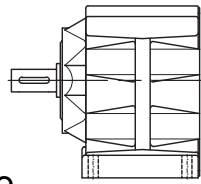
## Das Modulare System

2

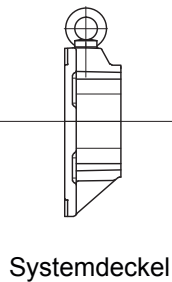
### Getriebeausführung

### Motorausführung Klemmenkästen

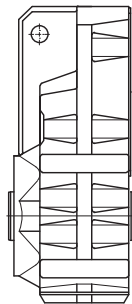
BG



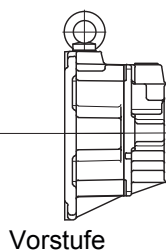
Stirnradgetriebe



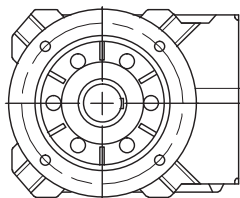
BF



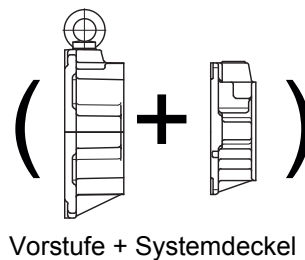
Flachgetriebe



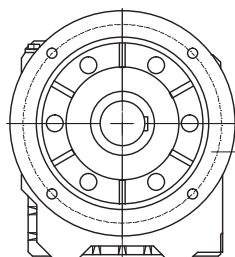
BK



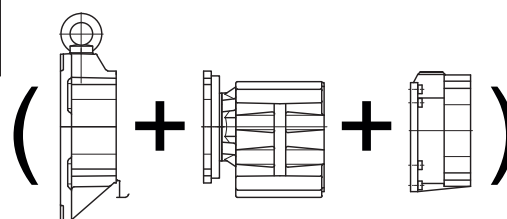
Kegelradgetriebe



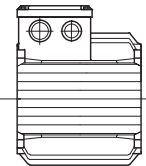
BS



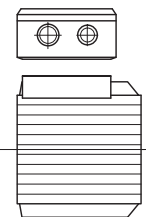
Schneckenradgetriebe



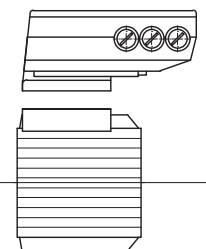
(Systemdeckel + Zwischengetriebe + Systemdeckel)



Motor mit angeegossenem  
Klemmenkasten (KAG)



Motor mit angeschraubten  
Klemmenkasten (TB)

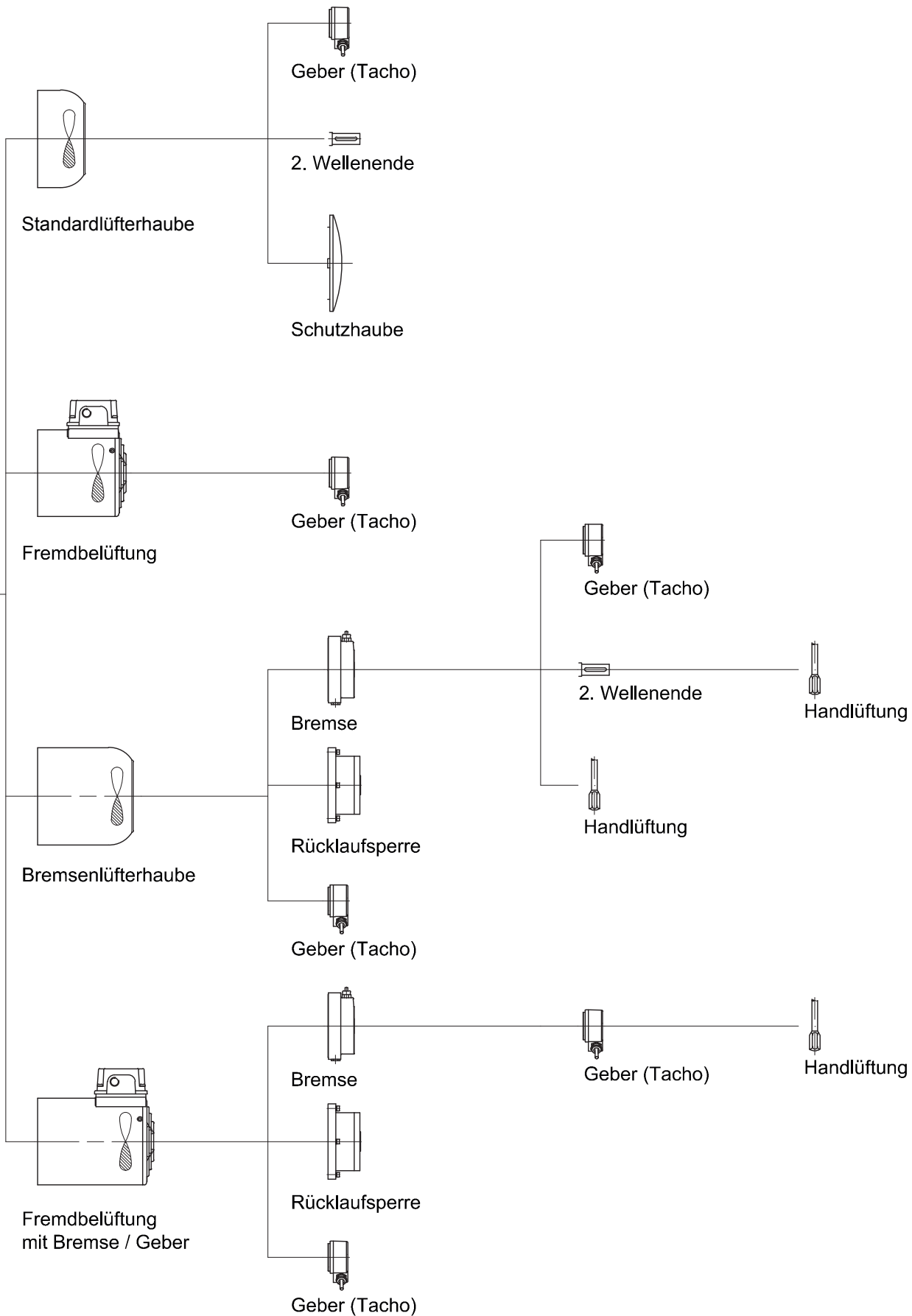


Motor mit ETA-K-Umrichter

### Lüfterhauben B-Lagerschilde



### Anbauten Standardmotor

### Anbauten Bremsmotor





# 3

<b>Bauer</b>			
D-Modell E 28163019-1   AJ 171M0816   49/2008			
Typ BG70-110XE13LA4C2			
Ex II 2 G Ex e II T3			
PTR 08 ATEX 3052-BL02			
U <sub>N</sub>	5,5 kV/Phase	0,301 S1	INCOIT
I <sub>N</sub>	60 A	400 V	11,9 A
n <sub>n</sub>	1460 1/min	28 mm	1810 1/min
i			
i <sub>1/2</sub>	8:1	i <sub>2</sub>	12:0
M <sub>12</sub>	1=66	12=6	6,5 L CS.P.220
T <sub>max</sub> 40 °C   185 kg			
  0102 EN 60034			

Seite

19-28

## Typenbezeichnungen

Aufbau der Typenbezeichnung

Stirnrad-Getriebemotorenreihe-BG

Flach-Getriebemotorenreihe-BF

Kegelrad-Getriebemotorenreihe-BK

Schnecken-Getriebemotorenreihe-BS

Beschreibung der Ausführungsvarianten

Allgemeiner Aufbau

# Typenbezeichnungen

## Aufbau der Typenbezeichnung

### Bauer-Kegelradgetriebemotor mit Bremse und listenmässigen Zusatzausführungen

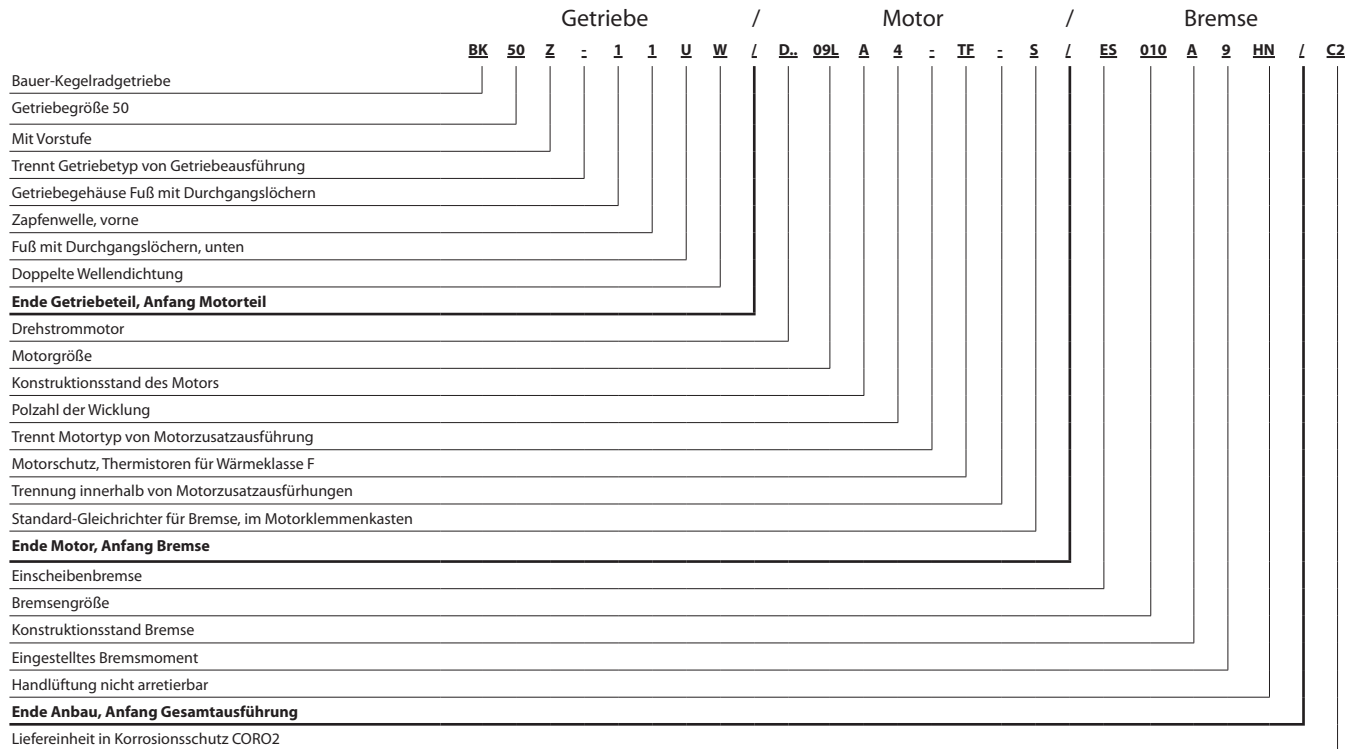
Beispiel: Bauer-Kegelradgetriebemotor mit Bremse und listenmässigen Zusatzausführungen

#### Aufbau der Typenbezeichnung

Die Typenbezeichnung der Bauer-Getriebemotoren beschreibt die Gesamtausführung des Antriebs.

Anhand folgender Beispiel eines Kegelradgetriebemotors mit Bremse und listenmässigen Zusatzausführungen wird der Aufbau dargestellt.

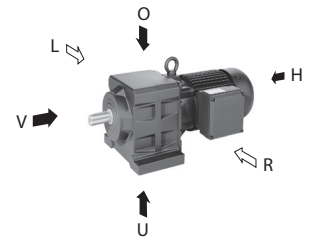
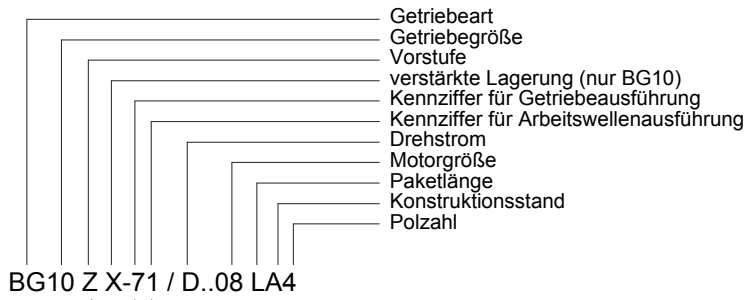
3





# Typenbezeichnungen

## Stirrad-Getriebemotor Reihe BG



- Z- . . . . . Getriebe mit Vorstufe
- G- . . . . . Doppelgetriebe
- 1 . . . . . Fuß mit Durchgangslöchern

- 2 . . . . . kleiner A-Flansch mit Durchgangslöchern
- 3 . . . . . Standard A-Flansch mit Durchgangslöchern
- 4 . . . . . großer A-Flansch mit Durchgangslöchern

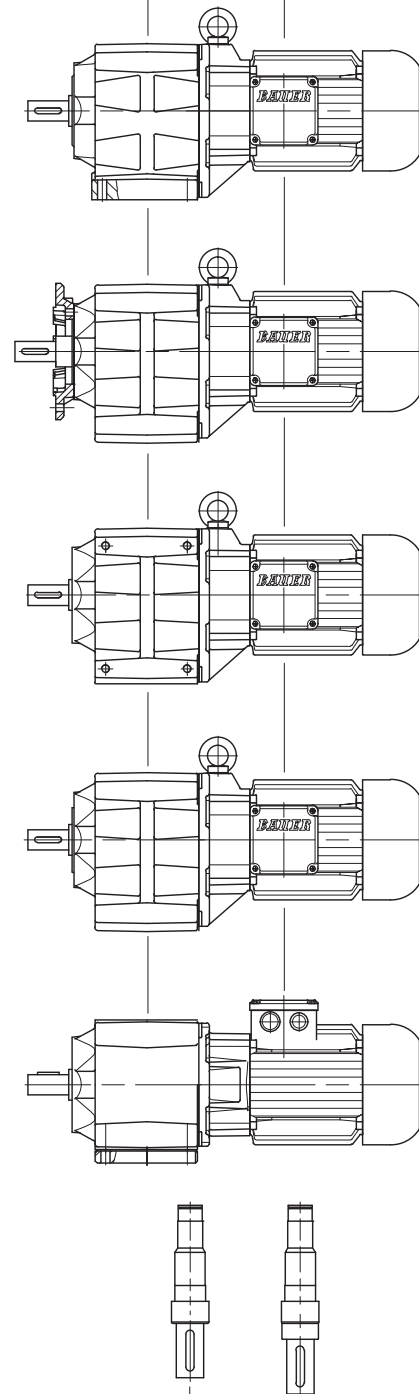
- 6 . L . . . . . Fuß mit Gewindelöchern links
- 6 . R . . . . . Fuß mit Gewindelöchern rechts
- 6 . LR . . . . . Fuß mit Gewindelöchern links und rechts

- 7 . . . . . C-Flansch mit Gewindelöchern
- 8 . . . . . allseitig bearbeitet

- 9 . L . . . . . Fußplatte links
- 9 . R . . . . . Fußplatte rechts
- 9 . LR . . . . . Fußplatte links u. rechts

- . 1 Zapfenwelle auf Getriebeseite V
- . 7 Zapfenwelle auf Getriebeseite V für Flansch ab BG10

- . . W doppelte Wellendichtung



# Typenbezeichnungen

## Flach-Getriebemotor Reihe BF

3

Getriebeart  
 Getriebegröße  
 Vorstufe  
 verstärkte Lagerung (≥BF60)  
 Kennziffer für Getriebeausführung  
 Kennziffer für Arbeitswellenausführung  
 Drehstrom  
 Motorgröße  
 Paketlänge  
 Konstruktionsstand  
 Polzahl

BF70 Z X-74 / D..11 LA4

Z-.. — Getriebe mit Vorstufe  
 X-.. — Getriebe mit verstärkter Lagerung  
 G-.. — Doppelgetriebe

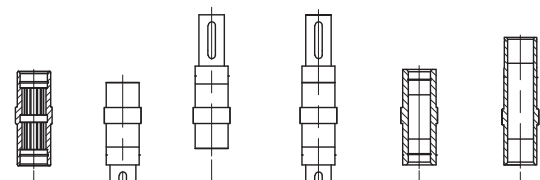
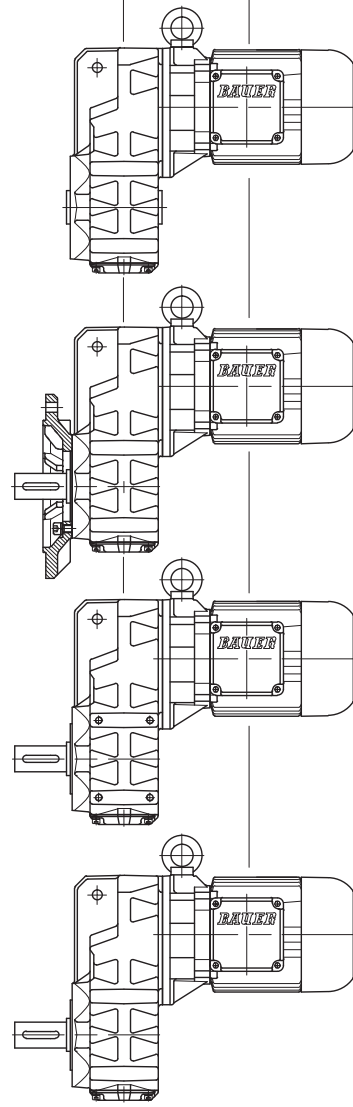
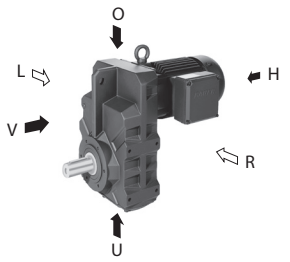
0 . — Drehmomentstütze angegossen

2 . — kleiner A-Flansch mit Durchgangslöchern  
 3 . — Standard A-Flansch mit Durchgangslöchern  
 4 . — großer A-Flansch mit Durchgangslöchern

1 . LR — Fuß mit Durchgangslöchern links u. rechts  
 6 . L — Fuß mit Gewindelöchern links  
 6 . R — Fuß mit Gewindelöchern rechts  
 6 . LR — Fuß mit Gewindelöchern links u. rechts

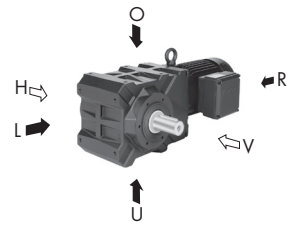
7 . — C-Flansch mit Gewindelöchern  
 8 . — allseitig bearbeitet

0 Vielkeilverzahnung nach DIN 5480  
 1 Zapfenwelle auf Getriebeseite V  
 2 Zapfenwelle auf Getriebeseite H  
 3 Zapfenwelle auf Getriebeseite V und H  
 4 Hohlwelle mit Paßfedernut  
 5 Hohlwelle für Schrumpfscheibe SSV  
 .. W doppelte Wellendichtung  
 .. A Abdeckung für Schrumpfscheibenverbindung SSV



# Typenbezeichnungen

## Kegelrad-Getriebemotor Reihe BK



———— Getriebeart  
 ———— Getriebegröße  
 ———— Vorstufe  
 ———— verstärkte Lagerung (≥BK20)  
 ———— Kennziffer für Getriebeausführung  
 ———— Kennziffer für Arbeitswellenausführung  
 ———— Drehstrom  
 ———— Motorgröße  
 ———— Paketlänge  
 ———— Konstruktionsstand  
 ———— Polzahl

**BK20 Z X-64U / D06 LA4**

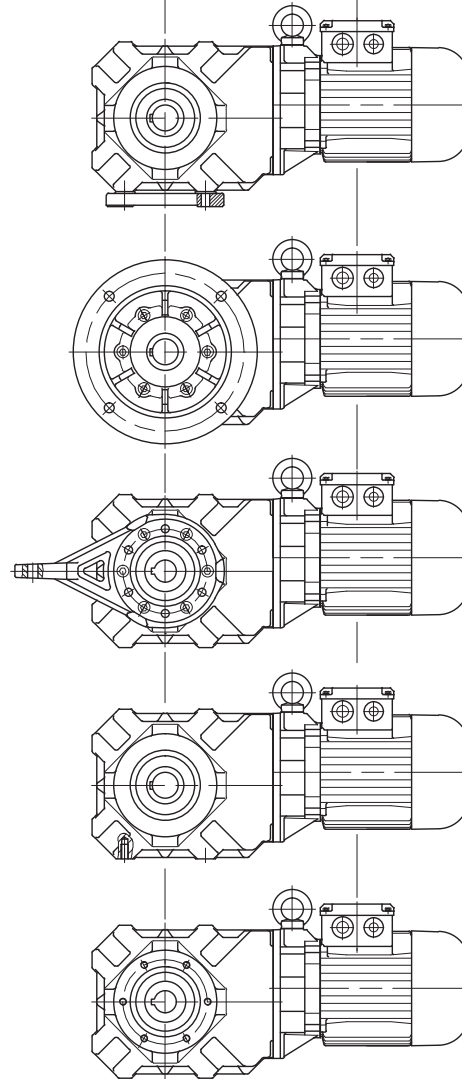
- 1 . U ——— Fuß mit Durchgangslöchern unten
- 1 . L ——— Fuß mit Durchgangslöchern links
- 1 . O ——— Fuß mit Durchgangslöchern oben

- 2 . V ——— kleiner A-Flansch mit Durchgangslöchern vorne
- 3 . V ——— Standard A-Flansch mit Durchgangslöchern vorne
- 4 . V ——— großer A-Flansch mit Durchgangslöchern vorne
- . . H ——— A-Flansch hinten
- . . VH ——— A-Flansch vorne und hinten

- 5 . V ——— Drehmomentstütze vorne
- 5 . VL ——— Drehmomentstütze vorne nach links
- 5 . VO ——— Drehmomentstütze vorne nach oben
- 5 . VU ——— Drehmomentstütze vorne nach unten
- 5 . HL ——— Drehmomentstütze hinten nach links
- 5 . HO ——— Drehmomentstütze hinten nach oben
- 5 . HU ——— Drehmomentstütze hinten nach unten

- 6 . U ——— Fuß mit Gewindelöchern unten
- 6 . L ——— Fuß mit Gewindelöchern links
- 6 . O ——— Fuß mit Gewindelöchern oben

- 7 . V ——— C-Flansch mit Gewindelöchern vorne
- 7 . H ——— C-Flansch mit Gewindelöchern hinten
- 7 . VH ——— C-Flansch mit Gewindelöchern vorne und hinten
- 8 . ——— allseitig bearbeitet

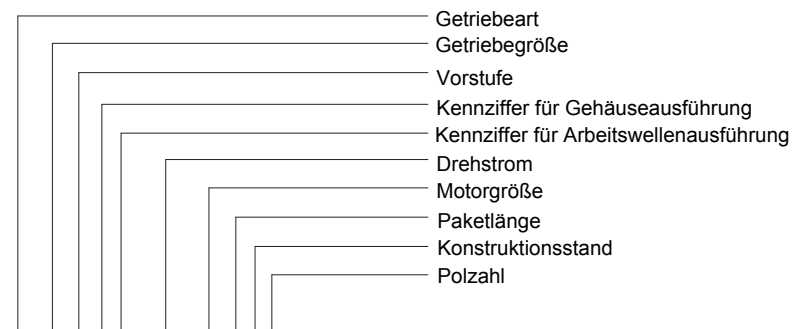


- . 0 Vielkeilverzahnung nach DIN 5480
- . 1 Zapfenwelle auf Getriebeseite V
- . 2 Zapfenwelle auf Getriebeseite H
- . 3 Zapfenwelle auf Getriebeseite V und H
- . 4 Hohlwelle mit Paßfedernut
- . 5 Hohlwelle für Schrumpfscheibe SSV auf Getriebeseite H
- . . W doppelte Wellendichtung
- . . A Abdeckung für Schrumpfscheibenverbindung SSV

# Typenbezeichnungen

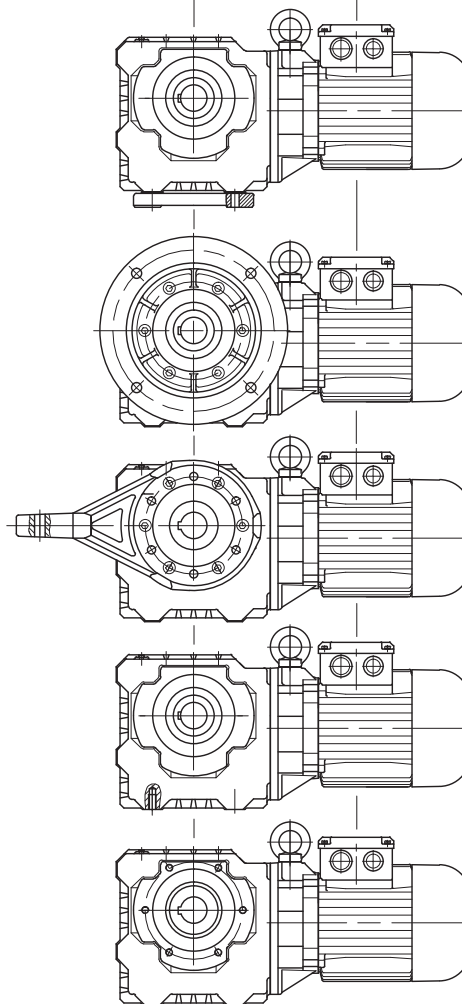
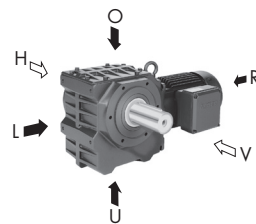
## Schnecken-Getriebemotor Reihe BS

3



BS40 Z-64U/ D..08 LA4

- 1 . U — Fuß mit Durchgangslöchern unten
- 1 . L — Fuß mit Durchgangslöchern links
- 1 . O — Fuß mit Durchgangslöchern oben
  
- 2 . V — kleiner A-Flansch mit Durchgangslöchern vorne
- 3 . V — Standard A-Flansch mit Durchgangslöchern vorne
- 4 . V — großer A-Flansch mit Durchgangslöchern vorne
- .. H — A-Flansch hinten
- .. VH — A-Flansch vorne und hinten
  
- 5 . V — Drehmomentstütze vorne
- 5 . VL — Drehmomentstütze vorne nach links
- 5 . VO — Drehmomentstütze vorne nach oben
- 5 . VU — Drehmomentstütze vorne nach unten
- 5 . HL — Drehmomentstütze hinten nach links
- 5 . HO — Drehmomentstütze hinten nach oben
- 5 . HU — Drehmomentstütze hinten nach unten
  
- 6 . U — Fuß mit Gewindelöchern unten
- 6 . L — Fuß mit Gewindelöchern links
- 6 . O — Fuß mit Gewindelöchern oben
  
- 7 . V — C-Flansch mit Gewindelöchern vorne
- 7 . H — C-Flansch mit Gewindelöchern hinten
- 7 . VH — C-Flansch mit Gewindelöchern vorne und hinten
- 8 . — allseitig bearbeitet



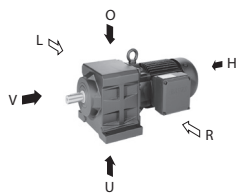
- 
- . 1 Zapfenwelle auf Getriebeseite V
  - . 2 Zapfenwelle auf Getriebeseite H
  - . 3 Zapfenwelle auf Getriebeseite V und H
  - . 4 Hohlwelle mit Paßfedernut
  - . 5 Hohlwelle für Schrumpfscheibe SSV
  - . 7 Zapfenwelle auf Getriebeseite V für Flansch (nur BS02 u. BS03)
  - . 8 Zapfenwelle auf Getriebeseite H für Flansch (nur BS02 u. BS03)
  - . 9 Zapfenwelle auf Getriebeseite V und H für Flansch (nur BS02 u. BS03)
  - .. W doppelte Wellendichtung ab BS10
  - .. A Abdeckung für Schrumpfscheibenverbindung SSV ab BS10

# Typenbezeichnungen

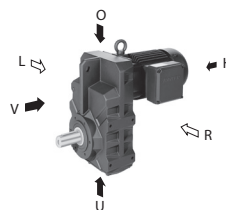
## Beschreibung der Ausführungsvarianten

### BG und BF Reihe

BG-Reihe: Bauform B3



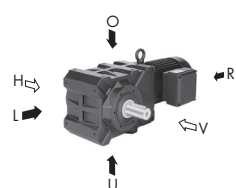
BF-Reihe: Bauform H4



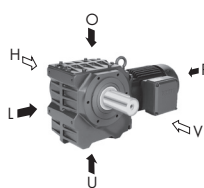
- V = Vorne  
Ist die dem Motor bzw. der Eintriebseinheit abgewandte Seite des Getriebes.
- H = Hinten  
Ist die dem Motor bzw. der Eintriebseinheit zugewandte Seite des Getriebes.
- L = Links  
Mit Sicht auf die Abtriebswelle in Bauform B3 bei der BG Reihe, bzw. in Bauform H4 bei der BF Reihe die linke Seite des Getriebes.
- R = Rechts  
Mit Sicht auf die Abtriebswelle in Bauform B3 bei der BG Reihe bzw. in Bauform H4 bei der BF Reihe, die rechte Seite des Getriebes.

### BK und BS Reihe

BK-Reihe: Bauform H1



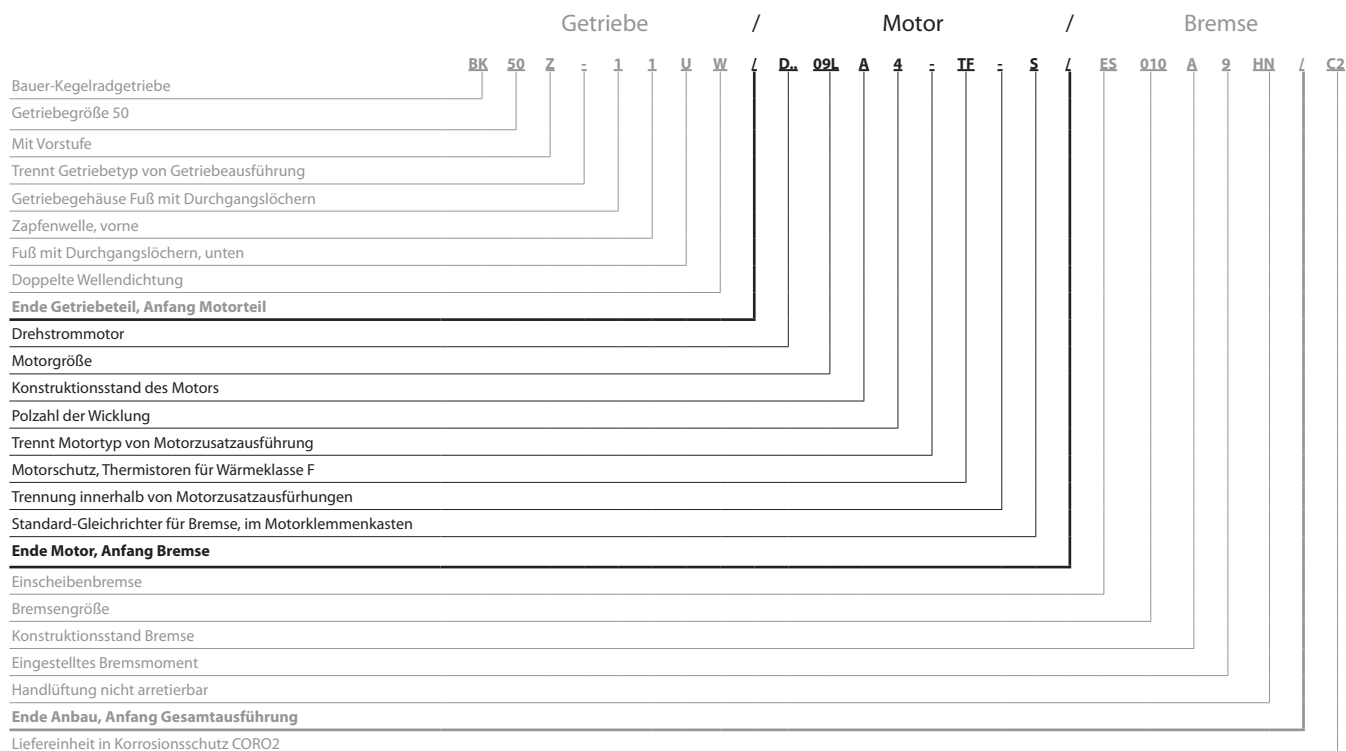
BS-Reihe: Bauform H1



- V = Vorne  
Mit Sicht auf die Bauform H1, die dem Betrachter zugewandte Seite des Getriebes.
- H = Hinten  
Mit Sicht auf die Bauform H1, die dem Betrachter abgewandte Seite des Getriebes.
- L = Links  
Mit Sicht auf die Abtriebswelle in Bauform H1 die linke Seite des Getriebes, bzw. nach links ausgerichtete Drehmomentstütze.
- O = Oben  
Mit Sicht auf die Abtriebswelle in Bauform H1 die obere Seite des Getriebes, bzw. die nach oben ausgerichtete Drehmomentstütze.
- U = Unten  
Mit Sicht auf die Abtriebswelle in Bauform H1, die untere Seite des Getriebes bzw. die nach unten ausgerichtete Drehmomentstütze.

# Typenbezeichnungen

## Allgemeiner Aufbau



### Drehstrommotor

D	=	Drehstrommotor
E	=	Einphasenmotor (Steinmetzschaltung)
S	=	PM-Synchronmotor
. A	=	Aseptikmotor = Keimfreierantrieb
. SE	=	Drehstrommotor mit erhöhtem Wirkungsgrad nach IE1
. HE	=	Drehstrommotor mit erhöhtem Wirkungsgrad nach IE2
. PE	=	Drehstrommotor mit erhöhtem Wirkungsgrad nach IE3
. N	=	Motor ohne Getriebe, Motor in Fußausführung
. NF	=	Motor ohne Getriebe, Motor in Flanschausführung
. R	=	Rollgangsmotor
. XE	=	Expl.-Motor mit erhöhter Sicherheit
. XD	=	Druckfest
. W	=	Drehfeldmagnet
. L	=	Sonder-Läufer für Fahr.-und Drehwerksmotoren
. C	=	Mit Haupt + Hilfswicklung nur bei Einphasenmotor (EC....)
. V	=	Mehrbereichsspannung (Weitspannung)
. U	=	Unbelüftet (d.h. auch ohne FB)

### Motorschutz

TB	=	Thermistor 140°
TF	=	Thermistor 160°
TH	=	Thermistor 180°
TEB	=	Thermistor warnen/abschalten 120°/140°
TBF	=	Thermistor warnen/abschalten 140°/160°
TFH	=	Thermistor warnen/abschalten 160°/180°
TOB	=	Thermostat, Öffner 140°
TOF	=	Thermostat, Öffner 160°
TOH	=	Thermostat, Öffner 180°
TSB	=	Thermostat, Schließer 125°
TSF	=	Thermostat, Schließer 160°
TSH	=	Thermostat, Schließer 180°
TX	=	andere

### Bremsen Gleichrichter im Motorklemmenkasten

S	=	Standard-Gleichrichter	SG
E	=	Sonder-Gleichrichter	ESG
M	=	Sonder-Gleichrichter	MSG

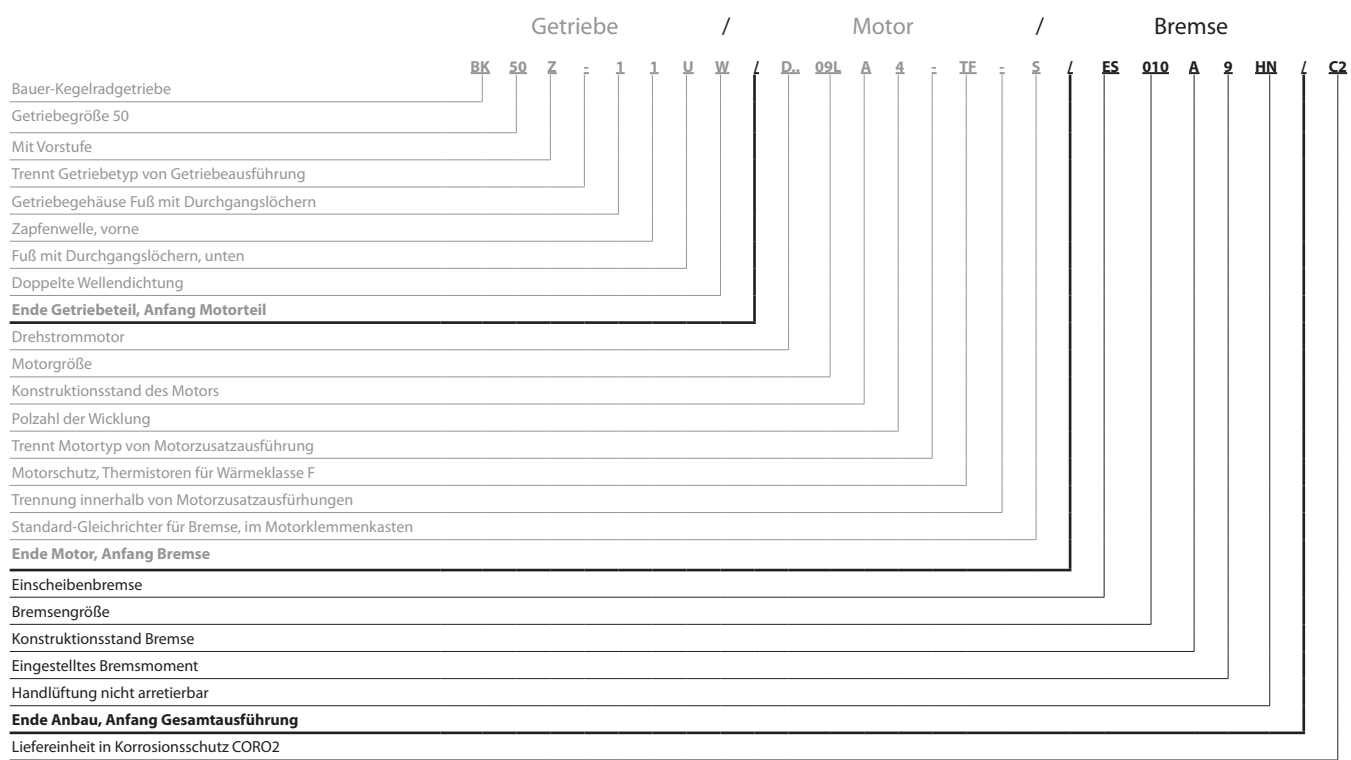
### Steckeranschluss Schwerer Lüfter Schutzdach CleanDrive™

ST	=	Harting (andere)
SL	=	
D	=	
CD	=	Aseptikantrieb mit Kabel

# Typenbezeichnungen

## Allgemeiner Aufbau

3



<b>Bremse</b>	E	= Einscheibenbremse
	ES	= Einscheiben-Haltebremse
	EH	= Haltebremse Einscheiben in Heavy Duty Ausführung
	ZS	= Zweiseiben-Haltebremse
	ESX	= Einscheiben-Arbeitsbremse
	EHX	= Einscheiben-Arbeitsbremse in Heavy Duty Ausführung
	ZSX	= Zweiseiben-Arbeitsbremse
	... 010	= Bremsengöße
	... .. A	= Konstruktionsstand
	... .. . 9	= Kennziffer der eingestellten Bremsmoment
	... .. . . HN	= Handlüftung (nicht arretierbar)
	... .. . . HA	= Handlüftung (arretierbar)
<b>Rücklaufsperre</b>	RR	= Sperrichtung rechts
	RL	= Sperrichtung links
<b>Digital- und Analoggeber</b>	G	
<b>Zweites Wellenende</b>	ZW	= mit Passfeder
	ZV	= mit Vierkant
<b>Fremdbelüftung</b>	FV	
<b>Gesamtausführung</b>	AV	= USA/Kanada Ausführung mit Wellenabmessungen in Zoll
	AM	= USA/Kanada Ausführung mit metrische Wellenabmessungen
	UL	= US Ausführung
	CS	= Kanadische Ausführung
	C1	= Korrosionsschutz Coro1
	C2	= Korrosionsschutz Coro2
	C3	= Korrosionsschutz Coro3
	SP	= nicht Katalogmäßige Ausführung





# 4



Seite

---

<b>Getriebemotorenauswahl</b>	<b>29-50</b>
Spezifikation von Getriebemotoren	
Antriebsauslegung	
Auslegung Motoren	
Radial- und Axialkräfte an der Arbeitswelle	
Projektierung nach Wirkungsgrad	
Stoßgrade von Arbeitsmaschinen	

---

**29-50**

# Getriebemotoren Auswahl

## Spezifikation von Getriebe- motoren

Angaben für Anfrage

Bestellung

Bauer Gear Motor GmbH

Bestellung / Anfrage-Nr.: \_\_\_\_\_

Fax: + 49 (0)711 3518 381

Kontaktdaten: \_\_\_\_\_

Email: info@bauergears.de

Applikation \_\_\_\_\_

(z.B. Fahrtrieb, Hubtrieb, Rollenbahn, Förderschnecke, etc.)

Getriebeart



BG

BF

BK

BS

Stückzahl \_\_\_\_\_

Wirkungsgradklasse nicht IE  IE2  IE3

Typ \_\_\_\_\_

Leistung(en) \_\_\_\_\_ kW

Drehzahl(en) \_\_\_\_\_ 1/min

Drehmoment(e) \_\_\_\_\_ Nm Betriebsfactor  $f_b =$  \_\_\_\_\_

Bauform \_\_\_\_\_ Klemmenkasten-Lage \_\_\_\_\_

**RAL 7031** oder Sonder-RAL-Ton \_\_\_\_\_

Korrosionsschutz **Standard** oder CORO1 / CORO2 / CORO3 \_\_\_\_\_

Netzspannung \_\_\_\_\_ V Betriebsart \_\_\_\_\_

Frequenz \_\_\_\_\_ Hz

Thermistoren  Thermostate

Umgebungstemperatur \_\_\_\_\_ °C Aufstellhöhe (NN) [m] \_\_\_\_\_

Umgebungsbedingung/Einsatzort \_\_\_\_\_

Übertragungselement (direkt, Kette, Zahnrad, Riemen, etc) \_\_\_\_\_

Radialkraft an der Arbeitswelle \_\_\_\_\_ N bei Abstand x vom Wellenbund \_\_\_\_\_ mm

Axialkraft an der Arbeitswelle \_\_\_\_\_ N

Betrieb am Umrichter

Drehzahlen von \_\_\_\_\_ 1/min bis \_\_\_\_\_ 1/min Eckfrequenz \_\_\_\_\_ Hz

Integrierter Umrichter  Schaltschrankumrichter

Getriebeausführung

- Fuß mit Durchgangslöchern
- A-Flansch mit Durchgangslöchern, Flanschdurchmesser D = \_\_\_\_\_ mm
- C-Flansch mit Gewindelöchern
- Drehmomentstütze mit Gummipuffern in Richtung L/U/O \_\_\_\_\_
- Fuß mit Gewindelöchern auf Seite L/R/LR/U/O \_\_\_\_\_

Arbeitswelle

- Zapfenwelle auf Seite V/H/VH \_\_\_\_\_
- Hohlwelle mit Passfedernut
- Hohlwelle für Schrumpfscheibe

Motoranbauen

- Bremse
- Typ \_\_\_\_\_ Bremsmoment = \_\_\_\_\_ Nm
- Anschlussspannung = \_\_\_\_\_ VAC \_\_\_\_\_ Hz oder \_\_\_\_\_ V DC
- Handlüftung ja  nein
- Mikroschalter ja  nein

- Drehgeber
- Inkremental
- Absolut
- Impulszahl \_\_\_\_\_
- Ausgangssignal HTL  TTL

- Fremdbelüftung
- Rücklaufsperre der Abtriebswelle in Drehrichtung (Uhrzeiger/Gegenuhrzeiger) \_\_\_\_\_

Sonderausführungen \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

### Antriebsauslegung

Für die Herstellung von Waren und Gütern sind in den Produktionsanlagen und zur Handhabung Bewegungsvorgänge erforderlich. Zu Ihrer Realisierung werden in stationären Produktionsanlagen Getriebemotoren eingesetzt. Ihre optimale Anpassung an den jeweiligen Bewegungsvorgang ist das Ziel einer Antriebsauslegung.

Die Bewegungsabläufe in Maschinen und Anlagen können sehr verschieden sein. Der erfahrene Projektierer reduziert die benötigten Bewegungsabläufe auf wenige Standardlösungen:

- kontinuierliche Linearbewegungen
- reversierende Linearbewegungen
- Linearbewegungen in der Horizontalen
- Linearbewegungen in der Vertikalen und der Schrägen beim Lastheben\Lastsenken
- Kontinuierliche Drehbewegungen und reversierende Drehbewegungen

Alle Bewegungsvorgänge sind zu unterteilen in:

- die Beschleunigungsphase
- die Phase mit konstanter Geschwindigkeit
- die Abbremsphase

Bei der Antriebsdimensionierung sind alle Bewegungsabschnitte separat zu betrachten, um zu ermitteln, in welchem die Belastung am höchsten ist. Nach der maximalen Belastung erfolgt die Auswahl des Antriebssystems.

Unser Sonderdruck "Projektierungshandbuch" gibt Hilfestellung für die unterschiedlichen Anwendungsfälle.

### Erforderliche Daten zur Antriebsauslegung

Zusätzlich zu den auf Seite 34 ("Spezifikation von Getriebemotoren"), aufgeführten Angaben werden folgende Daten für die Antriebsauslegung benötigt:

Bezeichnung	Beschreibung	Einheit
Z	Schalhäufigkeit	[1/h]
t <sub>d</sub>	Betriebszeit pro Tag	[h]
t <sub>s</sub>	Verzögerungszeit	[s]
n <sub>2</sub>	Abtriebsdrehzahl	[1/min]
n	Bemessungsdrehzahl an der Läuferwelle	[1/min]
J	Massenträgheitsmoment	[kgm <sup>2</sup> ]
J <sub>ext</sub>	Externes Massenträgheitsmoment	[kgm <sup>2</sup> ]
J <sub>ext</sub>	Externes Massenträgheitsmoment bezogen auf die Läuferwelle des Motors	[kgm <sup>2</sup> ]
J <sub>rot</sub>	Massenträgheitsmoment des Läufers	[kgm <sup>2</sup> ]
F	Kraft	[N]
m	Masse	[kg]
v	Geschwindigkeit	[m/s]
a	Beschleunigung	[m/s <sup>2</sup> ]
g	Erdbeschleunigung	[m/s <sup>2</sup> ]
P <sub>dyn</sub>	Dynamische Leistung	[kW]
P <sub>s</sub>	Statische Leistung	[kW]
P	Leistung	[kW]
M <sub>2</sub>	Abtriebsdrehmoment	[Nm]
M <sub>zerf</sub>	Erforderliches Antriebsdrehmoment	[Nm]
M <sub>N</sub>	Bemessungsdrehmoment an der Läuferwelle	[Nm]
M <sub>b</sub>	Verzögerungsmoment	[Nm]
M <sub>L</sub>	Bremsendes oder treibendes Lastmoment	[Nm]
M <sub>gr</sub>	Spezifisches Grenzmoment des Getriebes bei Untersetzung i	[Nm]
M <sub>Br</sub>	Bemessungsmoment der Bremse	[Nm]
i	Untersetzung Getriebe	
FI	Trägheitsfaktor	

### Ablauf Antriebsauslegung

#### Auslegung Motor

#### Ermittlung der Motorleistung

Die erforderliche Leistung lässt sich im Allgemeinen wie folgt berechnen:

$$P = \frac{F \times v}{\eta}$$

Wie oben beschrieben, werden die Bewegungsvorgänge in die Beschleunigungsphase (dynamische Leistung), die Phase mit konstanter Geschwindigkeit (statische Leistung) und die Abbremsphase unterteilt.

Je nach Bewegungsvorgang hat die Kraft  $F$ , welche alle zu überwindenden Widerstände wie Rollreibung, Reibkraft, Hubkraft, Beschleunigung usw. aus dem Antriebsstrang berücksichtigt, einen sehr starken Einfluss auf die Leistung und ist gemäß dem Anwendungsfall, explizit zu ermitteln.

Hilfestellung für die richtige Auslegung der Motorleistung finden Sie in Kapitel 15.

#### Ermittlung der Drehmomentbedarfes

Soweit die Motorleistung ermittelt wurde, kann das erforderliche Getriebeabtriebsdrehmoment berechnet werden mit:

$$M_2 = \frac{P \times 9550}{n_2}$$

#### Ermittlung der Getriebeuntersetzung

Die Getriebeuntersetzung ist das Verhältnis der Bemessungsdrehzahl des Motors, (siehe Kapitel 15 Motordatenblatt), zur gewünschten Abtriebsdrehzahl des Getriebemotors.

$$i = \frac{n}{n_2}$$

#### Auslegung Getriebegröße

#### Ermittlung des Trägheitsfaktors

Der Trägheitsfaktor  $FI$  ist das Verhältnis sämtlicher, auf die Drehzahl des Motors umgerechneter und von ihm angetriebenen Massen, einschließlich des Trägheitsmoments des Motorläufers zum Trägheitsmoment des Motorläufers, also:

$$FI = \frac{J_{ext} + J_{rot}}{J_{rot}} \quad \text{wobei} \quad J_{ext} = \frac{J_{ext}}{i^2} \quad \text{ist.}$$

### Festlegung des Stoßgrades

Der Stoßgrad, (siehe Kapitel 6/7/8/9), wird in Abhängigkeit von dem FI – Faktor, dem Übertragungselement und dem relativen Stoßmoment, ermittelt.

### Festlegung des Mindestbetriebsfaktors $f_{Bmin}$

Entsprechend der Betriebszeit pro Tag, der Schalthäufigkeit und dem festgelegten Stoßgrad kann der Betriebsfaktor  $f_{Bmin}$  aus den Tabellen in Kapitel 6/7/8/9 entnommen werden.

Mit diesem Mindestbetriebsfaktor  $f_{Bmin}$  wird nun ein Getriebemotor aus den Auswahltabellen selektiert, welcher einen höheren Betriebsfaktor bei der erforderlichen Abtriebsdrehzahl, Abtriebsdrehmoment und Motorleistung, aufweist.

Wichtig: Der Betriebsfaktor bezieht sich nur auf den statisch erforderlichen Drehmomentbedarf der Applikation, welches über das Abtriebsdrehmoment des gewählten Getriebemotors abgedeckt werden sollte.  
Der dynamische Anteil wird hierbei nicht berücksichtigt.

Der reelle Betriebsfaktor des Getriebemotors bezogen auf das statisch erforderliche Drehmoment lässt sich somit wie folgt berechnen:

$$f_B = \frac{M_{gr}}{M_{2erf}}$$

Als letzter Schritt sind die Zusatzausführungen für den Getriebemotor festzulegen.

### Festlegung Bremse

Im wesentlichen ist die Funktionalität der Bremsanwendung, in Abhängigkeit auf die zu leistende Reibarbeit als Haltebremse bzw. Arbeitsbremse zu unterscheiden.  
Die Definition der Haltebremse bzw. der Arbeitsbremse ist unter Kapitel 16 zu finden.

Das erforderliche Bremsmoment kann, sobald alle Daten und Forderungen bekannt sind, wie folgt berechnet werden:

$$M_{br} = M_a \pm M_L$$

$$M_a = \frac{J \times n}{9,55 \times t_a}$$

Sind keine spezifischen Daten der Anwendung bekannt, empfehlen wir das Bremsmoment bei horizontal angetriebenen Anlagen mit dem 1,0...1,5 fachen des Motorbemessungsmomentes zu wählen.

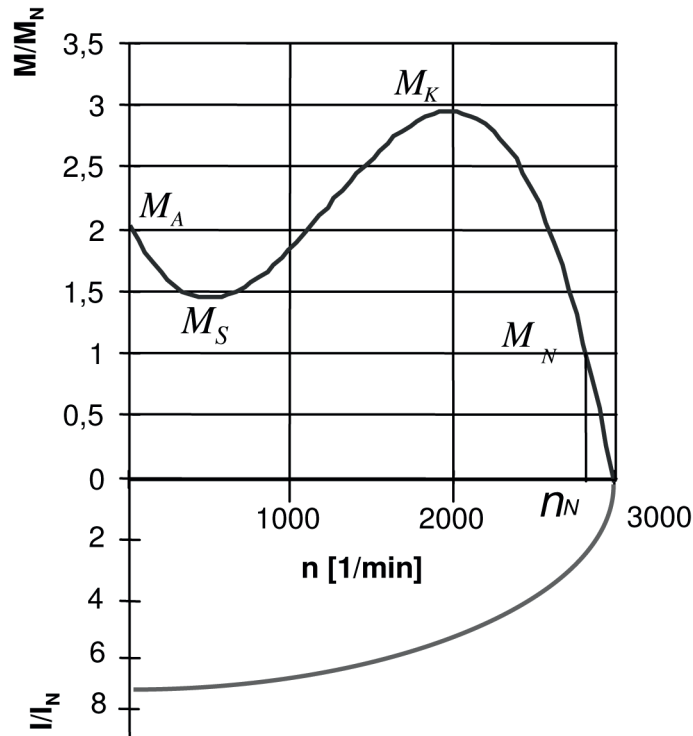
Bei Anwendungen mit Fremdmassenträgheitsmomenten (FI größer 2) und mit Schalthäufigkeiten pro Stunde ist die Bremsengröße unbedingt nach der thermisch zulässigen Schaltarbeit zu bemessen. Detaillierte Auslegung der Bremse siehe Kapitel 16.

Bei Hubwerken ist aus Sicherheitsgründen immer das 2-fache Bemessungsmoment des Motors als Bremsmoment zu wählen.

### Drehzahl-Drehmomenten-Kennlinie

Die Drehzahl-Drehmomenten-Kennlinie beschreibt die Funktionsweise der Asynchronmaschine. Die im Diagramm schematisch dargestellten Eckpunkte der Drehmomente sind wichtige Kriterien für die Auslegung der Motoren.

### Drehzahl - Drehmomentkennlinie



Mit dem **Anzugsmoment**  $M_A$  im Stillstand, auch Losbrechmoment genannt, wird die gewünschte Beschleunigung der Anlage eingestellt. Bei Netzbetrieb ist zu beachten, dass die in den Motordaten aufgeführten Anlaufmomente meistens als Verhältnis  $M_A/M_N$ , feste und nicht beeinflussbare Kenngrößen sind. Dies bedeutet, dass bei Netzbetrieb nur näherungsweise die gewünschte Beschleunigung eingestellt werden kann. Der Umrichterbetrieb wird gesondert behandelt.

Das **Sattelmoment**  $M_S$ , auch als Durchzugsmoment bezeichnet, ist das kleinste Drehmoment, das während des Hochlaufs auftritt. Es muss auf jeden Fall größer sein, als das in diesem Augenblick wirkende Lastmoment, da der Antrieb sonst nicht beschleunigt werden kann.

Das **Kippmoment**  $M_K$  ist das maximale Drehmoment, das der Motor abgeben kann. Steigert man die Belastung über das Bemessungsmoment  $M_N$ , so nimmt der Schlupf  $s$  weiter zu, die Drehzahl  $n$  wird kleiner und der Motor liefert ein größeres Drehmoment. Dies kann bis zu einem Maximalwert  $M_K$  gesteigert werden. Dann kippt der Motor, d.h., seine Drehzahl bricht bei diesem Schlupfwert (Kippschlupf) plötzlich zusammen. Wird das Kippmoment überschritten, muss entweder die Last weggenommen oder der Motor sofort ausgeschaltet werden. Ansonsten wird der Motor durch die rasant steigende Erwärmung zerstört.

Das **Bemessungsdrehmoment**  $M_N$  ist das im Dauerbetrieb konstant zur Verfügung stehende Drehmoment bei Bemessungsleistung  $P_N$  und Bemessungsdrehzahl  $n_N$ .

### Dynamische Leistung

Die dynamische Leistung ist die Leistung, die das gesamte System (Last, Übertragungsglieder, Getriebe und Motor) beschleunigt

$$P_{\text{dyn}} = \frac{m \times a \times v}{\eta}$$

- $P_{\text{dyn}}$  Dynamische Leistung [W]
- $m$  Masse [kg]
- $a$  Beschleunigung [ $\text{m/s}^2$ ]
- $v$  Geschwindigkeit [ $\text{m/s}$ ]
- $\eta$  Wirkungsgrad

### Statische Leistung

Die statische Leistung berücksichtigt alle Kräfte, die im unbeschleunigten Zustand auftreten. Dies sind unter anderem: Rollreibung, Reibkräfte, Hubkraft bei Steigung und Windkraft.

$$P_s = \frac{F_f \times v}{\eta}$$

- $P_s$  Statische Leistung [W]
- $F_f$  Fahrwiderstand [N]

### Gesamtleistung $P_G$

$$P_G = P_{\text{dyn}} + P_s$$

$$P_G = \frac{m \times a \times v}{\eta} + \frac{F_f \times v}{\eta}$$

Horizontale Bewegung, Drehbewegung und Vertikalbewegung aufwärts	
Hochlaufzeit [s]	$t_A = \frac{\left[ J_M + \frac{J_{\text{ext}}}{\eta} \right] \times \eta_M}{9,55 \times \left[ M_A - \frac{M_L}{\eta} \right]}$
Schalzhäufigkeit [c/h]	$Z = Z_0 \times \frac{1 - \left[ \frac{M_L}{M_A \times \eta} \right]}{\left[ \frac{J_S + \frac{J_{\text{ext}}}{\eta} + J_M}{J_M} \right]} \times K_L$
Vertikalbewegung abwärts	
Hochlaufzeit [s]	$t_A = \frac{\left[ J_M + \frac{J_{\text{ext}}}{\eta} \right] \times \eta_M}{9,55 \times \left[ M_A - (M_L \times \eta) \right]}$
Schalzhäufigkeit [c/h]	$Z = Z_0 \times \frac{1 - \left[ \frac{M_L \times \eta}{M_A} \right]}{\left[ \frac{J_S + J_M + (J_{\text{ext}} \times \eta)}{J_M} \right]} \times K_L$

# Getriebemotoren Auswahl

## Auslegung Motoren

### Auswahl des Motors

Beispiel:

Erforderliches dynamisches Moment am Motor (Beschleunigung): 126 Nm

Erforderliches statisches Moment am Motor: 70,0 Nm

Gesamtmoment am Motor: 196 Nm

### IE2

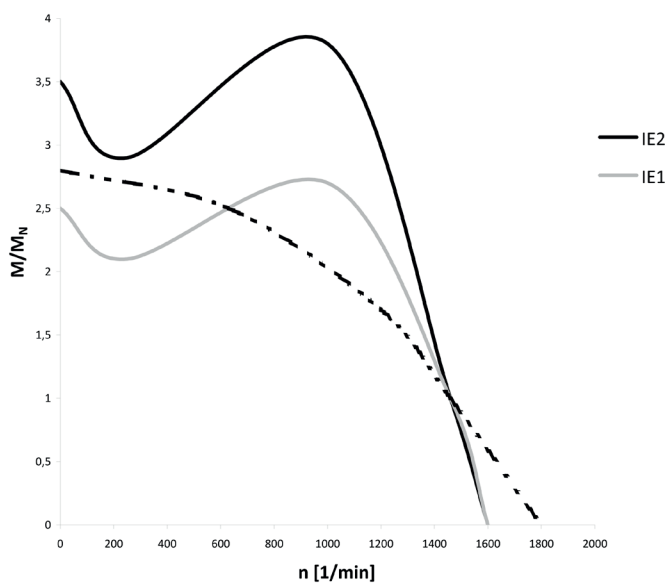
$P_N$ [kW]	Typ	$n_N$ [1/min]	$M_N$ [Nm]	$I_N$ 400 V [A]	$\cos\varphi$	$\eta$ (100% - Last) [%]	$\eta$ 75% - Last [%]	$\eta$ (50% - Last) [%]	$I_A/I_N$	$M_A/M_N$	$M_S/M_N$	$M_K/M_N$	$J_{rot}$ [kgm <sup>2</sup> ]
7,5	DHE13LA4	1460	49	15,1	0,81	88,9	89,2	87,9	7,0	3,3	3,0	3,5	0,0345
9,5	DHE16MA4	1470	62	19,7	0,78	89,4	89,4	86,5	6,8	2,9	2,5	3,2	0,057
11	DHE16LA4	1470	71	22,5	0,78	90,3	90,0	88,3	7,9	3,5	2,9	3,8	0,076
15	DHE16XA4	1470	97	31	0,77	90,6	90,8	88,8	7,2	3,2	2,8	3,5	0,087
18,5	DHE18LA4	1470	120	35	0,83	91,5	91,7	90,0	7,9	3,6	3,0	3,3	0,160

### IE1

$P_N$ [kW]	Typ	$n_N$ [1/min]	$M_N$ [Nm]	$I_N$ 400 V [A]	$\cos\varphi$	$\eta$ (100% - Last) [%]	$\eta$ 75% - Last [%]	$\eta$ (50% - Last) [%]	$I_A/I_N$	$M_A/M_N$	$M_S/M_N$	$M_K/M_N$	$J_{rot}$ [kgm <sup>2</sup> ]
7,5	DSE13MA4	1440	50	15,3	0,81	87,5	87,8	87,1	6,2	2,8	2,5	3,2	0,02900
9,5	DSE13LA4	1440	63	19,2	0,82	87,1	87,5	87,5	6,0	2,9	2,6	3,0	0,03450
11	DSE16MA4	1460	72	22,6	0,81	87,7	88,0	87,3	6,0	2,5	2,1	2,7	0,05700
15	DSE16LA4	1460	98	29,5	0,83	88,9	89,2	88,9	6,1	2,5	2,1	2,8	0,07600
18,5	DSE16XA4	1460	121	37,5	0,81	89,3	89,9	88,5	6,1	2,6	2,2	2,8	0,08700

Durch das wesentlich höhere Anzugsmoment ( $M_A$ ) von IE2 Motoren ( $M_A/M_N$  3,5) im Vergleich zu IE1 Motoren ( $M_A/M_N$  2,5), kann für dieses Beispiel ein 11 kW Antrieb nach IE2 (DHE16LA4), verwendet werden. Ansonsten wäre der 15 kW IE1 (DSE16LA) Motor zu wählen.

Ausgewählter  
Motor 11,0 kW  
IE2: DHE16LA4





### Leerschalthäufigkeit $Z_0$

Übersteigt die Schalthäufigkeit ein normales Maß (Richtwert etwa 60 Einschaltungen/h), so ist die thermische und, je nach Art der Kraftübertragung, auch die mechanische Zusatzbeanspruchung bei der Projektierung des Antriebes zu berücksichtigen.

Die Leerschalthäufigkeit  $Z_0$  ist die Anzahl der Anlaufschaltungen pro Stunde des leerlaufenden Motors ohne fremde Trägheitsmomente, bei der die zulässige Wicklungstemperatur für die Isolierstoffklasse F erreicht wird.

Leerschalthäufigkeit  $Z_0$ :

$P_N$ [kW]	Typ	$Z_0$ [c/h]
0,37	DHE08MA4	27000
0,55	DHE08LA4	19000
0,75	DHE08XA4	15000
1,1	DHE09LA4	11000
1,5	DHE09XA4	8700
2,2	DHE09XA4C	6400
3	DHE11MA4	5000
4	DHE11LA4	4000
5,5	DHE11LA4C	3100
7,5	DHE13LA4	2400
9,5	DHE16MA4	2000
11	DHE16LA4	1800
15	DHE16XA4	1400
18,5	DHE18LA4	1200
22	DHE18XA4	1000
30	DHENF20LG4	790
37	DHENF22SG4	670
45	DHENF22MG4	570
55	DHENF25MG4	490
75	DHENF28MG4	380

Die Leerschalthäufigkeit wird durch äußere Belastungen auf die zulässige Betriebsschalthäufigkeit vermindert. Der Einfluss der Belastung wird durch den Trägheitsfaktor  $FI$  und den Belastungsfaktor  $K_L$  erfasst.

### Belastungsfaktor $K_L$

Der Belastungsfaktor berücksichtigt die relative Auslastung  $P/P_N$  und die relative Einschalt-dauer  $ED$  des Motors im Betrieb zwischen den Schaltvorgängen.

Die relative Auslastung hat einen quadratischen Einfluss auf die zulässige Schalthäufigkeit. Die Auswirkung der relativen Einschalt-dauer ist unterschiedlich: Bei Leerlauf oder geringer Auslastung wirkt die  $ED$  wegen der längeren Kühlperioden entlastend, bei Nennlast oder starker Auslastung wirkt sie wegen der Lastverluste belastend.

Der Belastungsfaktor  $K_L$  für 4 polige Motoren wird wie folgt ermittelt:

$$K_{L100} = 1 - \left( \frac{P}{P_n} \right)^{1,5}$$

$$K_L = 0,35 + (K_{L100} - 0,25) \times ED$$

# Getriebemotoren Auswahl

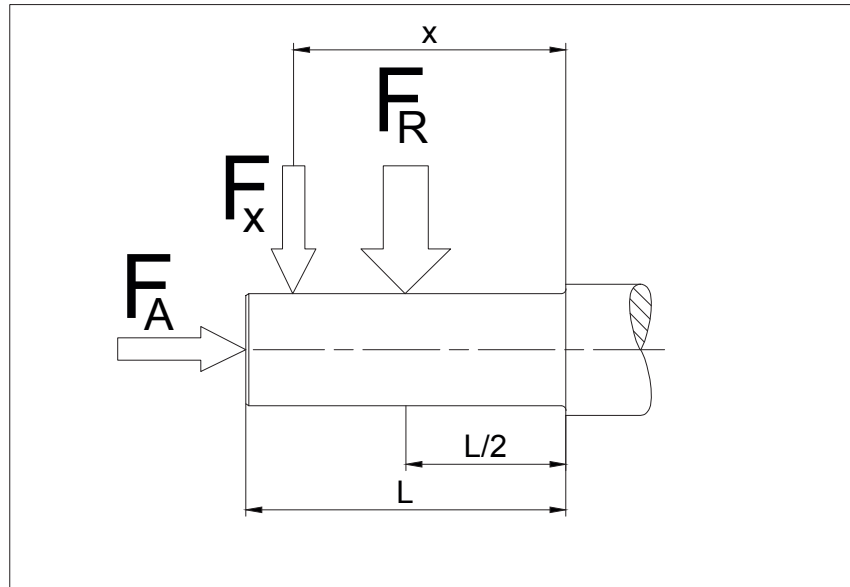
## Radial – und Axialkräfte an der Arbeitswelle

### Radial – und Axialkräfte an der Arbeitswelle

Für jeden Getriebemotor mit Vollwelle sind die zulässigen Werte für die Radialkräfte  $F_{R(N,V)}$  bezogen auf die Mitte der Arbeitswelle,  $x = l/2$ , in den Auswahl tabellen aufgeführt. Die angegebenen Daten gelten sowohl für die Fuß – als auch Flansch ausführung. Liegt der Kraftangriffspunkt  $F_x$  außerhalb der Mitte muss die zulässige Radialkraft unter Berücksichtigung der Lagerlebensdauer und der Wellenfestigkeit neu berechnet werden.

### Maximal zulässige Radialkraft am Kraftangriffspunkt X

4



- $F_{R(N,V)}$  zulässige Radialkraft ( $x = l/2$ ) gemäß den Auswahl tabellen ( N )  
 $X$  Abstand vom Wellenbund bis zum Kraftangriff ( mm )  
 $F_A$  Axialkraft ( N )

Für die Bewertung der auftretenden Radialkraft am Kraftangriffspunkt  $X$  sind für die Belastungsgrenzen der Lager und für die Wellenfestigkeit, die zulässigen Radialkräfte an der Position  $X$ , zu ermitteln.

Sind die ermittelten zulässigen Radialkräfte am Kraftangriffspunkt  $X$  größer als die auftretende Radialkraft, so kann das Getriebe für die Applikation gewählt werden. Reichen die ermittelten Werte nicht aus bzw. ist der Kraftangriffspunkt  $X$  außerhalb der Zapfenwellenlänge  $l$ , bitten wir um Rücksprache.

### Belastungsgrenze Lager

$$F_{xL1} = F_q \times \frac{0,5 + b}{\left[ \frac{X}{l} + b \right]}$$

$$F_{xL2} = F_q \times \frac{0,5 + a}{\left[ \frac{X}{l} + a \right]}$$

# Getriebemotoren Auswahl

## Radial – und Axialkräfte an der Arbeitswelle

### Wellenfestigkeit

$$F_{xw1} = F_{qmax} \times \frac{0,5}{\left(\frac{X}{l}\right)}$$

$$F_{xw2} = F_{qmax} \times \frac{0,5 + c}{\left(\frac{X}{l} + c\right)}$$

Dabei sind:

$F_q$  ist die für die jeweilige gewählte Untersetzung und Lagerungsart (normal-/verstärkte-Lagerung) zulässige Querkraft  $F_{RN}$ , bzw.  $F_{RV}$  aus den Getriebemotor - Auswahltabellen.

$F_{qmax}$  ist die maximal für die jeweilige gewählte Getriebegröße in den Getriebemotor – Auswahltabellen zugeordnete Querkraft, unabhängig von der Lagerungsart (normal-/verstärkte- Lagerung).

Die Faktoren a, b und c sind für die jeweiligen Getriebetypen in den folgenden Tabellen zu ersehen.

### Stirnradgetriebe Reihe BG

Baugröße	Lagerung	Zapfenwelle Code	l	a	b	c
BG04	normal	-1	24	0,5625	1,5	-
BG05	normal	-1	28	0,5893	1,3929	-
BG06	normal	-1	30	0,6667	1,4167	-
BG10	normal	-1	40	0,7125	1,6750	-
		-7		1,1000	2,0625	-
BG20	normal	-1	50	0,6100	2,2500	-
		-7		0,9400	2,5800	-
BG30	normal	-1	60	0,5917	2,1750	-
		-7		0,9417	2,5250	-
BG40	normal	-1	60	0,6917	2,3667	-
		-7		1,0083	2,6833	-
BG50	normal	-1	80	0,5625	2,0000	-
		-7		0,8563	2,2938	-
BG60	normal	-1	100	0,5300	2,0200	-
		-7		0,7650	2,2550	-
BG70	normal	-1	120	0,4750	1,7292	-
		-7		0,7292	1,9833	-
BG80	normal	-1	140	0,4286	1,7000	-
		-7		0,6000	1,8714	-
BG90	normal	-1	200	0,3675	1,5300	-
		-7		0,5825	1,7450	-
BG100	normal	-1	220	0,3477	1,4341	-
		-7		0,5386	1,625	-

# Getriebemotoren Auswahl

## Radial – und Axialkräfte an der Arbeitswelle

### Flachgetriebe Reihe BF

4

Baugröße	Lagerung	Zapfenwelle Code	l	a	b	c
BF06	normal	-.1	50	0,4500	1,4100	-
BF10	normal	-.1	60	0,5083	1,4833	-
		-.2		0,6500	1,6250	-
BF20	normal	-.1	70	0,4286	1,3571	-
		-.2		0,5571	1,4857	-
BF30	normal	-.1	80	0,3875	1,2563	-
		-.2		0,5688	1,4375	-
BF40	normal	-.1	100	0,4050	1,2250	-
		-.2		0,5250	1,3450	-
BF50	normal	-.1	120	0,3125	1,0625	-
		-.2		0,3959	1,1458	-
BF60	normal	-.1	140	0,3286	1,0821	-
		-.2		0,4036	1,1571	-
	verstärkt	-.1		-	-	0,2750
		-.2		-	-	0,3643
BF70	normal	-.1	180	0,2722	1,0566	-
		-.2		0,3056	1,0889	-
	verstärkt	-.1		-	-	0,2194
		-.2		-	-	0,2639
BF80	normal	-.1	220	0,2878	1,3536	-
		-.2		0,2873	1,3518	-
	verstärkt	-.1	-	-	0,2364	
		-.2	-	-	0,2268	

### Kegelradgetriebe Reihe BK

Baugröße	Lagerung	Zapfenwelle Code	l	a	b	c
BK06	normal	-1	40	0,4375	1,9875	-
		-2		0,4375	1,9875	-
		-7		0,9125	2,4625	-
		-8		0,9125	2,4625	-
BK10	normal	-1	60	0,5917	2,2417	-
		-2		0,5917	2,2417	-
BK20	normal	-1	70	0,5071	2,2357	-
		-2		0,5071	2,2357	-
	verstärkt	-1		-	-	0,3929
		-2		-	-	0,3929
BK30	normal	-1	80	0,5250	2,2750	-
		-2		0,5250	2,2750	-
	verstärkt	-1		-	-	0,4125
		-2		-	-	0,4125
BK40	normal	-1	100	0,4300	2,1700	-
		-2		0,4300	2,1700	-
	verstärkt	-1		-	-	0,3400
		-2		-	-	0,3400
BK50	normal	-1	120	0,4083	1,9417	-
		-2		0,4083	1,417	-
	verstärkt	-1		-	-	0,3250
		-2		-	-	0,3250
BK60	normal	-1	140	0,3536	1,8036	-
		-2		0,3536	1,0836	-
	verstärkt	-1		-	-	0,3121
		-2		-	-	0,2979
BK70	normal	-1	180	0,2861	1,6694	-
		-2		0,2861	1,6694	-
	verstärkt	-1		-	-	0,2428
		-2		-	-	0,2317
BK80	normal	-1	220	0,2818	1,5545	-
		-2		0,2818	1,5545	-
	verstärkt	-1		-	-	0,2305
		-2		-	-	0,2214
BK90	normal	-1		0,2519	1,6096	-
		-2		0,2519	1,6096	-
	verstärkt	-1		-	-	0,1989
		-2		-	-	0,1912

# Getriebemotoren Auswahl

## Radial – und Axialkräfte an der Arbeitswelle

### Stirnradschneckengetriebe Reihe BS

4

Baugröße	Lagerung	Zapfenwelle Code	l	a	b	c
BS02	normal	-1	30	0,6	2,1	-
		-2		-	-	-
		-7		1,3333	2,8333	-
		-8		-	-	-
BS03	normal	-1	40	0,4375	1,9875	-
		-2		-	-	-
		-7		0,9125	2,4625	-
		-8		-	-	-
BS04	normal	-1	40	0,5375	1,7875	-
		-2		-	-	-
BS06	normal	-1	50	0,4800	1,9400	-
		-2		-	-	-
BS10	normal	-1	60	0,5917	2,3083	-
		-2		-	-	-
BS20	normal	-1	70	0,5500	2,4357	-
		-2		-	-	-
BS30	normal	-1	80	0,5312	2,4313	-
		-2		-	-	-
BS40	normal	-1	120	0,4292	1,7042	-
		-2		-	-	-

### Übertragungselemente

Bei Verwendung von Übertragungselementen (Zahnräder, Kettenräder, Keilriemen, usw.) können die entstehenden Radialkräfte wie folgt ermittelt werden.

$$F_R = \frac{2000 \times M}{D_T} \times f_z \leq F_{R(N,V)}$$

- $F_R$  Radialkraft [N]
- $M$  Drehmoment [Nm]
- $D_T$  Teilkreis des Übertragungselementes [mm]
- $f_z$  Zuschlagsfaktor

Bei der Ermittlung der auftretenden Radialkraft  $F_R$  muss je nach Art des Übertragungselements, welches auf der Abtriebswelle angebaut ist, ein Zuschlagsfaktor  $f_z$  berücksichtigt werden.

### Faktor $f_z$ für Art des Übertragungselements

Übertragungselement	Zuschlagsfaktor $f_z$	Bemerkungen
Zahnräder	1	= > 17 Zähne
Zahnräder	1,15	< 17 Zähne
Kettenräder	1	= > 17 Zähne
Kettenräder	1,25	< 17 Zähne
Zahnstange	1,15	< 17 Zähne (Ritzel)
Keilriemen	2.....2,5	durch Vorspannkraft
Flachriemen	2...3	durch Vorspannkraft
Reibrad	3...4	

### Axialkraft

Für die zulässigen Axialkräfte  $F_A$  an der Arbeitswelle (Zug oder Druck) gelten für Bauer – Getriebemotoren sowohl für Fuß-, Flansch- bzw. Hohlwellenausführung folgende Angaben:

$$F_A = 0,5 \times F_{R(N,V)}$$

Bei größeren Axialkräften bitten wir um Rücksprache.

# Getriebemotoren Auswahl

## Projektierung nach Wirkungsgrad

### Projektierung des Antriebes nach Wirkungsgrad

Mit der Einführung der IEC 60034-30 Norm und der EU-Richtlinie ErP 2009/125/EG wird die Ausnutzung der Energieeinsparungspotentiale in der Industrie stärker, nun auch rechtsverbindlich, forciert.

Auf dem Gebiet der industriellen Anwendung haben Elektromotoren den weitaus größten Bedarf an elektrischer Energie, ca. 70%. Sie werden in allen Bereichen und vielen Anwendungen eingesetzt, z. B. in Ventilatoren, Pumpen, Mühlen, Walzwerken, Hebezeugen, Transportmitteln, Fördergeräten, Haushaltgeräten, Büromaschinen.

Wegen diesem breiten Anwendungsgebiet sind elektrische Antriebssysteme eines der Hauptziele für die Energiesparpolitik. Da elektrische Maschinen einen großen Bedarf an elektrischer Energie haben, ist schon durch geringe Verbesserungen des Wirkungsgrades ein großer Spareffekt zu erzielen.

Bei vielen Anwendungsfällen – vor allem in der Fördertechnik – muss die Drehzahl eines Drehstrom-Käfigläufermotors vermindert werden. Dies kann mit externen Zugmittel-Getrieben oder externen/integrierten Untersetzungs-Getrieben erfolgen. Beim Thema Energie-Einsparung dürfen die Wirkungsgrade dieser Getriebe und Übertragungsmittel nicht vernachlässigt werden.

Der Systemwirkungsgrad einer Anlage errechnet sich wie folgt:

$$\eta_{\text{System}} = \eta_{\text{Motor}} \times \eta_{\text{Getriebe}} \times \eta_{\text{Anlage}}$$

### Einsparungspotentiale

Motor:  $\eta_{\text{Motor}}$

Die rechtsverbindliche EU-Richtlinie ErP 2009/125/EG legt für Neumotoren, gemäß der Motorenverordnung 640/2009/EG aufgeführten Motortypen, den Mindestwirkungsgrad IE2 (High Efficiency) für Dauerbetrieb S1 ab dem 16. Juni 2011 fest.

Die Auswahl der richtigen Motorbaugröße und des Motortyps ist auf Grund der neuen Motorenzuordnungen für die IE2 Reihe nach ökologischen und ökonomischen Gesichtspunkten sinnvoll zu treffen.

### Ökologische Betrachtung

Bei der energetischen Ausnutzung der Motoren ist dem Auslastungsgrad eine besonders große Bedeutung zu bemessen.

Eine Verbesserung der Energiebilanz kann nicht immer, wie oftmals fälschlicherweise angenommen wird, damit erzielt werden, einen halb ausgenutzten Motor mit einem kleineren, voll ausgenutzten Modell zu ersetzen. Teilweise ausgelastete Motoren produzieren weniger Abwärme und erreichen dadurch einen höheren Wirkungsgrad.

Die folgende Tabelle stellt die technischen Daten eines 2,2 kW Motor, in Kupferläuferausführung und in Aluminium-Käfigläuferausführung, mit einem 1,1 kW Motor (Aluminium-Käfigläufer) gegenüber.

$P_N$ [kW]	Typ	$n_N$ [1/min]	$M_N$ [Nm]	$I_N$ 400 V [A]	$\cos\phi$	$\eta$ (100% - Last) [%]	$\eta$ 75% - Last [%]	$\eta$ (50% - Last) [%]	$I_A/I_N$	$M_A/M_N$	$M_S/M_N$	$M_K/M_N$	$J_{\text{rot}}$ [kgm <sup>2</sup> ]
1,1	DHE09LA4	1440	7,3	2,5	0,75	82,7	82,3	79,8	5,9	2,9	2,7	3,4	0,0032
2,2	DHE09XA4C	1440	14,5	4,75	0,79	84,5	85,0	83,5	5,2	1,8	1,7	2,7	0,0053
2,2	DHE11SA4	1440	14,5	4,6	0,80	86,2	86,0	84,7	7,0	3,1	2,8	3,6	0,0081

Selbst bei einem Auslastungsgrad von 50% haben beide 2,2 kW Motoren einen höheren Wirkungsgrad als der voll ausgenutzte (100%-Last) 1,1 kW Motor.

Aufgrund der hohen thermischen Reserven der IE2 Motoren kann auf zusätzliche Sicherheitszuschläge bei der Projektierung verzichtet werden.

Bei sehr hohen Schalthäufigkeiten sollte jedoch das höhere Anzugsmoment von IE2 Motoren und die damit verbundenen höheren Getriebestoßbelastungen beachtet werden. Weitere Hinweise siehe Sonderdruck EP34..



### Rechnerische Ermittlung des Wirkungsgrades bei Teillast

In den Motordatenblättern werden die Wirkungsgrade der Motoren gemäß der Anforderung der Motorenverordnung 640/2009/EG für unterschiedliche Auslastungsgrade bei 50%, 75% und 100% angegeben.

Mit den Wirkungsgradwerten bei 100% und 75% Last kann wie folgt jeder Teillastpunkt näherungsweise rechnerisch ermittelt und entsprechend die Energiebilanz der Anwendung bewertet werden.

$$R_{VL} = \frac{\left[ \frac{100}{\eta_{100}} - 1 \right] - 0,75 \times \left[ \frac{100}{\eta_{75}} - 1 \right]}{0,4375}$$

$$R_{VO} = \left[ \frac{100}{\eta_{100}} - 1 \right] - R_{VL}$$

$$\eta_p = \frac{100}{\left[ 1 + \frac{R_{VO}}{p} \right] + R_{VL} \times p}$$

mit

$\eta_{100}$	Wirkungsgrad bei 100% Last
$\eta_{75}$	Wirkungsgrad bei 75% Last
$R_{VL}, R_{VO}$	Zwischenergebnisse
$p$	Teillast, Angabe zwischen 0...1..Überlast
$\eta_p$	Wirkungsgrad bei Teillastpunkt $p$

### Ökonomische Betrachtung

Wie oben beschrieben erlaubt die ökonomische Betrachtung keine allzu großen Sicherheitszuschläge. Die durch die ErP Richtlinie 2009/125/EG geforderte Energieeinsparung bei den Elektromotoren lässt sich sehr leicht umsetzen, jedoch nicht zu jedem Preis.

Bei der Umstellung, der in Betriebsart S1 ausgeführten und netzbetriebenen Motoren von IE1 auf IE2 Motorwirkungsgraden ab dem 16. Juni 2011, kommen auf die Anwender der Elektromotoren leistungsbezogene Mehrkosten bei der Anschaffung dieser Produkte.

Die Selektion der Antriebe sollte im wesentlichem nach der Amortisationszeit in Abhängigkeit des Betrachtungszeitraums erfolgen.

Der konstante Betrieb bei 50% Teillast von einem 2,2 kW Motor (siehe oben) macht aus wirtschaftlichen Gesichtspunkten keinen Sinn. In diesem Fall ist ein Mehrpreis zum einen für den Baugrößen- bzw. Paketlängensprung und zum anderen für den Materialaufwand bei den IE2 Motoren zu entrichten. Die Amortisationszeit des eingesetzten Motors würde sich somit über die Lebensdauer der Anlage hinweg verlängern.

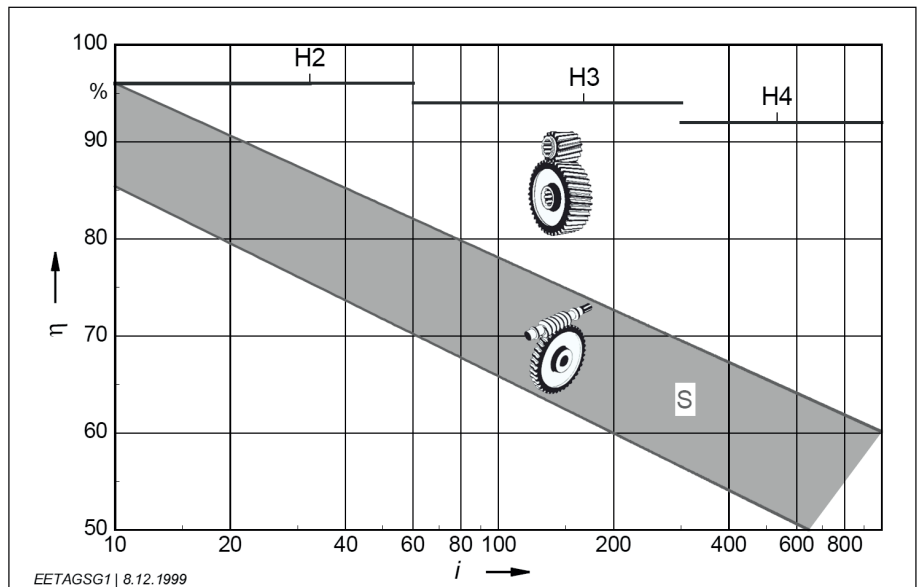
Die wirtschaftlich effektivste Auswahl des Motors muss demzufolge nach den folgenden Gesichtspunkten getroffen werden.

- Betriebsart  
Bewertung der Anwendung, denn die meisten Anwendungen laufen nicht in Betriebsart S1
- Betriebsdauer  
Je länger die Betriebsdauer umso kürzer die Amortisationszeit.
- Auslastung des Motors  
Ausnutzung des Motors ab 75% Teillast.
- Finanzieller Mehraufwand  
Sicherheitszuschläge erhöhen den wirtschaftlichen Mehraufwand.
- Amortisationszeit

### Getriebewirkungsgrad $\eta_{\text{Getriebe}}$

Bei einem Vergleich des generellen Einsparpotentials im Dauerbetrieb S1 von Getrieben und Motoren wird ersichtlich, dass das Einsparpotential bei Getrieben wesentlich höher ist als bei den Motoren. Der Wirkungsgrad von Getrieben hängt überwiegend von der Verzahnungsgeometrie und den Reibwerten der Lager und Dichtungen ab. Bei hohen Eintriebsdrehzahlen und vertikalen Bauformen, bei denen die erste Getriebestufe vollkommen in Öl rotiert, können die Planschverluste nicht vernachlässigt werden. Generell sollten die vertikalen Bauformen vermieden werden.

Bei Schneckengetrieben ist der Wirkungsgrad sehr Drehzahlabhängig (siehe Schaubild). Bauer Schneckengetriebe werden ab der Baugröße BS04 als Stirnrad-schneckengetriebe angeboten. Dadurch können sehr hohe Übersetzungen und wesentlich bessere Wirkungsgrade als bei reinen Schneckengetrieben erzielt werden. Bei Getrieben mit Stirnradgetriebestufen kann ein Verlust von 2% pro Stufe angenommen werden.



Richtwerte für den Wirkungsgrad ( $\eta$ ) von schrägverzahnten Stirnrad-Getrieben (H) mit 2, 3 oder 4 Stufen im Vergleich zu Schnecken-Getrieben (S) abhängig von der Übersetzung ( $i$ ), bezogen auf Bemessungsleistung des Getriebes.

# Getriebemotoren Auswahl

## Projektierung nach Wirkungsgrad

### Anlagenwirkungsgrad $\eta_{\text{Anlage}}$

Bei der Betrachtung des Gesamtwirkungsgrades ist das Einsparpotential beim Antriebssystem am höchsten. Konstrukteure und Anlagenbauer sollten immer die Optimierung von Übertragungselementen anstreben.

Übertragungselement	Bedingungen	Wirkungsgrad
Drahtseil	je vollständige Umschlingung der Seilrolle (gleit- oder wälzgelagert)	0,91-0,95
Keilriemen	je vollständige Umschlingung der Keilriemenscheibe (normale Riemenspannung)	0,88-0,93
Kunststoffbänder	je vollständige Umschlingung/Rollen wälzgelagert (normale Bandspannung)	0,81-0,85
Gummibänder	je vollständige Umschlingung/Rollen wälzgelagert (normale Bandspannung)	0,81-0,85
Zahnriemen	je vollständige Umschlingung/Rollen wälzgelagert (normale Bandspannung)	0,90-0,96
Ketten	je vollständige Umschlingung/Räder wälzgelagert (abhängig von Kettengröße)	0,90-0,96
Spindeln	Trapezgewindespindel	0,30 – 0,70
	Kugelumlaufspindel	0,70 – 0,95
Getriebe	bei Stirnrad- und Kegelverzahnung 2% je Stufe, bei Schnecken und anderen Verzahnungsarten nach Angabe der Hersteller	0,94-0,98

# Getriebemotoren Auswahl

## Stoßgrade von Arbeitsmaschinen

Sowohl in Normen und Richtlinien wie auch in branchen- oder herstellerspezifischen Unterlagen werden üblichen Arbeitsmaschinen Stoßgrade zugewiesen. Wenn hier z. B. einem Brecher oder einer Presse der Stoßgrad III zugeordnet wird, so ist dies berechtigt. Andererseits kann ein Gurtbandförderer unter günstigen Voraussetzungen den Stoßgrad I haben, der sich aber bei Schaltbetrieb, hoher Geschwindigkeit und Übertragung durch eine lose Kette rasch zum Stoßgrad III verändern kann.

Die Einteilung der nachfolgenden Tabelle sollte daher keinesfalls unbesehen übernommen werden. Sie gibt eine grobe Orientierung; für die endgültige Zuordnung des Stoßgrades sollten die von Bauer festgelegten Kriterien – vor allem Trägheitsfaktor, Schalthäufigkeit und Übertragungsmittel – berücksichtigt werden

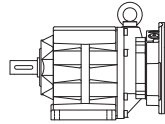
Antrieb	Stoßgrad		
<b>Baumaschinen</b>			
Bauaufzüge		II	
Betonmischmaschinen		II	
Straßenbeumaschinen		II	
<b>Chemische Industrie</b>			
Kühltrommeln		II	
Mischer		II	
Rührwerke (leichte Medien)	I		
Rührwerke (zähe Medien)		II	
Trockentrommeln		II	
Zentrifugen (leicht)	I		
Zentrifugen (schwer)		II	
<b>Förderanlagen</b>			
Förderhaseln		II	
Fördermaschinen			III
Gleiderbandförderer		II	
Gurtbandförderer (Schüttgut)	I		
Gurtbandförderer (Stückgut)		II	
Gurtaschenbecherwerke		II	
Kettenbahnen		II	
Kreisförderer		II	
Lastaufzüge		II	
Mehlbecherwerke	I		
Personenaufzüge		II	
Plattenbänder		II	
Schneckenförderer		II	
Schotterbecherwerke		II	
Schrägaufzüge			III
Stahlbandförderer		II	
Tragkettenförderer		II	
<b>Gebläse, Lüfter</b>			
Drehkolbengebläse		II	
Gebläse (axial und radial)	I		
Kühlturmlüfter		II	
Saugzuggebläse		II	

Antrieb	Stoßgrad		
<b>Gummi</b>			
Extruder			III
Kalander		II	
Knetwerke			III
Mischer		II	
Walzwerke			III
<b>Holzbearbeitung</b>			
Entrindungstrommeln			III
Hobelmaschinen		II	
Holzbearbeitungsmaschinen	I		
Sägeblätter			III
<b>Krananlagen</b>			
Einziehwerke	I		
Fahrwerke			III
Hubwerke	I		
Schwenkwerke		II	
Wippwerke		II	
<b>Kunststoff</b>			
Extruder		II	
Kalander		II	
Mischer		II	
Zerkleinerungsmaschinen		II	
<b>Metallbearbeitung</b>			
Blechbiegemaschinen		II	
Blechrichtmaschinen			III
Hämmer			III
Hobelmaschinen			III
Pressen			III
Scheren		II	
Schmiedepressen			III
Stanzen			III
Vorgele, Wellenstränge	I		
Werkzeugmaschinen (Haupt)		II	
Werkzeugmaschinen (Hilfs)	I		

Antrieb	Stoßgrad		
<b>Nahrungsmittel</b>			
Abfüllmaschinen	I		
Knetmaschinen		II	
Maischen		II	
Verpackungsmaschinen	I		
Zuckerrohrschneider		II	
Zuckerrohrmühlen			III
Zuckerrübenschneider		II	
Zuckerrübenwäsche		II	
<b>Papier</b>			
Gautschen			III
Glättzylinder			III
Holländer		II	
Holzschleifer			III
Kalandar		II	
Nasspressen			III
Reißwölfe			III
Saugpressen			III
Saugwalzen			III
Trockenzylinder			III
<b>Steine, Erden</b>			
Brecher			III
Drehöfen			III
Hammermühlen			III
Rohrmühlen			III
Schlagmühlen			III
Ziegelpressen			III
<b>Textil</b>			
Aufwickler		II	
Druckerei- und Färberei		II	
Gerbfässer		II	
Reißwölfe		II	
Webstühle		II	

Antrieb	Stoßgrad		
<b>Walzwerke</b>			
Blechscheren			III
Blechwender		II	
Blockdrücker			III
Block- u. Brammenstraßen			III
Blocktransportanlagen			III
Drahtzüge		II	
Entzunderbrecher			III
Feinblechstraßen			III
Grobblechstraßen			III
Haspeln (Band und Draht)		II	
Kaltwalzwerke			III
Kettenschlepper		II	
Knüppelscheren			III
Kühlbetten		II	
Querschlepper		II	
Rollgänge (leicht)		II	
Rollgänge (schwer)			III
Rollenrichtmaschinen		II	
Rohrschweißmaschinen			III
Saumscheren		II	
Schopfscheren			III
Stranggussanlagen			III
Walzenstellvorrichtung		II	
Verschiebevorrichtungen			III
<b>Wäscherei</b>			
Trommeltrockner		II	
Waschmaschinen		II	
<b>Wasseraufbereitung</b>			
Kreiselbelüfter		II	
Wasserschnecken		II	





## Getriebe und Schmierstoffe

### Standard Einbaulagen

- BG und BF
- BK und BS

### Anordnung des Klemmenkastens und der Kabeleinführungen

- BG und BF
- BK und BS

### Radial- und Axialkräfte an der Arbeitswelle

### Abmessungen und Passungen von Arbeitswellen und Passfedernuten

### Montage von Übertragungselementen

### Getriebe mit Zapfenwelle

### Getriebe mit Hohlwelle

### Schrumpfscheibenverbindung

### Drehmomentabstützung

### Montagehilfen für Aufsteckgetriebe mit

### Hohlwelle mit Passfedernut

### Getriebeentlüftung

### Dichtung an der Arbeitswelle

## Schmierstoffe

### Schmierstoffmengen

- für BG-Getriebe
- für BG-20-01R
- für BF-Getriebe
- für BK-Getriebe
- für BS-Getriebe
- für Vorstufen (Z)
- für Zwischengetriebe

### Zusätzliche Schmierstoffmengen

- für Getriebeausführungen mit Kupplungsanbau - C
- für Getriebeausführungen mit Kupplungsanbau - K
- für Getriebeausführung mit eintreibender Welle - SN

### Lage der Verschlusschrauben

- für BG-Getriebereihe
- für BG-20-01R
- für BF-Getriebereihe
- für BK-Getriebereihe
- für BS-Getriebereihe
- für Vorstufen (Z)

### Lage der Schmiernippel für Getriebeausführung mit

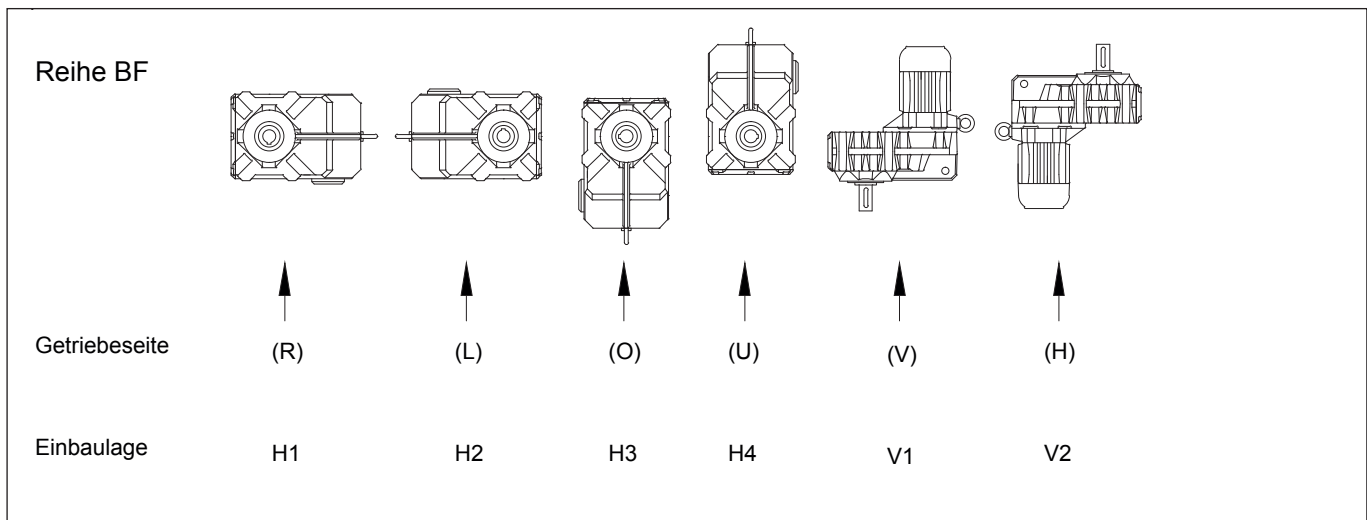
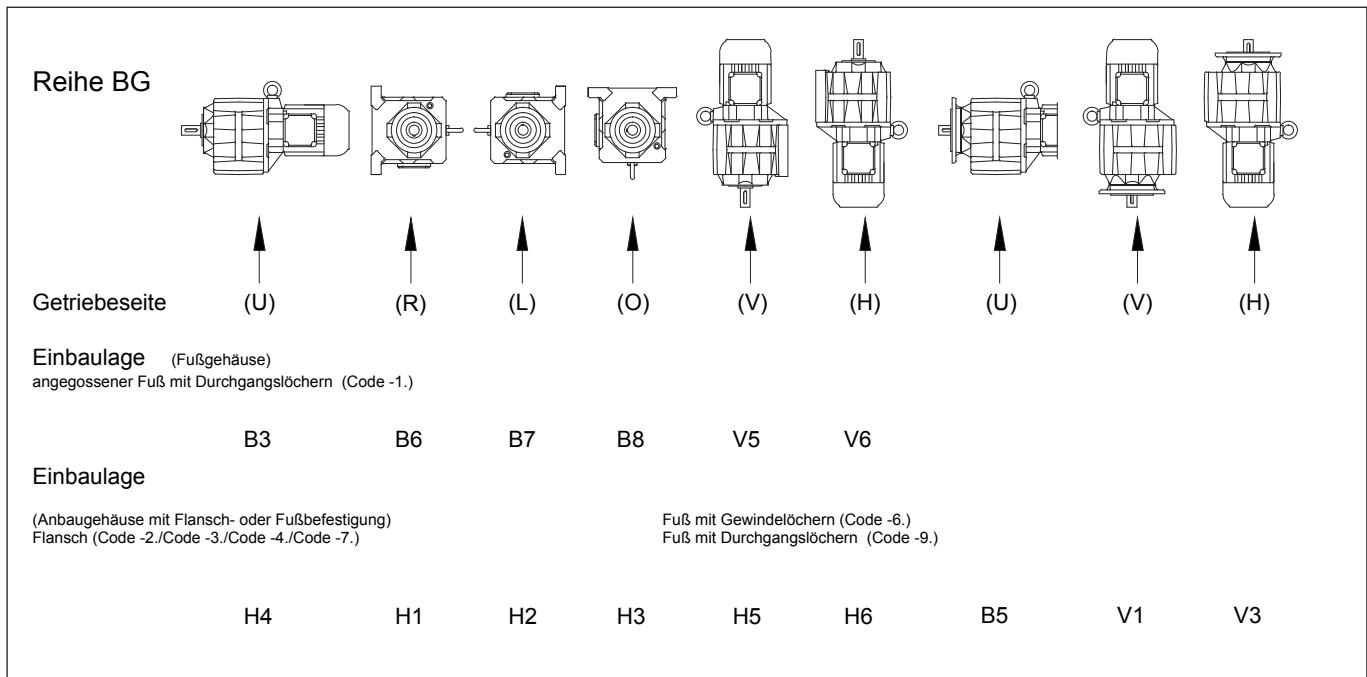
- Kupplungsanbau - C
- Kupplungsanbau - K
- eintreibender Welle - SN

### Lage der Verschlusschrauben auf dem Systemdeckel

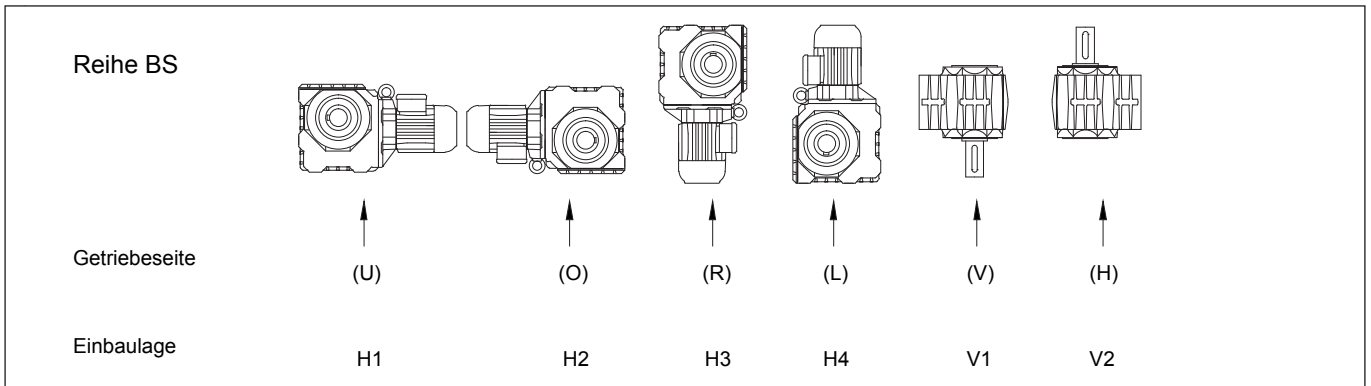
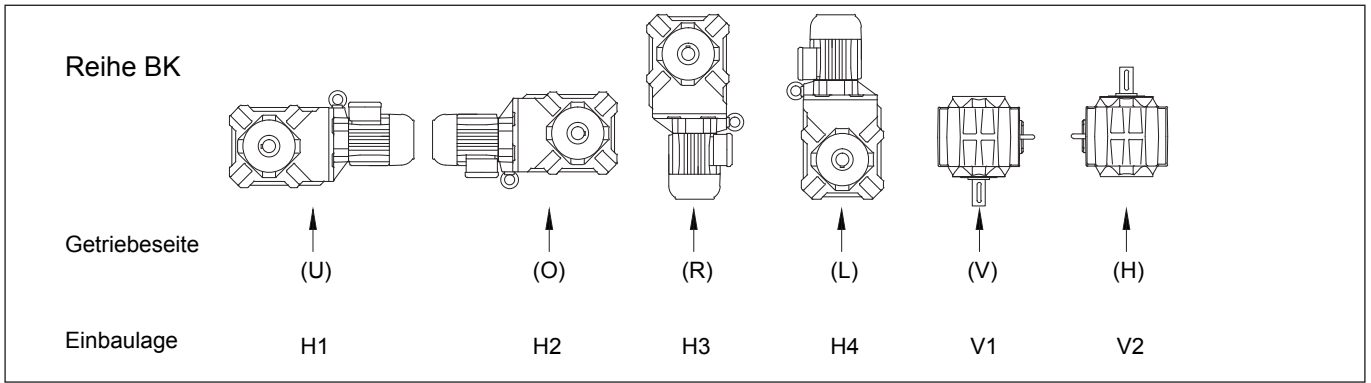
# Getriebe und Schmierstoffe

## Standard Einbaulagen

5





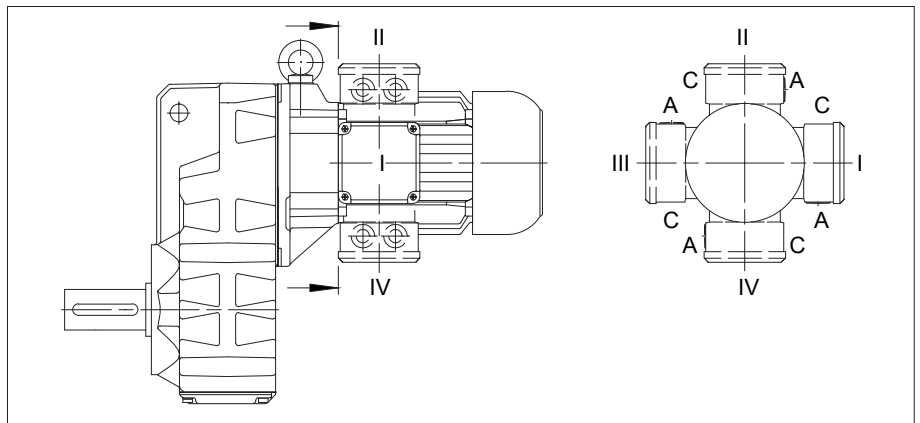
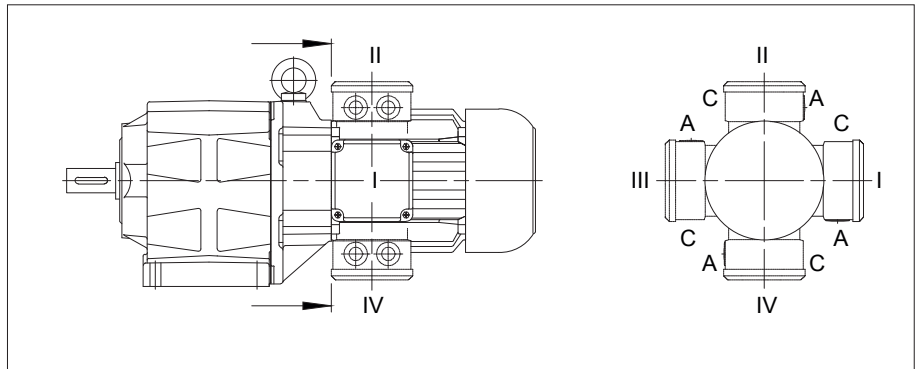


# Getriebe und Schmierstoffe

## Anordnung des Klemmenkastens

### Anordnung des Klemmenkastens und der Kabeleinführungen (BG und BF)

Die Standardlage des Klemmenkastens bei Stirnrad- und Flach-Getriebemotoren ist Lage I. Die Kabeleinführung ist von Seite A oder C möglich.



Ein Drehen und Wenden des Getriebemotors im Raum in die verschiedenen Aufstellungen nach DIN 42950 beeinflusst die Bezeichnungshinweise nicht. Die Angabe über die Klemmenkasten Anordnung bezeichnet also stets die Lage des Klemmenkastens und der Leitungszuführung in Bezug auf das Getriebe, nicht auf den Raum. Die Aufstellung nach DIN 42950 ist getrennt anzugeben.

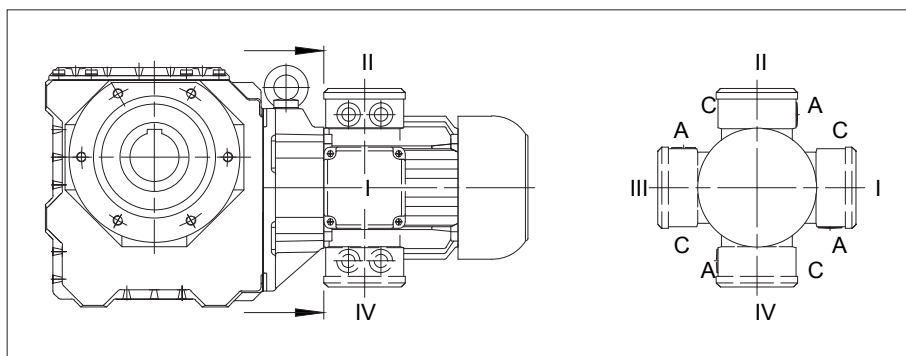
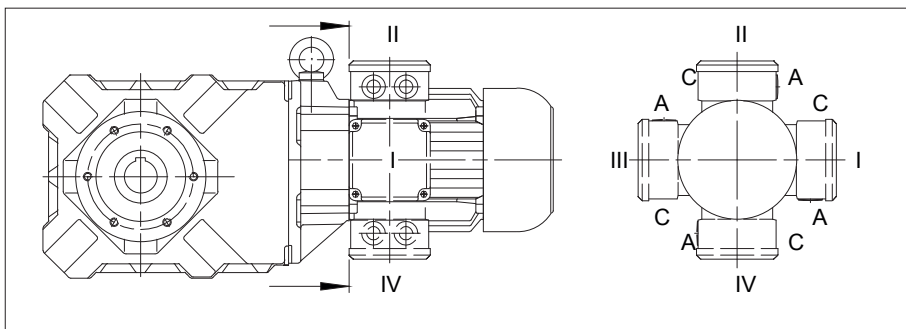
# Getriebe und Schmierstoffe

## Anordnung des Klemmenkastens

### Anordnung des Klemmenkastens und der Kabeleinführungen (BK und BS)

Die Standardlage des Klemmenkastens bei Kegelrad- und Schnecken-Getriebemotoren ist Lage II.

Die Kabeleinführung ist von Seite A oder C möglich.



Ein Drehen und Wenden des Getriebemotors im Raum in die verschiedenen Aufstellungen nach DIN 42950 beeinflusst die Bezeichnungshinweise nicht. Die Angabe über die Klemmenkasten Anordnung bezeichnet also stets die Lage des Klemmenkastens und der Leitungszuführung in Bezug auf das Getriebe, nicht auf den Raum. Die Aufstellung nach DIN 42950 ist getrennt anzugeben.

5

### Radial- und Axialkräfte an der Arbeitswelle

Die Arbeitswellen und die Arbeitswellenlager sind auf die jeweiligen Drehmomente abgestimmt. Es empfiehlt sich, den Kraftangriffspunkt des Übertragungselementes so nah wie möglich an den Wellenbund zu bringen, um die Belastung durch äußere Radialkräfte nicht unnötig groß werden zu lassen. Die zulässigen Werte für die Radialkräfte bezogen auf Mitte der Arbeitswelle sind in den Auswahltabellen aufgeführt. Bei besonderer Beanspruchung in axialer Richtung empfiehlt sich eine Rückfrage.

### Abmessungen und Passungen von Arbeitswellen und Passfedernuten

Arbeitswelle und zweites Motorwellenende sowie Nut und Passfeder werden nach folgenden DIN-Normen und ISO-Passungen ausgeführt:

#### Zapfenwelle

Wellendurchmesser	bis D = 50 mm in ISO k6 (DIN 748 Bl.1) über D = 50 mm in ISO m6 (DIN 748 Bl.1)
Passfedernut	ISO P9 (DIN 6885 Bl. 1)
Passfeder hohe Form	ISO h9 (DIN 6885 Bl. 1 und DIN 6880)
Bohrung bauseits	ISO H7

#### Hohlwelle mit Passfedernut

Bohrungsdurchmesser	ISO H7 (DIN 748)
Passfedernut	ISO JS9 (DIN 6885 Bl. 1)
Passfeder hohe Form	ISO h9 (DIN 6885 Bl. 1 und DIN 6880)
Kundenwelle	ISO h6

#### Hohlwelle für Schrumpfscheibenverbindung (SSV)

Außendurchmesser	ISO f7
Innendurchmesser	ISO H7
Kundenwelle	ISO h6

### Montage von Übertragungselementen

#### Hinweis:

Bei Getrieben mit Drehmomentabstützung mittels Flansch (Code 2.; 3; 4.; 7.; 8.) oder Drehmomentstütze (Code 5.) ist die Seite der Drehmomentabstützung auf der Seite der Querkrafteinleitung über die Arbeitswelle vorzusehen (siehe Gummipuffer für Drehmomentstütze)! Abweichende Ausführungen sind im Werk zu hinterfragen.

### Getriebe mit Zapfenwelle

Das Aufziehen von Übertragungselementen auf die Arbeitswelle muss mit Sorgfalt und möglichst unter Verwendung des hierfür nach DIN 332 vorgesehenen Stirngewindelochs erfolgen. Ein Anwärmen des aufzuziehenden Maschinenteils auf etwa 100° C hat sich als vorteilhaft erwiesen. Die Bohrung ist nach ISO H7 zu bemessen.

### Getriebe mit Hohlwelle

Hohlwellen werden üblicherweise auf bauseitige Zapfenwellen aufgesteckt. Das Getriebe ist zwangfrei abzustützen und axial zu fixieren (z.B. durch Montagehilfe 2 gemäß nachfolgender Beschreibung "Montagehilfen für Aufsteckgetriebe mit Hohlwelle mit Passfedernut"). Falls die Hohlwelle die Führung einer eingesteckten Zapfenwelle übernehmen soll oder falls aus anderen Gründen eine eingengte Rundlauf toleranz zu einem Bezugspunkt des Getriebegehäuses (z.B. einem Flansch) verlangt wird, ist dies besonders zu vereinbaren.

### Schrumpfscheibenverbindung

Mit Schrumpfscheibenverbindungen (SSV) können große Drehmomente von der ungenutzten Nabe auf die glatte Welle übertragen werden. Die SSV wird mit handelsüblichen Schrauben auf einfachste Weise verspannt oder gelöst. Sie stellt eine ideale Ergänzung der Aufsteckgetriebe dar. Das maximal übertragbare Drehmoment der gewählten Schrumpfscheiben liegt bei ordnungsgemäßer Passung und Montage über dem Anzugsmoment der jeweils listenmäßig zugeordneten Motoren (Zuordnung der Schrumpfscheiben-Größen siehe Kapitel 11, 12, 13 „Zusatzmaßbilder Ausführung Schrumpfscheibenverbindung“).

### Drehmomentabstützung

Bei Aufsteck-Getriebemotoren muss das Reaktionsmoment über eine geeignete Drehmoment-Abstützung aufgenommen werden. Die Flachgetriebe werden listenmäßig mit angegossener Drehmomentstütze geliefert. Kegelrad- und Schneckengetriebe sind auf Wunsch mit angeschraubter Drehmomentstütze lieferbar. Listenmäßig ist die Drehmomentstütze auf Getriebeseite vorne „V“ angeschraubt. Grundsätzlich ist darauf zu achten, dass die Drehmoment-Abstützung keine unzulässig hohen Zwangskräfte z.B. durch unrunder Lauf der angetriebenen Welle erzeugt. Zu großes Spiel beim Schalten oder Reversieren kann unzulässig hohe Stoßmomente erzeugen. Daher wird die Verwendung von vorgespannten, dämpfenden Gummielementen empfohlen. Diese Gummipuffer gehören bei der Ausführung mit Drehmomentstütze zum Standardlieferumfang (siehe Kapitel 11, 12, 13 Maßbilder „Gummipuffer für Drehmomentstütze“).

### Montagehilfen für Aufsteckgetriebe mit Hohlwelle mit Passfedernut

#### (1) Aufziehen der Hohlwelle auf die Kundenwelle

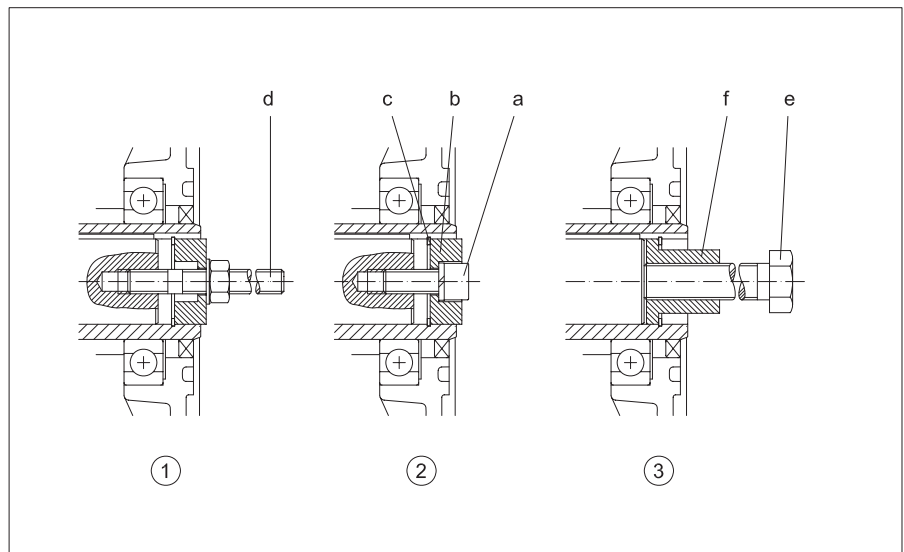
Ein Gewindebolzen (d) wird in das Stirngewinde der anzutreibenden Welle eingeschraubt. Über das Druckstück (b) und den Sicherungsring (c) wird das Aufsteckgetriebe mit Hilfe der Mutter auf die Welle aufgezogen.

#### (2) Axial fixieren

Das Druckstück (b) wird umgedreht und mit der Befestigungsschraube (a) gegen den Sicherungsring (c) gedrückt.

#### (3) Abziehen

Das Abdrückstück (f) wird zwischen Wellenstirn und Sicherungsring (c) angebracht. Die Abdrückschraube (e) drückt gegen die Wellenstirn und zieht das Aufsteckgetriebe ab. Eine Fertigungszeichnung für die benötigten Teile kann bei Bedarf angefordert werden. Die Teile gehören nicht zum Lieferumfang.



Detaillierte Angaben für Flachgetriebe, Kegelradgetriebe und Schneckengetriebe (siehe Kapitel 11, 12, 13 Maßbilder „Montagehilfe für Flachgetriebe mit Hohlwelle mit Passfedernut“).

### Getriebeentlüftung

Die Standzeit des Getriebeschmierstoffes ist umso größer, je besser er vor negativen Umgebungseinflüssen geschützt wird. Bei Ölmengen oder Getriebeuntersetzungen, die üblicherweise eine sehr hohe Schmierstofftemperatur erzeugen, werden die Getriebe standardmäßig mit Entlüftungsventil ausgeliefert. Auf Wunsch oder bei entsprechend hohen Umgebungstemperaturen können alle Getriebe ab Getriebegröße 10 mit Entlüftungsventil geliefert werden.

Lage der Verschlusschrauben siehe Kapitel 5 Verschlusschraube.

### Dichtung an der Arbeitswelle

Alle Getriebe ab Größe 10 sind auf Wunsch und gegen Mehrpreis mit doppelter Wellendichtung an der Arbeitswelle lieferbar. Bei Anordnung der Arbeitswelle nach unten oder zum Schutz vor äußeren Einflüssen hat sie sich bestens bewährt.










# Getriebe und Schmierstoffe

## Schmierstoffe

### Schmierstoffe

Die Antriebe werden betriebsfertig mit Getriebeschmierstoff geliefert. Damit sind die Getriebe geeignet für Umgebungstemperaturen von -20°C bis +40°C. Die Füllmenge ist auf die gewünschte Aufstellung (Einbaulage) optimiert und wird auf dem Motortypenschild genannt. Die Schmierstoffsorte ist in der Betriebsanleitung vermerkt. Schmierstoffe für andere Temperaturbereiche oder für Sondereinsatzfälle auf Anfrage.

Verschleißschützende EP-Getriebeöle gemäß der folgenden Tabelle haben sich besonders bewährt:

	Schmierstoff-Art				
	Mineralöl	Synthetisches Öl			USDA H1 Öl
	ISO VG 220	ISO VG 68	ISO VG 220	ISO VG 460	ISO VG 220
Entsorgungsnummer	<b>ASN13 02 05</b>	<b>ASN 13 02 06</b>	<b>ASN 13 02 06</b>	<b>ASN 13 02 06</b>	
Schmierstoff Hersteller	Standardöl für Getriebe der Typenreihen <b>BF06-BF90</b> <b>BG04-BG100</b> <b>BK06-BK90</b>	Tieftemperaturöl für Getriebe der Typenreihen <b>BF06-BF90</b> <b>BG04-BG100</b> <b>BK60-BK90</b>  <b>B502-B540</b>	Standardöl für Getriebe der Typenreihen <b>BS02-BS10</b> <b>BK06-BK10</b> Hochtemperaturöl für Getriebe der Typenreihen <b>BS02-BS10</b> <b>BK06-BK10</b> <b>BF06-BF90</b> <b>BG04-BG100</b> <b>BK60-BK90</b>	Standardöl für Getriebe der Typenreihen <b>BS20-BS40</b> <b>BK20-BK50</b> Hochtemperaturöl für Getriebe der Typenreihen	Lebensmittelindustrieöl für Getriebe der Typenreihe <b>BF06-BF90</b> <b>BG04-BG100</b> <b>BK06-BK90</b>  <b>B502-B540</b>
AGIP 	BLASIA 220				
ARAL 	DEGOL BMB220 DEGOL BG220		DEGOL GS220	DEGOL GS460	
BEICHEM RHUS 	STAROIL SMO220				
BP 	ENERGOL GR-XP220		ENERSYN SG-XP 220	ENERSYN SG-XP 460	
CASTROL 	ALPHA SP 220 ALPHA BMB 220 OPTIGEAR BM 220 TRIBOL 1100/220		ALPHASYN PG 220 TRIBOL 800/220 ALPHASYN GS 220	ALPHASYN PG 460 TRIBOL 800/460 ALPHASYN 460	CASTROL OPTILEB GT 220 CASTOL TRIBOL FOODFROOF 1800/220
ESSO	see MOBIL				
FUCHS 	RENOLIN CLP 220 RENOLIN CLPF 220 SUPER	RENOLIN PG 68	RENOLIN PG 220	RENOLIN PG 460	
KLÜBER 	KLÜBEROIL GEM 1-220 N	KLÜBERSYNTH GH6-80	KLÜBERSYNTH GH6-220	KLÜBERSYNTH GH6-460	KLÜBEROIL 4UH1-220N KLÜBERSYNTH UH1 6-220
MOBIL 	MOBILGEAR 600 XP 220 MOBILUBE HD PLUS 80W-90		GLYGOYLE 220 GLYGOYLE 30	GLYGOYLE 460	
OEST 	Gearol C-LP 220				
OPTIMOL	OPTIGEAR 220		OPTIFLEX A 220	OPTIFLEX A 460	OPTILEB GT 220
SHELL	OMALA S2 G220 FALCON CLP 220		OMALA S4 WE 220	OMALA S4 WE 460	CASSIDA FLUID GL 220
TEXACO	GEARTEX EP-A SAE 85W-90				
TOTAL	CARTER EP 220				NEVASTANE SL220
WINTERSHALL	SRS ERSOLAN 220				

**Achtung:**

Synthetische Getriebeöle auf Polyglykol-Basis (z.B. PGLP...) müssen getrennt von Mineralölen als **Sondermüll** entsorgt werden.

Sofern die Umgebungstemperatur etwa  $-20^{\circ}\text{C}$  nicht unterschreitet wird nach internationaler Festlegung der Viskositätsklassen bei  $40^{\circ}\text{C}$  gemäß ISO 3448 und DIN 51519 die ISO Viskositätsklasse VG220 (SAE90) empfohlen, in Nordamerika AGMA 5 EP.

Für tiefere Umgebungstemperaturen sollen Öle einer geringeren Nennviskosität mit entsprechend besserem Anlaufverhalten verwendet werden, zum Beispiel ein PGLP mit einer Nennviskosität VG68 (SAE80) bzw. AGMA 2 EP. Diese Sorten können auch schon im Temperaturbereich um den Gefrierpunkt notwendig werden, wenn das Losbrechmoment eines Antriebs mit Rücksicht auf sanften Anlauf vermindert wurde oder wenn der Motor eine verhältnismäßig geringe Leistung hat.

**Schmierstoffmengen**

Die für die vorgesehene Bauform günstigste Schmierstoffmenge ist auf dem Leistungsschild des Motors angegeben (Symbol „Ölkännchen“). Beim Einfüllen ist darauf zu achten, dass je nach Einbaulage auch die oben liegenden Zahnräder sicher geschmiert werden.

# Getriebe und Schmierstoffe


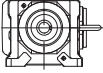
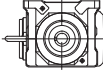

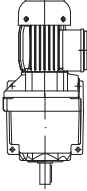
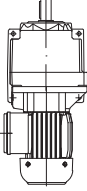
## Schmierstoffe

### Schmierstoffmengen für BG-Getriebe

Schmierstoffmenge in l										
Getriebetyp		H4	H1	H2	H3	H5	H6	B5	V1	V3
BG04-BG100 (Anbaugehäuse mit Flansch- o. Fußbefestigung)		Flansch (Code -2./Code -3./Code -4./Code -7.) Fuß mit Gewindelöchern (Code -6.)				Fuß mit Durchgangslöchern (Code -9.) [allseitig bearbeitet (Code -8.)]				
BG04-BG100 (Fußgehäuse)		angegossener Fuß mit Durchgangslöchern (Code -1.)								
		B3	B6	B7	B8	V5	V6			
BG04	*	-	0.03	0.03	0.03	-	-	0.03	0.05	0.05
	**	0.05	0.05	0.05	0.05	0.1	0.05	-	-	-
BG05	*	-	0.05	0.05	0.05	-	-	0.05	0.08	0.08
	**	0.08	0.08	0.08	0.08	0.16	0.08	-	-	-
BG06	*	-	0.08	0.08	0.08	-	-	0.08	0.15	0.15
	**	0.12	0.12	0.12	0.12	0.24	0.15	-	-	-
BG10	*	0.65	0.65	0.65	0.85	1.05	0.85	0.65	1.05	0.85
	**	0.45	0.45	0.45	0.6	0.75	0.6	-	-	-
BG15	**	0.4	0.4	0.4	0.35	0.62	0.55	-	-	-
	*	0.8	0.8	0.8	1.1	1.4	1.1	0.8	1.4	1.1
BG20	**	0.6	0.6	0.6	1.0	1.15	0.9	-	-	-
	*	1.0	1.0	1.0	1.7	2.2	1.6	1.0	2.2	1.6
BG30	**	1.0	1.0	1.0	1.7	2.3	1.7	-	-	-
	*	1.7	1.7	1.7	2.5	3.5	2.1	1.7	3.5	2.1
BG40	**	1.7	1.7	1.7	2.5	3.5	2.1	-	-	-
	*	3.0	3.0	3.0	4.5	5.5	3.3	3.0	5.5	3.3
BG50	**	3.0	3.0	3.0	4.5	5.5	3.3	-	-	-
	*	5.5	5.5	5.5	7.0	10.9	6.4	5.5	10.9	6.4
BG60	**	5.5	5.5	5.5	7.0	10.9	6.4	-	-	-
		6.5	6.5	6.5	8.0	13.5	9.0	6.5	13.5	9.0
BG70		11.0	11.0	11.0	11.0	22.5	15.0	11.0	22.5	15.0
BG80		19.0	19.0	19.0	19.0	40.0	26.0	19.0	40.0	26.0
BG90		35.0	35.0	55.0	50.0	66.0	50.0	35.0	66.0	50.0
BG100										
* Anbaugehäuse		** Fußgehäuse								

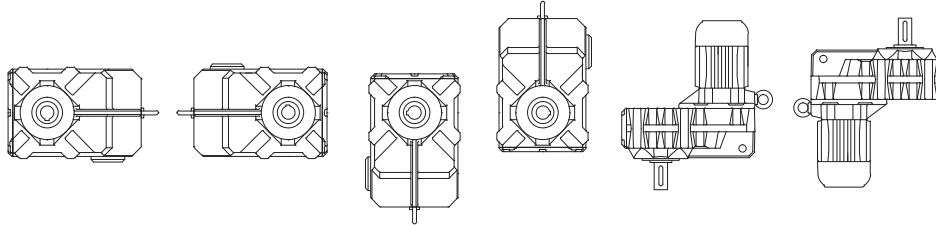


### Schmierstoffmengen für BG20-01R

Schmierstoffmenge in l						
Getriebetyp						
	H4	H1	H2	H3	V5	V6
BG20-01R	0.8	1.0	0.8	1.4	1.65	1.0

### Schmierstoffmengen für BF-Getriebe

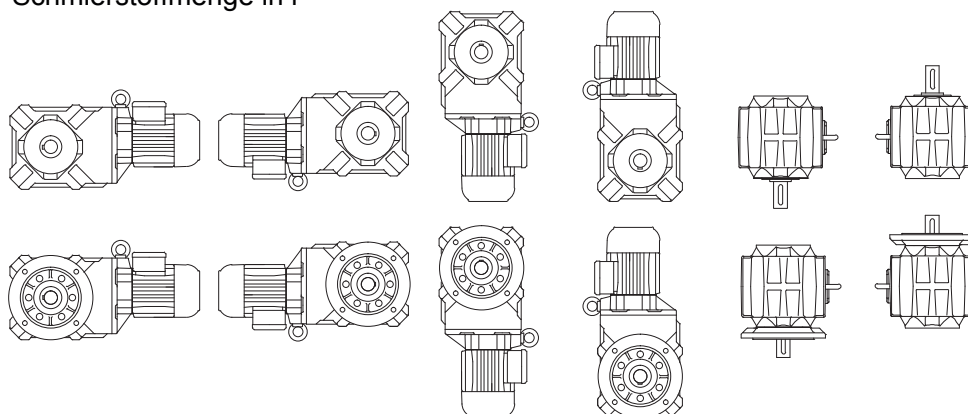
Schmierstoffmenge in l



Getriebetyp	H1	H2	H3	H4	V1	V2
BF06	0.25	0.25	0.25	0.37	0.35	0.3
BF10	0.85	0.85	0.85	1.1	1.45	1.5
BF20	1.3	1.3	1.3	1.7	2.2	2.25
BF30	1.7	1.7	1.7	2.2	3.2	3.0
BF40	2.7	2.7	2.7	3.5	4.9	4.8
BF50	3.8	3.8	3.8	5.0	6.7	6.7
BF60	6.7	6.7	6.7	9.0	12.3	12.0
BF70	12.2	12.2	12.2	16.0	24.2	21.8
BF80	17.0	17.0	17.0	21.0	32.2	27.5
BF90	32.0	32.0	32.0	41.0	62.0	53.0

### Schmierstoffmengen für BK-Getriebe

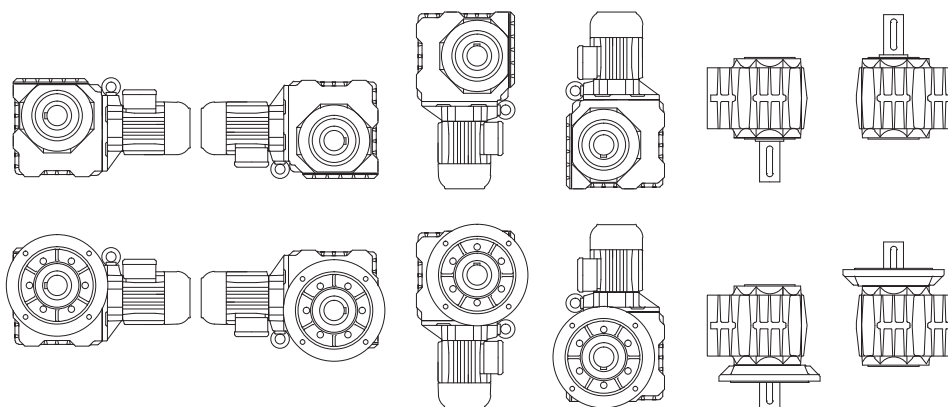
Schmierstoffmenge in l



Getriebetyp	H1	H2	H3	H4	V1	V2
BK06	0.15	0.23	0.29	0.31	0.18	0.23
BK10	0.83	0.83	0.92	1.75	0.92	0.92
BK20	1.5	1.5	1.6	2.9	1.65	1.65
BK30	2.2	2.2	2.3	4.4	2.4	2.4
BK40	3.5	3.5	3.5	6.7	3.7	3.7
BK50	5.8	5.8	5.8	11.5	6.0	6.0
BK60	6.0	8.7	6.9	12.0	8.6	8.6
BK70	10.2	15.0	11.5	20.5	13.5	14.5
BK80	18.0	25.5	19.0	37.0	23.5	25.5
BK90	33.0	48.0	36.0	69.0	45.0	48.0

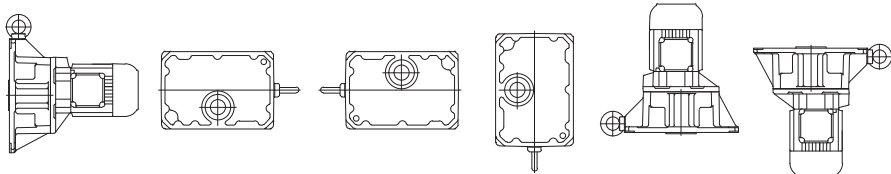
### Schmierstoffmengen für BS-Getriebe

Schmierstoffmenge in l



Getriebetyp	H1	H2	H3	H4	V1	V2
BS02	0.06	0.06	0.06	0.06	0.06	0.06
BS03	0.17	0.17	0.17	0.17	0.17	0.17
BS04	0.11	0.17	0.11	0.2	0.11	0.11
BS06	0.24	0.36	0.24	0.45	0.24	0.24
BS10	0.9	1.3	0.9	1.6	0.9	0.9
BS20	1.5	2.1	1.5	2.7	1.5	1.5
BS30	2.2	3.0	2.2	3.8	2.2	2.2
BS40	3.5	4.7	3.5	6.0	3.5	3.5

### Schmierstoffmengen für Vorstufen (Z)

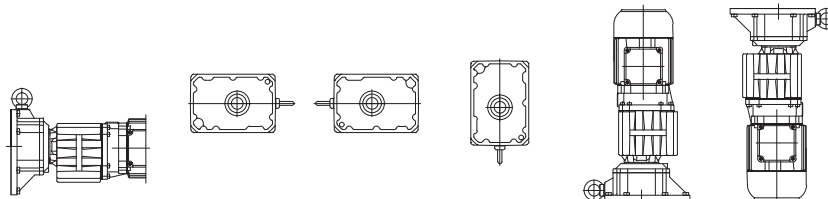
Schmierstoffmenge in l							
		B3 H4 B5	B6 H1	B7 H2	B8 H3	V5/H5 V1	V6/H6 V3 V2
BK / BS		H1	V1	V2	H2	H4	H3
Getriebetyp							
BG10Z BF10Z BK10Z BS10Z	0.10	0.05	0.12	0.07	0.16	0.07	
BG20Z BF20Z BK20Z BS20Z	0.15	0.07	0.19	0.17	0.27	0.10	
BG30Z BF30Z BK30Z BS30Z BM30Z	0.2*	0.10	0.35	0.22	0.35	0.19	
BG40Z BF40Z BK40Z BS40Z BM40Z	0.32*	0.17	0.50	0.37	0.6	0.32	
BG50Z BF50Z BK50Z	0.5	0.3	0.92	0.7	1.15	0.5	
BG60Z BF60Z BK60Z	0.9	0.5	1.55	1.1	2.0	0.7	
BG70Z BF70Z BK70Z BF80Z	1.2	0.6	1.8	1.6	2.4	1.4	
BG80Z BF90Z BK80Z BG100Z	3.1	1.3	4.0	2.6	5.2	2.0	
BG90Z BK90Z	4.2	1.5	5.4	3.5	7.7	3.0	
*: bei BM30Z/BM40Z wird der Schmierstoff der Vorstufe in das Hauptgetriebe mitbefüllt.							

### Schmierstoffmengen für Zwischengetriebe

#### Definition der KLK-Lage

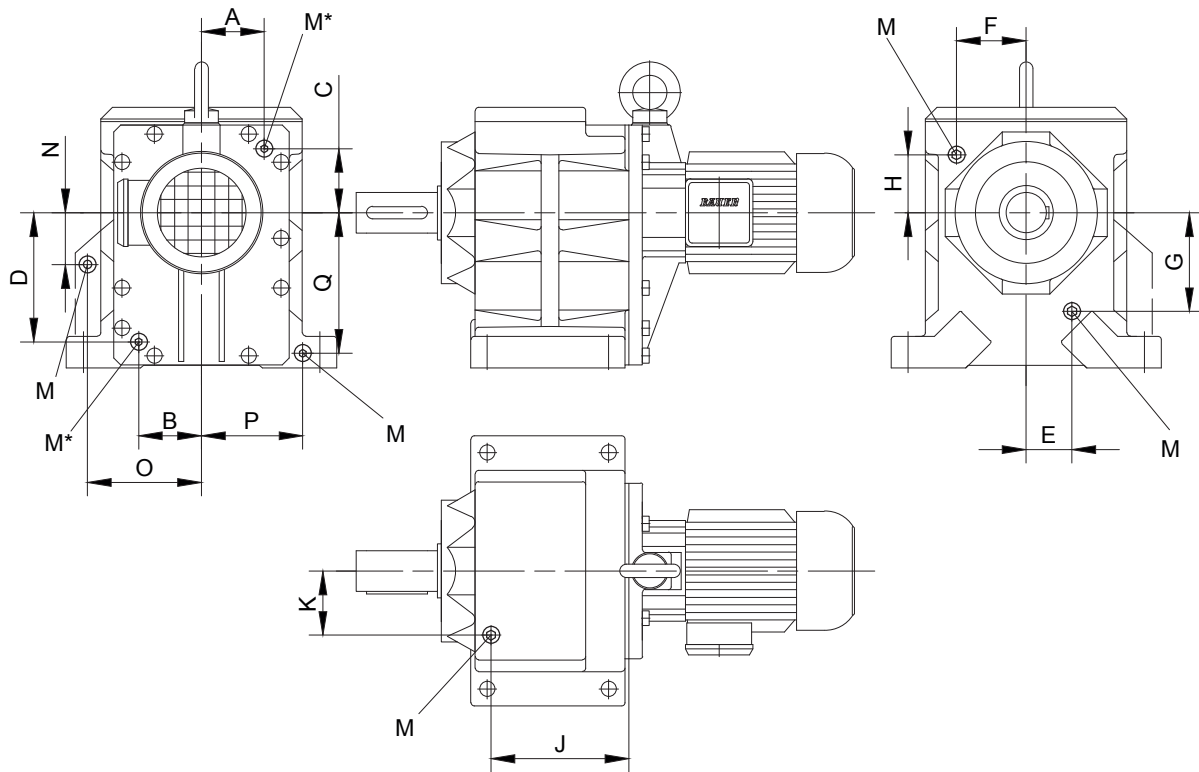
KLK-Lage für Zwischengetriebe gleich wie Hauptgetriebe d.h.  
 Hauptgetriebe BG,BF Standard KLK-Lage I  
 -> Vorschaltgetriebe Standard KLK-Lage I  
 Hauptgetriebe BK,BS Standard KLK-Lage II  
 -> Vorschaltgetriebe Standard KLK-Lage II

Schmierstoffmenge in l



Baulage des Hauptgetriebes	BG / BF	B3 H4 B5	B6 H1	B7 H2	B8 H3	V5/H5 V1	V6/H6 V3 V2	
	BK / BS	H1	V1	V2	H2	H4	H3	
Standardlage d. KLK Baulage H1,H2,H3,B5,V1,V3 für Anbau mit geschraubtem bzw. angegossenem Flansch		B5	H1	H2	H3	V1	V3	
Typenbezeichnung des Doppelgetriebes								
BG06G04 BS06G04 BK06G04		0.03	0.03	0.03	0.03	0.05	0.05	
BG10G06 BF10G06 BK10G06 BS10G06		0.08	0.08	0.08	0.08	0.15	0.15	
BG20G06 BF20G06 BK20G06 BS20G06		0.08	0.08	0.08	0.08	0.15	0.15	
BG30G06 BF30G06 BK30G06 BS30G06		0.08	0.08	0.08	0.08	0.15	0.15	
BG40G10 BF40G10 BK40G10 BS40G10		0.65	0.65	0.65	0.85	1.05	0.85	
BG50G10 BF50G10 BK50G10		0.65	0.65	0.65	0.85	1.05	0.85	
BG60G20 BF60G20 BK60G20		0.8	0.8	0.8	1.1	1.4	1.1	
BG70G20 BF70G20 BK70G20		0.8	0.8	0.8	1.1	1.4	1.1	
BG80G40 BF80G40 BK80G40		1.7	1.7	1.7	2.5	3.3	2.1	
BG90G50 BF90G50 BK90G50 BG100G50		3.0	3.0	3.0	4.5	5.5	3.3	

### Lage der Verschlusschrauben für BG-Getriebereihe



M = Verschlusschraube n. DIN 908

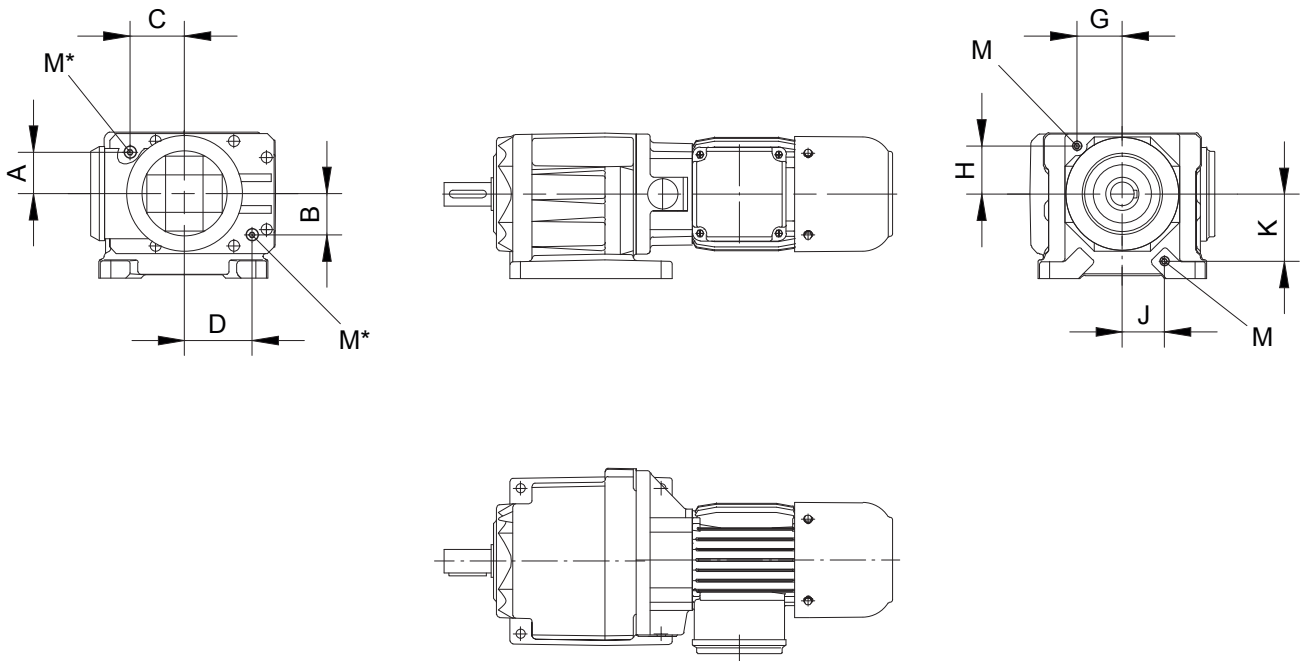
Typ	A	B	C	D	E	F	G	H	J	K	N	O	P	Q	M
BG10 Fußgehäuse	siehe Lage der Verschlusschraube auf dem Systemdeckel	Tab.I-Tab.III Größe B.10	33	42	48	41.5	-	-	-	-	-	-	-	-	M10x1
BG10 Anbaugehäuse		Tab.I-Tab.III Größe B.10	27	-	73	-	-	-	-	-	-	-	-	-	M10x1
BG15 Fußgehäuse		Tab.I-Tab.III Größe B.10	-	-	-	-	-	-	-	-	-	-	-	-	-
BG20 Fußgehäuse		Tab.I-Tab.III Größe B.20	-	47	-	52.5	-	-	-	-	-	-	-	-	M10x1
BG20 Anbaugehäuse		Tab.I-Tab.III Größe B.20	-	28	-	68	-	-	-	-	-	-	-	-	M10x1
BG30 Fußgehäuse		Tab.I-Tab.III Größe B.30	-	54	-	58	-	-	-	-	-	-	-	-	M10x1
BG30 Anbaugehäuse		Tab.I-Tab.III Größe B.30	-	58	-	48	-	-	-	-	-	-	-	-	M10x1
BG40 Fußgehäuse		Tab.I-Tab.III Größe B.40	-	75	-	48	-	-	-	-	-	-	-	-	M14x1.5
BG40 Anbaugehäuse		Tab.I-Tab.III Größe B.40	-	75	-	48	-	-	-	-	-	-	-	-	M14x1.5
BG50 Fußgehäuse		Tab.I-Tab.III Größe B.50	-	53	-	100	-	-	-	-	-	-	-	-	M14x1.5
BG50 Anbaugehäuse		Tab.I-Tab.III Größe B.50	-	53	-	100	-	-	-	-	-	-	-	-	M14x1.5
BG60 Fußgehäuse		Tab.I-Tab.III Größe B.60	-	70	-	119	-	-	-	-	-	-	-	-	M20x1.5
BG60 Anbaugehäuse		Tab.I-Tab.III Größe B.60	-	70	-	119	-	-	-	-	-	-	-	-	M20x1.5
BG70		Tab.I-Tab.III Größe B.70	-	103	-	86	204	95	-	-	-	-	-	-	M20x1.5
BG80		Tab.I-Tab.III Größe B.80	-	133	-	110	237	111	-	-	-	-	-	-	M20x1.5
BG90		Tab.I-Tab.III Größe B.90	-	165	-	124	297	140	-	-	-	-	-	-	M24x1.5
BG100		Tab.I-Tab.III Größe B.80	-	202	-	128	420	165	135	263	202	293			M24x1.5

M\* = Größe und Lage der Verschlusschraube siehe N-SYS-VS

M\* = Größe und Lage der Verschlusschraube siehe Seite 73.

Lage der Verschlusschrauben für BG-20-01R

5

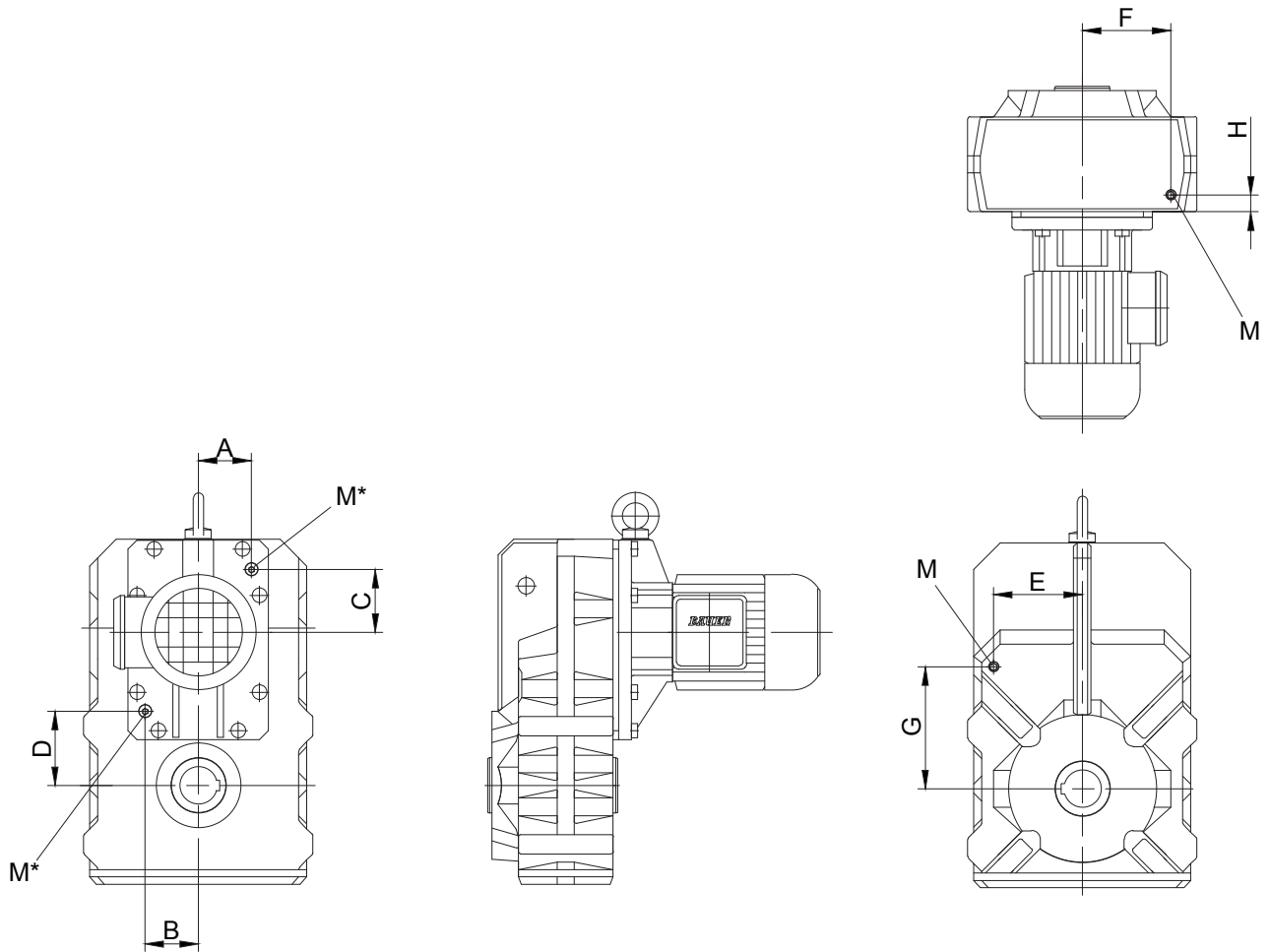


M = Verschlusschraube n. DIN 908

Typ	A	B	C	D	G	H	J	K	M
BG20-01R Rollenbahn	siehe Lage der Verschlusschraube auf dem Systemdeckel Tab.I-Tab.III Größe B20				48.5	51.5	45	71.5	M10x1

M\* = Größe und Lage der Verschlusschraube siehe Seite 73.





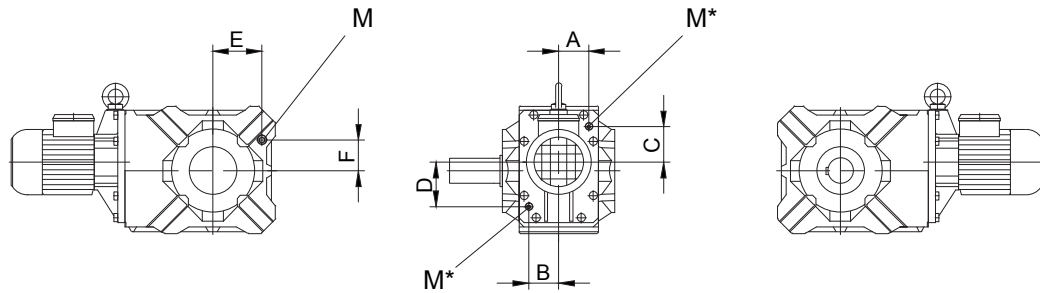
M = Verschlusschraube n. DIN 908

Typ	A	B	C	D	E	F	G	H	M
BF06	siehe Lage der Verschlusschrauben auf dem Systemdeckel	auf Anfrage							
BF10		Tab.I - Tab.III Größe B.10	64	65	97	28	M10x1		
BF20		Tab.I - Tab.III Größe B.20	77	70	115	30.5	M10x1		
BF30		Tab.I - Tab.III Größe B.30	88	82	125	36.5	M10x1		
BF40		Tab.I - Tab.III Größe B.40	100	86	141	33	M14x1.5		
BF50		Tab.I - Tab.III Größe B.50	120	105	165	42.5	M14x1.5		
BF60		Tab.I - Tab.III Größe B.60	140	145	200	50.5	M20x1.5		
BF70		Tab.I - Tab.III Größe B.70	165	177	235	52.5	M20x1.5		
BF80		Tab.I - Tab.III Größe B.70	145	148	255	123	M20x1.5		
BF90		Tab.I - Tab.III Größe B.80	155	176	347.5	260	M24x1.5		

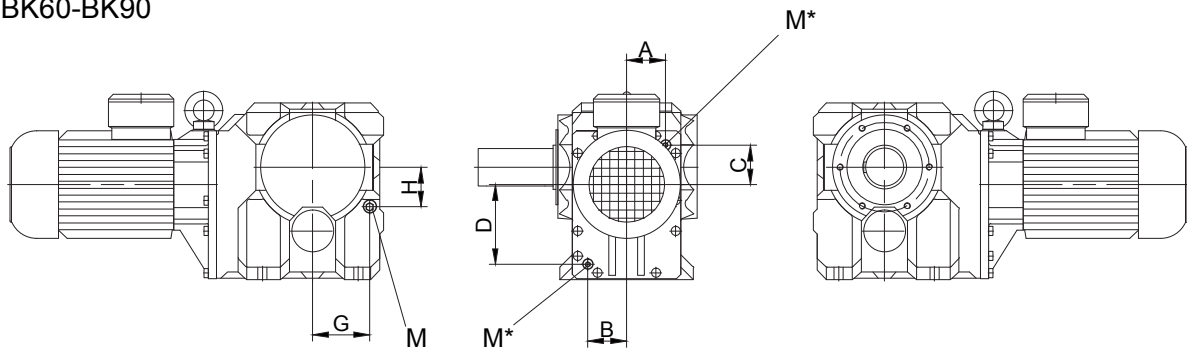
M\* = Größe und Lage der Verschlusschraube siehe Seite 73.

### Lage der Verschlusschrauben für BK-Getriebereihe

BK10-BK50



BK60-BK90



M = Verschlusschraube n. DIN 908

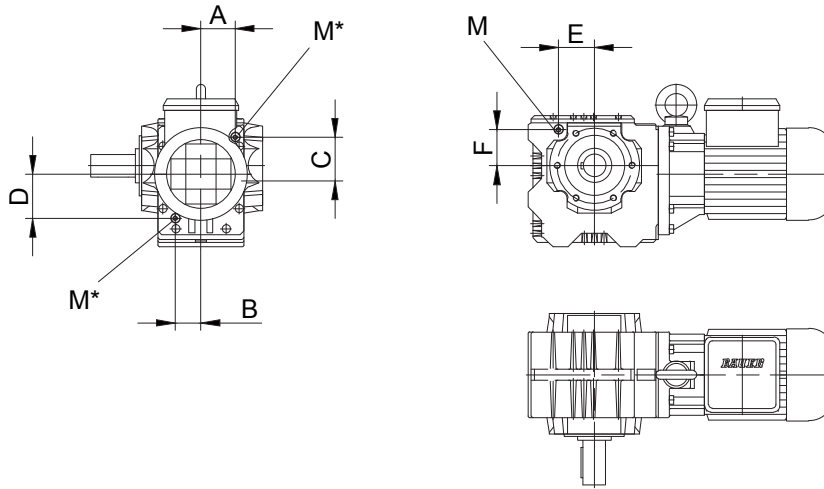
Typ	A	B	C	D	E	F	G	H	M
BK06			auf Anfrage						
BK10		Tab.I- Tab.III Größe B.10			62	32.5	-	-	M10x1
BK20		Tab.I- Tab.III Größe B.20			73.5	37.5	-	-	M10x1
BK30		Tab.I- Tab.III Größe B.30			80	43	-	-	M10x1
BK40		Tab.I- Tab.III Größe B.40			88	49	-	-	M14x1.5
BK50		Tab.I- Tab.III Größe B.50			118	74	-	-	M14x1.5
BK60		Tab.I- Tab.III Größe B.60			-	-	93	87	M20x1.5
BK70		Tab.I- Tab.III Größe B.70			-	-	137	95	M20x1.5
BK80		Tab.I- Tab.III Größe B.80			-	-	150	117	M20x1.5
BK90		Tab.I- Tab.III Größe B.90			-	-	208	135	M24x1.5

siehe Lage der Verschlusschrauben auf dem Systemdeckel

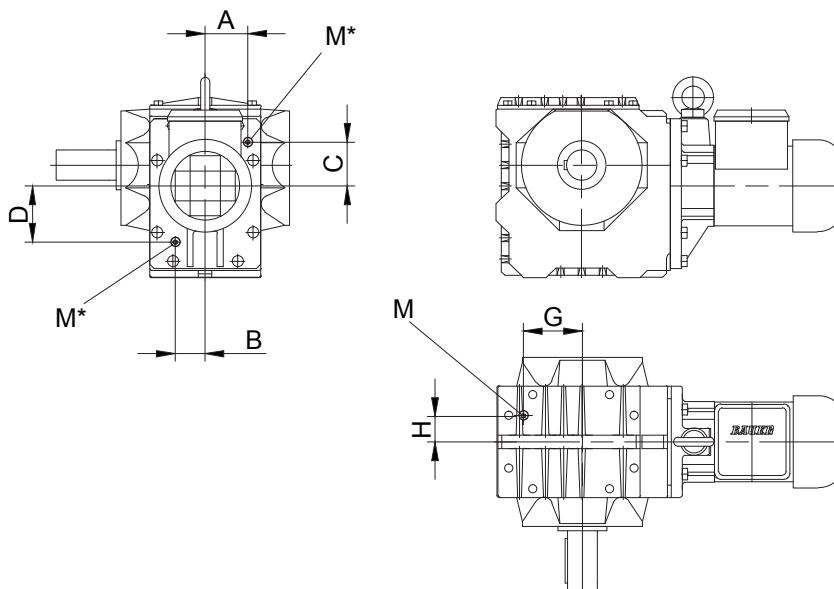
M\* = Größe und Lage der Verschlusschraube siehe Seite 73.

### Lage der Verschlusschrauben für BS-Getriebereihe

BS10 - BS20



BS30 - BS40

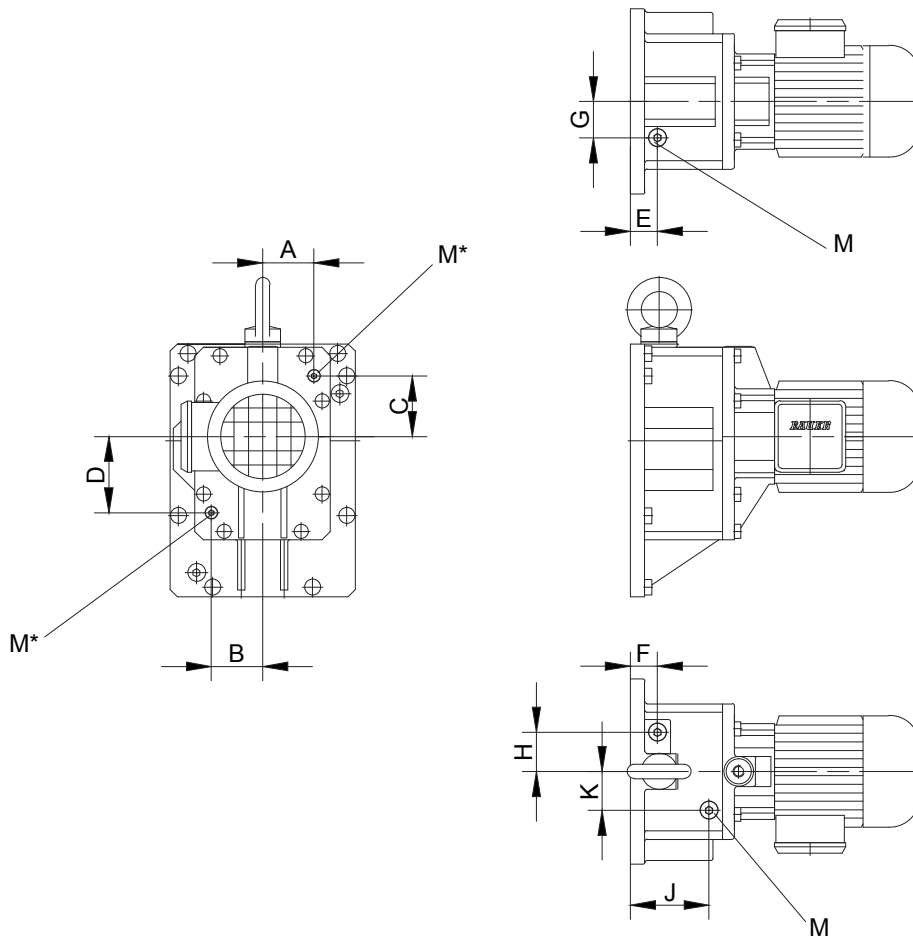


M = Verschlusschraube n. DIN 908

Typ	A	B	C	D	E	F	G	H	M
BS10	siehe Lage der Verschlusschrauben auf dem Systemdeckel		Tab.I-Tab.III Größe B.10	-	48	50	-	-	M10x1
BS20			Tab.I-Tab.III Größe B.20		59	63	-	-	M10x1
BS30	siehe Lage der Verschlusschrauben auf dem Systemdeckel		Tab.I-Tab.III Größe B.30	-	-	-	79	35	M10x1
BS40			Tab.I-Tab.III Größe B.40		-	-	93.5	41.5	M14x1.5

M\* = Größe und Lage der Verschlusschraube siehe Seite 73.

### Lage der Verschlusschrauben für Vorstufen (Z)

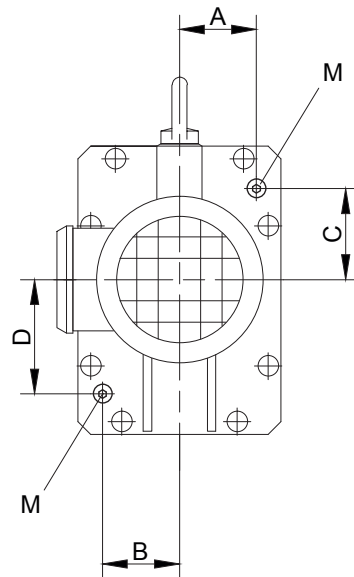


M = Verschlusschraube n. DIN 908

Getriebe	A	B	C	D	E	F	G	H	J	K	M
BG10(Z);BK10(Z); BF10(Z);BS10(Z)	-	-	-	-	25	-	17.5	-	44	25	M10x1
BG20(Z);BK20(Z); BF20(Z);BS20(Z)	-	-	-	-	49	-	28.5	-	23.5	28	M10x1
BG30(Z);BK30(Z); BF30(Z);BS30(Z)	siehe Lage der Verschlusschrauben auf dem Systemdeckel	Tab.I u. II Größe B.10			-	24	-	30	-	-	M10x1
BG40(Z);BK40(Z); BF40(Z);BS40(Z)		Tab.I u. II Größe B.20			-	27.5	-	36.5	-	-	M14x1.5
BG50(Z);BK50(Z); BF50(Z)		Tab.I u. II Größe B.30			-	-	-	-	29	43	M14x1.5
BG60(Z);BK60(Z); BF60(Z)		Tab.I u. II Größe B.40			-	33	-	48	-	-	M20x1.5
BG70(Z);BK70(Z); BF70(Z);BF80(Z)		Tab.I u. II Größe B.50			-	38	-	55	-	-	M20x1.5
BG80(Z);BK80(Z); BF90(Z);BG100(Z)		Tab.I u. II Größe B.60			-	45	-	73	-	-	M20x1.5
BG90(Z);BK90(Z)		Tab.I u. II Größe B.70			-	45	-	62	-	-	M24x1.5

M\* = Größe und Lage der Verschlusschraube siehe Seite 73.

Lage der Verschlusschrauben auf dem Systemdeckel  
Ausführung mit Standard-Getriebemotor



5

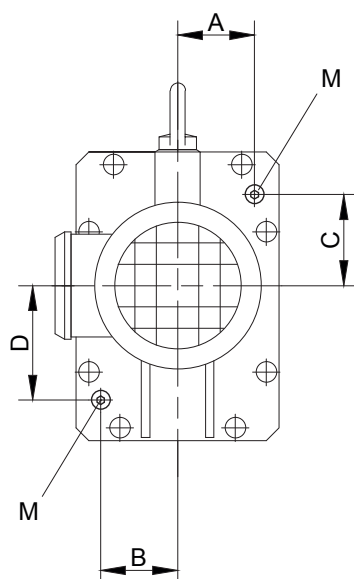
M = Verschlusschraube n. DIN 908

Tabelle I: Ausführung mit Standard-Getriebemotor

Getriebe	Grösse	A	B	C	D	M
BG10(Z); BK10(Z); BF10(Z); BS10(Z)	D05-D..09	36	34	43.5	59	M10x1
BG15;	D05-D..09	36	34	43.5	59	M10x1
BG20(Z); BK20(Z); BF20(Z); BS20(Z)	D05-D..09	44	44	58	72.5	M10x1
BG30(Z); BK30(Z); BF30(Z); BS30(Z)	D05-D..09	56.5	40	58.2	75	M10x1
BG40(Z); BK40(Z); BF40(Z); BS40(Z)	D..08-D..11	66	71	71	94	M14x1.5
BG50(Z); BK50(Z); BF50(Z)	D..08-D..11	72	74	85	109	M14x1.5
	D..13-D..16	78	74	82	109	M14x1.5
BG60(Z); BK60(Z); BF60(Z)	D..09-D..13	84	81	120	155	M20x1.5
	D..16	86	81	120	155	M20x1.5
BG70(Z); BK70(Z); BF70(Z); BF80(Z)	D..09-D..18	95	85	97	193	M20x1.5
BG80(Z); BK80(Z); BF90(Z); BG100(Z)	D..11-D..18	118	118	110	245	M20x1.5
BG90(Z); BK90(Z)	D..13-D..18	145	145	116	294	M24x1.5

Lage der Verschlusschrauben für BG, BK, BS und BF Getriebereihen und Vorstufen.

Lage der Verschlusschrauben auf dem Systemdeckel  
Ausführung mit Vorstufe Z



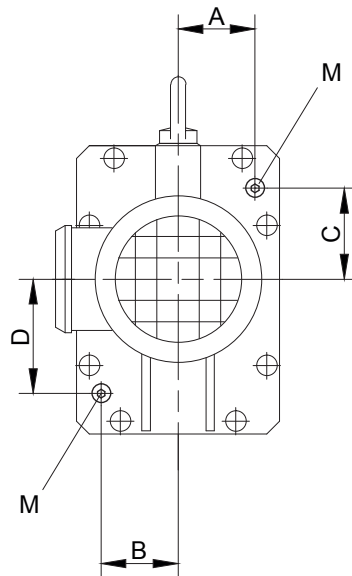
M = Verschlusschraube n. DIN 908

Tabelle III: Ausführung mit Vorstufe Z

Getriebe	A	B	C	D	M
B.10	38	39.5	44	61.5	M10x1
B.20	44	44	58	72	M10x1
B.30	59	42	58.2	77	M10x1
B.40	66	71	71	96	M14x1.5
B.50	72	73	85	111	M14x1.5
B.60	85	81	120	192	M20x1.5
B.70	95	95	97	193	M20x1.5
B.80	118	118	110	245	M20x1.5
B.90	139	139	124	302	M24x1.5

Lage der Verschlusschrauben für BG, BK,BS und BF Getriebereihen und Vorstufen.

Lage der Verschlusschrauben auf dem Systemdeckel  
Ausführung mit Fremdmotor oder als Getriebeausführung mit eintreibender Welle



5

M = Verschlusschraube n. DIN 908

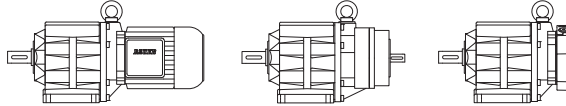
Tabelle II: Ausführung mit Fremdmotor oder als Getriebeausführung mit eintreibender Welle

Getriebe	A	B	C	D	M
BG10(Z); BK10(Z); BF10(Z); BS10(Z)	34	34	40.5	57	M10x1
BG15;	34	34	40.5	57	M10x1
BG20(Z); BK20(Z); BF20(Z); BS20(Z)	44	44	57	72	M10x1
BG30(Z); BK30(Z); BF30(Z); BS30(Z)	58.5	41	57.6	77	M10x1
BG40(Z); BK40(Z); BF40(Z); BS40(Z);	69	73	70	97	M14x1.5
BG50(Z); BK50(Z); BF50(Z)	75	75	82	110	M14x1.5
BG60(Z); BK60(Z); BF60(Z)	84	81	119	155	M20x1.5
BG70(Z); BK70(Z); BF70(Z); BF80(Z)	96	95	96	193	M20x1.5
BG80(Z); BK80(Z); BF90(Z); BG100(Z)	118	118	110	245	M20x1.5
BG90(Z); BK90(Z)	145	145	116	294	M24x1.5

Lage der Verschlusschrauben für BG, BK, BS und BF Getriebereihen und Vorstufen.







Seite

77-164

## **Stirnrad Getriebemotoren Reihe BG Auswahl**

### **Beschreibung der Stirnradgetriebe**

- Baugrößen
- Bauer-Betriebsfaktoren ( $f_b$ ) für Stirnrad-Getriebemotoren
- Durchlaufbetrieb ohne Schalzhäufigkeit  $Z \leq 1/h$
- Schaltbetrieb
- Bauer-Betriebsfaktor
- Erklärung der Stoßgrade
- Erklärung der Kurzzeichen
- Auswahltabellen der Stirnrad-Getriebemotoren

### **Auswahl - Stirnradgetriebemotoren IE1**

### **Auswahl - Stirnradgetriebemotoren IE2**

# Stirrad-Getriebemotoren Reihe BG

## Beschreibung der Stirradgetriebe

### Baugrößen

Bauer-Stirrad-Getriebemotoren der Reihe BG werden listenmäßig in 13 Baugrößen mit Drehmomenten von 20 Nm bis 18.500 Nm geliefert. Höhere Drehmomente auf Anfrage. Die Getriebe haben ein kräftiges Guss-Gehäuse.

### Bauer-Betriebsfaktoren ( $f_B$ ) für Stirrad-Getriebemotoren

Für die Gesamtbeanspruchung eines Getriebes sind zahlreiche Einflussgrößen maßgebend; zu den wichtigsten gehören:

- mittleres Drehmoment (Bemessungsdrehmoment)
- tägliche Betriebszeit
- Stärke von Drehmomentstößen (Stoßgrad)
- Häufigkeit von Drehmomentstößen (Schaltbetrieb)

Diese Einflüsse können vereinfachend und praxisnah durch *Betriebsfaktoren* beschrieben werden. In den nachfolgenden Tabellen und Erläuterungen wird versucht, statt einer Klassifizierung von Arbeitsmaschinen eine objektive Beschreibung des *Stoßgrades* zu geben. Erfahrungsgemäß spielen dabei neben den von der Arbeitsmaschine verursachten Drehmomentstößen ( $M_x/M_N$ ) vor allem die Übertragungsmittel (Kupplungen, Ketten usw.) sowie die Massenverhältnisse eine entscheidende Rolle.

Weitere Informationen siehe Bauer-Sonderdruck SD32...

### Faktor $f_1$ für Stoßgrad Betriebszeit

Stoßgrad	Betriebszeit pro Tag $t_d$	>4 h	>8 h	>16 h
		≤8 h	≤16 h	≤24 h
I		0,8	1,0	1,2
II		1,05	1,25	1,45
III		1,45	1,55	1,7

6 Durchlaufbetrieb ohne Schalthäufigkeit  $Z \leq 1/h$

### Schaltbetrieb

### Faktor $f_2$ für Stoßgrad und Schalthäufigkeit

Schalthäufigkeit im Einschicht-Betrieb  $t_d \leq 8 h/d$

Stoßgrad	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	0,95	1,1	1,15
II	1,2	1,35	1,4
III	1,55	1,6	1,6

Schalthäufigkeit im Mehrschicht-Betrieb  $t_d > 8 h/d$

Stoßgrad	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	1,3	1,45	1,5
II	1,5	1,6	1,65
III	1,75	1,8	1,8

### Bauer-Betriebsfaktor

Bauer-Betriebsfaktor  $f_B = f_1$  oder  $f_B = f_2$

Beispiel: Stoßgrad II bei  $Z = 100$  Schaltungen pro Stunde und Mehrschichtbetrieb ergibt den Betriebsfaktor  $f_B = f_2 = 1,5$

### Erklärung der Stoßgrade

#### Stoßgrad I:

Gleichförmig ohne Stöße. Alle folgenden Bedingungen müssen erfüllt werden:

- $FI \leq 1,3$
- $M_x/M_N \leq 1,0$
- Übertragungsmittel stoßdämpfend (z.B. hochelastische, spielfreie Kupplung,  $\varphi_N \geq 5^\circ$ )

#### Stoßgrad II:

Mäßige Stöße. Mindestens eine der folgenden Bedingungen trifft zu:

- $1,3 < FI \leq 4$
- $1 < M_x/M_N \leq 1,6$
- Übertragungsmittel stoßneutral (z.B. Zahnräder, spielfreie starre Kupplung oder elastische Kupplung mit  $\varphi_N < 5^\circ$ )

#### Stoßgrad III:

Heftige Stöße. Mindestens eine der folgenden Bedingungen trifft zu:

- $FI > 4$
- $1,6 < M_x/M_N \leq 2,0$
- Übertragungsmittel stoßverstärkend (z.B. spielbehaftete Kupplung oder Kettenantrieb)

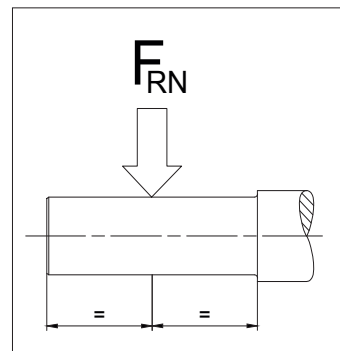
### Erklärung der Kurzzeichen

Z	Schaltbetrieb Schaltungen pro Stunde
$t_d$	Tägliche Betriebszeit in Stunden (h/d)
FI	Trägheitsfaktor $FI = (J_{ext} + J_{rot})/J_{rot}$
$J_{ext}$	Massenträgheitsmoment der anzutreibenden Maschine, bezogen auf die Läuferwelle des Motors ( $kgm^2$ )
$J_{rot}$	Massenträgheitsmoment des Motorläufers ( $kgm^2$ )
$M_x$	Höchstes Stoßmoment, das betriebsbedingt oder im Störfall über das statische Lastmoment hinaus eintreten kann
$M_N$	Erforderliches statisches Lastmoment für die Anwendung
$M_x/M_N$	Relatives Stoßmoment - Faktor
$\varphi_N$	Verdrehwinkel der elastischen Kupplung bei Bemessungsmoment

### Auswahltabellen der Stirnrad-Getriebemotoren

#### Erläuterungen zu den Abkürzungen

P	Bemessungsleistung
$n_2$	Bemessungsdrehzahl der Arbeitswelle
i	Getriebe-Untersetzung
$M_2$	Bemessungsmoment an der Arbeitswelle
$f_B$	Bauer-Betriebsfaktor
$F_{RN}$	Maximal zulässige Radialkraft bei Standard-Zapfenwelle (Code -.1/)
$F_{RV}$	Maximal zulässige Radialkraft bei verstärkter Lagerung jeweils bei Standard-Zapfenwelle (Code -.1 und -.7)



Mit den Auswahltabellen kann die Größe des Getriebemotors festgelegt werden. Die Ausführung des Getriebes kann mittels Codezahlen eindeutig definiert werden (siehe Kapitel 10 „Mabilder der Stirnradgetriebemotoren“).

Die mit (\*) gekennzeichneten Drehmomente sind maximal zulässige Werte bei Betriebsfaktor  $f_B=1,0$ .

#### Motorleistung-Überlastungsschutz

Die Nennleistung der Motoren, vor allem in Verbindung mit den vier- und mehrstufigen Getrieben, sind z. T. reichlich bemessen. Der Bemessungsstrom stellt aus diesem Grunde wie auch bei kleinen Motorleistungen keinen Maßstab für die Getriebeauslastung dar und kann nicht als Überlastungsschutz für das Getriebe genutzt werden. Bei Gefahr von zu hoher Belastung oder Blockierung ist es sinnvoll, das Getriebe durch mechanische Einrichtung (z. B. Rutschkupplung, Rutschnabe, Scherstift o. ä.) zu schützen.

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 0.03 kW

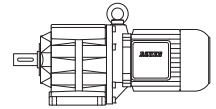


50 Hz			i	Typ	m kg	F <sub>RN</sub> N	F <sub>RV</sub> N	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
540	0.53	7.5	2.51	BG04-../D04LA4	4.4	340	-	650	0.44	9.1
370	0.77	6.5	3.65	"	"	390	-	445	0.64	7.8
310	0.92	7.6	4.39	"	"	380	-	370	0.77	9.1
255	1.12	8.0	5.36	"	"	380	-	305	0.93	9.7
205	1.39	7.2	6.67	"	"	410	-	245	1.16	8.6
158	1.81	6.1	8.58	"	"	410	-	189	1.51	7.3
150	1.91	6.3	9.00	"	"	470	-	180	1.59	7.5
137	2.05	6.3	9.90	"	"	480	-	164	1.74	7.5
125	2.25	6.2	10.82	"	"	480	-	150	1.91	7.3
114	2.5	6.0	11.90	"	"	490	-	137	2.05	7.3
108	2.65	5.7	12.55	"	"	490	-	130	2.2	6.8
103	2.75	5.8	13.20	"	"	500	-	123	2.3	7.0
93	3.05	5.6	14.52	"	"	510	-	112	2.55	6.7
83	3.45	5.2	16.44	"	"	530	-	99	2.85	6.3
75	3.8	4.7	18.08	"	"	540	-	90	3.15	5.7
64	4.45	4.3	21.12	"	"	560	-	77	3.7	5.1
59	4.85	4.1	23.23	"	"	600	-	70	4.05	4.9
56	5.1	3.9	24.45	"	"	610	-	67	4.25	4.7
51	5.6	3.6	26.89	"	"	650	-	61	4.65	4.3
44	6.5	3.1	30.91	"	"	690	-	53	5.4	3.7
40	7.1	2.8	34.00	"	"	720	-	48	5.9	3.4
38.5	7.4	2.7	35.35	"	"	730	-	46	6.2	3.2
35	8.1	2.5	38.89	"	"	750	-	42	6.8	2.9
32	8.9	2.2	42.24	"	"	750	-	38.5	7.4	2.7
29.5	9.7	2.1	46.47	"	"	750	-	35	8.1	2.5
28.5	10	2.0	47.52	"	"	750	-	34.5	8.3	2.4
26	11	1.8	52.28	"	"	750	-	31	9.2	2.2
25	11.4	1.75	54.97	"	"	750	-	29.5	9.7	2.1
22.5	12.7	1.55	60.47	"	"	750	-	27	10.6	1.9
31	9.2	3.3	43.57	BG05-../D04LA4	5.1	900	-	37.5	7.6	3.9
29	9.8	3.1	47.00	"	"	930	-	34.5	8.3	3.6
26.5	10.8	2.8	51.27	"	"	970	-	32	8.9	3.4
25.5	11.2	2.7	53.44	"	"	980	-	30.5	9.3	3.2
23.5	12.1	2.5	58.30	"	"	1000	-	28	10.2	2.9
20.5	13.9	3.2	66.79	BG06-../D04LA4	6.1	1070	-	24.5	11.6	3.9
18	13.8	2.9	75.99	BG06G04-../D04LA4	8.4	1070	-	21.5	11.2	3.6
16.5	15	2.9	82.89	"	"	1070	-	20	12	3.6
15	16.5	2.7	93.00	"	"	1070	-	17.5	13.8	3.3
13.5	18.4	2.4	101.5	"	"	1070	-	16	15.1	3.0
11.5	21	2.1	122.0	"	"	1070	-	13.5	17.3	2.6
9.1	26	1.75	149.0	"	"	1070	-	11	21	2.1
7.3	33.5	1.35	185.4	"	"	1070	-	8.8	26.5	1.7
5.4	46	0.98	250.2	"	"	1070	-	6.5	37	1.2
5.0	50	0.9	275.2	"	"	1070	-	5.9	41	1.1
4.1	45*	1.0	330.8	"	"	1070	-	4.9	45	1.0
3.7	45*	1.0	367.0	"	"	1070	-	4.5	45	1.0
3.0	45*	1.0	457.0	"	"	1070	-	3.6	45	1.0
2.7	45*	1.0	502.6	"	"	1070	-	3.3	45	1.0
2.3	45*	1.0	587.1	"	"	1070	-	2.8	45	1.0
2.1	45*	1.0	645.8	"	"	1070	-	2.6	45	1.0
1.9	45*	1.0	747.5	"	"	1070	-	2.2	45	1.0
1.6	45*	1.0	859.3	"	"	1070	-	1.9	45	1.0
1.5	45*	1.0	945.2	"	"	1070	-	1.8	45	1.0
1.3	45*	1.0	1081	"	"	1070	-	1.5	45	1.0
1.2	45*	1.0	1174	"	"	1070	-	1.4	45	1.0
1.1	45*	1.0	1321	"	"	1070	-	1.3	45	1.0
0.9	45*	1.0	1528	"	"	1070	-	1.1	45	1.0
0.85	45*	1.0	1681	"	"	1070	-	1.0	45	1.0
0.7	45*	1.0	1948	"	"	1070	-	0.85	45	1.0
0.65	45*	1.0	2126	"	"	1070	-	0.8	45	1.0
0.6	45*	1.0	2435	"	"	1070	-	0.7	45	1.0

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

P = 0.03 kW

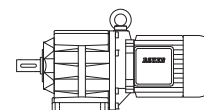


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
7.4	38.5	3.1	184.0	BG10Z-../D04LA4	11	2000	2800	8.9	32	3.8
7.0	40.5	3.0	194.6	"	"	2000	2800	8.4	34	3.5
6.3	45	2.7	215.7	"	"	2000	2800	7.6	37.5	3.2
5.7	50	2.4	240.4	"	"	2000	2800	6.8	42	2.9
5.1	56	2.1	266.3	"	"	2000	2800	6.1	46.5	2.6
4.9	58	2.1	276.0	"	"	2000	2800	5.9	48.5	2.5
4.5	63	1.9	305.8	"	"	2000	2800	5.3	54	2.2
3.6	49	2.7	379.6	BG10G06-../D04LA4	14	2000	2800	4.3	36	3.6
3.1	57	2.3	435.9	"	"	2000	2800	3.8	40	3.3
2.7	68	1.9	512.6	"	"	2000	2800	3.2	51	2.5
2.3	83	1.55	613.6	"	"	2000	2800	2.7	65	2.0
1.9	105	1.25	748.9	"	"	2000	2800	2.2	84	1.55
1.6	130	1.0	899.5	"	"	2000	2800	1.9	102	1.25
1.3	130*	1.0	1081	"	"	2000	2800	1.5	130	1.0
1.1	130*	1.0	1272	"	"	2000	2800	1.3	130	1.0
0.9	130*	1.0	1523	"	"	2000	2800	1.1	130	1.0
0.75	130*	1.0	1863	"	"	2000	2800	0.9	130	1.0
0.6	130*	1.0	2356	"	"	2000	2800	0.7	130	1.0
0.55	130*	1.0	2699	"	"	2000	2800	0.65	130	1.0
0.46	130*	1.0	2944	"	"	2000	2800	0.6	130	1.0
0.4	130*	1.0	3378	"	"	2000	2800	0.48	130	1.0
0.37	130*	1.0	3684	"	"	2000	2800	0.44	130	1.0
0.31	130*	1.0	4477	"	"	2000	2800	0.37	130	1.0
0.28	130*	1.0	4884	"	"	2000	2800	0.34	130	1.0
2.5	77	2.9	550.6	BG20G06-../D04LA4	17	5000	-	3.0	58	3.8
2.1	95	2.3	671.9	"	"	5000	-	2.5	73	3.0
1.7	125	1.75	807.1	"	"	5000	-	2.1	93	2.4
1.4	160	1.4	969.9	"	"	5000	-	1.7	123	1.8
1.2	188	1.15	1142	"	"	5000	-	1.5	141	1.55
1.0	230	0.96	1366	"	"	5000	-	1.2	186	1.2
0.85	220*	1.0	1672	"	"	5000	-	1.0	220	1.0
0.75	220*	1.0	1824	"	"	5000	-	0.9	220	1.0
0.65	220*	1.0	2114	"	"	5000	-	0.8	220	1.0
0.6	220*	1.0	2422	"	"	5000	-	0.7	220	1.0
0.55	220*	1.0	2642	"	"	5000	-	0.65	220	1.0
0.45	220*	1.0	3031	"	"	5000	-	0.55	220	1.0
0.41	220*	1.0	3306	"	"	5000	-	0.5	220	1.0
0.34	220*	1.0	4017	"	"	5000	-	0.41	220	1.0
0.31	220*	1.0	4383	"	"	5000	-	0.37	220	1.0
2.0	101	3.2	690.6	BG30G06-../D04LA4	21	6000	-	2.4	77	4.2
1.8	116	2.8	760.7	"	"	6000	-	2.2	87	3.7
1.7	124	2.6	829.5	"	"	6000	-	2.0	98	3.3
1.4	158	2.1	996.8	"	"	6000	-	1.7	122	2.7
1.3	173	1.9	1088	"	"	6000	-	1.5	143	2.3
1.1	205	1.6	1280	"	"	6000	-	1.3	166	1.95
1.0	230	1.4	1404	"	"	6000	-	1.2	184	1.75
0.8	295	1.1	1718	"	"	6000	-	0.95	240	1.35
0.75	320	1.0	1875	"	"	6000	-	0.9	255	1.25
0.65	325*	1.0	2173	"	"	6000	-	0.75	325	1.0
0.5	325*	1.0	2715	"	"	6000	-	0.6	325	1.0
0.44	325*	1.0	3115	"	"	6000	-	0.55	325	1.0
0.4	325*	1.0	3398	"	"	6000	-	0.48	325	1.0
0.35	325*	1.0	3867	"	"	6000	-	0.42	325	1.0
0.3	325*	1.0	4504	"	"	6000	-	0.36	325	1.0

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 0.04 kW

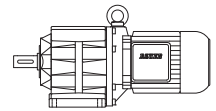


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
540	0.7	5.7	2.51	BG04-../D04LA4	4.4	340	-	650	0.58	6.9
370	1.03	4.9	3.65	"	"	390	-	445	0.85	5.9
310	1.23	5.7	4.39	"	"	380	-	370	1.03	6.8
255	1.49	6.0	5.36	"	"	380	-	305	1.25	7.2
205	1.86	5.4	6.67	"	"	410	-	245	1.55	6.5
158	2.4	4.6	8.58	"	"	410	-	189	2.0	5.5
150	2.5	4.8	9.00	"	"	470	-	180	2.1	5.7
137	2.75	4.7	9.90	"	"	480	-	164	2.3	5.7
125	3.05	4.6	10.82	"	"	480	-	150	2.5	5.6
114	3.35	4.5	11.90	"	"	490	-	137	2.75	5.5
108	3.5	4.3	12.55	"	"	490	-	130	2.9	5.2
103	3.7	4.3	13.20	"	"	500	-	123	3.1	5.2
93	4.1	4.1	14.52	"	"	510	-	112	3.4	5.0
83	4.6	3.9	16.44	"	"	530	-	99	3.85	4.7
75	5.0	3.6	18.08	"	"	540	-	90	4.2	4.3
64	5.9	3.2	21.12	"	"	560	-	77	4.95	3.8
59	6.4	3.1	23.23	"	"	600	-	70	5.4	3.7
56	6.8	2.9	24.45	"	"	610	-	67	5.7	3.5
51	7.4	2.7	26.89	"	"	650	-	61	6.2	3.2
44	8.6	2.3	30.91	"	"	690	-	53	7.2	2.8
40	9.5	2.1	34.00	"	"	720	-	48	7.9	2.5
38.5	9.9	2.0	35.35	"	"	730	-	46	8.3	2.4
35	10.9	1.85	38.89	"	"	750	-	42	9.0	2.2
32	11.9	1.7	42.24	"	"	750	-	38.5	9.9	2.0
29.5	12.9	1.55	46.47	"	"	750	-	35	10.9	1.85
28.5	13.4	1.5	47.52	"	"	750	-	34.5	11	1.8
26	14.6	1.35	52.28	"	"	750	-	31	12.3	1.65
25	15.2	1.3	54.97	"	"	750	-	29.5	12.9	1.55
22.5	16.9	1.2	60.47	"	"	750	-	27	14.1	1.4
39	9.7	3.1	35.00	BG05-../D04LA4	5.1	810	-	46.5	8.2	3.7
35.5	10.7	2.8	38.18	"	"	850	-	42.5	8.9	3.4
34	11.2	2.7	39.94	"	"	860	-	41	9.3	3.2
31	12.3	2.4	43.57	"	"	900	-	37.5	10.1	3.0
29	13.1	2.3	47.00	"	"	930	-	34.5	11	2.7
26.5	14.4	2.1	51.27	"	"	970	-	32	11.9	2.5
25.5	14.9	2.0	53.44	"	"	980	-	30.5	12.5	2.4
23.5	16.2	1.85	58.30	"	"	1000	-	28	13.6	2.2
27	14.1	3.2	50.38	BG06-../D04LA4	6.1	940	-	32.5	11.7	3.8
26	14.6	3.1	52.56	"	"	950	-	31	12.3	3.7
24	15.9	2.8	57.34	"	"	1000	-	28.5	13.4	3.4
22.5	16.9	2.7	61.22	"	"	1020	-	26.5	14.4	3.1
20.5	18.6	2.4	66.79	"	"	1070	-	24.5	15.5	2.9
18	19.1	2.1	75.99	BG06G04-../D04LA4	8.4	1070	-	21.5	15.6	2.6
16.5	20.5	2.1	82.89	"	"	1070	-	20	16.8	2.6
15	22.5	2.0	93.00	"	"	1070	-	17.5	19.2	2.3
13.5	25.5	1.75	101.5	"	"	1070	-	16	21	2.1
11.5	29	1.55	122.0	"	"	1070	-	13.5	24	1.9
9.1	36.5	1.25	149.0	"	"	1070	-	11	29.5	1.55
7.3	46.5	0.97	185.4	"	"	1070	-	8.8	37.5	1.2
10.5	36	3.3	131.8	BG10Z-../D04LA4	11	2000	2800	12.5	30.5	3.9
9.3	41	2.9	146.0	"	"	2000	2800	11.5	33	3.6
8.2	46.5	2.6	166.0	"	"	2000	2800	9.8	38.5	3.1
7.4	51	2.4	184.0	"	"	2000	2800	8.9	42.5	2.8
7.0	54	2.2	194.6	"	"	2000	2800	8.4	45	2.7
6.3	60	2.0	215.7	"	"	2000	2800	7.6	50	2.4
5.7	67	1.8	240.4	"	"	2000	2800	6.8	56	2.1
5.1	74	1.6	266.3	"	"	2000	2800	6.1	62	1.95
4.9	77	1.55	276.0	"	"	2000	2800	5.9	64	1.9
4.5	84	1.45	305.8	"	"	2000	2800	5.3	72	1.65

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

**P = 0.04 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
4.1	60	2.2	332.0	BG10G06-../D04LA4	14	2000	2800	4.9	45.5	2.9
3.6	75	1.75	379.6	"	"	2000	2800	4.3	58	2.2
3.1	88	1.5	435.9	"	"	2000	2800	3.8	65	2.0
2.7	103	1.25	512.6	"	"	2000	2800	3.2	81	1.6
2.3	125	1.05	613.6	"	"	2000	2800	2.7	100	1.3
1.9	155	0.84	748.9	"	"	2000	2800	2.2	128	1.0
6.1	62	3.2	222.1	BG20Z-../D04LA4	13	5000	-	7.3	52	3.8
3.9	69	3.2	352.1	BG20G06-../D04LA4	17	5000	-	4.7	52	4.2
3.5	77	2.9	391.1	"	"	5000	-	4.2	59	3.7
3.0	93	2.4	460.0	"	"	5000	-	3.6	71	3.1
2.5	116	1.9	550.6	"	"	5000	-	3.0	90	2.4
2.1	141	1.55	671.9	"	"	5000	-	2.5	112	1.95
1.7	181	1.2	807.1	"	"	5000	-	2.1	138	1.6
1.4	225	0.98	969.9	"	"	5000	-	1.7	180	1.2
1.2	265	0.83	1142	"	"	5000	-	1.5	200	1.1
2.4	121	2.7	565.8	BG30G06-../D04LA4	21	6000	-	2.9	93	3.5
2.0	149	2.2	690.6	"	"	6000	-	2.4	117	2.8
1.8	169	1.9	760.7	"	"	6000	-	2.2	130	2.5
1.7	180	1.8	829.5	"	"	6000	-	2.0	146	2.2
1.4	225	1.45	996.8	"	"	6000	-	1.7	178	1.85
1.3	245	1.35	1088	"	"	6000	-	1.5	205	1.6
1.1	290	1.1	1280	"	"	6000	-	1.3	235	1.4
1.0	325	1.0	1404	"	"	6000	-	1.2	260	1.25

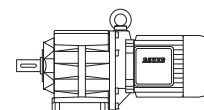
**P = 0.06 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
540	1.06	3.8	2.51	BG04-../D04LA4	4.4	340	-	650	0.88	4.5
370	1.54	3.2	3.65	"	"	390	-	445	1.28	3.9
310	1.84	3.8	4.39	"	"	380	-	370	1.54	4.5
255	2.2	4.1	5.36	"	"	380	-	305	1.87	4.8
205	2.75	3.6	6.67	"	"	410	-	245	2.3	4.3
158	3.6	3.1	8.58	"	"	410	-	189	3.0	3.7
150	3.8	3.2	9.00	"	"	470	-	180	3.15	3.8
137	4.15	3.1	9.90	"	"	480	-	164	3.45	3.8
125	4.55	3.1	10.82	"	"	480	-	150	3.8	3.7
114	5.0	3.0	11.90	"	"	490	-	137	4.15	3.6
108	5.3	2.8	12.55	"	"	490	-	130	4.4	3.4
103	5.5	2.9	13.20	"	"	500	-	123	4.65	3.4
93	6.1	2.8	14.52	"	"	510	-	112	5.1	3.3
83	6.9	2.6	16.44	"	"	530	-	99	5.7	3.2
75	7.6	2.4	18.08	"	"	540	-	90	6.3	2.9
64	8.9	2.1	21.12	"	"	560	-	77	7.4	2.6
59	9.7	2.1	23.23	"	"	600	-	70	8.1	2.5
56	10.2	1.95	24.45	"	"	610	-	67	8.5	2.4
51	11.2	1.8	26.89	"	"	650	-	61	9.3	2.2
44	13	1.55	30.91	"	"	690	-	53	10.8	1.85
40	14.3	1.4	34.00	"	"	720	-	48	11.9	1.7
38.5	14.8	1.35	35.35	"	"	730	-	46	12.4	1.6
35	16.3	1.25	38.89	"	"	750	-	42	13.6	1.45
32	17.9	1.1	42.24	"	"	750	-	38.5	14.8	1.35
29.5	19.4	1.05	46.47	"	"	750	-	35	16.3	1.25
28.5	20	1.0	47.52	"	"	750	-	34.5	16.6	1.2
26	22	0.91	52.28	"	"	750	-	31	18.4	1.1
25	22.5	0.89	54.97	"	"	750	-	29.5	19.4	1.05
22.5	25	0.8	60.47	"	"	750	-	27	21	0.95

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 0.06 kW



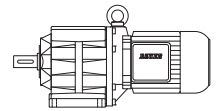
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
72	7.9	3.3	18.82	<b>BG05-../D04LA4</b>	5.1	680	-	87	6.5	4.0
66	8.6	3.1	20.53	"	"	700	-	79	7.2	3.8
57	10	2.8	24.00	"	"	740	-	68	8.4	3.3
52	11	2.6	26.18	"	"	760	-	62	9.2	3.2
49	11.6	2.6	27.82	"	"	770	-	59	9.7	3.1
44.5	12.8	2.3	30.35	"	"	760	-	54	10.6	2.8
39	14.6	2.1	35.00	"	"	810	-	46.5	12.3	2.4
35.5	16.1	1.85	38.18	"	"	850	-	42.5	13.4	2.2
34	16.8	1.8	39.94	"	"	860	-	41	13.9	2.2
31	18.4	1.65	43.57	"	"	900	-	37.5	15.2	1.95
29	19.7	1.5	47.00	"	"	930	-	34.5	16.6	1.8
26.5	21.5	1.4	51.27	"	"	970	-	32	17.9	1.7
25.5	22	1.35	53.44	"	"	980	-	30.5	18.7	1.6
23.5	24	1.25	58.30	"	"	1000	-	28	20	1.5
42	13.6	3.3	32.22	<b>BG06-../D04LA4</b>	6.1	890	-	51	11.2	4.0
38.5	14.8	3.0	35.15	"	"	880	-	46.5	12.3	3.7
37	15.4	2.9	36.91	"	"	890	-	44	13	3.5
34	16.8	2.7	40.26	"	"	890	-	40.5	14.1	3.2
29.5	19.4	2.3	46.19	"	"	890	-	35.5	16.1	2.8
27	21	2.1	50.38	"	"	940	-	32.5	17.6	2.6
26	22	2.0	52.56	"	"	950	-	31	18.4	2.4
24	23.5	1.9	57.34	"	"	1000	-	28.5	20	2.3
22.5	25	1.8	61.22	"	"	1020	-	26.5	21.5	2.1
20.5	27.5	1.65	66.79	"	"	1070	-	24.5	23	1.95
18	29.5	1.35	75.99	<b>BG06G04-../D04LA4</b>	8.4	1070	-	21.5	24.5	1.65
16.5	32	1.35	82.89	"	"	1070	-	20	26	1.65
15	35.5	1.25	93.00	"	"	1070	-	17.5	30	1.5
13.5	39.5	1.15	101.5	"	"	1070	-	16	33	1.35
11.5	45.5	0.99	122.0	"	"	1070	-	13.5	38.5	1.15
15	38	3.2	92.19	<b>BG10Z-../D06LA4</b>	14	2000	2800	18	31.5	3.8
13.5	42	2.9	102.1	"	"	2000	2800	16	35.5	3.4
12.5	45.5	2.6	109.8	"	"	2000	2800	15	38	3.2
11.5	49.5	2.4	121.7	"	"	2000	2800	13.5	42	2.9
10.5	54	2.2	131.8	"	"	2000	2800	12.5	45.5	2.6
9.3	61	1.95	146.0	"	"	2000	2800	11.5	49.5	2.4
8.2	69	1.75	166.0	"	"	2000	2800	9.8	58	2.1
7.4	77	1.55	184.0	"	"	2000	2800	8.9	64	1.9
7.0	81	1.5	194.6	"	"	2000	2800	8.4	68	1.75
6.3	90	1.35	215.7	"	"	2000	2800	7.6	75	1.6
5.7	100	1.2	240.4	"	"	2000	2800	6.8	84	1.45
5.1	112	1.05	266.3	"	"	2000	2800	6.1	93	1.3
4.9	116	1.05	276.0	"	"	2000	2800	5.9	97	1.25
4.5	127	0.94	305.8	"	"	2000	2800	5.3	108	1.1
4.1	107	1.2	332.0	<b>BG10G06-../D06LA4</b>	18	2000	2800	4.9	84	1.55
3.6	128	1.0	379.6	"	"	2000	2800	4.3	102	1.25
3.1	149	0.87	435.9	"	"	2000	2800	3.8	115	1.15
8.4	68	2.9	162.2	<b>BG20Z-../D06LA4</b>	16	5000	-	10	57	3.5
7.5	76	2.6	180.1	"	"	5000	-	9.0	63	3.2
6.8	84	2.4	199.9	"	"	5000	-	8.2	69	2.9
6.1	93	2.2	222.1	"	"	5000	-	7.3	78	2.6
5.5	77	2.9	248.0	<b>BG20G06-../D06LA4</b>	20	5000	-	6.6	60	3.7
4.6	95	2.3	297.9	"	"	5000	-	5.5	75	2.9
3.9	118	1.85	352.1	"	"	5000	-	4.7	93	2.4
3.5	132	1.65	391.1	"	"	5000	-	4.2	104	2.1
3.0	156	1.4	460.0	"	"	5000	-	3.6	125	1.75
2.5	192	1.15	550.6	"	"	5000	-	3.0	154	1.45
2.1	230	0.96	671.9	"	"	5000	-	2.5	188	1.15
6.0	95	3.2	225.9	<b>BG30Z-../D06LA4</b>	22	6000	-	7.2	79	3.8
5.2	110	2.7	261.9	"	"	6000	-	6.2	92	3.3
4.7	121	2.5	290.5	"	"	6000	-	5.6	102	2.9



# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

**P = 0.06 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
3.9	118	2.8	346.8	BG30G06-../D06LA4	25	6000	-	4.7	93	3.5
3.4	136	2.4	401.9	"	"	6000	-	4.1	107	3.0
2.9	162	2.0	472.8	"	"	6000	-	3.5	128	2.5
2.4	200	1.65	565.8	"	"	6000	-	2.9	159	2.0
2.0	240	1.35	690.6	"	"	6000	-	2.4	196	1.65
1.8	275	1.2	760.7	"	"	6000	-	2.2	215	1.5
1.7	290	1.1	829.5	"	"	6000	-	2.0	240	1.35
1.4	360	0.9	996.8	"	"	6000	-	1.7	290	1.1
1.3	390	0.83	1088	"	"	6000	-	1.5	330	0.98
2.2	147	3.2	640.0	BG40G10-../D06LA4	43	7000	-	2.6	107	4.3
1.9	176	2.6	710.9	"	"	7000	-	2.3	123	3.8
1.8	179	2.6	789.1	"	"	7000	-	2.1	133	3.5
1.4	255	1.8	965.2	"	"	7000	-	1.7	186	2.5
1.2	315	1.5	1225	"	"	7000	-	1.4	250	1.85
0.95	440	1.05	1459	"	"	7000	-	1.2	315	1.5
1.5	230	3.0	960.2	BG50G10-../D06LA4	51	10000	-	1.7	186	3.7
1.2	315	2.2	1219	"	"	10000	-	1.4	250	2.8
0.95	445	1.55	1452	"	"	10000	-	1.2	315	2.2
0.8	550	1.25	1729	"	"	10000	-	0.95	445	1.55
0.7	660	1.05	2076	"	"	10000	-	0.8	550	1.25
0.8	445	2.9	1741	BG60G20-../D06LA4	100	16000	-	0.95	330	3.9
0.75	490	2.7	1880	"	"	16000	-	0.9	365	3.6
0.65	610	2.1	2249	"	"	16000	-	0.75	490	2.7
0.48	920	1.4	2818	"	"	16000	-	0.6	680	1.9
0.42	1090	1.2	3234	"	"	16000	-	0.55	770	1.7
0.38	1230	1.05	3592	"	"	16000	-	0.46	970	1.35
0.49	930	2.7	2774	BG70G20-../D06LA4	130	20000	-	0.6	710	3.5
0.43	1090	2.3	3184	"	"	20000	-	0.55	800	3.1
0.35	1390	1.8	3925	"	"	20000	-	0.42	1120	2.2

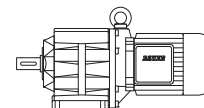
**P = 0.09 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
540	1.59	2.5	2.51	BG04-../D04LA4	4.4	340	-	650	1.32	3.0
370	2.3	2.2	3.65	"	"	390	-	445	1.93	2.6
310	2.75	2.5	4.39	"	"	380	-	370	2.3	3.0
255	3.35	2.7	5.36	"	"	380	-	305	2.8	3.2
205	4.15	2.4	6.67	"	"	410	-	245	3.5	2.9
158	5.4	2.0	8.58	"	"	410	-	189	4.5	2.4
150	5.7	2.1	9.00	"	"	470	-	180	4.75	2.5
137	6.2	2.1	9.90	"	"	480	-	164	5.2	2.5
125	6.8	2.1	10.82	"	"	480	-	150	5.7	2.5
114	7.5	2.0	11.90	"	"	490	-	137	6.2	2.4
108	7.9	1.9	12.55	"	"	490	-	130	6.6	2.3
103	8.3	1.95	13.20	"	"	500	-	123	6.9	2.3
93	9.2	1.85	14.52	"	"	510	-	112	7.6	2.2
83	10.3	1.75	16.44	"	"	530	-	99	8.6	2.1
75	11.4	1.6	18.08	"	"	540	-	90	9.5	1.9
64	13.4	1.4	21.12	"	"	560	-	77	11.1	1.7
59	14.5	1.4	23.23	"	"	600	-	70	12.2	1.65
56	15.3	1.3	24.45	"	"	610	-	67	12.8	1.55
51	16.8	1.2	26.89	"	"	650	-	61	14	1.45
44	19.5	1.05	30.91	"	"	690	-	53	16.2	1.25
40	21	0.95	34.00	"	"	720	-	48	17.9	1.1
38.5	22	0.91	35.35	"	"	730	-	46	18.6	1.1
35	24.5	0.82	38.89	"	"	750	-	42	20	1.0

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 0.09 kW

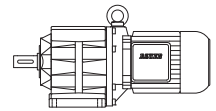


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
128	6.7	3.0	10.59	BG05-../D04LA4	5.1	590	-	153	5.6	3.6
117	7.3	2.9	11.55	"	"	600	-	141	6.0	3.5
113	7.6	2.8	12.05	"	"	510	-	135	6.3	3.3
108	7.9	2.8	12.60	"	"	610	-	129	6.6	3.3
99	8.6	2.7	13.75	"	"	630	-	118	7.2	3.2
89	9.6	2.5	15.23	"	"	640	-	107	8.0	3.0
82	10.4	2.4	16.62	"	"	660	-	98	8.7	2.9
72	11.9	2.2	18.82	"	"	680	-	87	9.8	2.7
66	13	2.1	20.53	"	"	700	-	79	10.8	2.5
57	15	1.85	24.00	"	"	740	-	68	12.6	2.2
52	16.5	1.75	26.18	"	"	760	-	62	13.8	2.1
49	17.5	1.7	27.82	"	"	770	-	59	14.5	2.1
44.5	19.3	1.55	30.35	"	"	760	-	54	15.9	1.9
39	22	1.35	35.00	"	"	810	-	46.5	18.4	1.65
35.5	24	1.25	38.18	"	"	850	-	42.5	20	1.5
34	25	1.2	39.94	"	"	860	-	41	20.5	1.45
31	27.5	1.1	43.57	"	"	900	-	37.5	22.5	1.35
29	29.5	1.0	47.00	"	"	930	-	34.5	24.5	1.2
26.5	32	0.94	51.27	"	"	970	-	32	26.5	1.15
25.5	33.5	0.9	53.44	"	"	980	-	30.5	28	1.05
23.5	36.5	0.82	58.30	"	"	1000	-	28	30.5	0.98
65	13.2	3.0	20.82	BG06-../D04LA4	6.1	800	-	78	11	3.6
60	14.3	3.0	22.71	"	"	810	-	72	11.9	3.6
53	16.2	2.8	25.48	"	"	850	-	64	13.4	3.4
49	17.5	2.6	27.80	"	"	840	-	59	14.5	3.1
42	20	2.3	32.22	"	"	890	-	51	16.8	2.7
38.5	22	2.0	35.15	"	"	880	-	46.5	18.4	2.4
37	23	1.95	36.91	"	"	890	-	44	19.5	2.3
34	25	1.8	40.26	"	"	890	-	40.5	21	2.1
29.5	29	1.55	46.19	"	"	890	-	35.5	24	1.9
27	31.5	1.45	50.38	"	"	940	-	32.5	26	1.75
26	33	1.35	52.56	"	"	950	-	31	27.5	1.65
24	35.5	1.25	57.34	"	"	1000	-	28.5	30	1.5
22.5	38	1.2	61.22	"	"	1020	-	26.5	32	1.4
20.5	41.5	1.1	66.79	"	"	1070	-	24.5	35	1.3
18	45.5	0.88	75.99	BG06G04-../D04LA4	8.4	1070	-	21.5	37.5	1.05
16.5	49.5	0.87	82.89	"	"	1070	-	20	40.5	1.05
15	54	0.83	93.00	"	"	1070	-	17.5	46.5	0.97
23.5	36.5	3.3	57.48	BG10-../D06LA4	13	2000	2800	28.5	30	4.0
21.5	39.5	3.0	63.69	"	"	2000	2800	25.5	33.5	3.6
20.5	41.5	2.9	66.00	"	"	2000	2800	25	34	3.5
18.5	46	2.6	73.13	"	"	2000	2800	22.5	38	3.2
17.5	49	2.4	77.40	BG10Z-../D06LA4	14	2000	2800	21	40.5	3.0
16	53	2.3	85.76	"	"	2000	2800	19	45	2.7
15	57	2.1	92.19	"	"	2000	2800	18	47.5	2.5
13.5	63	1.9	102.1	"	"	2000	2800	16	53	2.3
12.5	68	1.75	109.8	"	"	2000	2800	15	57	2.1
11.5	74	1.6	121.7	"	"	2000	2800	13.5	63	1.9
10.5	81	1.5	131.8	"	"	2000	2800	12.5	68	1.75
9.3	92	1.3	146.0	"	"	2000	2800	11.5	74	1.6
8.2	104	1.15	166.0	"	"	2000	2800	9.8	87	1.4
7.4	116	1.05	184.0	"	"	2000	2800	8.9	96	1.25
7.0	122	0.98	194.6	"	"	2000	2800	8.4	102	1.2
6.3	136	0.88	215.7	"	"	2000	2800	7.6	113	1.05
5.7	150	0.8	240.4	"	"	2000	2800	6.8	126	0.95
4.9	146	0.89	276.4	BG10G06-../D06LA4	18	2000	2800	5.9	116	1.1
13	66	3.0	104.7	BG20Z-../D06LA4	16	5000	-	15.5	55	3.6
12	71	2.8	112.8	"	"	5000	-	14.5	59	3.4
11	78	2.6	125.3	"	"	5000	-	13	66	3.0
9.6	89	2.2	141.3	"	"	5000	-	11.5	74	2.7
8.4	102	1.95	162.2	"	"	5000	-	10	85	2.4
7.5	114	1.75	180.1	"	"	5000	-	9.0	95	2.1
6.8	126	1.6	199.9	"	"	5000	-	8.2	104	1.9
6.1	140	1.45	222.1	"	"	5000	-	7.3	117	1.7

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

**P = 0.09 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
5.5	130	1.7	248.0	BG20G06-../D06LA4	20	5000	-	6.6	103	2.1
4.6	157	1.4	297.9	"	"	5000	-	5.5	127	1.75
3.9	192	1.15	352.1	"	"	5000	-	4.7	154	1.45
3.5	210	1.05	391.1	"	"	5000	-	4.2	173	1.25
3.0	250	0.88	460.0	"	"	5000	-	3.6	200	1.1
9.5	90	3.3	142.5	BG30Z-../D06LA4	22	6000	-	11.5	74	4.1
9.0	95	3.2	151.5	"	"	6000	-	11	78	3.8
8.1	106	2.8	168.1	"	"	6000	-	9.7	88	3.4
7.4	116	2.6	182.9	"	"	6000	-	8.9	96	3.1
6.7	128	2.3	202.9	"	"	6000	-	8.0	107	2.8
6.0	143	2.1	225.9	"	"	6000	-	7.2	119	2.5
5.2	165	1.8	261.9	"	"	6000	-	6.2	138	2.2
4.7	182	1.65	290.5	"	"	6000	-	5.6	153	1.95
4.5	161	2.0	306.2	BG30G06-../D06LA4	25	6000	-	5.3	132	2.5
3.9	192	1.7	346.8	"	"	6000	-	4.7	154	2.1
3.4	220	1.5	401.9	"	"	6000	-	4.1	177	1.85
2.9	260	1.25	472.8	"	"	6000	-	3.5	210	1.55
2.4	320	1.0	565.8	"	"	6000	-	2.9	255	1.25
2.0	385	0.84	690.6	"	"	6000	-	2.4	315	1.05
6.1	140	3.0	221.9	BG40Z-../D06LA4	38	7000	-	7.4	116	3.7
5.5	156	2.7	246.5	"	"	7000	-	6.6	130	3.3
5.0	171	2.5	273.6	"	"	7000	-	6.0	143	3.0
3.1	170	2.7	448.8	BG40G10-../D06LA4	43	7000	-	3.7	125	3.7
2.6	210	2.2	534.2	"	"	7000	-	3.1	160	2.9
2.2	275	1.7	640.0	"	"	7000	-	2.6	215	2.2
1.9	325	1.45	710.9	"	"	7000	-	2.3	245	1.9
1.8	335	1.4	789.1	"	"	7000	-	2.1	270	1.7
1.4	460	1.0	965.2	"	"	7000	-	1.7	350	1.35
1.2	550	0.85	1225	"	"	7000	-	1.4	455	1.0
2.6	210	3.3	531.5	BG50G10-../D06LA4	51	10000	-	3.1	161	4.3
2.2	280	2.5	621.3	"	"	10000	-	2.7	205	3.4
2.0	300	2.3	708.3	"	"	10000	-	2.3	245	2.8
1.8	335	2.1	785.1	"	"	10000	-	2.1	270	2.6
1.5	420	1.65	960.2	"	"	10000	-	1.7	355	1.95
1.2	550	1.25	1219	"	"	10000	-	1.4	455	1.5
1.3	420	3.1	1051	BG60G20-../D06LA4	100	16000	-	1.6	295	4.4
1.2	465	2.8	1168	"	"	16000	-	1.4	365	3.6
1.1	510	2.5	1346	"	"	16000	-	1.3	395	3.3
0.95	630	2.1	1496	"	"	16000	-	1.1	510	2.5
0.8	800	1.65	1741	"	"	16000	-	0.95	630	2.1
0.75	870	1.5	1880	"	"	16000	-	0.9	680	1.9
0.65	1050	1.25	2249	"	"	16000	-	0.75	870	1.5
0.85	770	3.2	1666	BG70G20-../D06LA4	130	20000	-	1.0	620	4.0
0.7	980	2.6	1994	"	"	20000	-	0.85	770	3.2
0.65	1080	2.3	2215	"	"	20000	-	0.75	900	2.8
0.49	1510	1.65	2774	"	"	20000	-	0.6	1190	2.1
0.43	1750	1.45	3184	"	"	20000	-	0.55	1320	1.9
0.35	2200	1.15	3925	"	"	20000	-	0.42	1800	1.4

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 0.12 kW

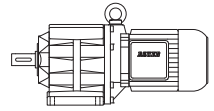


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
540	2.1	1.9	2.51	BG04-../D04LA4	4.4	340	-	650	1.76	2.3
370	3.05	1.65	3.65	"	"	390	-	445	2.55	1.95
310	3.65	1.9	4.39	"	"	380	-	370	3.05	2.3
255	4.45	2.0	5.36	"	"	380	-	305	3.75	2.4
205	5.5	1.8	6.67	"	"	410	-	245	4.65	2.2
158	7.2	1.55	8.58	"	"	410	-	189	6.0	1.85
150	7.6	1.6	9.00	"	"	470	-	180	6.3	1.9
137	8.3	1.55	9.90	"	"	480	-	164	6.9	1.9
125	9.1	1.55	10.82	"	"	480	-	150	7.6	1.85
114	10	1.5	11.90	"	"	490	-	137	8.3	1.8
108	10.6	1.4	12.55	"	"	490	-	130	8.8	1.7
103	11.1	1.45	13.20	"	"	500	-	123	9.3	1.7
93	12.3	1.4	14.52	"	"	510	-	112	10.2	1.65
83	13.8	1.3	16.44	"	"	530	-	99	11.5	1.55
75	15.2	1.2	18.08	"	"	540	-	90	12.7	1.4
64	17.9	1.05	21.12	"	"	560	-	77	14.8	1.3
59	19.4	1.05	23.23	"	"	600	-	70	16.3	1.25
56	20	1.0	24.45	"	"	610	-	67	17.1	1.15
51	22	0.91	26.89	"	"	650	-	61	18.7	1.05
295	3.85	3.1	4.59	BG05-../D04LA4	5.1	490	-	355	3.2	3.8
250	4.55	3.1	5.46	"	"	490	-	300	3.8	3.7
205	5.5	2.9	6.60	"	"	510	-	250	4.55	3.5
174	6.5	2.8	7.80	"	"	530	-	210	5.4	3.3
166	6.9	2.6	8.15	"	"	510	-	199	5.7	3.2
159	7.2	2.6	8.51	"	"	550	-	191	6.0	3.2
128	8.9	2.2	10.59	"	"	590	-	153	7.4	2.7
117	9.7	2.2	11.55	"	"	600	-	141	8.1	2.6
113	10.1	2.1	12.05	"	"	510	-	135	8.4	2.5
108	10.6	2.1	12.60	"	"	610	-	129	8.8	2.5
99	11.5	2.0	13.75	"	"	630	-	118	9.7	2.4
89	12.8	1.9	15.23	"	"	640	-	107	10.7	2.2
82	13.9	1.8	16.62	"	"	660	-	98	11.6	2.2
72	15.9	1.65	18.82	"	"	680	-	87	13.1	2.0
66	17.3	1.55	20.53	"	"	700	-	79	14.5	1.85
57	20	1.4	24.00	"	"	740	-	68	16.8	1.65
52	22	1.3	26.18	"	"	760	-	62	18.4	1.6
49	23	1.3	27.82	"	"	770	-	59	19.4	1.55
44.5	25.5	1.2	30.35	"	"	760	-	54	21	1.45
39	29	1.05	35.00	"	"	810	-	46.5	24.5	1.2
35.5	32	0.94	38.18	"	"	850	-	42.5	26.5	1.15
34	33.5	0.9	39.94	"	"	860	-	41	27.5	1.1
31	36.5	0.82	43.57	"	"	900	-	37.5	30.5	0.98
110	10.4	3.2	12.30	BG06-../D04LA4	6.1	670	-	132	8.6	3.8
105	10.9	3.0	12.98	"	"	600	-	125	9.1	3.6
92	12.4	2.7	14.78	"	"	730	-	110	10.4	3.3
84	13.6	2.6	16.13	"	"	740	-	101	11.3	3.1
78	14.6	2.6	17.40	"	"	760	-	94	12.1	3.1
72	15.9	2.5	18.98	"	"	770	-	86	13.3	3.0
65	17.6	2.3	20.82	"	"	800	-	78	14.6	2.7
60	19.1	2.3	22.71	"	"	810	-	72	15.9	2.7
53	21.5	2.1	25.48	"	"	850	-	64	17.9	2.5
49	23	1.95	27.80	"	"	840	-	59	19.4	2.3
42	27	1.65	32.22	"	"	890	-	51	22	2.0
38.5	29.5	1.55	35.15	"	"	880	-	46.5	24.5	1.85
37	30.5	1.5	36.91	"	"	890	-	44	26	1.75
34	33.5	1.35	40.26	"	"	890	-	40.5	28	1.6
29.5	38.5	1.15	46.19	"	"	890	-	35.5	32	1.4
27	42	1.05	50.38	"	"	940	-	32.5	35	1.3
26	44	1.0	52.56	"	"	950	-	31	36.5	1.25
24	47.5	0.95	57.34	"	"	1000	-	28.5	40	1.15
22.5	50	0.9	61.22	"	"	1020	-	26.5	43	1.05
20.5	55	0.82	66.79	"	"	1070	-	24.5	46.5	0.97

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

P = 0.12 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
31	36.5	3.3	43.99	BG10-../D06LA4	13	1880	2600	37	30.5	3.9
29.5	38.5	3.1	46.55	"	"	1920	2650	35	32.5	3.7
26.5	43	2.8	51.57	"	"	2000	2800	31.5	36	3.3
23.5	48.5	2.5	57.48	"	"	2000	2800	28.5	40	3.0
21.5	53	2.3	63.69	"	"	2000	2800	25.5	44.5	2.7
20.5	55	2.2	66.00	"	"	2000	2800	25	45.5	2.6
18.5	61	1.95	73.13	"	"	2000	2800	22.5	50	2.4
17.5	65	1.85	77.40	BG10Z-../D06LA4	14	2000	2800	21	54	2.2
16	71	1.7	85.76	"	"	2000	2800	19	60	2.0
15	76	1.6	92.19	"	"	2000	2800	18	63	1.9
13.5	84	1.45	102.1	"	"	2000	2800	16	71	1.7
12.5	91	1.3	109.8	"	"	2000	2800	15	76	1.6
11.5	99	1.2	121.7	"	"	2000	2800	13.5	84	1.45
10.5	109	1.1	131.8	"	"	2000	2800	12.5	91	1.3
9.3	123	0.98	146.0	"	"	2000	2800	11.5	99	1.2
8.2	139	0.86	166.0	"	"	2000	2800	9.8	116	1.05
7.0	143	0.91	194.9	BG10G06-../D06LA4	18	2000	2800	8.4	115	1.15
17.5	65	3.1	78.60	BG20Z-../D06LA4	16	5000	-	21	54	3.7
15.5	73	2.7	87.30	"	"	5000	-	19	60	3.3
14.5	79	2.5	94.27	"	"	5000	-	17.5	65	3.1
13	88	2.3	104.7	"	"	5000	-	15.5	73	2.7
12	95	2.1	112.8	"	"	5000	-	14.5	79	2.5
11	104	1.9	125.3	"	"	5000	-	13	88	2.3
9.6	119	1.7	141.3	"	"	5000	-	11.5	99	2.0
8.4	136	1.45	162.2	"	"	5000	-	10	114	1.75
7.5	152	1.3	180.1	"	"	5000	-	9.0	127	1.55
6.8	168	1.2	199.9	"	"	5000	-	8.2	139	1.45
6.1	187	1.05	222.1	"	"	5000	-	7.3	156	1.3
5.5	182	1.2	248.0	BG20G06-../D06LA4	20	5000	-	6.6	147	1.5
4.6	220	1.0	297.9	"	"	5000	-	5.5	179	1.25
3.9	265	0.83	352.1	"	"	5000	-	4.7	215	1.0
12.5	91	3.3	109.6	BG30Z-../D06LA4	22	6000	-	15	76	3.9
11.5	99	3.0	121.6	"	"	6000	-	13.5	84	3.6
11	104	2.9	128.5	"	"	6000	-	13	88	3.4
9.5	120	2.5	142.5	"	"	6000	-	11.5	99	3.0
9.0	127	2.4	151.5	"	"	6000	-	11	104	2.9
8.1	141	2.1	168.1	"	"	6000	-	9.7	118	2.5
7.4	154	1.95	182.9	"	"	6000	-	8.9	128	2.3
6.7	171	1.75	202.9	"	"	6000	-	8.0	143	2.1
6.0	191	1.55	225.9	"	"	6000	-	7.2	159	1.9
5.2	220	1.35	261.9	"	"	6000	-	6.2	184	1.65
4.7	240	1.25	290.5	"	"	6000	-	5.6	200	1.5
4.5	220	1.5	306.2	BG30G06-../D06LA4	25	6000	-	5.3	186	1.75
3.9	265	1.25	346.8	"	"	6000	-	4.7	215	1.5
3.4	300	1.1	401.9	"	"	6000	-	4.1	245	1.35
2.9	360	0.9	472.8	"	"	6000	-	3.5	290	1.1
8.7	131	3.2	156.9	BG40Z-../D06LA4	38	7000	-	10.5	109	3.9
8.2	139	3.1	166.1	"	"	7000	-	9.8	116	3.7
7.4	154	2.8	184.4	"	"	7000	-	8.8	130	3.3
6.8	168	2.5	199.9	"	"	7000	-	8.2	139	3.1
6.1	187	2.3	221.9	"	"	7000	-	7.4	154	2.8
5.5	205	2.1	246.5	"	"	7000	-	6.6	173	2.5
5.0	225	1.9	273.6	"	"	7000	-	6.0	191	2.2
4.7	153	3.0	288.6	BG40G10-../D06LA4	43	7000	-	5.7	111	4.2
3.9	194	2.4	353.5	"	"	7000	-	4.6	149	3.1
3.1	260	1.8	448.8	"	"	7000	-	3.7	200	2.3
2.6	320	1.45	534.2	"	"	7000	-	3.1	250	1.85
2.2	405	1.15	640.0	"	"	7000	-	2.6	325	1.45
1.9	475	0.98	710.9	"	"	7000	-	2.3	370	1.25
1.8	495	0.94	789.1	"	"	7000	-	2.1	405	1.15

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 0.12 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
6.0	191	3.3	226.9	BG50Z-../D06LA4	47	10000	-	7.2	159	4.0
5.3	215	2.9	258.6	"	"	10000	-	6.3	181	3.5
4.8	235	2.7	286.7	"	"	10000	-	5.7	200	3.2
3.1	260	2.7	446.5	BG50G10-../D06LA4	51	10000	-	3.7	200	3.5
2.6	320	2.2	531.5	"	"	10000	-	3.1	250	2.8
2.2	410	1.7	621.3	"	"	10000	-	2.7	310	2.2
2.0	445	1.55	708.3	"	"	10000	-	2.3	370	1.85
1.8	495	1.4	785.1	"	"	10000	-	2.1	405	1.7
1.5	610	1.15	960.2	"	"	10000	-	1.7	520	1.35
1.2	790	0.87	1219	"	"	10000	-	1.4	660	1.05
1.7	470	2.8	804.5	BG60G20-../D06LA4	100	16000	-	2.1	340	3.8
1.6	490	2.7	891.5	"	"	16000	-	1.9	375	3.5
1.3	640	2.0	1051	"	"	16000	-	1.6	475	2.7
1.2	700	1.85	1168	"	"	16000	-	1.4	570	2.3
1.1	770	1.7	1346	"	"	16000	-	1.3	610	2.1
0.95	930	1.4	1496	"	"	16000	-	1.1	770	1.7
0.8	1160	1.1	1741	"	"	16000	-	0.95	930	1.4
0.75	1250	1.05	1880	"	"	16000	-	0.9	1000	1.3
1.0	900	2.8	1389	BG70G20-../D06LA4	130	20000	-	1.2	710	3.5
0.9	1030	2.4	1543	"	"	20000	-	1.1	800	3.1
0.85	1100	2.3	1666	"	"	20000	-	1.0	900	2.8
0.7	1390	1.8	1994	"	"	20000	-	0.85	1100	2.3
0.65	1520	1.65	2215	"	"	20000	-	0.75	1280	1.95
0.49	2050	1.2	2774	"	"	20000	-	0.6	1670	1.5
0.43	2400	1.05	3184	"	"	20000	-	0.55	1840	1.35

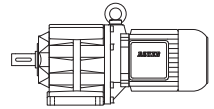
P = 0.18 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
520	3.3	2.7	2.64	BG05-../D05LA4	7.0	420	-	620	2.75	3.3
400	4.25	2.4	3.38	"	"	460	-	480	3.55	2.8
295	5.8	2.1	4.59	"	"	490	-	355	4.8	2.5
250	6.8	2.1	5.46	"	"	490	-	300	5.7	2.5
205	8.3	1.95	6.60	"	"	510	-	250	6.8	2.4
174	9.8	1.85	7.80	"	"	530	-	210	8.1	2.2
166	10.3	1.75	8.15	"	"	510	-	199	8.6	2.1
159	10.8	1.75	8.51	"	"	550	-	191	9.0	2.1
128	13.4	1.5	10.59	"	"	590	-	153	11.2	1.8
117	14.6	1.45	11.55	"	"	600	-	141	12.1	1.75
113	15.2	1.4	12.05	"	"	510	-	135	12.7	1.65
108	15.9	1.4	12.60	"	"	610	-	129	13.3	1.65
99	17.3	1.35	13.75	"	"	630	-	118	14.5	1.6
89	19.3	1.25	15.23	"	"	640	-	107	16	1.5
82	20.5	1.2	16.62	"	"	660	-	98	17.5	1.45
72	23.5	1.1	18.82	"	"	680	-	87	19.7	1.3
66	26	1.05	20.53	"	"	700	-	79	21.5	1.25
57	30	0.93	24.00	"	"	740	-	68	25	1.1
52	33	0.88	26.18	"	"	760	-	62	27.5	1.05
49	35	0.86	27.82	"	"	770	-	59	29	1.05
230	7.4	3.2	5.96	BG06-../D05LA4	8.0	570	-	275	6.2	3.9
193	8.9	2.9	7.01	"	"	580	-	235	7.3	3.6
161	10.6	2.6	8.39	"	"	600	-	194	8.8	3.2
144	11.9	2.5	9.38	"	"	640	-	173	9.9	3.0
132	13	2.4	10.24	"	"	640	-	159	10.8	2.9
120	14.3	2.2	11.28	"	"	670	-	144	11.9	2.7
110	15.6	2.1	12.30	"	"	670	-	132	13	2.5
105	16.3	2.0	12.98	"	"	600	-	125	13.7	2.4
92	18.6	1.85	14.78	"	"	730	-	110	15.6	2.2
84	20	1.75	16.13	"	"	740	-	101	17	2.1

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

P = 0.18 kW

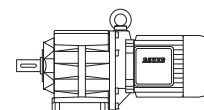


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
78	22	1.75	17.40	BG06-../D05LA4	"	760	-	94	18.2	2.1
72	23.5	1.7	18.98	"	"	770	-	86	19.9	2.0
65	26	1.55	20.82	"	"	800	-	78	22	1.8
60	28.5	1.5	22.71	"	"	810	-	72	23.5	1.85
53	32	1.4	25.48	"	"	850	-	64	26.5	1.7
49	35	1.3	27.80	"	"	840	-	59	29	1.55
42	40.5	1.1	32.22	"	"	890	-	51	33.5	1.35
38.5	44.5	1.0	35.15	"	"	880	-	46.5	36.5	1.25
37	46	0.98	36.91	"	"	890	-	44	39	1.15
34	50	0.9	40.26	"	"	890	-	40.5	42	1.05
46.5	36.5	3.3	29.09	BG10-../D06LA4	13	1540	2150	56	30.5	3.9
43	39.5	3.0	31.52	"	"	1600	2200	52	33	3.6
39	44	2.7	34.92	"	"	1690	2350	46.5	36.5	3.3
34.5	49.5	2.4	39.70	"	"	1780	2450	41	41.5	2.9
31	55	2.2	43.99	"	"	1880	2600	37	46	2.6
29.5	58	2.1	46.55	"	"	1920	2650	35	49	2.4
26.5	64	1.9	51.57	"	"	2000	2800	31.5	54	2.2
23.5	73	1.65	57.48	"	"	2000	2800	28.5	60	2.0
21.5	79	1.5	63.69	"	"	2000	2800	25.5	67	1.8
20.5	83	1.45	66.00	"	"	2000	2800	25	68	1.75
18.5	92	1.3	73.13	"	"	2000	2800	22.5	76	1.6
17.5	98	1.2	77.40	BG10Z-../D06LA4	14	2000	2800	21	81	1.5
16	107	1.1	85.76	"	"	2000	2800	19	90	1.35
15	114	1.05	92.19	"	"	2000	2800	18	95	1.25
13.5	127	0.94	102.1	"	"	2000	2800	16	107	1.1
12.5	137	0.88	109.8	"	"	2000	2800	15	114	1.05
11.5	149	0.81	121.7	"	"	2000	2800	13.5	127	0.94
36	47.5	3.2	37.90	BG15-../D06LA4	13	3000	6000	43	39.5	3.8
28.5	60	3.3	47.92	BG20-../D06LA4	16	4750	-	34	50	4.0
25.5	67	3.0	53.22	"	"	4950	-	30.5	56	3.6
23	74	2.7	59.07	"	"	5000	-	27.5	62	3.2
21	81	2.5	65.62	"	"	5000	-	25	68	2.9
20	85	2.4	67.53	BG20Z-../D06LA4	16	5000	-	24	71	2.8
17.5	98	2.0	78.60	"	"	5000	-	21	81	2.5
15.5	110	1.8	87.30	"	"	5000	-	19	90	2.2
14.5	118	1.7	94.27	"	"	5000	-	17.5	98	2.0
13	132	1.5	104.7	"	"	5000	-	15.5	110	1.8
12	143	1.4	112.8	"	"	5000	-	14.5	118	1.7
11	156	1.3	125.3	"	"	5000	-	13	132	1.5
9.6	179	1.1	141.3	"	"	5000	-	11.5	149	1.35
8.4	200	1.0	162.2	"	"	5000	-	10	171	1.15
7.5	225	0.89	180.1	"	"	5000	-	9.0	191	1.05
6.8	250	0.8	199.9	"	"	5000	-	8.2	205	0.98
21	81	3.3	65.79	BG30Z-../D06LA4	22	6000	-	25	68	3.9
18.5	92	3.3	73.51	"	"	6000	-	22.5	76	3.9
17	101	3.0	81.55	"	"	6000	-	20	85	3.5
16	107	2.8	86.13	"	"	6000	-	19	90	3.3
14.5	118	2.5	95.55	"	"	6000	-	17	101	3.0
12.5	137	2.2	109.6	"	"	6000	-	15	114	2.6
11.5	149	2.0	121.6	"	"	6000	-	13.5	127	2.4
11	156	1.9	128.5	"	"	6000	-	13	132	2.3
9.5	180	1.65	142.5	"	"	6000	-	11.5	149	2.0
9.0	191	1.55	151.5	"	"	6000	-	11	156	1.9
8.1	210	1.45	168.1	"	"	6000	-	9.7	177	1.7
7.4	230	1.3	182.9	"	"	6000	-	8.9	193	1.55
6.7	255	1.2	202.9	"	"	6000	-	8.0	210	1.45
6.0	285	1.05	225.9	"	"	6000	-	7.2	235	1.3
5.2	330	0.91	261.9	"	"	6000	-	6.2	275	1.1
4.7	365	0.82	290.5	"	"	6000	-	5.6	305	0.98
4.5	350	0.93	306.2	BG30G06-../D06LA4	25	6000	-	5.3	290	1.1

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 0.18 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
13	132	3.2	107.5	BG40Z-../D06LA4	38	7000	-	15.5	110	3.9
11.5	149	2.9	121.3	"	"	7000	-	13.5	127	3.3
10.5	163	2.6	134.6	"	"	7000	-	12.5	137	3.1
9.6	179	2.4	141.4	"	"	7000	-	11.5	149	2.9
8.7	197	2.2	156.9	"	"	7000	-	10.5	163	2.6
8.2	205	2.1	166.1	"	"	7000	-	9.8	175	2.4
7.4	230	1.85	184.4	"	"	7000	-	8.8	195	2.2
6.8	250	1.7	199.9	"	"	7000	-	8.2	205	2.1
6.1	280	1.5	221.9	"	"	7000	-	7.4	230	1.85
5.5	310	1.35	246.5	"	"	7000	-	6.6	260	1.65
5.0	340	1.25	273.6	"	"	7000	-	6.0	285	1.5
4.7	275	1.7	288.6	BG40G10-../D06LA4	43	7000	-	5.7	210	2.2
3.9	340	1.35	353.5	"	"	7000	-	4.6	270	1.7
3.1	445	1.05	448.8	"	"	7000	-	3.7	355	1.3
2.6	540	0.86	534.2	"	"	7000	-	3.1	435	1.05
8.2	205	3.1	164.9	BG50Z-../D06LA4	47	10000	-	9.9	173	3.6
7.4	230	2.7	182.8	"	"	10000	-	8.9	193	3.3
6.6	260	2.4	204.7	"	"	10000	-	8.0	210	3.0
6.0	285	2.2	226.9	"	"	10000	-	7.2	235	2.7
5.3	320	1.95	258.6	"	"	10000	-	6.3	270	2.3
4.8	355	1.75	286.7	"	"	10000	-	5.7	300	2.1
3.9	340	2.0	351.7	BG50G10-../D06LA4	51	10000	-	4.7	265	2.6
3.1	445	1.55	446.5	"	"	10000	-	3.7	355	1.95
2.6	540	1.3	531.5	"	"	10000	-	3.1	435	1.6
2.2	670	1.05	621.3	"	"	10000	-	2.7	520	1.35
2.0	730	0.95	708.3	"	"	10000	-	2.3	620	1.1
1.8	810	0.85	785.1	"	"	10000	-	2.1	680	1.0
2.7	485	2.7	504.9	BG60G20-../D06LA4	100	16000	-	3.3	370	3.5
2.5	520	2.5	559.5	"	"	16000	-	2.9	425	3.1
2.1	650	2.0	651.3	"	"	16000	-	2.5	520	2.5
1.7	800	1.65	804.5	"	"	16000	-	2.1	610	2.1
1.6	840	1.55	891.5	"	"	16000	-	1.9	670	1.95
1.3	1080	1.2	1051	"	"	16000	-	1.6	830	1.55
1.2	1180	1.1	1168	"	"	16000	-	1.4	980	1.35
1.1	1290	1.0	1346	"	"	16000	-	1.3	1050	1.25
1.8	750	3.3	790.2	BG70G20-../D06LA4	130	20000	-	2.1	610	4.1
1.6	860	2.9	877.6	"	"	20000	-	1.9	690	3.6
1.4	1000	2.5	1035	"	"	20000	-	1.6	850	2.9
1.2	1190	2.1	1193	"	"	20000	-	1.4	990	2.5
1.0	1470	1.7	1389	"	"	20000	-	1.2	1190	2.1
0.9	1670	1.5	1543	"	"	20000	-	1.1	1320	1.9
0.85	1780	1.4	1666	"	"	20000	-	1.0	1470	1.7
0.7	2200	1.15	1994	"	"	20000	-	0.85	1780	1.4
0.65	2400	1.05	2215	"	"	20000	-	0.75	2050	1.2

P = 0.25 kW

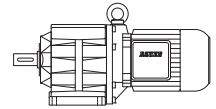
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
520	4.55	2.0	2.64	BG05-../D05LA4	7.0	420	-	620	3.85	2.3
400	5.9	1.7	3.38	"	"	460	-	480	4.95	2.0
295	8.0	1.5	4.59	"	"	490	-	355	6.7	1.8
250	9.5	1.45	5.46	"	"	490	-	300	7.9	1.75
205	11.6	1.4	6.60	"	"	510	-	250	9.5	1.7
174	13.7	1.3	7.80	"	"	530	-	210	11.3	1.6
166	14.3	1.25	8.15	"	"	510	-	199	11.9	1.5
159	15	1.25	8.51	"	"	550	-	191	12.5	1.5
128	18.6	1.1	10.59	"	"	590	-	153	15.6	1.3
117	20	1.05	11.55	"	"	600	-	141	16.9	1.25



# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

P = 0.25 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
113	21	1.0	12.05	BG05-../D05LA4	"	510	-	135	17.6	1.2
108	22	1.0	12.60	"	"	610	-	129	18.5	1.2
99	24	0.96	13.75	"	"	630	-	118	20	1.15
89	26.5	0.91	15.23	"	"	640	-	107	22	1.1
82	29	0.86	16.62	"	"	660	-	98	24	1.05
360	6.6	3.0	3.78	BG06-../D05LA4	8.0	520	-	430	5.5	3.6
300	7.9	2.8	4.54	"	"	530	-	360	6.6	3.3
230	10.3	2.3	5.96	"	"	570	-	275	8.6	2.8
193	12.3	2.1	7.01	"	"	580	-	235	10.1	2.6
161	14.8	1.9	8.39	"	"	600	-	194	12.3	2.3
144	16.5	1.8	9.38	"	"	640	-	173	13.8	2.2
132	18	1.7	10.24	"	"	640	-	159	15	2.1
120	19.8	1.6	11.28	"	"	670	-	144	16.5	1.95
110	21.5	1.55	12.30	"	"	670	-	132	18	1.85
105	22.5	1.45	12.98	"	"	600	-	125	19.1	1.75
92	25.5	1.35	14.78	"	"	730	-	110	21.5	1.6
84	28	1.25	16.13	"	"	740	-	101	23.5	1.5
78	30.5	1.25	17.40	"	"	760	-	94	25	1.5
72	33	1.2	18.98	"	"	770	-	86	27.5	1.45
65	36.5	1.1	20.82	"	"	800	-	78	30.5	1.3
60	39.5	1.1	22.71	"	"	810	-	72	33	1.3
53	45	1.0	25.48	"	"	850	-	64	37	1.2
49	48.5	0.93	27.80	"	"	840	-	59	40	1.15
42	56	0.8	32.22	"	"	890	-	51	46.5	0.97
66	36	3.3	20.51	BG10-../D06LA4	13	1290	1800	79	30	4.0
62	38.5	3.1	22.04	"	"	1330	1860	74	32	3.8
56	42.5	2.8	24.42	"	"	1410	1970	67	35.5	3.4
52	45.5	2.6	26.26	"	"	1460	2000	62	38.5	3.1
46.5	51	2.4	29.09	"	"	1540	2150	56	42.5	2.8
43	55	2.2	31.52	"	"	1600	2200	52	45.5	2.6
39	61	1.95	34.92	"	"	1690	2350	46.5	51	2.4
34.5	69	1.75	39.70	"	"	1780	2450	41	58	2.1
31	77	1.55	43.99	"	"	1880	2600	37	64	1.9
29.5	80	1.5	46.55	"	"	1920	2650	35	68	1.75
26.5	90	1.35	51.57	"	"	2000	2800	31.5	75	1.6
23.5	101	1.2	57.48	"	"	2000	2800	28.5	83	1.45
21.5	111	1.1	63.69	"	"	2000	2800	25.5	93	1.3
20.5	116	1.05	66.00	"	"	2000	2800	25	95	1.25
18.5	129	0.93	73.13	"	"	2000	2800	22.5	106	1.15
17.5	136	0.88	77.40	BG10Z-../D06LA4	14	2000	2800	21	113	1.05
16	149	0.81	85.76	"	"	2000	2800	19	125	0.96
50	47.5	3.2	27.08	BG15-../D06LA4	13	3000	6000	60	39.5	3.8
45	53	2.8	30.08	"	"	3000	6000	54	44	3.4
39.5	60	2.5	34.20	"	"	3000	6000	47.5	50	3.0
36	66	2.3	37.90	"	"	3000	6000	43	55	2.7
36.5	65	3.1	37.02	BG20-../D06LA4	16	4300	-	44	54	3.7
32.5	73	2.7	41.76	"	"	4500	-	39	61	3.3
29.5	80	2.5	46.38	"	"	4700	-	35	68	2.9
28.5	83	2.4	47.92	"	"	4750	-	34	70	2.9
25.5	93	2.2	53.22	"	"	4950	-	30.5	78	2.6
23	103	1.95	59.07	"	"	5000	-	27.5	86	2.3
21	113	1.75	65.62	"	"	5000	-	25	95	2.1
20	119	1.7	67.53	BG20Z-../D06LA4	16	5000	-	24	99	2.0
17.5	136	1.45	78.60	"	"	5000	-	21	113	1.75
15.5	154	1.3	87.30	"	"	5000	-	19	125	1.6
14.5	164	1.2	94.27	"	"	5000	-	17.5	136	1.45
13	183	1.1	104.7	"	"	5000	-	15.5	154	1.3
12	198	1.0	112.8	"	"	5000	-	14.5	164	1.2
11	215	0.93	125.3	"	"	5000	-	13	183	1.1
9.6	245	0.82	141.3	"	"	5000	-	11.5	205	0.98

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 0.25 kW



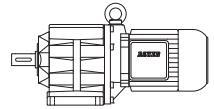
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
26	91	3.3	52.44	BG30-../D06LA4	20	6000	-	31	77	3.9
23.5	101	3.0	58.18	"	"	6000	-	28	85	3.5
22.5	106	2.8	60.79	"	"	6000	-	27	88	3.4
20.5	116	2.6	67.44	"	"	6000	-	24.5	97	3.1
18.5	129	2.3	73.51	BG30Z-../D06LA4	22	6000	-	22.5	106	2.8
17	140	2.1	81.55	"	"	6000	-	20	119	2.5
16	149	2.0	86.13	"	"	6000	-	19	125	2.4
14.5	164	1.85	95.55	"	"	6000	-	17	140	2.1
12.5	191	1.55	109.6	"	"	6000	-	15	159	1.9
11.5	205	1.45	121.6	"	"	6000	-	13.5	176	1.7
11	215	1.4	128.5	"	"	6000	-	13	183	1.65
9.5	250	1.2	142.5	"	"	6000	-	11.5	205	1.45
9.0	265	1.15	151.5	"	"	6000	-	11	215	1.4
8.1	290	1.05	168.1	"	"	6000	-	9.7	245	1.2
7.4	320	0.94	182.9	"	"	6000	-	8.9	265	1.15
6.7	355	0.85	202.9	"	"	6000	-	8.0	295	1.0
18	132	3.2	75.19	BG40Z-../D06LA4	38	7000	-	22	108	3.9
16.5	144	3.0	82.00	"	"	7000	-	20	119	3.6
15	159	2.7	91.02	"	"	7000	-	18	132	3.2
14	170	2.5	96.86	"	"	7000	-	17	140	3.0
13	183	2.3	107.5	"	"	7000	-	15.5	154	2.8
11.5	205	2.1	121.3	"	"	7000	-	13.5	176	2.4
10.5	225	1.9	134.6	"	"	7000	-	12.5	191	2.2
9.6	245	1.75	141.4	"	"	7000	-	11.5	205	2.1
8.7	270	1.55	156.9	"	"	7000	-	10.5	225	1.9
8.2	290	1.45	166.1	"	"	7000	-	9.8	240	1.75
7.4	320	1.35	184.4	"	"	7000	-	8.8	270	1.55
6.8	350	1.2	199.9	"	"	7000	-	8.2	290	1.45
6.1	390	1.1	221.9	"	"	7000	-	7.4	320	1.35
5.5	430	0.99	246.5	"	"	7000	-	6.6	360	1.2
5.0	475	0.89	273.6	"	"	7000	-	6.0	395	1.1
4.7	415	1.1	288.6	BG40G10-../D06LA4	43	7000	-	5.7	325	1.45
3.9	510	0.91	353.5	"	"	7000	-	4.6	415	1.1
10.5	225	2.8	128.9	BG50Z-../D06LA4	47	10000	-	13	183	3.4
9.5	250	2.5	142.9	"	"	10000	-	11.5	205	3.1
8.2	290	2.2	164.9	"	"	10000	-	9.9	240	2.6
7.4	320	1.95	182.8	"	"	10000	-	8.9	265	2.4
6.6	360	1.75	204.7	"	"	10000	-	8.0	295	2.1
6.0	395	1.6	226.9	"	"	10000	-	7.2	330	1.9
5.3	450	1.4	258.6	"	"	10000	-	6.3	375	1.7
4.8	495	1.25	286.7	"	"	10000	-	5.7	415	1.5
3.9	510	1.35	351.7	BG50G10-../D06LA4	51	10000	-	4.7	405	1.7
3.1	660	1.05	446.5	"	"	10000	-	3.7	530	1.3
2.6	800	0.86	531.5	"	"	10000	-	3.1	650	1.05
4.5	400	3.3	306.1	BG60G20-../D06LA4	100	16000	-	5.3	320	4.1
4.1	440	3.0	334.3	"	"	16000	-	4.9	345	3.8
3.7	490	2.7	370.5	"	"	16000	-	4.4	385	3.4
3.1	600	2.2	437.3	"	"	16000	-	3.8	460	2.8
2.7	730	1.8	504.9	"	"	16000	-	3.3	570	2.3
2.5	790	1.65	559.5	"	"	16000	-	2.9	650	2.0
2.1	970	1.35	651.3	"	"	16000	-	2.5	790	1.65
1.7	1200	1.1	804.5	"	"	16000	-	2.1	930	1.4
1.6	1260	1.05	891.5	"	"	16000	-	1.9	1030	1.25
1.3	1590	0.82	1051	"	"	16000	-	1.6	1250	1.05
2.4	840	3.0	577.3	BG70G20-../D06LA4	130	20000	-	2.9	670	3.7
2.1	960	2.6	665.8	"	"	20000	-	2.5	780	3.2
1.8	1120	2.2	790.2	"	"	20000	-	2.1	930	2.7
1.6	1280	1.95	877.6	"	"	20000	-	1.9	1050	2.4
1.4	1480	1.7	1035	"	"	20000	-	1.6	1270	1.95
1.2	1750	1.45	1193	"	"	20000	-	1.4	1470	1.7
1.0	2100	1.2	1389	"	"	20000	-	1.2	1750	1.45
0.9	2400	1.05	1543	"	"	20000	-	1.1	1930	1.3

6

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

P = 0.3 kW

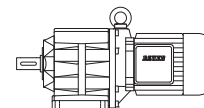


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
520	5.5	1.65	2.64	BG05-../D07LA4	11	420	-	620	4.6	1.95
400	7.1	1.4	3.38	"	"	460	-	480	5.9	1.7
295	9.7	1.25	4.59	"	"	490	-	355	8.0	1.5
250	11.4	1.25	5.46	"	"	490	-	300	9.5	1.45
205	13.9	1.15	6.60	"	"	510	-	250	11.4	1.4
174	16.4	1.1	7.80	"	"	530	-	210	13.6	1.3
166	17.2	1.05	8.15	"	"	510	-	199	14.3	1.25
159	18	1.05	8.51	"	"	550	-	191	15	1.25
128	22	0.91	10.59	"	"	590	-	153	18.7	1.05
117	24	0.88	11.55	"	"	600	-	141	20	1.05
113	25	0.84	12.05	"	"	510	-	135	21	1.0
108	26.5	0.83	12.60	"	"	610	-	129	22	1.0
99	28.5	0.81	13.75	"	"	630	-	118	24	0.96
360	7.9	2.5	3.78	BG06-../D07LA4	12	520	-	430	6.6	3.0
300	9.5	2.3	4.54	"	"	530	-	360	7.9	2.8
230	12.4	1.95	5.96	"	"	570	-	275	10.4	2.3
193	14.8	1.75	7.01	"	"	580	-	235	12.1	2.1
161	17.7	1.6	8.39	"	"	600	-	194	14.7	1.9
144	19.8	1.5	9.38	"	"	640	-	173	16.5	1.8
132	21.5	1.45	10.24	"	"	640	-	159	18	1.7
120	23.5	1.35	11.28	"	"	670	-	144	19.8	1.6
110	26	1.25	12.30	"	"	670	-	132	21.5	1.55
105	27	1.2	12.98	"	"	600	-	125	22.5	1.45
92	31	1.1	14.78	"	"	730	-	110	26	1.3
84	34	1.05	16.13	"	"	740	-	101	28	1.25
78	36.5	1.05	17.40	"	"	760	-	94	30	1.25
72	39.5	1.0	18.98	"	"	770	-	86	33	1.2
65	44	0.91	20.82	"	"	800	-	78	36.5	1.1
60	47.5	0.91	22.71	"	"	810	-	72	39.5	1.1
53	54	0.83	25.48	"	"	850	-	64	44.5	1.0
73	39	3.1	18.51	BG10-../D07LA4	15	1210	1690	88	32.5	3.7
66	43	2.8	20.51	"	"	1290	1800	79	36	3.3
62	46	2.6	22.04	"	"	1330	1860	74	38.5	3.1
56	51	2.4	24.42	"	"	1410	1970	67	42.5	2.8
52	55	2.2	26.26	"	"	1460	2000	62	46	2.6
46.5	61	1.95	29.09	"	"	1540	2150	56	51	2.4
43	66	1.8	31.52	"	"	1600	2200	52	55	2.2
39	73	1.65	34.92	"	"	1690	2350	46.5	61	1.95
34.5	83	1.45	39.70	"	"	1780	2450	41	69	1.75
31	92	1.3	43.99	"	"	1880	2600	37	77	1.55
29.5	97	1.25	46.55	"	"	1920	2650	35	81	1.5
26.5	108	1.1	51.57	"	"	2000	2800	31.5	90	1.35
23.5	121	0.99	57.48	"	"	2000	2800	28.5	100	1.2
21.5	133	0.9	63.69	"	"	2000	2800	25.5	112	1.05
20.5	139	0.86	66.00	"	"	2000	2800	25	114	1.05
50	57	2.6	27.08	BG15-../D07LA4	15	3000	6000	60	47.5	3.2
45	63	2.4	30.08	"	"	3000	6000	54	53	2.8
39.5	72	2.1	34.20	"	"	3000	6000	47.5	60	2.5
36	79	1.9	37.90	"	"	3000	6000	43	66	2.3
44	65	3.1	30.94	BG20-../D07LA4	18	4000	-	53	54	3.7
41	69	2.9	33.33	"	"	4100	-	49	58	3.4
36.5	78	2.6	37.02	"	"	4300	-	44	65	3.1
32.5	88	2.3	41.76	"	"	4500	-	39	73	2.7
29.5	97	2.1	46.38	"	"	4700	-	35	81	2.5
28.5	100	2.0	47.92	"	"	4750	-	34	84	2.4
25.5	112	1.8	53.22	"	"	4950	-	30.5	93	2.2
23	124	1.6	59.07	"	"	5000	-	27.5	104	1.9
21	136	1.45	65.62	"	"	5000	-	25	114	1.75
20	143	1.4	67.53	BG20Z-../D07LA4	19	5000	-	24	119	1.7
17.5	163	1.25	78.60	"	"	5000	-	21	136	1.45
15.5	184	1.1	87.30	"	"	5000	-	19	150	1.35
14.5	197	1.0	94.27	"	"	5000	-	17.5	163	1.25
13	220	0.91	104.7	"	"	5000	-	15.5	184	1.1
12	235	0.85	112.8	"	"	5000	-	14.5	197	1.0

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 0.3 kW

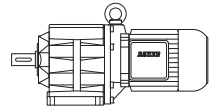


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
29	98	3.1	47.11	BG30-../D07LA4	22	6000	-	34.5	83	3.6
26	110	2.7	52.44	"	"	6000	-	31	92	3.3
23.5	121	2.5	58.18	"	"	6000	-	28	102	2.9
22.5	127	2.4	60.79	"	"	6000	-	27	106	2.8
20.5	139	2.2	67.44	"	"	6000	-	24.5	116	2.6
18.5	154	1.95	73.51	BG30Z-../D07LA4	25	6000	-	22.5	127	2.4
17	168	1.8	81.55	"	"	6000	-	20	143	2.1
16	179	1.7	86.13	"	"	6000	-	19	150	2.0
14.5	197	1.5	95.55	"	"	6000	-	17	168	1.8
12.5	225	1.35	109.6	"	"	6000	-	15	191	1.55
11.5	245	1.2	121.6	"	"	6000	-	13.5	210	1.45
11	260	1.15	128.5	"	"	6000	-	13	220	1.35
9.5	300	1.0	142.5	"	"	6000	-	11.5	245	1.2
9.0	315	0.95	151.5	"	"	6000	-	11	260	1.15
8.1	350	0.86	168.1	"	"	6000	-	9.7	295	1.0
20	143	3.0	67.74	BG40Z-../D07LA4	40	7000	-	24	119	3.6
18	159	2.7	75.19	"	"	7000	-	22	130	3.3
16.5	173	2.5	82.00	"	"	7000	-	20	143	3.0
15	191	2.2	91.02	"	"	7000	-	18	159	2.7
14	200	2.1	96.86	"	"	7000	-	17	168	2.5
13	220	1.95	107.5	"	"	7000	-	15.5	184	2.3
11.5	245	1.75	121.3	"	"	7000	-	13.5	210	2.0
10.5	270	1.55	134.6	"	"	7000	-	12.5	225	1.9
9.6	295	1.45	141.4	"	"	7000	-	11.5	245	1.75
8.7	325	1.3	156.9	"	"	7000	-	10.5	270	1.55
8.2	345	1.25	166.1	"	"	7000	-	9.8	290	1.45
7.4	385	1.1	184.4	"	"	7000	-	8.8	325	1.3
6.8	420	1.0	199.9	"	"	7000	-	8.2	345	1.25
6.1	465	0.91	221.9	"	"	7000	-	7.4	385	1.1
5.5	520	0.82	246.5	"	"	7000	-	6.6	430	0.99
4.7	510	0.91	288.6	BG40G10-../D07LA4	46	7000	-	5.7	410	1.15
14.5	197	3.2	95.58	BG50Z-../D07LA4	50	10000	-	17	168	3.8
13	220	2.9	106.0	"	"	10000	-	15.5	184	3.4
10.5	270	2.3	128.9	"	"	10000	-	13	220	2.9
9.5	300	2.1	142.9	"	"	10000	-	11.5	245	2.6
8.2	345	1.85	164.9	"	"	10000	-	9.9	285	2.2
7.4	385	1.65	182.8	"	"	10000	-	8.9	320	1.95
6.6	430	1.45	204.7	"	"	10000	-	8.0	355	1.75
6.0	475	1.35	226.9	"	"	10000	-	7.2	395	1.6
5.3	540	1.15	258.6	"	"	10000	-	6.3	450	1.4
4.8	590	1.05	286.7	"	"	10000	-	5.7	500	1.25
3.9	630	1.1	351.7	BG50G10-../D07LA4	54	10000	-	4.7	510	1.35
3.1	810	0.85	446.5	"	"	10000	-	3.7	660	1.05
4.9	465	2.8	276.2	BG60G20-../D07LA4	102	16000	-	5.9	365	3.6
4.5	500	2.6	306.1	"	"	16000	-	5.3	410	3.2
4.1	550	2.4	334.3	"	"	16000	-	4.9	440	3.0
3.7	610	2.1	370.5	"	"	16000	-	4.4	495	2.6
3.1	750	1.75	437.3	"	"	16000	-	3.8	580	2.2
2.7	910	1.45	504.9	"	"	16000	-	3.3	710	1.85
2.5	980	1.35	559.5	"	"	16000	-	2.9	820	1.6
2.1	1190	1.1	651.3	"	"	16000	-	2.5	980	1.35
1.7	1480	0.88	804.5	"	"	16000	-	2.1	1160	1.1
1.6	1560	0.83	891.5	"	"	16000	-	1.9	1280	1.0
2.8	870	2.9	495.9	BG70G20-../D07LA4	132	20000	-	3.3	720	3.5
2.4	1040	2.4	577.3	"	"	20000	-	2.9	840	3.0
2.1	1190	2.1	665.8	"	"	20000	-	2.5	970	2.6
1.8	1390	1.8	790.2	"	"	20000	-	2.1	1160	2.2
1.6	1580	1.6	877.6	"	"	20000	-	1.9	1300	1.9
1.4	1820	1.35	1035	"	"	20000	-	1.6	1570	1.6
1.2	2150	1.15	1193	"	"	20000	-	1.4	1810	1.4
1.0	2600	0.96	1389	"	"	20000	-	1.2	2100	1.2

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

P = 0.37 kW

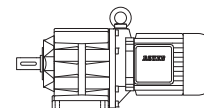


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
520	6.7	1.35	2.64	BG05-../D07LA4	11	420	-	620	5.6	1.6
400	8.8	1.15	3.38	"	"	460	-	480	7.3	1.35
295	11.9	1.0	4.59	"	"	490	-	355	9.9	1.2
250	14.1	0.99	5.46	"	"	490	-	300	11.7	1.2
205	17.2	0.93	6.60	"	"	510	-	250	14.1	1.15
174	20	0.9	7.80	"	"	530	-	210	16.8	1.05
166	21	0.86	8.15	"	"	510	-	199	17.7	1.0
159	22	0.86	8.51	"	"	550	-	191	18.5	1.05
360	9.8	2.0	3.78	BG06-../D07LA4	12	520	-	430	8.2	2.4
300	11.7	1.9	4.54	"	"	530	-	360	9.8	2.2
230	15.3	1.55	5.96	"	"	570	-	275	12.8	1.9
193	18.3	1.4	7.01	"	"	580	-	235	15	1.75
161	21.5	1.3	8.39	"	"	600	-	194	18.2	1.55
144	24.5	1.2	9.38	"	"	640	-	173	20	1.5
132	26.5	1.15	10.24	"	"	640	-	159	22	1.4
120	29	1.1	11.28	"	"	670	-	144	24.5	1.3
110	32	1.05	12.30	"	"	670	-	132	26.5	1.25
105	33.5	0.99	12.98	"	"	600	-	125	28	1.2
92	38	0.89	14.78	"	"	730	-	110	32	1.05
84	42	0.83	16.13	"	"	740	-	101	34.5	1.0
78	45	0.84	17.40	"	"	760	-	94	37.5	1.0
72	49	0.82	18.98	"	"	770	-	86	41	0.98
103	34	3.2	13.21	BG10-../D07LA4	15	1070	1490	123	28.5	3.9
93	37.5	3.0	14.58	"	"	1100	1540	112	31.5	3.6
84	42	2.8	16.15	"	"	1140	1590	101	34.5	3.4
73	48	2.5	18.51	"	"	1210	1690	88	40	3.0
66	53	2.3	20.51	"	"	1290	1800	79	44.5	2.7
62	56	2.1	22.04	"	"	1330	1860	74	47.5	2.5
56	63	1.9	24.42	"	"	1410	1970	67	52	2.3
52	67	1.8	26.26	"	"	1460	2000	62	56	2.1
46.5	75	1.6	29.09	"	"	1540	2150	56	63	1.9
43	82	1.45	31.52	"	"	1600	2200	52	67	1.8
39	90	1.35	34.92	"	"	1690	2350	46.5	75	1.6
34.5	102	1.2	39.70	"	"	1780	2450	41	86	1.4
31	113	1.05	43.99	"	"	1880	2600	37	95	1.25
29.5	119	1.0	46.55	"	"	1920	2650	35	100	1.2
26.5	133	0.9	51.57	"	"	2000	2800	31.5	112	1.05
23.5	150	0.8	57.48	"	"	2000	2800	28.5	123	0.98
50	70	2.1	27.08	BG15-../D07LA4	15	3000	6000	60	58	2.6
45	78	1.9	30.08	"	"	3000	6000	54	65	2.3
39.5	89	1.7	34.20	"	"	3000	6000	47.5	74	2.0
36	98	1.55	37.90	"	"	3000	6000	43	82	1.85
53	66	3.0	25.79	BG20-../D07LA4	18	3700	-	63	56	3.6
48.5	72	2.8	27.85	"	"	3800	-	59	59	3.4
44	80	2.5	30.94	"	"	4000	-	53	66	3.0
41	86	2.3	33.33	"	"	4100	-	49	72	2.8
36.5	96	2.1	37.02	"	"	4300	-	44	80	2.5
32.5	108	1.85	41.76	"	"	4500	-	39	90	2.2
29.5	119	1.7	46.38	"	"	4700	-	35	100	2.0
28.5	123	1.65	47.92	"	"	4750	-	34	103	1.95
25.5	138	1.45	53.22	"	"	4950	-	30.5	115	1.75
23	153	1.3	59.07	"	"	5000	-	27.5	128	1.55
21	168	1.2	65.62	"	"	5000	-	25	141	1.4
20	176	1.15	67.53	BG20Z-../D07LA4	19	5000	-	24	147	1.35
17.5	200	1.0	78.60	"	"	5000	-	21	168	1.2
15.5	225	0.89	87.30	"	"	5000	-	19	185	1.1
14.5	240	0.83	94.27	"	"	5000	-	17.5	200	1.0
38.5	91	3.3	35.17	BG30-../D07LA4	22	5500	-	46.5	75	4.0
35	100	3.0	39.02	"	"	5800	-	42	84	3.6
32	110	2.7	42.46	"	"	5900	-	38.5	91	3.3
29	121	2.5	47.11	"	"	6000	-	34.5	102	2.9

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 0.37 kW

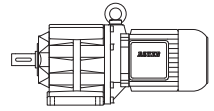


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
26	135	2.2	52.44	BG30-../D07LA4	"	6000	-	31	113	2.7
23.5	150	2.0	58.18	"	"	6000	-	28	126	2.4
22.5	157	1.9	60.79	"	"	6000	-	27	130	2.3
20.5	172	1.75	67.44	"	"	6000	-	24.5	144	2.1
18.5	191	1.55	73.51	BG30Z-../D07LA4	25	6000	-	22.5	157	1.9
17	205	1.45	81.55	"	"	6000	-	20	176	1.7
16	220	1.35	86.13	"	"	6000	-	19	185	1.6
14.5	240	1.25	95.55	"	"	6000	-	17	205	1.45
12.5	280	1.05	109.6	"	"	6000	-	15	235	1.3
11.5	305	0.98	121.6	"	"	6000	-	13.5	260	1.15
11	320	0.94	128.5	"	"	6000	-	13	270	1.1
9.5	370	0.81	142.5	"	"	6000	-	11.5	305	0.98
20	176	2.4	67.74	BG40Z-../D07LA4	40	7000	-	24	147	2.9
18	196	2.2	75.19	"	"	7000	-	22	160	2.7
16.5	210	2.0	82.00	"	"	7000	-	20	176	2.4
15	235	1.8	91.02	"	"	7000	-	18	196	2.2
14	250	1.7	96.86	"	"	7000	-	17	205	2.1
13	270	1.55	107.5	"	"	7000	-	15.5	225	1.9
11.5	305	1.4	121.3	"	"	7000	-	13.5	260	1.65
10.5	335	1.25	134.6	"	"	7000	-	12.5	280	1.5
9.6	365	1.15	141.4	"	"	7000	-	11.5	305	1.4
8.7	405	1.05	156.9	"	"	7000	-	10.5	335	1.25
8.2	430	0.99	166.1	"	"	7000	-	9.8	360	1.2
7.4	475	0.89	184.4	"	"	7000	-	8.8	400	1.05
6.8	510	0.83	199.9	"	"	7000	-	8.2	430	0.99
17	205	3.1	79.78	BG50Z-../D07LA4	50	10000	-	20.5	172	3.7
14.5	240	2.6	95.58	"	"	10000	-	17	205	3.1
13	270	2.3	106.0	"	"	10000	-	15.5	225	2.8
10.5	335	1.9	128.9	"	"	10000	-	13	270	2.3
9.5	370	1.7	142.9	"	"	10000	-	11.5	305	2.1
8.2	430	1.45	164.9	"	"	10000	-	9.9	355	1.75
7.4	475	1.35	182.8	"	"	10000	-	8.9	395	1.6
6.6	530	1.2	204.7	"	"	10000	-	8.0	440	1.45
6.0	580	1.1	226.9	"	"	10000	-	7.2	490	1.3
5.3	660	0.95	258.6	"	"	10000	-	6.3	560	1.15
4.8	730	0.86	286.7	"	"	10000	-	5.7	610	1.05
3.9	800	0.86	351.7	BG50G10-../D07LA4	54	10000	-	4.7	650	1.05
4.9	600	2.2	276.2	BG60G20-../D07LA4	102	16000	-	5.9	480	2.7
4.5	650	2.0	306.1	"	"	16000	-	5.3	530	2.5
4.1	720	1.8	334.3	"	"	16000	-	4.9	580	2.2
3.7	790	1.65	370.5	"	"	16000	-	4.4	640	2.0
3.1	970	1.35	437.3	"	"	16000	-	3.8	760	1.7
2.7	1160	1.1	504.9	"	"	16000	-	3.3	920	1.4
2.5	1240	1.05	559.5	"	"	16000	-	2.9	1050	1.25
2.1	1510	0.86	651.3	"	"	16000	-	2.5	1240	1.05
3.5	860	2.9	387.6	BG70G20-../D07LA4	132	20000	-	4.2	690	3.6
3.3	940	2.7	417.8	"	"	20000	-	3.9	780	3.2
2.8	1110	2.3	495.9	"	"	20000	-	3.3	920	2.7
2.4	1320	1.9	577.3	"	"	20000	-	2.9	1070	2.3
2.1	1510	1.65	665.8	"	"	20000	-	2.5	1240	2.0
1.8	1760	1.4	790.2	"	"	20000	-	2.1	1480	1.7
1.6	2000	1.25	877.6	"	"	20000	-	1.9	1650	1.5
1.4	2300	1.1	1035	"	"	20000	-	1.6	1980	1.25
1.2	2700	0.93	1193	"	"	20000	-	1.4	2250	1.1

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

P = 0.55 kW

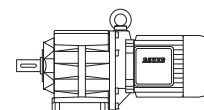


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
500	10.5	1.7	2.82	BG06-../D08MA4	16	470	-	600	8.7	2.1
375	14	1.45	3.78	"	"	520	-	445	11.8	1.7
310	16.9	1.3	4.54	"	"	530	-	375	14	1.55
235	22	1.1	5.96	"	"	570	-	285	18.4	1.3
200	26	1.0	7.01	"	"	580	-	240	21.5	1.2
167	31	0.9	8.39	"	"	600	-	205	25.5	1.1
150	35	0.86	9.38	"	"	640	-	180	29	1.05
137	38	0.82	10.24	"	"	640	-	165	31.5	0.98
210	25	3.2	6.78	BG10-../D08MA4	16	660	920	250	21	3.9
174	30	2.9	8.07	"	"	660	920	210	25	3.5
151	34.5	2.8	9.33	"	"	950	1330	181	29	3.3
136	38.5	2.6	10.34	"	"	1000	1400	163	32	3.1
118	44.5	2.4	11.92	"	"	1030	1440	141	37	2.8
106	49.5	2.2	13.21	"	"	1070	1490	128	41	2.7
97	54	2.1	14.58	"	"	1100	1540	116	45	2.5
87	60	1.95	16.15	"	"	1140	1590	105	50	2.3
76	69	1.75	18.51	"	"	1210	1690	91	57	2.1
69	76	1.6	20.51	"	"	1290	1800	82	64	1.9
64	82	1.45	22.04	"	"	1330	1860	77	68	1.75
58	90	1.35	24.42	"	"	1410	1970	69	76	1.6
54	97	1.25	26.26	"	"	1460	2000	64	82	1.45
48.5	108	1.1	29.09	"	"	1540	2150	58	90	1.35
44.5	118	1.0	31.52	"	"	1600	2200	54	97	1.25
40.5	129	0.93	34.92	"	"	1690	2350	48.5	108	1.1
35.5	147	0.82	39.70	"	"	1780	2450	42.5	123	0.98
52	101	1.5	27.08	BG15-../D08MA4	16	3000	6000	63	83	1.8
47	111	1.35	30.08	"	"	3000	6000	56	93	1.6
41	128	1.15	34.20	"	"	3000	6000	49.5	106	1.4
37	141	1.05	37.90	"	"	3000	6000	44.5	118	1.25
96	54	3.2	14.67	BG20-../D08MA4	19	3050	-	115	45.5	3.8
90	58	3.1	15.58	"	"	3100	-	108	48.5	3.6
81	64	2.9	17.31	"	"	3200	-	98	53	3.5
71	73	2.7	19.95	"	"	3350	-	85	61	3.2
64	82	2.4	22.16	"	"	3500	-	76	69	2.9
61	86	2.3	23.22	"	"	3550	-	73	71	2.8
55	95	2.1	25.79	"	"	3700	-	66	79	2.5
51	102	1.95	27.85	"	"	3800	-	61	86	2.3
45.5	115	1.75	30.94	"	"	4000	-	55	95	2.1
42.5	123	1.65	33.33	"	"	4100	-	51	102	1.95
38	138	1.45	37.02	"	"	4300	-	45.5	115	1.75
34	154	1.3	41.76	"	"	4500	-	40.5	129	1.55
30.5	172	1.15	46.38	"	"	4700	-	36.5	143	1.4
29.5	178	1.1	47.92	"	"	4750	-	35.5	147	1.35
26.5	198	1.0	53.22	"	"	4950	-	32	164	1.2
24	215	0.93	59.07	"	"	5000	-	28.5	184	1.1
21.5	240	0.83	65.62	"	"	5000	-	26	200	1.0
21	250	0.8	67.53	BG20Z-../D08MA4	20	5000	-	25	210	0.95
56	93	3.2	25.45	BG30-../D08MA4	23	4850	-	67	78	3.8
50	105	2.9	28.24	"	"	5100	-	60	87	3.4
47	111	2.7	29.83	"	"	5200	-	57	92	3.3
42.5	123	2.4	33.09	"	"	5400	-	51	102	2.9
40	131	2.3	35.17	"	"	5500	-	48	109	2.8
36	145	2.1	39.02	"	"	5800	-	43.5	120	2.5
33	159	1.9	42.46	"	"	5900	-	40	131	2.3
30	175	1.7	47.11	"	"	6000	-	36	145	2.1
27	194	1.55	52.44	"	"	6000	-	32.5	161	1.85
24.5	210	1.45	58.18	"	"	6000	-	29	181	1.65
23.5	220	1.35	60.79	"	"	6000	-	28	187	1.6
21	250	1.2	67.44	"	"	6000	-	25	210	1.45
19.5	265	1.15	73.51	BG30Z-../D08MA4	26	6000	-	23	225	1.35
17.5	300	1.0	81.55	"	"	6000	-	21	250	1.2
16.5	315	0.95	86.13	"	"	6000	-	20	260	1.15
15	350	0.86	95.55	"	"	6000	-	18	290	1.05

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 0.55 kW



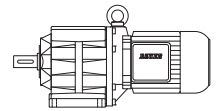
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
41	128	3.3	34.20	BG40-../D08MA4	38	7000	-	49.5	106	4.0
37	141	3.0	37.96	"	"	7000	-	44.5	118	3.6
35	150	2.8	40.19	"	"	7000	-	42	125	3.4
31.5	166	2.6	44.62	"	"	7000	-	38	138	3.1
29	181	2.3	48.36	"	"	7000	-	35	150	2.8
26.5	198	2.1	53.69	"	"	7000	-	31.5	166	2.6
23.5	220	1.95	59.64	"	"	7000	-	28.5	184	2.3
21.5	240	1.75	66.20	"	"	7000	-	25.5	205	2.1
21	250	1.7	67.74	BG40Z-../D08MA4	42	7000	-	25	210	2.0
19	275	1.55	75.19	"	"	7000	-	22.5	230	1.85
17.5	300	1.4	82.00	"	"	7000	-	20.5	255	1.65
15.5	335	1.25	91.02	"	"	7000	-	18.5	280	1.5
14.5	360	1.2	96.86	"	"	7000	-	17.5	300	1.4
13.5	385	1.1	107.5	"	"	7000	-	16	325	1.3
12	435	0.98	121.3	"	"	7000	-	14	375	1.15
10.5	500	0.85	134.6	"	"	7000	-	12.5	420	1.0
10	520	0.82	141.4	"	"	7000	-	12	435	0.98
27	194	3.2	52.12	BG50-../D08MA4	46	10000	-	32.5	161	3.9
24	215	2.9	59.42	"	"	10000	-	28.5	184	3.4
21.5	240	2.6	65.86	"	"	10000	-	26	200	3.2
19.5	265	2.4	71.97	BG50Z-../D08MA4	51	10000	-	23.5	220	2.9
18	290	2.2	79.78	"	"	10000	-	21.5	240	2.6
15	350	1.8	95.58	"	"	10000	-	18	290	2.2
13.5	385	1.65	106.0	"	"	10000	-	16	325	1.95
11	475	1.35	128.9	"	"	10000	-	13.5	385	1.65
9.8	530	1.2	142.9	"	"	10000	-	12	435	1.45
8.5	610	1.05	164.9	"	"	10000	-	10.5	500	1.25
7.7	680	0.93	182.8	"	"	10000	-	9.2	570	1.1
6.9	760	0.83	204.7	"	"	10000	-	8.3	630	1.0
14	375	3.2	101.0	BG60Z-../D08MA4	96	16000	-	17	305	3.9
12	435	2.8	119.2	"	"	16000	-	14.5	360	3.3
11	475	2.5	132.1	"	"	16000	-	13	400	3.0
8.9	590	2.0	158.0	"	"	16000	-	11	475	2.5
8.0	650	1.85	175.1	"	"	16000	-	9.6	540	2.2
6.9	760	1.6	204.6	"	"	16000	-	8.3	630	1.9
6.2	840	1.45	226.7	"	"	16000	-	7.5	700	1.7
5.7	920	1.3	247.7	"	"	16000	-	6.8	770	1.55
5.2	1010	1.2	274.5	"	"	16000	-	6.2	840	1.45
5.1	910	1.45	276.2	BG60G20-../D08MA4	103	16000	-	6.1	740	1.75
4.6	1010	1.3	306.1	"	"	16000	-	5.5	820	1.6
4.2	1110	1.15	334.3	"	"	16000	-	5.1	880	1.5
3.8	1220	1.05	370.5	"	"	16000	-	4.6	980	1.35
3.3	1420	0.92	437.3	"	"	16000	-	3.9	1180	1.1
7.3	710	3.2	194.4	BG70Z-../D08MA4	136	20000	-	8.7	600	3.8
6.7	780	2.9	210.5	"	"	20000	-	8.0	650	3.5
5.7	920	2.5	249.8	"	"	20000	-	6.8	770	3.0
5.5	840	3.0	255.5	BG70G20-../D08MA4	133	20000	-	6.6	680	3.7
5.1	910	2.7	276.7	"	"	20000	-	6.1	740	3.4
4.3	1080	2.3	328.4	"	"	20000	-	5.2	870	2.9
3.7	1270	1.95	387.6	"	"	20000	-	4.4	1040	2.4
3.4	1420	1.75	417.8	"	"	20000	-	4.1	1150	2.2
2.9	1660	1.5	495.9	"	"	20000	-	3.4	1390	1.8
2.5	1950	1.3	577.3	"	"	20000	-	3.0	1600	1.55
2.2	2200	1.15	665.8	"	"	20000	-	2.6	1850	1.35
1.8	2700	0.93	790.2	"	"	20000	-	2.2	2150	1.15
1.6	3050	0.82	877.6	"	"	20000	-	2.0	2400	1.05
2.9	1430	3.2	484.3	BG80G40-../D08MA4	215	26000	-	3.5	1120	4.1
2.5	1720	2.7	572.0	"	"	26000	-	3.0	1370	3.4
2.2	1900	2.4	657.8	"	"	26000	-	2.6	1540	3.0
2.0	2100	2.2	730.3	"	"	26000	-	2.4	1690	2.7
1.8	2350	1.95	817.4	"	"	26000	-	2.1	1970	2.3
1.6	2700	1.7	907.6	"	"	26000	-	1.9	2200	2.1



# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

**P = 0.55 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
1.4	3200	1.45	1042	BG80G40-../D08MA4	"	26000	-	1.7	2500	1.85
1.2	3800	1.2	1261	"	"	26000	-	1.4	3200	1.45
1.0	4700	0.98	1400	"	"	26000	-	1.2	3800	1.2
1.2	3700	2.5	1174	BG90G50-../D08MA4	324	65000	-	1.5	2800	3.3
1.1	4100	2.2	1301	"	"	65000	-	1.3	3350	2.7
0.9	5100	1.8	1583	"	"	65000	-	1.1	4100	2.2
0.8	5800	1.6	1756	"	"	65000	-	1.0	4550	2.0
0.7	6800	1.35	2026	"	"	65000	-	0.85	5500	1.65
0.6	8000	1.15	2514	"	"	65000	-	0.7	6800	1.35
0.55	8800	1.05	2786	"	"	65000	-	0.65	7400	1.25
0.65	6000	3.1	2154	BG100G50-../D08MA4	512	90000	-	0.8	4500	4.1
0.55	7100	2.6	2656	"	"	90000	-	0.65	5700	3.2
0.48	8600	2.2	2952	"	"	90000	-	0.6	6500	2.8
0.43	9700	1.9	3286	"	"	90000	-	0.55	7000	2.6
0.39	10900	1.7	3644	"	"	90000	-	0.47	8600	2.2
0.33	13400	1.4	4366	"	"	90000	-	0.39	10900	1.7
0.29	15600	1.2	4839	"	"	90000	-	0.35	12500	1.5

**P = 0.75 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
500	14.3	1.25	2.82	BG06-../DSE08LA4	18	470	-	600	11.9	1.5
375	19.1	1.05	3.78	"	"	520	-	445	16	1.25
310	23	0.96	4.54	"	"	530	-	375	19.1	1.15
235	30	0.8	5.96	"	"	570	-	285	25	0.96
325	22	3.1	4.36	BG10-../DSE08LA4	18	650	910	390	18.3	3.7
265	27	2.8	5.34	"	"	620	910	315	22.5	3.3
210	34	2.4	6.78	"	"	660	920	250	28.5	2.8
174	41	2.1	8.07	"	"	660	920	210	34	2.6
151	47	2.1	9.33	"	"	950	1330	181	39.5	2.5
136	52	1.9	10.34	"	"	1000	1400	163	43.5	2.3
118	60	1.75	11.92	"	"	1030	1440	141	50	2.1
106	67	1.65	13.21	"	"	1070	1490	128	55	2.0
97	73	1.55	14.58	"	"	1100	1540	116	61	1.85
87	82	1.45	16.15	"	"	1140	1590	105	68	1.7
76	94	1.3	18.51	"	"	1210	1690	91	78	1.55
69	103	1.15	20.51	"	"	1290	1800	82	87	1.4
64	111	1.1	22.04	"	"	1330	1860	77	93	1.3
58	123	0.98	24.42	"	"	1410	1970	69	103	1.15
54	132	0.91	26.26	"	"	1460	2000	64	111	1.1
48.5	147	0.82	29.09	"	"	1540	2150	58	123	0.98
52	137	1.1	27.08	BG15-../DSE08LA4	18	3000	6000	63	113	1.35
47	152	0.99	30.08	"	"	3000	6000	56	127	1.2
41	174	0.86	34.20	"	"	3000	6000	49.5	144	1.05
169	42	2.9	8.29	BG20-../DSE08LA4	20	2250	-	205	34.5	3.5
158	45	3.2	8.91	"	"	2600	-	189	37.5	3.8
146	49	2.5	9.65	"	"	2250	-	175	40.5	3.0
133	53	2.9	10.54	"	"	2700	-	160	44.5	3.5
120	59	2.7	11.71	"	"	2800	-	144	49.5	3.2
106	67	2.5	13.21	"	"	2900	-	128	55	3.0
96	74	2.3	14.67	"	"	3050	-	115	62	2.8
90	79	2.2	15.58	"	"	3100	-	108	66	2.7
81	88	2.1	17.31	"	"	3200	-	98	73	2.5
71	100	1.95	19.95	"	"	3350	-	85	84	2.3
64	111	1.8	22.16	"	"	3500	-	76	94	2.1
61	117	1.7	23.22	"	"	3550	-	73	98	2.0
55	130	1.55	25.79	"	"	3700	-	66	108	1.85
51	140	1.45	27.85	"	"	3800	-	61	117	1.7

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

P = 0.75 kW

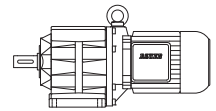


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
45.5	157	1.25	30.94	BG20-../DSE08LA4	"	4000	-	55	130	1.55
42.5	168	1.2	33.33	"	"	4100	-	51	140	1.45
38	188	1.05	37.02	"	"	4300	-	45.5	157	1.25
34	210	0.95	41.76	"	"	4500	-	40.5	176	1.15
30.5	230	0.87	46.38	"	"	4700	-	36.5	196	1.0
29.5	240	0.83	47.92	"	"	4750	-	35.5	200	1.0
74	96	3.1	18.93	BG30-../DSE08LA4	25	4100	-	89	80	3.8
71	100	3.0	19.99	"	"	4200	-	85	84	3.6
64	111	2.7	22.18	"	"	4600	-	76	94	3.2
56	127	2.4	25.45	"	"	4850	-	67	106	2.8
50	143	2.1	28.24	"	"	5100	-	60	119	2.5
47	152	1.95	29.83	"	"	5200	-	57	125	2.4
42.5	168	1.8	33.09	"	"	5400	-	51	140	2.1
40	179	1.7	35.17	"	"	5500	-	48	149	2.0
36	198	1.5	39.02	"	"	5800	-	43.5	164	1.85
33	215	1.4	42.46	"	"	5900	-	40	179	1.7
30	235	1.3	47.11	"	"	6000	-	36	198	1.5
27	265	1.15	52.44	"	"	6000	-	32.5	220	1.35
24.5	290	1.05	58.18	"	"	6000	-	29	245	1.2
23.5	300	1.0	60.79	"	"	6000	-	28	255	1.2
21	340	0.88	67.44	"	"	6000	-	25	285	1.05
19.5	365	0.82	73.51	BG30Z-../DSE08LA4	28	6000	-	23	310	0.97
54	132	3.2	26.01	BG40-../DSE08LA4	40	6500	-	65	110	3.9
48	149	2.9	29.34	"	"	6800	-	58	123	3.5
43	166	2.6	32.57	"	"	7000	-	52	137	3.1
41	174	2.4	34.20	"	"	7000	-	49.5	144	3.0
37	193	2.2	37.96	"	"	7000	-	44.5	160	2.7
35	200	2.1	40.19	"	"	7000	-	42	170	2.5
31.5	225	1.9	44.62	"	"	7000	-	38	188	2.3
29	245	1.75	48.36	"	"	7000	-	35	200	2.1
26.5	270	1.55	53.69	"	"	7000	-	31.5	225	1.9
23.5	300	1.4	59.64	"	"	7000	-	28.5	250	1.7
21.5	330	1.3	66.20	"	"	7000	-	25.5	280	1.5
21	340	1.25	67.74	BG40Z-../DSE08LA4	43	7000	-	25	285	1.5
19	375	1.15	75.19	"	"	7000	-	22.5	315	1.35
17.5	405	1.05	82.00	"	"	7000	-	20.5	345	1.25
15.5	460	0.92	91.02	"	"	7000	-	18.5	385	1.1
14.5	490	0.87	96.86	"	"	7000	-	17.5	405	1.05
13.5	530	0.8	107.5	"	"	7000	-	16	445	0.96
37	193	3.3	37.89	BG50-../DSE08LA4	48	10000	-	44.5	160	3.9
33.5	210	3.0	42.00	"	"	10000	-	40	179	3.5
30	235	2.7	47.02	"	"	10000	-	36	198	3.2
27	265	2.4	52.12	"	"	10000	-	32.5	220	2.9
24	295	2.1	59.42	"	"	10000	-	28.5	250	2.5
21.5	330	1.9	65.86	"	"	10000	-	26	275	2.3
19.5	365	1.75	71.97	BG50Z-../DSE08LA4	52	10000	-	23.5	300	2.1
18	395	1.6	79.78	"	"	10000	-	21.5	330	1.9
15	475	1.35	95.58	"	"	10000	-	18	395	1.6
13.5	530	1.2	106.0	"	"	10000	-	16	445	1.4
11	650	0.97	128.9	"	"	10000	-	13.5	530	1.2
9.8	730	0.86	142.9	"	"	10000	-	12	590	1.05
18.5	385	3.1	75.71	BG60Z-../DSE08LA4	97	16000	-	22.5	315	3.8
15.5	460	2.6	91.09	"	"	16000	-	18.5	385	3.1
14	510	2.4	101.0	"	"	16000	-	17	420	2.9
12	590	2.0	119.2	"	"	16000	-	14.5	490	2.4
11	650	1.85	132.1	"	"	16000	-	13	550	2.2
8.9	800	1.5	158.0	"	"	16000	-	11	650	1.85
8.0	890	1.35	175.1	"	"	16000	-	9.6	740	1.6
6.9	1030	1.15	204.6	"	"	16000	-	8.3	860	1.4
6.2	1150	1.05	226.7	"	"	16000	-	7.5	950	1.25
5.7	1250	0.96	247.7	"	"	16000	-	6.8	1050	1.15
5.2	1370	0.88	274.5	"	"	16000	-	6.2	1150	1.05
5.1	1280	1.0	276.2	BG60G20-../DSE08LA4	105	16000	-	6.1	1050	1.25
4.6	1420	0.92	306.1	"	"	16000	-	5.5	1170	1.1
4.2	1560	0.83	334.3	"	"	16000	-	5.1	1260	1.05

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

**P = 0.75 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.6	740	3.1	147.2	BG70Z-../DSE08LA4	137	20000	-	11.5	620	3.7
8.6	830	2.8	163.8	"	"	20000	-	10.5	680	3.4
7.3	980	2.3	194.4	"	"	20000	-	8.7	820	2.8
6.7	1060	2.2	210.5	"	"	20000	-	8.0	890	2.6
5.7	1250	1.85	249.8	"	"	20000	-	6.8	1050	2.2
5.5	1190	2.1	255.5	BG70G20-../DSE08LA4	135	20000	-	6.6	970	2.6
5.1	1280	1.95	276.7	"	"	20000	-	6.1	1050	2.4
4.3	1520	1.65	328.4	"	"	20000	-	5.2	1230	2.0
3.7	1780	1.4	387.6	"	"	20000	-	4.4	1480	1.7
3.4	1980	1.25	417.8	"	"	20000	-	4.1	1620	1.55
2.9	2300	1.1	495.9	"	"	20000	-	3.4	1960	1.3
2.5	2700	0.93	577.3	"	"	20000	-	3.0	2200	1.15
2.2	3050	0.82	665.8	"	"	20000	-	2.6	2550	0.98
3.9	1490	3.1	360.0	BG80G40-../DSE08LA4	216	26000	-	4.7	1180	3.9
3.6	1610	2.9	399.8	"	"	26000	-	4.3	1290	3.6
3.3	1830	2.5	436.2	"	"	26000	-	3.9	1490	3.1
2.9	2050	2.2	484.3	"	"	26000	-	3.5	1670	2.8
2.5	2450	1.9	572.0	"	"	26000	-	3.0	2000	2.3
2.2	2750	1.65	657.8	"	"	26000	-	2.6	2250	2.0
2.0	3050	1.5	730.3	"	"	26000	-	2.4	2450	1.9
1.8	3450	1.35	817.4	"	"	26000	-	2.1	2850	1.6
1.6	3900	1.2	907.6	"	"	26000	-	1.9	3200	1.45
1.4	4550	1.0	1042	"	"	26000	-	1.7	3650	1.25
1.2	5400	0.85	1261	"	"	26000	-	1.4	4550	1.0
2.0	2900	3.2	714.2	BG90G50-../DSE08LA4	326	65000	-	2.4	2300	4.0
1.6	3800	2.4	883.7	"	"	65000	-	2.0	2900	3.2
1.2	5200	1.75	1174	"	"	65000	-	1.5	4100	2.2
1.1	5800	1.6	1301	"	"	65000	-	1.3	4800	1.9
0.9	7200	1.3	1583	"	"	65000	-	1.1	5800	1.6
0.8	8200	1.1	1756	"	"	65000	-	1.0	6400	1.45
1.0	5700	3.2	1444	BG100G50-../DSE08LA4	513	90000	-	1.2	4550	4.1
0.85	6800	2.7	1678	"	"	90000	-	1.1	4900	3.8
0.75	7700	2.4	1867	"	"	90000	-	0.9	6100	3.0
0.65	8900	2.1	2154	"	"	90000	-	0.8	6800	2.7
0.55	10600	1.75	2656	"	"	90000	-	0.65	8600	2.2
0.48	12600	1.45	2952	"	"	90000	-	0.6	9600	1.95
0.43	14100	1.3	3286	"	"	90000	-	0.55	10500	1.75
0.39	15800	1.15	3644	"	"	90000	-	0.47	12700	1.45

**P = 1.1 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
500	21	0.86	2.82	BG06-../DSE08XA4	19	470	-	600	17.5	1.05
560	18.7	3.0	2.52	BG10-../DSE08XA4	19	560	790	670	15.6	3.6
410	25.5	2.4	3.42	"	"	630	880	495	21	3.0
325	32	2.1	4.36	"	"	650	910	390	26.5	2.6
265	39.5	1.9	5.34	"	"	620	910	315	33	2.3
210	50	1.6	6.78	"	"	660	920	250	42	1.95
174	60	1.45	8.07	"	"	660	920	210	50	1.75
151	69	1.4	9.33	"	"	950	1330	181	58	1.65
136	77	1.3	10.34	"	"	1000	1400	163	64	1.55
118	89	1.2	11.92	"	"	1030	1440	141	74	1.4
106	99	1.1	13.21	"	"	1070	1490	128	82	1.35
97	108	1.05	14.58	"	"	1100	1540	116	90	1.25
87	120	0.98	16.15	"	"	1140	1590	105	100	1.15
76	138	0.87	18.51	"	"	1210	1690	91	115	1.05

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 1.1 kW

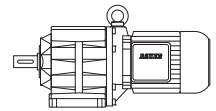


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
320	32.5	3.2	4.38	BG20-../DSE08XA4	22	1990	-	385	27	3.9
260	40	2.9	5.49	"	"	2100	-	310	33.5	3.4
220	47.5	2.6	6.48	"	"	2250	-	260	40	3.1
175	60	2.3	8.02	"	"	2500	-	210	50	2.7
169	62	1.95	8.29	"	"	2250	-	205	51	2.4
158	66	2.2	8.91	"	"	2600	-	189	55	2.6
146	71	1.7	9.65	"	"	2250	-	175	60	2.0
133	78	1.95	10.54	"	"	2700	-	160	65	2.4
120	87	1.8	11.71	"	"	2800	-	144	72	2.2
106	99	1.7	13.21	"	"	2900	-	128	82	2.0
96	109	1.6	14.67	"	"	3050	-	115	91	1.9
90	116	1.55	15.58	"	"	3100	-	108	97	1.8
81	129	1.4	17.31	"	"	3200	-	98	107	1.7
71	147	1.35	19.95	"	"	3350	-	85	123	1.6
64	164	1.2	22.16	"	"	3500	-	76	138	1.45
61	172	1.15	23.22	"	"	3550	-	73	143	1.4
55	191	1.05	25.79	"	"	3700	-	66	159	1.25
51	205	0.98	27.85	"	"	3800	-	61	172	1.15
45.5	230	0.87	30.94	"	"	4000	-	55	191	1.05
42.5	245	0.82	33.33	"	"	4100	-	51	205	0.98
119	88	3.1	11.82	BG30-../DSE08XA4	26	3200	-	143	73	3.8
102	102	2.9	13.77	"	"	3150	-	123	85	3.5
92	114	2.6	15.27	"	"	3450	-	111	94	3.2
83	126	2.4	17.06	"	"	3700	-	99	106	2.8
74	141	2.1	18.93	"	"	4100	-	89	118	2.5
71	147	2.0	19.99	"	"	4200	-	85	123	2.4
64	164	1.85	22.18	"	"	4600	-	76	138	2.2
56	187	1.6	25.45	"	"	4850	-	67	156	1.9
50	210	1.45	28.24	"	"	5100	-	60	175	1.7
47	220	1.35	29.83	"	"	5200	-	57	184	1.65
42.5	245	1.2	33.09	"	"	5400	-	51	205	1.45
40	260	1.15	35.17	"	"	5500	-	48	215	1.4
36	290	1.05	39.02	"	"	5800	-	43.5	240	1.25
33	315	0.95	42.46	"	"	5900	-	40	260	1.15
30	350	0.86	47.11	"	"	6000	-	36	290	1.05
77	136	3.1	18.19	BG40-../DSE08XA4	41	5600	-	93	112	3.8
71	147	2.9	19.84	"	"	5800	-	85	123	3.5
64	164	2.6	22.02	"	"	6000	-	77	136	3.1
60	175	2.4	23.43	"	"	6200	-	72	145	2.9
54	194	2.2	26.01	"	"	6500	-	65	161	2.6
48	215	2.0	29.34	"	"	6800	-	58	181	2.3
43	240	1.75	32.57	"	"	7000	-	52	200	2.1
41	255	1.65	34.20	"	"	7000	-	49.5	210	2.0
37	280	1.5	37.96	"	"	7000	-	44.5	235	1.8
35	300	1.4	40.19	"	"	7000	-	42	250	1.7
31.5	330	1.3	44.62	"	"	7000	-	38	275	1.55
29	360	1.2	48.36	"	"	7000	-	35	300	1.4
26.5	395	1.1	53.69	"	"	7000	-	31.5	330	1.3
23.5	445	0.96	59.64	"	"	7000	-	28.5	365	1.15
21.5	485	0.88	66.20	"	"	7000	-	25.5	410	1.05
21	500	0.85	67.74	BG40Z-../DSE08XA4	44	7000	-	25	420	1.0
47.5	220	2.9	29.62	BG50-../DSE08XA4	48	8000	-	57	184	3.4
43	240	2.6	32.84	"	"	8700	-	52	200	3.2
37	280	2.3	37.89	"	"	10000	-	44.5	235	2.7
33.5	310	2.0	42.00	"	"	10000	-	40	260	2.4
30	350	1.8	47.02	"	"	10000	-	36	290	2.2
27	385	1.65	52.12	"	"	10000	-	32.5	320	1.95
24	435	1.45	59.42	"	"	10000	-	28.5	365	1.75
21.5	485	1.3	65.86	"	"	10000	-	26	400	1.6
19.5	530	1.2	71.97	BG50Z-../DSE08XA4	53	10000	-	23.5	445	1.4
18	580	1.1	79.78	"	"	10000	-	21.5	485	1.3
15	700	0.9	95.58	"	"	10000	-	18	580	1.1
13.5	770	0.82	106.0	"	"	10000	-	16	650	0.97

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

**P = 1.1 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
20.5	510	2.4	68.32	<b>BG60Z-../DSE08XA4</b>	98	16000	-	25	420	2.9
18.5	560	2.1	75.71	"	"	16000	-	22.5	465	2.6
15.5	670	1.8	91.09	"	"	16000	-	18.5	560	2.1
14	750	1.6	101.0	"	"	16000	-	17	610	1.95
12	870	1.4	119.2	"	"	16000	-	14.5	720	1.65
11	950	1.25	132.1	"	"	16000	-	13	800	1.5
8.9	1180	1.0	158.0	"	"	16000	-	11	950	1.25
8.0	1310	0.92	175.1	"	"	16000	-	9.6	1090	1.1
15	700	3.3	95.74	<b>BG70Z-../DSE08XA4</b>	138	20000	-	18	580	4.0
12.5	840	2.7	113.6	"	"	20000	-	15	700	3.3
11.5	910	2.5	124.0	"	"	20000	-	14	750	3.1
9.6	1090	2.1	147.2	"	"	20000	-	11.5	910	2.5
8.6	1220	1.9	163.8	"	"	20000	-	10.5	1000	2.3
7.3	1430	1.6	194.4	"	"	20000	-	8.7	1200	1.9
6.7	1560	1.45	210.5	"	"	20000	-	8.0	1310	1.75
5.7	1840	1.25	249.8	"	"	20000	-	6.8	1540	1.5
5.5	1800	1.4	255.5	<b>BG70G20-../DSE08XA4</b>	136	20000	-	6.6	1480	1.7
5.1	1940	1.3	276.7	"	"	20000	-	6.1	1600	1.55
4.3	2300	1.1	328.4	"	"	20000	-	5.2	1880	1.35
3.7	2650	0.94	387.6	"	"	20000	-	4.4	2200	1.15
3.4	2950	0.85	417.8	"	"	20000	-	4.1	2400	1.05
6.2	1410	3.3	227.2	<b>BG80G40-../DSE08XA4</b>	217	26000	-	7.4	1140	4.0
5.6	1560	2.9	252.3	"	"	26000	-	6.7	1250	3.7
5.0	1790	2.6	282.8	"	"	26000	-	6.0	1440	3.2
4.5	1990	2.3	314.0	"	"	26000	-	5.4	1600	2.9
3.9	2350	1.95	360.0	"	"	26000	-	4.7	1890	2.4
3.6	2500	1.85	399.8	"	"	26000	-	4.3	2050	2.2
3.3	2800	1.65	436.2	"	"	26000	-	3.9	2350	1.95
2.9	3200	1.45	484.3	"	"	26000	-	3.5	2600	1.75
2.5	3800	1.2	572.0	"	"	26000	-	3.0	3100	1.5
2.2	4250	1.1	657.8	"	"	26000	-	2.6	3550	1.3
2.0	4750	0.97	730.3	"	"	26000	-	2.4	3850	1.2
1.8	5300	0.87	817.4	"	"	26000	-	2.1	4450	1.05
3.3	2750	3.3	435.8	<b>BG90G50-../DSE08XA4</b>	327	65000	-	3.9	2300	4.0
2.8	3250	2.8	504.7	"	"	65000	-	3.4	2600	3.5
2.4	3800	2.4	588.8	"	"	65000	-	2.9	3050	3.0
2.2	4150	2.2	644.7	"	"	65000	-	2.7	3250	2.8
2.0	4600	2.0	714.2	"	"	65000	-	2.4	3700	2.5
1.6	5800	1.6	883.7	"	"	65000	-	2.0	4550	2.0
1.2	8000	1.15	1174	"	"	65000	-	1.5	6300	1.45
1.1	8800	1.05	1301	"	"	65000	-	1.3	7400	1.25
1.4	6100	3.0	1043	<b>BG100G50-../DSE08XA4</b>	514	90000	-	1.7	4750	3.9
1.2	7100	2.6	1204	"	"	90000	-	1.4	5800	3.2
1.0	9100	2.0	1444	"	"	90000	-	1.2	7300	2.5
0.85	10700	1.75	1678	"	"	90000	-	1.1	7900	2.3
0.75	12200	1.5	1867	"	"	90000	-	0.9	9800	1.9
0.65	14100	1.3	2154	"	"	90000	-	0.8	11000	1.7
0.55	16700	1.1	2656	"	"	90000	-	0.65	13700	1.35

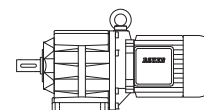
**P = 1.5 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
570	25	2.2	2.52	<b>BG10-../DSE09LA4</b>	26	560	790	680	21	2.7
420	34	1.8	3.42	"	"	630	880	500	28.5	2.2
330	43	1.6	4.36	"	"	650	910	395	36	1.9
270	53	1.4	5.34	"	"	620	910	325	44	1.7
210	68	1.2	6.78	"	"	660	920	255	56	1.45
176	81	1.1	8.07	"	"	660	920	215	66	1.35
153	93	1.05	9.33	"	"	950	1330	184	77	1.25
138	103	0.96	10.34	"	"	1000	1400	166	86	1.15

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

P = 1.5 kW

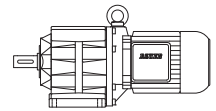


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
120	119	0.88	11.92	BG10-../DSE09LA4	"	1030	1440	144	99	1.05
108	132	0.83	13.21	"	"	1070	1490	130	110	1.0
430	33	2.8	3.33	BG20-../DSE09LA4	28	1830	-	520	27.5	3.3
325	44	2.4	4.38	"	"	1990	-	395	36	2.9
260	55	2.1	5.49	"	"	2100	-	315	45	2.6
220	65	1.9	6.48	"	"	2250	-	265	54	2.3
178	80	1.7	8.02	"	"	2500	-	215	66	2.1
172	83	1.45	8.29	"	"	2250	-	210	68	1.8
160	89	1.6	8.91	"	"	2600	-	192	74	1.95
148	96	1.25	9.65	"	"	2250	-	178	80	1.55
135	106	1.45	10.54	"	"	2700	-	163	87	1.75
122	117	1.35	11.71	"	"	2800	-	147	97	1.65
108	132	1.25	13.21	"	"	2900	-	130	110	1.5
97	147	1.15	14.67	"	"	3050	-	117	122	1.4
92	155	1.15	15.58	"	"	3100	-	110	130	1.35
83	172	1.05	17.31	"	"	3200	-	99	144	1.25
72	198	0.98	19.95	"	"	3350	-	86	166	1.15
65	220	0.91	22.16	"	"	3500	-	78	183	1.1
62	230	0.87	23.22	"	"	3550	-	74	193	1.05
215	66	3.3	6.75	BG30-../DSE09LA4	33	1760	-	255	56	3.9
180	79	2.7	7.91	"	"	1760	-	220	65	3.3
166	86	2.9	8.60	"	"	2800	-	199	71	3.5
149	96	2.6	9.55	"	"	3000	-	180	79	3.2
134	106	2.5	10.65	"	"	2950	-	161	88	3.0
121	118	2.3	11.82	"	"	3200	-	145	98	2.8
104	137	2.1	13.77	"	"	3150	-	125	114	2.6
93	154	1.95	15.27	"	"	3450	-	112	127	2.4
84	170	1.75	17.06	"	"	3700	-	101	141	2.1
76	188	1.6	18.93	"	"	4100	-	91	157	1.9
72	198	1.5	19.99	"	"	4200	-	86	166	1.8
65	220	1.35	22.18	"	"	4600	-	78	183	1.65
56	255	1.2	25.45	"	"	4850	-	68	210	1.45
51	280	1.05	28.24	"	"	5100	-	61	230	1.3
48	295	1.0	29.83	"	"	5200	-	58	245	1.2
43	330	0.91	33.09	"	"	5400	-	52	275	1.1
40.5	350	0.86	35.17	"	"	5500	-	49	290	1.05
158	90	3.3	9.00	BG40-../DSE09LA4	47	2650	-	190	75	3.9
111	129	3.2	12.86	"	"	4500	-	133	107	3.8
100	143	2.9	14.28	"	"	4900	-	120	119	3.5
87	164	2.6	16.39	"	"	5300	-	105	136	3.1
79	181	2.3	18.19	"	"	5600	-	95	150	2.8
72	198	2.1	19.84	"	"	5800	-	87	164	2.6
65	220	1.95	22.02	"	"	6000	-	78	183	2.3
61	230	1.85	23.43	"	"	6200	-	73	196	2.2
55	260	1.65	26.01	"	"	6500	-	66	215	2.0
48.5	295	1.45	29.34	"	"	6800	-	59	240	1.75
44	325	1.3	32.57	"	"	7000	-	53	270	1.55
42	340	1.25	34.20	"	"	7000	-	50	285	1.5
37.5	380	1.1	37.96	"	"	7000	-	45.5	310	1.35
35.5	400	1.05	40.19	"	"	7000	-	43	330	1.3
32	445	0.96	44.62	"	"	7000	-	38.5	370	1.15
29.5	485	0.88	48.36	"	"	7000	-	35.5	400	1.05
65	220	2.9	21.96	BG50-../DSE09LA4	55	8000	-	78	183	3.4
59	240	2.6	24.34	"	"	8700	-	71	200	3.2
48	295	2.1	29.62	"	"	8000	-	58	245	2.6
43.5	325	1.95	32.84	"	"	8700	-	53	270	2.3
37.5	380	1.65	37.89	"	"	10000	-	45.5	310	2.0
34	420	1.5	42.00	"	"	10000	-	41	345	1.85
30.5	465	1.35	47.02	"	"	10000	-	36.5	390	1.6
27.5	520	1.2	52.12	"	"	10000	-	33	430	1.45
24	590	1.05	59.42	"	"	10000	-	29	490	1.3
22	650	0.97	65.86	"	"	10000	-	26	550	1.15

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

P = 1.5 kW

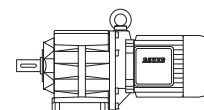


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
20	710	0.89	71.97	BG50Z-../DSE09LA4	60	10000	-	24	590	1.05
18	790	0.8	79.78	"	"	10000	-	21.5	660	0.95
37	385	3.1	38.85	BG60-../DSE09LA4	86	16000	-	44.5	320	3.8
33	430	2.8	43.05	"	"	16000	-	40	355	3.4
28.5	500	2.4	50.31	"	"	16000	-	34	420	2.9
25.5	560	2.1	55.76	"	"	16000	-	31	460	2.6
23.5	600	2.0	60.90	"	"	16000	-	28.5	500	2.4
21.5	660	1.8	67.49	"	"	16000	-	25.5	560	2.1
21	680	1.75	68.32	BG60Z-../DSE09LA4	105	16000	-	25.5	560	2.1
19	750	1.6	75.71	"	"	16000	-	23	620	1.95
16	890	1.35	91.09	"	"	16000	-	19	750	1.6
14.5	980	1.2	101.0	"	"	16000	-	17	840	1.45
12	1190	1.0	119.2	"	"	16000	-	14.5	980	1.2
11	1300	0.92	132.1	"	"	16000	-	13	1100	1.1
19.5	730	3.2	73.82	BG70Z-../DSE09LA4	145	20000	-	23.5	600	3.8
16.5	860	2.7	87.61	"	"	20000	-	20	710	3.2
15	950	2.4	95.74	"	"	20000	-	18	790	2.9
12.5	1140	2.0	113.6	"	"	20000	-	15.5	920	2.5
11.5	1240	1.85	124.0	"	"	20000	-	14	1020	2.3
9.7	1470	1.55	147.2	"	"	20000	-	12	1190	1.95
8.7	1640	1.4	163.8	"	"	20000	-	10.5	1360	1.7
7.4	1930	1.2	194.4	"	"	20000	-	8.8	1620	1.4
6.8	2100	1.1	210.5	"	"	20000	-	8.2	1740	1.3
5.7	2500	0.92	249.8	"	"	20000	-	6.9	2050	1.1
5.6	2450	1.0	255.5	BG70G20-../DSE09LA4	142	20000	-	6.7	2000	1.25
5.2	2600	0.96	276.7	"	"	20000	-	6.2	2150	1.15
4.4	3100	0.81	328.4	"	"	20000	-	5.3	2550	0.98
9.8	1460	2.9	145.4	BG80Z-../DSE09LA4	213	26000	-	12	1190	3.5
8.8	1620	2.6	161.5	"	"	26000	-	11	1300	3.2
7.7	1860	2.3	186.8	"	"	26000	-	9.2	1550	2.7
6.9	2050	2.0	207.4	"	"	26000	-	8.3	1720	2.4
6.3	1990	2.3	227.2	BG80G40-../DSE09LA4	224	26000	-	7.6	1600	2.9
5.7	2200	2.1	252.3	"	"	26000	-	6.8	1790	2.6
5.1	2500	1.85	282.8	"	"	26000	-	6.1	2000	2.3
4.6	2750	1.65	314.0	"	"	26000	-	5.5	2250	2.0
4.0	3200	1.45	360.0	"	"	26000	-	4.8	2600	1.75
3.6	3600	1.3	399.8	"	"	26000	-	4.3	2950	1.55
3.3	4000	1.15	436.2	"	"	26000	-	4.0	3200	1.45
3.0	4350	1.05	484.3	"	"	26000	-	3.6	3600	1.3
2.5	5300	0.87	572.0	"	"	26000	-	3.0	4350	1.05
4.0	3050	3.0	360.3	BG90G50-../DSE09LA4	334	65000	-	4.8	2500	3.7
3.3	3950	2.3	435.8	"	"	65000	-	4.0	3150	2.9
2.9	4450	2.1	504.7	"	"	65000	-	3.4	3700	2.5
2.5	5100	1.8	588.8	"	"	65000	-	3.0	4200	2.2
2.3	5600	1.65	644.7	"	"	65000	-	2.7	4650	2.0
2.0	6500	1.4	714.2	"	"	65000	-	2.4	5300	1.75
1.7	7700	1.2	883.7	"	"	65000	-	2.0	6400	1.45
1.3	10300	0.89	1174	"	"	65000	-	1.5	8800	1.05
2.5	5700	3.2	591.1	BG100Z-../DSE09LA4	522	90000	-	2.9	4900	3.8
2.2	6500	2.8	658.1	"	"	90000	-	2.6	5500	3.4
1.9	7500	2.5	759.0	"	"	90000	-	2.3	6200	3.0
1.7	8400	2.2	845.1	"	"	90000	-	2.1	6800	2.7
1.5	7900	2.3	976.1	BG100G50-../DSE09LA4	521	90000	-	1.8	6300	2.9
1.4	8800	2.1	1043	"	"	90000	-	1.7	7000	2.6
1.2	10300	1.8	1204	"	"	90000	-	1.5	7900	2.3
1.0	12900	1.45	1444	"	"	90000	-	1.2	10500	1.75
0.85	15200	1.2	1678	"	"	90000	-	1.1	11400	1.6
0.8	16100	1.15	1867	"	"	90000	-	0.95	13200	1.4
0.7	18400	1.0	2154	"	"	90000	-	0.8	15800	1.15

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

P = 2.2 kW



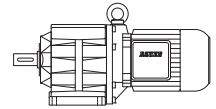
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
570	36.5	1.55	2.52	BG10-../DSE09XA4	30	560	790	680	30.5	1.85
420	50	1.25	3.42	"	"	630	880	500	42	1.5
330	63	1.1	4.36	"	"	650	910	395	53	1.3
270	77	0.97	5.34	"	"	620	910	325	64	1.15
210	100	0.81	6.78	"	"	660	920	255	82	0.99
570	36.5	2.3	2.52	BG20-../DSE09XA4	32	1660	-	680	30.5	2.8
430	48.5	1.9	3.33	"	"	1830	-	520	40	2.3
325	64	1.65	4.38	"	"	1990	-	395	53	1.95
260	80	1.45	5.49	"	"	2100	-	315	66	1.75
220	95	1.3	6.48	"	"	2250	-	265	79	1.55
178	118	1.15	8.02	"	"	2500	-	215	97	1.4
172	122	1.0	8.29	"	"	2250	-	210	100	1.2
160	131	1.1	8.91	"	"	2600	-	192	109	1.3
148	141	0.87	9.65	"	"	2250	-	178	118	1.05
135	155	0.99	10.54	"	"	2700	-	163	128	1.2
122	172	0.92	11.71	"	"	2800	-	147	142	1.1
108	194	0.86	13.21	"	"	2900	-	130	161	1.05
97	215	0.8	14.67	"	"	3050	-	117	179	0.96
540	38.5	3.3	2.67	BG30-../DSE09XA4	37	1450	-	650	32	4.0
420	50	2.8	3.40	"	"	1580	-	510	41	3.4
340	61	2.8	4.21	"	"	1630	-	410	51	3.4
265	79	2.5	5.44	"	"	1670	-	315	66	3.0
215	97	2.2	6.75	"	"	1760	-	255	82	2.6
180	116	1.85	7.91	"	"	1760	-	220	95	2.3
166	126	1.95	8.60	"	"	2800	-	199	105	2.3
149	141	1.8	9.55	"	"	3000	-	180	116	2.2
134	156	1.7	10.65	"	"	2950	-	161	130	2.0
121	173	1.6	11.82	"	"	3200	-	145	144	1.9
104	200	1.45	13.77	"	"	3150	-	125	168	1.75
93	225	1.35	15.27	"	"	3450	-	112	187	1.6
84	250	1.2	17.06	"	"	3700	-	101	205	1.45
76	275	1.1	18.93	"	"	4100	-	91	230	1.3
72	290	1.05	19.99	"	"	4200	-	86	240	1.25
65	320	0.94	22.18	"	"	4600	-	78	265	1.15
56	375	0.8	25.45	"	"	4850	-	68	305	0.98
230	91	3.2	6.29	BG40-../DSE09XA4	51	2600	-	275	76	3.9
187	112	2.6	7.62	"	"	2650	-	225	93	3.2
171	122	2.8	8.31	"	"	4100	-	210	100	3.4
158	132	2.2	9.00	"	"	2650	-	190	110	2.7
154	136	2.6	9.23	"	"	4350	-	186	112	3.2
138	152	2.5	10.35	"	"	4350	-	166	126	3.0
124	169	2.3	11.49	"	"	4600	-	149	141	2.8
111	189	2.2	12.86	"	"	4500	-	133	157	2.6
100	210	2.0	14.28	"	"	4900	-	120	175	2.4
87	240	1.75	16.39	"	"	5300	-	105	200	2.1
79	265	1.6	18.19	"	"	5600	-	95	220	1.95
72	290	1.45	19.84	"	"	5800	-	87	240	1.75
65	320	1.35	22.02	"	"	6000	-	78	265	1.6
61	340	1.25	23.43	"	"	6200	-	73	285	1.5
55	380	1.1	26.01	"	"	6500	-	66	315	1.35
48.5	430	0.99	29.34	"	"	6800	-	59	355	1.2
44	475	0.89	32.57	"	"	7000	-	53	395	1.1
42	500	0.85	34.20	"	"	7000	-	50	420	1.0
118	178	3.2	12.06	BG50-../DSE09XA4	59	5700	-	142	147	3.9
107	196	3.0	13.36	"	"	6100	-	128	164	3.6
86	240	2.6	16.53	"	"	6500	-	104	200	3.2
78	265	2.4	18.33	"	"	7200	-	94	220	2.9
65	320	1.95	21.96	"	"	8000	-	78	265	2.4
59	355	1.75	24.34	"	"	8700	-	71	295	2.1
48	435	1.45	29.62	"	"	8000	-	58	360	1.75
43.5	480	1.3	32.84	"	"	8700	-	53	395	1.6
37.5	560	1.15	37.89	"	"	10000	-	45.5	460	1.35



# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

**P = 2.2 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
34	610	1.05	42.00	<b>BG50-../DSE09XA4</b>	"	10000	-	41	510	1.25
30.5	680	0.93	47.02	"	"	10000	-	36.5	570	1.1
27.5	760	0.83	52.12	"	"	10000	-	33	630	1.0
58	360	3.3	24.82	<b>BG60-../DSE09XA4</b>	90	13800	-	69	300	4.0
48.5	430	2.8	29.31	"	"	14800	-	59	355	3.4
44	475	2.5	32.48	"	"	15400	-	53	395	3.0
37	560	2.1	38.85	"	"	16000	-	44.5	470	2.6
33	630	1.9	43.05	"	"	16000	-	40	520	2.3
28.5	730	1.65	50.31	"	"	16000	-	34	610	1.95
25.5	820	1.45	55.76	"	"	16000	-	31	670	1.8
23.5	890	1.35	60.90	"	"	16000	-	28.5	730	1.65
21.5	970	1.25	67.49	"	"	16000	-	25.5	820	1.45
21	1000	1.2	68.32	<b>BG60Z-../DSE09XA4</b>	109	16000	-	25.5	820	1.45
19	1100	1.1	75.71	"	"	16000	-	23	910	1.3
16	1310	0.92	91.09	"	"	16000	-	19	1100	1.1
14.5	1440	0.83	101.0	"	"	16000	-	17	1230	0.98
28.5	730	3.2	50.40	<b>BG70-../DSE09XA4</b>	128	20000	-	34	610	3.8
24	870	2.6	59.82	"	"	20000	-	29	720	3.2
22	950	2.4	64.85	<b>BG70Z-../DSE09XA4</b>	149	20000	-	26.5	790	2.9
19.5	1070	2.1	73.82	"	"	20000	-	23.5	890	2.6
16.5	1270	1.8	87.61	"	"	20000	-	20	1050	2.2
15	1400	1.65	95.74	"	"	20000	-	18	1160	2.0
12.5	1680	1.35	113.6	"	"	20000	-	15.5	1350	1.7
11.5	1820	1.25	124.0	"	"	20000	-	14	1500	1.55
9.7	2150	1.05	147.2	"	"	20000	-	12	1750	1.3
8.7	2400	0.96	163.8	"	"	20000	-	10.5	2000	1.15
7.4	2800	0.82	194.4	"	"	20000	-	8.8	2350	0.98
15.5	1350	3.1	93.89	<b>BG80Z-../DSE09XA4</b>	217	26000	-	18.5	1130	3.7
13	1610	2.6	112.4	"	"	26000	-	15.5	1350	3.1
11.5	1820	2.3	124.8	"	"	26000	-	14	1500	2.8
9.8	2100	2.0	145.4	"	"	26000	-	12	1750	2.4
8.8	2350	1.8	161.5	"	"	26000	-	11	1910	2.2
7.7	2700	1.55	186.8	"	"	26000	-	9.2	2250	1.85
6.9	3000	1.4	207.4	"	"	26000	-	8.3	2500	1.7
6.3	3050	1.5	227.2	<b>BG80G40-../DSE09XA4</b>	228	26000	-	7.6	2450	1.9
5.7	3350	1.35	252.3	"	"	26000	-	6.8	2750	1.65
5.1	3800	1.2	282.8	"	"	26000	-	6.1	3100	1.5
4.6	4200	1.1	314.0	"	"	26000	-	5.5	3450	1.35
4.0	4900	0.94	360.0	"	"	26000	-	4.8	4000	1.15
3.6	5400	0.85	399.8	"	"	26000	-	4.3	4500	1.0
8.0	2600	3.2	178.5	<b>BG90Z-../DSE09XA4</b>	327	65000	-	9.6	2150	3.9
6.9	3000	2.8	208.3	"	"	65000	-	8.3	2500	3.4
6.3	3300	2.5	228.1	"	"	65000	-	7.5	2800	3.0
5.5	3350	2.7	262.5	<b>BG90G50-../DSE09XA4</b>	338	65000	-	6.6	2750	3.3
4.8	4050	2.3	298.8	"	"	65000	-	5.8	3300	2.8
4.0	4750	1.95	360.3	"	"	65000	-	4.8	3850	2.4
3.3	5900	1.55	435.8	"	"	65000	-	4.0	4850	1.9
2.9	6700	1.35	504.7	"	"	65000	-	3.4	5600	1.65
2.5	7800	1.2	588.8	"	"	65000	-	3.0	6400	1.45
2.3	8500	1.1	644.7	"	"	65000	-	2.7	7100	1.3
2.0	9800	0.94	714.2	"	"	65000	-	2.4	8100	1.15
3.2	6500	2.8	456.7	<b>BG100Z-../DSE09XA4</b>	526	90000	-	3.8	5500	3.4
2.8	7500	2.5	508.5	"	"	90000	-	3.4	6100	3.0
2.5	8400	2.2	591.1	"	"	90000	-	2.9	7200	2.6
2.2	9500	1.95	658.1	"	"	90000	-	2.6	8000	2.3
1.9	11000	1.7	759.0	"	"	90000	-	2.3	9100	2.0
1.7	12300	1.5	845.1	"	"	90000	-	2.1	10000	1.85
1.5	12400	1.5	976.1	<b>BG100G50-../DSE09XA4</b>	525	90000	-	1.8	10000	1.85
1.4	13600	1.35	1043	"	"	90000	-	1.7	10900	1.7
1.2	15800	1.15	1204	"	"	90000	-	1.5	12300	1.5
1.0	19600	0.94	1444	"	"	90000	-	1.2	16100	1.15

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 3 kW

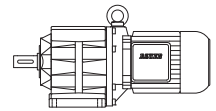


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
540	53	2.4	2.67	BG30-../DSE11SA4	40	1450	-	650	44	2.9
420	68	2.0	3.40	"	"	1580	-	510	56	2.5
340	84	2.0	4.21	"	"	1630	-	410	69	2.5
265	108	1.85	5.44	"	"	1670	-	315	90	2.2
215	133	1.65	6.75	"	"	1760	-	255	112	1.95
180	159	1.35	7.91	"	"	1760	-	220	130	1.65
166	172	1.45	8.60	"	"	2800	-	199	143	1.7
149	192	1.3	9.55	"	"	3000	-	180	159	1.6
134	210	1.25	10.65	"	"	2950	-	161	177	1.5
121	235	1.15	11.82	"	"	3200	-	145	197	1.4
104	275	1.05	13.77	"	"	3150	-	125	225	1.3
93	305	0.98	15.27	"	"	3450	-	112	255	1.2
84	340	0.88	17.06	"	"	3700	-	101	280	1.05
76	375	0.8	18.93	"	"	4100	-	91	310	0.97
360	79	3.1	3.97	BG40-../DSE11SA4	59	2400	-	435	65	3.8
290	98	2.7	4.94	"	"	2450	-	350	81	3.3
230	124	2.4	6.29	"	"	2600	-	275	104	2.8
187	153	1.95	7.62	"	"	2650	-	225	127	2.3
171	167	2.1	8.31	"	"	4100	-	210	136	2.5
158	181	1.65	9.00	"	"	2650	-	190	150	1.95
154	186	1.9	9.23	"	"	4350	-	186	154	2.3
138	205	1.85	10.35	"	"	4350	-	166	172	2.2
124	230	1.7	11.49	"	"	4600	-	149	192	2.0
111	255	1.6	12.86	"	"	4500	-	133	215	1.9
100	285	1.5	14.28	"	"	4900	-	120	235	1.8
87	325	1.3	16.39	"	"	5300	-	105	270	1.55
79	360	1.2	18.19	"	"	5600	-	95	300	1.4
72	395	1.1	19.84	"	"	5800	-	87	325	1.3
65	440	0.97	22.02	"	"	6000	-	78	365	1.15
61	465	0.91	23.43	"	"	6200	-	73	390	1.1
55	520	0.82	26.01	"	"	6500	-	66	430	0.99
164	174	2.9	8.70	BG50-../DSE11SA4	69	5300	-	197	145	3.5
148	193	2.7	9.65	"	"	5600	-	178	160	3.3
118	240	2.4	12.06	"	"	5700	-	142	200	2.9
107	265	2.2	13.36	"	"	6100	-	128	220	2.7
86	330	1.9	16.53	"	"	6500	-	104	275	2.3
78	365	1.75	18.33	"	"	7200	-	94	300	2.1
65	440	1.45	21.96	"	"	8000	-	78	365	1.75
59	485	1.3	24.34	"	"	8700	-	71	400	1.6
48	590	1.05	29.62	"	"	8000	-	58	490	1.3
43.5	650	0.97	32.84	"	"	8700	-	53	540	1.15
37.5	760	0.83	37.89	"	"	10000	-	45.5	620	1.0
85	335	3.3	16.80	BG60-../DSE11SA4	101	12000	-	102	280	4.0
77	370	3.1	18.62	"	"	12400	-	92	310	3.7
64	445	2.7	22.40	"	"	13300	-	77	370	3.2
58	490	2.4	24.82	"	"	13800	-	69	415	2.9
48.5	590	2.0	29.31	"	"	14800	-	59	485	2.5
44	650	1.85	32.48	"	"	15400	-	53	540	2.2
37	770	1.55	38.85	"	"	16000	-	44.5	640	1.9
33	860	1.4	43.05	"	"	16000	-	40	710	1.7
28.5	1000	1.2	50.31	"	"	16000	-	34	840	1.45
25.5	1120	1.05	55.76	"	"	16000	-	31	920	1.3
23.5	1210	0.99	60.90	"	"	16000	-	28.5	1000	1.2
21.5	1330	0.9	67.49	"	"	16000	-	25.5	1120	1.05
21	1360	0.88	68.32	BG60Z-../DSE11SA4	117	16000	-	25.5	1120	1.05
19	1500	0.8	75.71	"	"	16000	-	23	1240	0.97
40.5	700	3.3	35.24	BG70-../DSE11SA4	132	18300	-	49	580	4.0
36.5	780	2.9	39.22	"	"	19100	-	44	650	3.5
31	920	2.5	46.54	"	"	20000	-	37	770	3.0
28.5	1000	2.3	50.40	"	"	20000	-	34	840	2.7
24	1190	1.95	59.82	"	"	20000	-	29	980	2.3

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

**P = 3 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
22	1300	1.75	64.85	BG70Z-../DSE11SA4	158	20000	-	26.5	1080	2.1
19.5	1460	1.6	73.82	"	"	20000	-	23.5	1210	1.9
16.5	1730	1.35	87.61	"	"	20000	-	20	1430	1.6
15	1910	1.2	95.74	"	"	20000	-	18	1590	1.45
12.5	2250	1.0	113.6	"	"	20000	-	15.5	1840	1.25
11.5	2450	0.94	124.0	"	"	20000	-	14	2000	1.15
22.5	1270	3.3	63.56	BG80-../DSE11SA4	186	26000	-	27	1060	4.0
21.5	1330	3.2	66.40	BG80Z-../DSE11SA4	228	26000	-	26	1100	3.8
19.5	1460	2.9	73.73	"	"	26000	-	23.5	1210	3.5
17	1680	2.5	84.55	"	"	26000	-	20.5	1390	3.0
15.5	1840	2.3	93.89	"	"	26000	-	18.5	1540	2.7
13	2200	1.9	112.4	"	"	26000	-	15.5	1840	2.3
11.5	2450	1.7	124.8	"	"	26000	-	14	2000	2.1
9.8	2900	1.45	145.4	"	"	26000	-	12	2350	1.8
8.8	3250	1.3	161.5	"	"	26000	-	11	2600	1.6
7.7	3700	1.15	186.8	"	"	26000	-	9.2	3100	1.35
6.9	4150	1.0	207.4	"	"	26000	-	8.3	3450	1.2
6.3	4250	1.1	227.2	BG80G40-../DSE11SA4	236	26000	-	7.6	3450	1.35
5.7	4700	0.98	252.3	"	"	26000	-	6.8	3900	1.2
5.1	5300	0.87	282.8	"	"	26000	-	6.1	4350	1.05
10.5	2700	3.1	139.2	BG90Z-../DSE11SA4	330	65000	-	12.5	2250	3.7
8.8	3250	2.6	163.0	"	"	65000	-	10.5	2700	3.1
8.0	3550	2.4	178.5	"	"	65000	-	9.6	2950	2.8
6.9	4150	2.0	208.3	"	"	65000	-	8.3	3450	2.4
6.3	4500	1.85	228.1	"	"	65000	-	7.5	3800	2.2
5.5	4750	1.95	262.5	BG90G50-../DSE11SA4	347	65000	-	6.6	3900	2.4
4.8	5600	1.65	298.8	"	"	65000	-	5.8	4650	2.0
4.0	6600	1.4	360.3	"	"	65000	-	4.8	5400	1.7
3.3	8200	1.1	435.8	"	"	65000	-	4.0	6700	1.35
2.9	9300	0.99	504.7	"	"	65000	-	3.4	7900	1.15
2.5	10800	0.85	588.8	"	"	65000	-	3.0	8900	1.05
5.5	5200	3.2	259.0	BG100-../DSE11SA4	447	90000	-	6.7	4250	4.0
4.8	5900	3.1	300.4	BG100Z-../DSE11SA4	537	90000	-	5.7	5000	3.7
4.2	6800	2.7	343.6	"	"	90000	-	5.0	5700	3.2
3.8	7500	2.5	382.6	"	"	90000	-	4.5	6300	2.9
3.2	8900	2.1	456.7	"	"	90000	-	3.8	7500	2.5
2.8	10200	1.8	508.5	"	"	90000	-	3.4	8400	2.2
2.5	11400	1.6	591.1	"	"	90000	-	2.9	9800	1.9
2.2	13000	1.4	658.1	"	"	90000	-	2.6	11000	1.7
1.9	15000	1.25	759.0	"	"	90000	-	2.3	12400	1.5
1.7	16800	1.1	845.1	"	"	90000	-	2.1	13600	1.35
1.5	17500	1.05	976.1	BG100G50-../DSE11SA4	534	90000	-	1.8	14300	1.3
1.4	19000	0.97	1043	"	"	90000	-	1.7	15400	1.2
1.2	22200	0.83	1204	"	"	90000	-	1.5	17400	1.05

**P = 4 kW**

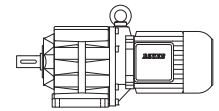
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
540	70	1.85	2.67	BG30-../DSE11MA4	46	1450	-	650	58	2.2
420	90	1.55	3.40	"	"	1580	-	510	74	1.9
340	112	1.55	4.21	"	"	1630	-	410	93	1.85
265	144	1.4	5.44	"	"	1670	-	315	121	1.65
215	177	1.25	6.75	"	"	1760	-	255	149	1.45
180	210	1.05	7.91	"	"	1760	-	220	173	1.25
166	230	1.05	8.60	"	"	2800	-	199	191	1.3
149	255	1.0	9.55	"	"	3000	-	180	210	1.2
134	285	0.93	10.65	"	"	2950	-	161	235	1.15
121	315	0.87	11.82	"	"	3200	-	145	260	1.05
104	365	0.81	13.77	"	"	3150	-	125	305	0.96

6

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 4 kW



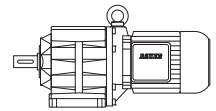
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
580	65	3.1	2.46	BG40-../DSE11MA4	65	2150	-	700	54	3.7
450	84	2.7	3.19	"	"	2350	-	540	70	3.2
360	106	2.3	3.97	"	"	2400	-	435	87	2.8
290	131	2.0	4.94	"	"	2450	-	350	109	2.5
230	166	1.8	6.29	"	"	2600	-	275	138	2.1
187	200	1.5	7.62	"	"	2650	-	225	169	1.75
171	220	1.55	8.31	"	"	4100	-	210	181	1.9
158	240	1.25	9.00	"	"	2650	-	190	200	1.5
154	245	1.45	9.23	"	"	4350	-	186	205	1.75
138	275	1.35	10.35	"	"	4350	-	166	230	1.65
124	305	1.3	11.49	"	"	4600	-	149	255	1.55
111	340	1.2	12.86	"	"	4500	-	133	285	1.45
100	380	1.1	14.28	"	"	4900	-	120	315	1.35
87	435	0.98	16.39	"	"	5300	-	105	360	1.2
79	480	0.89	18.19	"	"	5600	-	95	400	1.05
72	530	0.8	19.84	"	"	5800	-	87	435	0.98
290	131	3.0	4.91	BG50-../DSE11MA4	75	3500	-	350	109	3.7
215	177	2.6	6.74	"	"	3750	-	255	149	3.0
164	230	2.2	8.70	"	"	5300	-	197	193	2.6
148	255	2.1	9.65	"	"	5600	-	178	210	2.5
118	320	1.8	12.06	"	"	5700	-	142	265	2.2
107	355	1.65	13.36	"	"	6100	-	128	295	2.0
86	440	1.45	16.53	"	"	6500	-	104	365	1.75
78	485	1.3	18.33	"	"	7200	-	94	405	1.55
65	580	1.1	21.96	"	"	8000	-	78	485	1.3
59	640	0.98	24.34	"	"	8700	-	71	530	1.2
48	790	0.8	29.62	"	"	8000	-	58	650	0.97
117	325	3.0	12.16	BG60-../DSE11MA4	107	10800	-	141	270	3.7
106	360	2.8	13.47	"	"	11200	-	127	300	3.4
85	445	2.5	16.80	"	"	12000	-	102	370	3.0
77	495	2.3	18.62	"	"	12400	-	92	415	2.8
64	590	2.0	22.40	"	"	13300	-	77	495	2.4
58	650	1.85	24.82	"	"	13800	-	69	550	2.2
48.5	780	1.55	29.31	"	"	14800	-	59	640	1.9
44	860	1.4	32.48	"	"	15400	-	53	720	1.65
37	1030	1.15	38.85	"	"	16000	-	44.5	850	1.4
33	1150	1.05	43.05	"	"	16000	-	40	950	1.25
28.5	1340	0.9	50.31	"	"	16000	-	34	1120	1.05
25.5	1490	0.81	55.76	"	"	16000	-	31	1230	0.98
53	720	3.2	27.21	BG70-../DSE11MA4	138	16400	-	63	600	3.8
48	790	2.9	29.69	"	"	16900	-	58	650	3.5
40.5	940	2.4	35.24	"	"	18300	-	49	770	3.0
36.5	1040	2.2	39.22	"	"	19100	-	44	860	2.7
31	1230	1.85	46.54	"	"	20000	-	37	1030	2.2
28.5	1340	1.7	50.40	"	"	20000	-	34	1120	2.1
24	1590	1.45	59.82	"	"	20000	-	29	1310	1.75
22	1730	1.35	64.85	BG70Z-../DSE11MA4	164	20000	-	26.5	1440	1.6
19.5	1950	1.2	73.82	"	"	20000	-	23.5	1620	1.4
16.5	2300	1.0	87.61	"	"	20000	-	20	1910	1.2
15	2500	0.92	95.74	"	"	20000	-	18	2100	1.1
29.5	1290	3.3	48.80	BG80-../DSE11MA4	192	23800	-	35.5	1070	3.9
25	1520	2.8	57.24	"	"	25400	-	30	1270	3.3
22.5	1690	2.5	63.56	"	"	26000	-	27	1410	3.0
21.5	1770	2.4	66.40	BG80Z-../DSE11MA4	234	26000	-	26	1460	2.9
19.5	1950	2.2	73.73	"	"	26000	-	23.5	1620	2.6
17	2200	1.9	84.55	"	"	26000	-	20.5	1860	2.3
15.5	2450	1.7	93.89	"	"	26000	-	18.5	2050	2.0
13	2900	1.45	112.4	"	"	26000	-	15.5	2450	1.7
11.5	3300	1.25	124.8	"	"	26000	-	14	2700	1.55
9.8	3850	1.1	145.4	"	"	26000	-	12	3150	1.35
8.8	4300	0.98	161.5	"	"	26000	-	11	3450	1.2
7.7	4950	0.85	186.8	"	"	26000	-	9.2	4150	1.0

6

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

**P = 4 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
6.3	5700	0.81	227.2	BG80G40-../DSE11MA4	242	26000	-	7.6	4700	0.98
13.5	2800	3.0	105.7	BG90Z-../DSE11MA4	336	65000	-	16.5	2300	3.7
11.5	3300	2.5	127.1	"	"	65000	-	13.5	2800	3.0
10.5	3600	2.3	139.2	"	"	65000	-	12.5	3050	2.8
8.8	4300	1.95	163.0	"	"	65000	-	10.5	3600	2.3
8.0	4750	1.75	178.5	"	"	65000	-	9.6	3950	2.1
6.9	5500	1.55	208.3	"	"	65000	-	8.3	4600	1.85
6.3	6000	1.4	228.1	"	"	65000	-	7.5	5000	1.7
5.5	6500	1.4	262.5	BG90G50-../DSE11MA4	353	65000	-	6.6	5300	1.75
4.8	7600	1.2	298.8	"	"	65000	-	5.8	6300	1.45
4.0	9000	1.0	360.3	"	"	65000	-	4.8	7400	1.25
3.3	11100	0.83	435.8	"	"	65000	-	4.0	9100	1.0
7.2	5300	3.2	198.8	BG100-../DSE11MA4	453	90000	-	8.7	4350	3.9
6.2	6100	2.8	232.6	"	"	90000	-	7.4	5100	3.3
5.5	6900	2.4	259.0	"	"	90000	-	6.7	5700	2.9
5.3	7200	2.6	269.8	BG100Z-../DSE11MA4	543	90000	-	6.4	5900	3.1
4.8	7900	2.3	300.4	"	"	90000	-	5.7	6700	2.8
4.2	9000	2.1	343.6	"	"	90000	-	5.0	7600	2.4
3.8	10000	1.85	382.6	"	"	90000	-	4.5	8400	2.2
3.2	11900	1.55	456.7	"	"	90000	-	3.8	10000	1.85
2.8	13600	1.35	508.5	"	"	90000	-	3.4	11200	1.65
2.5	15200	1.2	591.1	"	"	90000	-	2.9	13100	1.4
2.2	17300	1.05	658.1	"	"	90000	-	2.6	14600	1.25
1.9	20100	0.92	759.0	"	"	90000	-	2.3	16600	1.1
1.7	22400	0.83	845.1	"	"	90000	-	2.1	18100	1.0

6

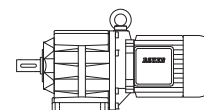
**P = 5.5 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
540	97	1.3	2.67	BG30-../DSE11LA4	58	1450	-	650	80	1.6
420	125	1.1	3.40	"	"	1580	-	510	102	1.35
340	154	1.1	4.21	"	"	1630	-	410	128	1.35
265	198	1.0	5.44	"	"	1670	-	315	166	1.2
215	240	0.9	6.75	"	"	1760	-	255	205	1.05
580	90	2.2	2.46	BG40-../DSE11LA4	77	2150	-	700	75	2.7
450	116	1.95	3.19	"	"	2350	-	540	97	2.3
360	145	1.7	3.97	"	"	2400	-	435	120	2.0
290	181	1.5	4.94	"	"	2450	-	350	150	1.8
230	225	1.3	6.29	"	"	2600	-	275	191	1.55
187	280	1.05	7.62	"	"	2650	-	225	230	1.3
171	305	1.15	8.31	"	"	4100	-	210	250	1.4
158	330	0.89	9.00	"	"	2650	-	190	275	1.05
154	340	1.05	9.23	"	"	4350	-	186	280	1.3
138	380	0.99	10.35	"	"	4350	-	166	315	1.2
124	420	0.93	11.49	"	"	4600	-	149	350	1.1
111	470	0.87	12.86	"	"	4500	-	133	390	1.05
100	520	0.81	14.28	"	"	4900	-	120	435	0.97
400	131	2.6	3.55	BG50-../DSE11LA4	86	3300	-	485	108	3.2
290	181	2.2	4.91	"	"	3500	-	350	150	2.7
215	240	1.9	6.74	"	"	3750	-	255	205	2.2
164	320	1.6	8.70	"	"	5300	-	197	265	1.9
148	350	1.5	9.65	"	"	5600	-	178	295	1.8
118	445	1.3	12.06	"	"	5700	-	142	365	1.6
107	490	1.2	13.36	"	"	6100	-	128	410	1.45
86	610	1.05	16.53	"	"	6500	-	104	500	1.25
78	670	0.94	18.33	"	"	7200	-	94	550	1.15

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 5.5 kW

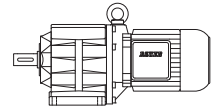


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
210	250	3.1	6.88	BG60-../DSE11LA4	119	8600	-	250	210	3.7
156	335	2.7	9.13	"	"	9800	-	188	275	3.2
141	370	2.5	10.12	"	"	10200	-	169	310	2.9
117	445	2.2	12.16	"	"	10800	-	141	370	2.7
106	495	2.1	13.47	"	"	11200	-	127	410	2.5
85	610	1.8	16.80	"	"	12000	-	102	510	2.2
77	680	1.7	18.62	"	"	12400	-	92	570	2.0
64	820	1.45	22.40	"	"	13300	-	77	680	1.75
58	900	1.35	24.82	"	"	13800	-	69	760	1.6
48.5	1080	1.1	29.31	"	"	14800	-	59	890	1.35
44	1190	1.0	32.48	"	"	15400	-	53	990	1.2
37	1410	0.85	38.85	"	"	16000	-	44.5	1180	1.0
68	770	3.0	20.98	BG70-../DSE11LA4	149	14600	-	82	640	3.6
62	840	2.7	22.92	"	"	15100	-	75	700	3.3
53	990	2.3	27.21	"	"	16400	-	63	830	2.8
48	1090	2.1	29.69	"	"	16900	-	58	900	2.6
40.5	1290	1.8	35.24	"	"	18300	-	49	1070	2.1
36.5	1430	1.6	39.22	"	"	19100	-	44	1190	1.95
31	1690	1.35	46.54	"	"	20000	-	37	1410	1.65
28.5	1840	1.25	50.40	"	"	20000	-	34	1540	1.5
24	2150	1.05	59.82	"	"	20000	-	29	1810	1.25
22	2350	0.98	64.85	BG70Z-../DSE11LA4	176	20000	-	26.5	1980	1.15
19.5	2650	0.87	73.82	"	"	20000	-	23.5	2200	1.05
41.5	1260	3.3	34.22	BG80-../DSE11LA4	204	20200	-	50	1050	4.0
37.5	1400	3.0	38.00	"	"	21300	-	45	1160	3.6
32.5	1610	2.6	43.94	"	"	22600	-	39	1340	3.1
29.5	1780	2.4	48.80	"	"	23800	-	35.5	1470	2.9
25	2100	2.0	57.24	"	"	25400	-	30	1750	2.4
22.5	2300	1.85	63.56	"	"	26000	-	27	1940	2.2
21.5	2400	1.75	66.40	BG80Z-../DSE11LA4	246	26000	-	26	2000	2.1
19.5	2650	1.6	73.73	"	"	26000	-	23.5	2200	1.9
17	3050	1.4	84.55	"	"	26000	-	20.5	2550	1.65
15.5	3350	1.25	93.89	"	"	26000	-	18.5	2800	1.5
13	4000	1.05	112.4	"	"	26000	-	15.5	3350	1.25
11.5	4550	0.92	124.8	"	"	26000	-	14	3750	1.1
25	2100	3.2	57.04	BG90Z-../DSE11LA4	348	65000	-	30	1750	3.9
23	2250	3.3	62.47	"	"	65000	-	27.5	1910	3.9
19	2750	3.1	76.61	"	"	65000	-	22.5	2300	3.7
17	3050	2.8	83.91	"	"	65000	-	20.5	2550	3.3
15	3500	2.4	96.53	"	"	65000	-	18	2900	2.9
13.5	3850	2.2	105.7	"	"	65000	-	16.5	3150	2.7
11.5	4550	1.85	127.1	"	"	65000	-	13.5	3850	2.2
10.5	5000	1.7	139.2	"	"	65000	-	12.5	4200	2.0
8.8	5900	1.4	163.0	"	"	65000	-	10.5	5000	1.7
8.0	6500	1.3	178.5	"	"	65000	-	9.6	5400	1.55
6.9	7600	1.1	208.3	"	"	65000	-	8.3	6300	1.35
6.3	8300	1.0	228.1	"	"	65000	-	7.5	7000	1.2
5.5	9100	1.0	262.5	BG90G50-../DSE11LA4	365	65000	-	6.6	7500	1.25
4.8	10600	0.87	298.8	"	"	65000	-	5.8	8700	1.05
9.2	5700	2.9	154.8	BG100-../DSE11LA4	465	90000	-	11.5	4550	3.7
8.0	6500	2.6	178.6	"	"	90000	-	9.6	5400	3.1
7.2	7200	2.3	198.8	"	"	90000	-	8.7	6000	2.8
6.2	8400	2.0	232.6	"	"	90000	-	7.4	7000	2.4
5.5	9500	1.75	259.0	"	"	90000	-	6.7	7800	2.2
5.3	9900	1.85	269.8	BG100Z-../DSE11LA4	555	90000	-	6.4	8200	2.3
4.8	10900	1.7	300.4	"	"	90000	-	5.7	9200	2.0
4.2	12500	1.5	343.6	"	"	90000	-	5.0	10500	1.75
3.8	13800	1.35	382.6	"	"	90000	-	4.5	11600	1.6
3.2	16400	1.15	456.7	"	"	90000	-	3.8	13800	1.35
2.8	18700	0.99	508.5	"	"	90000	-	3.4	15400	1.2
2.5	21000	0.88	591.1	"	"	90000	-	2.9	18100	1.0

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

P = 7.5 kW

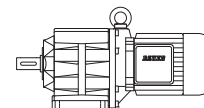


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
590	121	2.5	2.47	BG50-../DSE13MA4	98	2900	-	710	100	3.1
410	174	2.0	3.55	"	"	3300	-	495	144	2.4
295	240	1.65	4.91	"	"	3500	-	355	200	2.0
215	330	1.35	6.74	"	"	3750	-	260	275	1.65
166	430	1.2	8.70	"	"	5300	-	200	355	1.45
150	475	1.1	9.65	"	"	5600	-	181	395	1.35
120	590	0.98	12.06	"	"	5700	-	145	490	1.2
108	660	0.9	13.36	"	"	6100	-	131	540	1.1
390	183	3.3	3.74	BG60-../DSE13MA4	132	7100	-	470	152	4.0
290	245	2.8	4.98	"	"	7800	-	350	200	3.4
210	340	2.3	6.88	"	"	8600	-	255	280	2.8
158	450	1.95	9.13	"	"	9800	-	191	375	2.4
143	500	1.8	10.12	"	"	10200	-	172	415	2.2
119	600	1.65	12.16	"	"	10800	-	144	495	2.0
107	660	1.55	13.47	"	"	11200	-	130	550	1.85
86	830	1.35	16.80	"	"	12000	-	104	680	1.65
78	910	1.25	18.62	"	"	12400	-	94	760	1.5
65	1100	1.1	22.40	"	"	13300	-	78	910	1.3
59	1210	0.99	24.82	"	"	13800	-	71	1000	1.2
49.5	1440	0.83	29.31	"	"	14800	-	60	1190	1.0
93	770	3.0	15.53	BG70-../DSE13MA4	162	12700	-	113	630	3.7
82	870	2.6	17.68	"	"	13400	-	99	720	3.2
69	1030	2.2	20.98	"	"	14600	-	83	860	2.7
63	1130	2.0	22.92	"	"	15100	-	76	940	2.4
53	1350	1.7	27.21	"	"	16400	-	64	1110	2.1
49	1460	1.6	29.69	"	"	16900	-	59	1210	1.9
41	1740	1.3	35.24	"	"	18300	-	49.5	1440	1.6
37	1930	1.2	39.22	"	"	19100	-	44.5	1600	1.45
31	2300	1.0	46.54	"	"	20000	-	37.5	1910	1.2
29	2450	0.94	50.40	"	"	20000	-	35	2000	1.15
55	1300	3.2	26.44	BG80-../DSE13MA4	216	17900	-	66	1080	3.9
49.5	1440	2.9	29.36	"	"	18900	-	60	1190	3.5
42.5	1680	2.5	34.22	"	"	20200	-	51	1400	3.0
38	1880	2.2	38.00	"	"	21300	-	46	1550	2.7
33	2150	1.95	43.94	"	"	22600	-	40	1790	2.3
30	2350	1.8	48.80	"	"	23800	-	36	1980	2.1
25.5	2800	1.5	57.24	"	"	25400	-	30.5	2300	1.85
23	3100	1.35	63.56	"	"	26000	-	27.5	2600	1.6
22	3250	1.3	66.40	BG80Z-../DSE13MA4	259	26000	-	26.5	2700	1.55
20	3550	1.2	73.73	"	"	26000	-	24	2950	1.4
17.5	4050	1.05	84.55	"	"	26000	-	21	3400	1.25
15.5	4600	0.91	93.89	"	"	26000	-	19	3750	1.1
27	2650	3.2	53.46	BG90-../DSE13MA4	305	65000	-	33	2150	3.9
25.5	2800	2.4	57.04	BG90Z-../DSE13MA4	361	65000	-	31	2300	3.0
23.5	3000	2.5	62.47	"	"	65000	-	28	2550	2.9
19	3750	2.2	76.61	"	"	65000	-	23	3100	2.7
17.5	4050	2.1	83.91	"	"	65000	-	21	3400	2.5
15	4750	1.75	96.53	"	"	65000	-	18.5	3850	2.2
14	5100	1.65	105.7	"	"	65000	-	16.5	4300	1.95
11.5	6200	1.35	127.1	"	"	65000	-	14	5100	1.65
10.5	6800	1.25	139.2	"	"	65000	-	12.5	5700	1.45
8.9	8000	1.05	163.0	"	"	65000	-	11	6500	1.3
8.1	8800	0.95	178.5	"	"	65000	-	9.8	7300	1.15
7.0	10200	0.82	208.3	"	"	65000	-	8.4	8500	0.99
6.6	10500	0.88	219.9	BG90G50-../DSE13MA4	377	65000	-	8.0	8600	1.05
13.5	5300	3.2	107.5	BG100-../DSE13MA4	477	90000	-	16.5	4300	3.9
12.5	5700	2.9	119.7	"	"	90000	-	15	4750	3.5
10.5	6800	2.5	139.1	"	"	90000	-	13	5500	3.1
9.4	7600	2.2	154.8	"	"	90000	-	11.5	6200	2.7
8.1	8800	1.9	178.6	"	"	90000	-	9.8	7300	2.3

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 7.5 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
7.3	9800	1.7	198.8	"	"	90000	-	8.8	8100	2.1
6.2	11500	1.45	232.6	"	"	90000	-	7.5	9500	1.75
5.6	12700	1.3	259.0	"	"	90000	-	6.8	10500	1.6
5.4	13200	1.4	269.8	BG100Z-../DSE13MA4	568	90000	-	6.5	11000	1.7
4.8	14900	1.25	300.4	"	"	90000	-	5.8	12300	1.5
4.2	17000	1.1	343.6	"	"	90000	-	5.1	14000	1.3
3.8	18800	0.98	382.6	"	"	90000	-	4.6	15500	1.2
3.2	22300	0.83	456.7	"	"	90000	-	3.9	18300	1.0

P = 9.5 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
590	153	2.0	2.47	BG50-../DSE13LA4	101	2900	-	710	127	2.4
410	220	1.6	3.55	"	"	3300	-	495	183	1.9
295	305	1.3	4.91	"	"	3500	-	355	255	1.55
215	420	1.1	6.74	"	"	3750	-	260	345	1.3
166	540	0.94	8.70	"	"	5300	-	200	450	1.15
150	600	0.87	9.65	"	"	5600	-	181	500	1.05
390	230	2.7	3.74	BG60-../DSE13LA4	135	7100	-	470	193	3.2
290	310	2.2	4.98	"	"	7800	-	350	255	2.7
210	430	1.8	6.88	"	"	8600	-	255	355	2.2
158	570	1.55	9.13	"	"	9800	-	191	475	1.85
143	630	1.45	10.12	"	"	10200	-	172	520	1.75
119	760	1.3	12.16	"	"	10800	-	144	630	1.55
107	840	1.2	13.47	"	"	11200	-	130	690	1.5
86	1050	1.05	16.80	"	"	12000	-	104	870	1.25
78	1160	0.99	18.62	"	"	12400	-	94	960	1.2
65	1390	0.86	22.40	"	"	13300	-	78	1160	1.05
121	740	3.1	11.97	BG70-../DSE13LA4	165	11200	-	146	620	3.7
111	810	2.8	13.08	"	"	11600	-	134	670	3.4
93	970	2.4	15.53	"	"	12700	-	113	800	2.9
82	1100	2.1	17.68	"	"	13400	-	99	910	2.5
69	1310	1.75	20.98	"	"	14600	-	83	1090	2.1
63	1440	1.6	22.92	"	"	15100	-	76	1190	1.95
53	1710	1.35	27.21	"	"	16400	-	64	1410	1.65
49	1850	1.25	29.69	"	"	16900	-	59	1530	1.5
41	2200	1.05	35.24	"	"	18300	-	49.5	1830	1.25
37	2450	0.94	39.22	"	"	19100	-	44.5	2000	1.15
66	1370	3.1	22.09	BG80-../DSE13LA4	219	16500	-	79	1140	3.7
55	1640	2.6	26.44	"	"	17900	-	66	1370	3.1
49.5	1830	2.3	29.36	"	"	18900	-	60	1510	2.8
42.5	2100	2.0	34.22	"	"	20200	-	51	1770	2.4
38	2350	1.8	38.00	"	"	21300	-	46	1970	2.1
33	2700	1.55	43.94	"	"	22600	-	40	2250	1.85
30	3000	1.4	48.80	"	"	23800	-	36	2500	1.7
25.5	3550	1.2	57.24	"	"	25400	-	30.5	2950	1.4
23	3900	1.1	63.56	"	"	26000	-	27.5	3250	1.3
22	4100	1.0	66.40	BG80Z-../DSE13LA4	262	26000	-	26.5	3400	1.25
20	4500	0.93	73.73	"	"	26000	-	24	3750	1.1
17.5	5100	0.82	84.55	"	"	26000	-	21	4300	0.98
34.5	2600	3.2	41.85	BG90-../DSE13LA4	308	65000	-	42	2150	3.9
29.5	3050	2.8	48.82	"	"	65000	-	36	2500	3.4
27	3350	2.5	53.46	"	"	65000	-	33	2700	3.1
25.5	3550	1.9	57.04	BG90Z-../DSE13LA4	364	65000	-	31	2900	2.3
23.5	3850	1.95	62.47	"	"	65000	-	28	3200	2.3

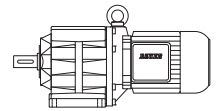
6



# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

**P = 9.5 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
19	4750	1.75	76.61	<b>BG90Z-../DSE13LA4</b>	"	65000	-	23	3900	2.2
17.5	5100	1.65	83.91	"	"	65000	-	21	4300	1.95
15	6000	1.4	96.53	"	"	65000	-	18.5	4900	1.7
14	6400	1.3	105.7	"	"	65000	-	16.5	5400	1.55
11.5	7800	1.1	127.1	"	"	65000	-	14	6400	1.3
10.5	8600	0.98	139.2	"	"	65000	-	12.5	7200	1.15
8.9	10100	0.83	163.0	"	"	65000	-	11	8200	1.0
18	5000	3.3	80.85	<b>BG100-../DSE13LA4</b>	480	90000	-	22	4100	4.0
16	5600	3.0	90.02	"	"	90000	-	19.5	4650	3.6
13.5	6700	2.5	107.5	"	"	90000	-	16.5	5400	3.1
12.5	7200	2.3	119.7	"	"	90000	-	15	6000	2.8
10.5	8600	1.95	139.1	"	"	90000	-	13	6900	2.4
9.4	9600	1.75	154.8	"	"	90000	-	11.5	7800	2.2
8.1	11200	1.5	178.6	"	"	90000	-	9.8	9200	1.85
7.3	12400	1.35	198.8	"	"	90000	-	8.8	10300	1.65
6.2	14600	1.15	232.6	"	"	90000	-	7.5	12000	1.4
5.6	16200	1.05	259.0	"	"	90000	-	6.8	13300	1.25
5.4	16800	1.1	269.8	<b>BG100Z-../DSE13LA4</b>	571	90000	-	6.5	13900	1.35
4.8	18900	0.98	300.4	"	"	90000	-	5.8	15600	1.2
4.2	21600	0.86	343.6	"	"	90000	-	5.1	17700	1.05

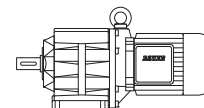
**P = 11 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
600	175	1.75	2.47	<b>BG50-../DSE16MA4</b>	146	2900	-	720	145	2.1
415	250	1.4	3.55	"	"	3300	-	500	210	1.65
300	350	1.15	4.91	"	"	3500	-	360	290	1.35
220	475	0.95	6.74	"	"	3750	-	265	395	1.15
168	620	0.82	8.70	"	"	5300	-	205	510	1.0
580	181	3.0	2.52	<b>BG60-../DSE16MA4</b>	180	6200	-	700	150	3.6
395	265	2.3	3.74	"	"	7100	-	475	220	2.8
295	355	1.95	4.98	"	"	7800	-	355	295	2.3
215	485	1.6	6.88	"	"	8600	-	260	400	1.95
160	650	1.35	9.13	"	"	9800	-	193	540	1.65
145	720	1.25	10.12	"	"	10200	-	174	600	1.5
121	860	1.15	12.16	"	"	10800	-	145	720	1.35
109	960	1.05	13.47	"	"	11200	-	131	800	1.3
87	1200	0.92	16.80	"	"	12000	-	105	1000	1.1
79	1320	0.87	18.62	"	"	12400	-	95	1100	1.05
145	720	3.2	10.09	<b>BG70-../DSE16MA4</b>	214	10200	-	175	600	3.8
122	860	2.7	11.97	"	"	11200	-	148	700	3.3
112	930	2.5	13.08	"	"	11600	-	135	770	3.0
95	1100	2.1	15.53	"	"	12700	-	114	920	2.5
83	1260	1.85	17.68	"	"	13400	-	100	1050	2.2
70	1500	1.55	20.98	"	"	14600	-	84	1250	1.85
64	1640	1.4	22.92	"	"	15100	-	77	1360	1.7
54	1940	1.2	27.21	"	"	16400	-	65	1610	1.45
49.5	2100	1.1	29.69	"	"	16900	-	60	1750	1.3
41.5	2500	0.92	35.24	"	"	18300	-	50	2100	1.1
37.5	2800	0.82	39.22	"	"	19100	-	45	2300	1.0
74	1410	3.0	19.89	<b>BG80-../DSE16MA4</b>	264	15500	-	89	1180	3.6
67	1560	2.7	22.09	"	"	16500	-	80	1310	3.2
56	1870	2.2	26.44	"	"	17900	-	67	1560	2.7
50	2100	2.0	29.36	"	"	18900	-	60	1750	2.4
43	2400	1.75	34.22	"	"	20200	-	52	2000	2.1
38.5	2700	1.55	38.00	"	"	21300	-	46.5	2250	1.85
33.5	3100	1.35	43.94	"	"	22600	-	40.5	2550	1.65

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 11 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
30	3500	1.2	48.80	BG80-../DSE16MA4	"	23800	-	36.5	2850	1.45
26	4000	1.05	57.24	"	"	25400	-	31	3350	1.25
23	4550	0.92	63.56	"	"	26000	-	28	3750	1.1
22	4750	0.88	66.40	BG80Z-../DSE16MA4	307	26000	-	27	3850	1.1
20	5200	0.81	73.73	"	"	26000	-	24	4350	0.97
38.5	2700	3.1	38.21	BG90-../DSE16MA4	354	65000	-	46.5	2250	3.7
35	3000	2.8	41.85	"	"	65000	-	42.5	2450	3.4
30	3500	2.4	48.82	"	"	65000	-	36.5	2850	2.9
27.5	3800	2.2	53.46	"	"	65000	-	33	3150	2.7
26	4000	1.7	57.04	BG90Z-../DSE16MA4	413	65000	-	31	3350	2.0
23.5	4450	1.7	62.47	"	"	65000	-	28.5	3650	2.1
19.5	5300	1.6	76.61	"	"	65000	-	23	4550	1.85
17.5	6000	1.4	83.91	"	"	65000	-	21	5000	1.7
15.5	6700	1.25	96.53	"	"	65000	-	18.5	5600	1.5
14	7500	1.1	105.7	"	"	65000	-	17	6100	1.4
11.5	9100	0.92	127.1	"	"	65000	-	14	7500	1.1
10.5	10000	0.84	139.2	"	"	65000	-	13	8000	1.05
21	5000	3.2	70.69	BG100-../DSE16MA4	524	90000	-	25	4200	3.8
18.5	5600	3.0	80.85	"	"	90000	-	22	4750	3.5
16.5	6300	2.7	90.02	"	"	90000	-	20	5200	3.2
14	7500	2.2	107.5	"	"	90000	-	16.5	6300	2.7
12.5	8400	2.0	119.7	"	"	90000	-	15	7000	2.4
10.5	10000	1.7	139.1	"	"	90000	-	13	8000	2.1
9.5	11000	1.55	154.8	"	"	90000	-	11.5	9100	1.85
8.2	12800	1.3	178.6	"	"	90000	-	9.9	10600	1.6
7.4	14100	1.2	198.8	"	"	90000	-	8.9	11800	1.4
6.3	16600	1.0	232.6	"	"	90000	-	7.6	13800	1.2
5.7	18400	0.91	259.0	"	"	90000	-	6.8	15400	1.1
5.5	19100	0.97	269.8	BG100Z-../DSE16MA4	616	90000	-	6.6	15900	1.15
4.9	21400	0.86	300.4	"	"	90000	-	5.9	17800	1.05

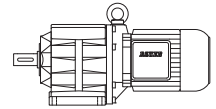
P = 15 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
600	235	1.3	2.47	BG50-../DSE16LA4	159	2900	-	720	198	1.55
415	345	1.0	3.55	"	"	3300	-	500	285	1.2
300	475	0.84	4.91	"	"	3500	-	360	395	1.0
580	245	2.2	2.52	BG60-../DSE16LA4	193	6200	-	700	200	2.7
395	360	1.7	3.74	"	"	7100	-	475	300	2.0
295	485	1.4	4.98	"	"	7800	-	355	400	1.7
215	660	1.2	6.88	"	"	8600	-	260	550	1.4
160	890	1.0	9.13	"	"	9800	-	193	740	1.2
145	980	0.93	10.12	"	"	10200	-	174	820	1.1
121	1180	0.84	12.16	"	"	10800	-	145	980	1.0
205	690	3.1	7.14	BG70-../DSE16LA4	228	8800	-	250	570	3.8
173	820	2.8	8.48	"	"	9500	-	210	680	3.4
145	980	2.3	10.09	"	"	10200	-	175	810	2.8
122	1170	1.95	11.97	"	"	11200	-	148	960	2.4
112	1270	1.8	13.08	"	"	11600	-	135	1060	2.2
95	1500	1.55	15.53	"	"	12700	-	114	1250	1.85
83	1720	1.35	17.68	"	"	13400	-	100	1430	1.6
70	2000	1.15	20.98	"	"	14600	-	84	1700	1.35
64	2200	1.05	22.92	"	"	15100	-	77	1860	1.25
54	2650	0.87	27.21	"	"	16400	-	65	2200	1.05
49.5	2850	0.81	29.69	"	"	16900	-	60	2350	0.98

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

**P = 15 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
94	1520	2.8	15.62	BG80-../DSE16LA4	276	13700	-	113	1260	3.3
85	1680	2.5	17.35	"	"	14600	-	102	1400	3.0
74	1930	2.2	19.89	"	"	15500	-	89	1600	2.6
67	2100	2.0	22.09	"	"	16500	-	80	1790	2.3
56	2550	1.65	26.44	"	"	17900	-	67	2100	2.0
50	2850	1.45	29.36	"	"	18900	-	60	2350	1.8
43	3300	1.25	34.22	"	"	20200	-	52	2750	1.55
38.5	3700	1.15	38.00	"	"	21300	-	46.5	3050	1.4
33.5	4250	0.99	43.94	"	"	22600	-	40.5	3500	1.2
30	4750	0.88	48.80	"	"	23800	-	36.5	3900	1.1
49.5	2850	2.9	29.78	BG90-../DSE16LA4	367	65000	-	60	2350	3.6
45	3150	2.7	32.62	"	"	65000	-	54	2650	3.2
38.5	3700	2.3	38.21	"	"	65000	-	46.5	3050	2.8
35	4050	2.1	41.85	"	"	65000	-	42.5	3350	2.5
30	4750	1.75	48.82	"	"	65000	-	36.5	3900	2.2
27.5	5200	1.6	53.46	"	"	65000	-	33	4300	1.95
26	5500	1.25	57.04	BG90Z-../DSE16LA4	426	65000	-	31	4600	1.5
23.5	6000	1.25	62.47	"	"	65000	-	28.5	5000	1.5
19.5	7300	1.15	76.61	"	"	65000	-	23	6200	1.35
17.5	8100	1.05	83.91	"	"	65000	-	21	6800	1.25
15.5	9200	0.91	96.53	"	"	65000	-	18.5	7700	1.1
14	10200	0.82	105.7	"	"	65000	-	17	8400	1.0
31.5	4500	3.1	46.43	BG100-../DSE16LA4	538	90000	-	38	3750	3.8
28.5	5000	2.9	51.70	"	"	90000	-	34.5	4150	3.5
23	6200	2.5	63.49	"	"	90000	-	28	5100	3.0
21	6800	2.3	70.69	"	"	90000	-	25	5700	2.8
18.5	7700	2.1	80.85	"	"	90000	-	22	6500	2.5
16.5	8600	1.95	90.02	"	"	90000	-	20	7100	2.4
14	10200	1.65	107.5	"	"	90000	-	16.5	8600	1.95
12.5	11400	1.45	119.7	"	"	90000	-	15	9500	1.75
10.5	13600	1.25	139.1	"	"	90000	-	13	11000	1.55
9.5	15000	1.1	154.8	"	"	90000	-	11.5	12400	1.35
8.2	17400	0.97	178.6	"	"	90000	-	9.9	14400	1.15
7.4	19300	0.87	198.8	"	"	90000	-	8.9	16000	1.05

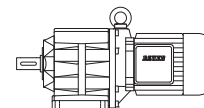
**P = 18.5 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
600	290	1.05	2.47	BG50-../DSE16XA4	169	2900	-	720	245	1.25
415	425	0.82	3.55	"	"	3300	-	500	350	0.99
580	300	1.8	2.52	BG60-../DSE16XA4	203	6200	-	700	250	2.1
395	445	1.4	3.74	"	"	7100	-	475	370	1.65
295	590	1.15	4.98	"	"	7800	-	355	495	1.4
215	820	0.95	6.88	"	"	8600	-	260	670	1.15
160	1100	0.81	9.13	"	"	9800	-	193	910	0.98
205	860	2.5	7.14	BG70-../DSE16XA4	238	8800	-	250	700	3.1
173	1020	2.2	8.48	"	"	9500	-	210	840	2.7
145	1210	1.9	10.09	"	"	10200	-	175	1000	2.3
122	1440	1.6	11.97	"	"	11200	-	148	1190	1.95
112	1570	1.45	13.08	"	"	11600	-	135	1300	1.75
95	1850	1.25	15.53	"	"	12700	-	114	1540	1.5
83	2100	1.1	17.68	"	"	13400	-	100	1760	1.3
70	2500	0.92	20.98	"	"	14600	-	84	2100	1.1
64	2750	0.84	22.92	"	"	15100	-	77	2250	1.0
128	1380	3.0	11.43	BG80-../DSE16XA4	286	11600	-	154	1140	3.7
116	1520	2.8	12.69	"	"	12400	-	139	1270	3.3
94	1870	2.2	15.62	"	"	13700	-	113	1560	2.7

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DSE -IE1

P = 18.5 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
85	2050	2.0	17.35	BG80-../DSE16XA4	"	14600	-	102	1730	2.4
74	2350	1.8	19.89	"	"	15500	-	89	1980	2.1
67	2600	1.6	22.09	"	"	16500	-	80	2200	1.9
56	3150	1.35	26.44	"	"	17900	-	67	2600	1.6
50	3500	1.2	29.36	"	"	18900	-	60	2900	1.45
43	4100	1.0	34.22	"	"	20200	-	52	3350	1.25
38.5	4550	0.92	38.00	"	"	21300	-	46.5	3750	1.1
33.5	5200	0.81	43.94	"	"	22600	-	40.5	4350	0.97
65	2700	3.1	22.62	BG90-../DSE16XA4	377	65000	-	78	2250	3.7
59	2950	2.8	24.78	"	"	65000	-	72	2450	3.4
49.5	3550	2.4	29.78	"	"	65000	-	60	2900	2.9
45	3900	2.2	32.62	"	"	65000	-	54	3250	2.6
38.5	4550	1.85	38.21	"	"	65000	-	46.5	3750	2.2
35	5000	1.7	41.85	"	"	65000	-	42.5	4150	2.0
30	5800	1.45	48.82	"	"	65000	-	36.5	4800	1.75
27.5	6400	1.3	53.46	"	"	65000	-	33	5300	1.6
26	6700	1.0	57.04	BG90Z-../DSE16XA4	436	65000	-	31	5600	1.2
23.5	7500	1.0	62.47	"	"	65000	-	28.5	6100	1.25
19.5	9000	0.93	76.61	"	"	65000	-	23	7600	1.1
17.5	10000	0.84	83.91	"	"	65000	-	21	8400	1.0
31.5	5600	2.5	46.43	BG100-../DSE16XA4	548	90000	-	38	4600	3.1
28.5	6100	2.4	51.70	"	"	90000	-	34.5	5100	2.8
23	7600	2.0	63.49	"	"	90000	-	28	6300	2.4
21	8400	1.9	70.69	"	"	90000	-	25	7000	2.3
18.5	9500	1.75	80.85	"	"	90000	-	22	8000	2.1
16.5	10700	1.55	90.02	"	"	90000	-	20	8800	1.9
14	12600	1.35	107.5	"	"	90000	-	16.5	10700	1.55
12.5	14100	1.2	119.7	"	"	90000	-	15	11700	1.45
10.5	16800	1.0	139.1	"	"	90000	-	13	13500	1.25
9.5	18500	0.91	154.8	"	"	90000	-	11.5	15300	1.1

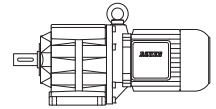
P = 22 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	710	2.1	4.95	BG70-../DSE18LA4	294	6900	-	360	580	2.6
250	840	2.1	5.87	"	"	8200	-	300	700	2.5
205	1020	2.1	7.14	"	"	8800	-	250	840	2.6
173	1210	1.9	8.48	"	"	9500	-	210	1000	2.3
145	1440	1.6	10.09	"	"	10200	-	175	1200	1.9
122	1720	1.35	11.97	"	"	11200	-	148	1410	1.65
112	1870	1.25	13.08	"	"	11600	-	135	1550	1.5
95	2200	1.05	15.53	"	"	12700	-	114	1840	1.25
83	2500	0.92	17.68	"	"	13400	-	100	2100	1.1
250	840	3.2	5.94	BG80-../DSE18LA4	348	8300	-	300	700	3.8
225	930	3.2	6.60	"	"	9100	-	270	770	3.8
176	1190	3.2	8.30	"	"	10400	-	215	970	3.9
159	1320	3.0	9.21	"	"	10800	-	192	1090	3.6
128	1640	2.6	11.43	"	"	11600	-	154	1360	3.1
116	1810	2.3	12.69	"	"	12400	-	139	1510	2.8
94	2200	1.9	15.62	"	"	13700	-	113	1850	2.3
85	2450	1.7	17.35	"	"	14600	-	102	2050	2.0
74	2800	1.5	19.89	"	"	15500	-	89	2350	1.8
67	3100	1.35	22.09	"	"	16500	-	80	2600	1.6
56	3750	1.1	26.44	"	"	17900	-	67	3100	1.35
50	4200	1.0	29.36	"	"	18900	-	60	3500	1.2
43	4850	0.87	34.22	"	"	20200	-	52	4000	1.05

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

**P = 22 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
82	2550	3.2	17.96	BG90-../DSE18LA4	440	59800	-	98	2100	3.9
75	2800	3.0	19.67	"	"	62400	-	90	2300	3.7
65	3200	2.6	22.62	"	"	65000	-	78	2650	3.2
59	3550	2.4	24.78	"	"	65000	-	72	2900	2.9
49.5	4200	2.0	29.78	"	"	65000	-	60	3500	2.4
45	4650	1.8	32.62	"	"	65000	-	54	3850	2.2
38.5	5400	1.55	38.21	"	"	65000	-	46.5	4500	1.85
35	6000	1.4	41.85	"	"	65000	-	42.5	4900	1.7
30	7000	1.2	48.82	"	"	65000	-	36.5	5700	1.45
27.5	7600	1.1	53.46	"	"	65000	-	33	6300	1.35
26	8000	0.85	57.04	BG90Z-../DSE18LA4	493	65000	-	31	6700	1.0
23.5	8900	0.84	62.47	"	"	65000	-	28.5	7300	1.05
61	3400	3.3	23.95	BG100-../DSE18LA4	609	87900	-	74	2800	4.0
43.5	4800	2.7	33.71	"	"	88500	-	53	3950	3.3
39	5300	2.5	37.54	"	"	90000	-	47	4450	3.0
31.5	6600	2.1	46.43	"	"	90000	-	38	5500	2.6
28.5	7300	2.0	51.70	"	"	90000	-	34.5	6000	2.4
23	9100	1.7	63.49	"	"	90000	-	28	7500	2.1
21	10000	1.6	70.69	"	"	90000	-	25	8400	1.9
18.5	11300	1.45	80.85	"	"	90000	-	22	9500	1.75
16.5	12700	1.3	90.02	"	"	90000	-	20	10500	1.6
14	15000	1.1	107.5	"	"	90000	-	16.5	12700	1.3
12.5	16800	1.0	119.7	"	"	90000	-	15	14000	1.2
10.5	20000	0.84	139.1	"	"	90000	-	13	16100	1.05

**P = 30 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	970	1.55	4.95	BG70-../DSE18XA4	312	6900	-	360	790	1.9
250	1140	1.55	5.87	"	"	8200	-	300	950	1.85
205	1390	1.55	7.14	"	"	8800	-	250	1140	1.9
173	1650	1.4	8.48	"	"	9500	-	210	1360	1.7
145	1970	1.15	10.09	"	"	10200	-	175	1630	1.4
122	2300	1.0	11.97	"	"	11200	-	148	1930	1.2
112	2550	0.9	13.08	"	"	11600	-	135	2100	1.1
250	1140	2.3	5.94	BG80-../DSE18XA4	366	8300	-	300	950	2.8
225	1270	2.3	6.60	"	"	9100	-	270	1060	2.8
176	1620	2.3	8.30	"	"	10400	-	215	1330	2.8
159	1800	2.2	9.21	"	"	10800	-	192	1490	2.6
128	2200	1.9	11.43	"	"	11600	-	154	1860	2.3
116	2450	1.7	12.69	"	"	12400	-	139	2050	2.0
94	3000	1.4	15.62	"	"	13700	-	113	2500	1.7
85	3350	1.25	17.35	"	"	14600	-	102	2800	1.5
74	3850	1.1	19.89	"	"	15500	-	89	3200	1.3
67	4250	0.99	22.09	"	"	16500	-	80	3550	1.2
56	5100	0.82	26.44	"	"	17900	-	67	4250	0.99
134	2100	3.3	10.90	BG90-../DSE18XA4	458	52300	-	162	1760	4.0
110	2600	2.9	13.37	"	"	55000	-	132	2150	3.5
100	2850	2.7	14.64	"	"	57000	-	121	2350	3.3
82	3450	2.4	17.96	"	"	59800	-	98	2900	2.8
75	3800	2.2	19.67	"	"	62400	-	90	3150	2.7
65	4400	1.9	22.62	"	"	65000	-	78	3650	2.3
59	4850	1.75	24.78	"	"	65000	-	72	3950	2.1
49.5	5700	1.45	29.78	"	"	65000	-	60	4750	1.75

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DSE -IE1

P = 30 kW



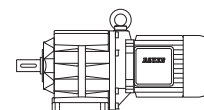
50 Hz			i	Typ	m kg	F <sub>RN</sub> N	F <sub>RV</sub> N	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
45	6300	1.35	32.62	"	"	65000	-	54	5300	1.6
38.5	7400	1.15	38.21	"	"	65000	-	46.5	6100	1.4
35	8100	1.05	41.85	"	"	65000	-	42.5	6700	1.25
30	9500	0.88	48.82	"	"	65000	-	36.5	7800	1.1
27.5	10400	0.81	53.46	"	"	65000	-	33	8600	0.98
118	2400	3.0	12.45	<b>BG100-../DSE18XA4</b>	627	72100	-	142	2000	3.6
84	3400	3.0	17.39	"	"	82400	-	102	2800	3.6
61	4650	2.4	23.95	"	"	87900	-	74	3850	2.9
43.5	6500	2.0	33.71	"	"	88500	-	53	5400	2.4
39	7300	1.8	37.54	"	"	90000	-	47	6000	2.2
31.5	9000	1.55	46.43	"	"	90000	-	38	7500	1.9
28.5	10000	1.45	51.70	"	"	90000	-	34.5	8300	1.75
23	12400	1.25	63.49	"	"	90000	-	28	10200	1.5
21	13600	1.15	70.69	"	"	90000	-	25	11400	1.4
18.5	15400	1.05	80.85	"	"	90000	-	22	13000	1.25
16.5	17300	0.97	90.02	"	"	90000	-	20	14300	1.15
14	20400	0.82	107.5	"	"	90000	-	16.5	17300	0.97

6

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 0.03 kW

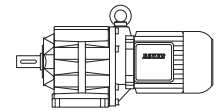


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
540	0.53	7.5	2.51	BG04-../D04LA4	4.4	340	-	650	0.44	9.1
370	0.77	6.5	3.65	"	"	390	-	445	0.64	7.8
310	0.92	7.6	4.39	"	"	380	-	370	0.77	9.1
255	1.12	8.0	5.36	"	"	380	-	305	0.93	9.7
205	1.39	7.2	6.67	"	"	410	-	245	1.16	8.6
158	1.81	6.1	8.58	"	"	410	-	189	1.51	7.3
150	1.91	6.3	9.00	"	"	470	-	180	1.59	7.5
137	2.05	6.3	9.90	"	"	480	-	164	1.74	7.5
125	2.25	6.2	10.82	"	"	480	-	150	1.91	7.3
114	2.5	6.0	11.90	"	"	490	-	137	2.05	7.3
108	2.65	5.7	12.55	"	"	490	-	130	2.2	6.8
103	2.75	5.8	13.20	"	"	500	-	123	2.3	7.0
93	3.05	5.6	14.52	"	"	510	-	112	2.55	6.7
83	3.45	5.2	16.44	"	"	530	-	99	2.85	6.3
75	3.8	4.7	18.08	"	"	540	-	90	3.15	5.7
64	4.45	4.3	21.12	"	"	560	-	77	3.7	5.1
59	4.85	4.1	23.23	"	"	600	-	70	4.05	4.9
56	5.1	3.9	24.45	"	"	610	-	67	4.25	4.7
51	5.6	3.6	26.89	"	"	650	-	61	4.65	4.3
44	6.5	3.1	30.91	"	"	690	-	53	5.4	3.7
40	7.1	2.8	34.00	"	"	720	-	48	5.9	3.4
38.5	7.4	2.7	35.35	"	"	730	-	46	6.2	3.2
35	8.1	2.5	38.89	"	"	750	-	42	6.8	2.9
32	8.9	2.2	42.24	"	"	750	-	38.5	7.4	2.7
29.5	9.7	2.1	46.47	"	"	750	-	35	8.1	2.5
28.5	10	2.0	47.52	"	"	750	-	34.5	8.3	2.4
26	11	1.8	52.28	"	"	750	-	31	9.2	2.2
25	11.4	1.75	54.97	"	"	750	-	29.5	9.7	2.1
22.5	12.7	1.55	60.47	"	"	750	-	27	10.6	1.9
31	9.2	3.3	43.57	BG05-../D04LA4	5.1	900	-	37.5	7.6	3.9
29	9.8	3.1	47.00	"	"	930	-	34.5	8.3	3.6
26.5	10.8	2.8	51.27	"	"	970	-	32	8.9	3.4
25.5	11.2	2.7	53.44	"	"	980	-	30.5	9.3	3.2
23.5	12.1	2.5	58.30	"	"	1000	-	28	10.2	2.9
20.5	13.9	3.2	66.79	BG06-../D04LA4	6.1	1070	-	24.5	11.6	3.9
18	13.8	2.9	75.99	BG06G04-../D04LA4	8.4	1070	-	21.5	11.2	3.6
16.5	15	2.9	82.89	"	"	1070	-	20	12	3.6
15	16.5	2.7	93.00	"	"	1070	-	17.5	13.8	3.3
13.5	18.4	2.4	101.5	"	"	1070	-	16	15.1	3.0
11.5	21	2.1	122.0	"	"	1070	-	13.5	17.3	2.6
9.1	26	1.75	149.0	"	"	1070	-	11	21	2.1
7.3	33.5	1.35	185.4	"	"	1070	-	8.8	26.5	1.7
5.4	46	0.98	250.2	"	"	1070	-	6.5	37	1.2
5.0	50	0.9	275.2	"	"	1070	-	5.9	41	1.1
4.1	45*	1.0	330.8	"	"	1070	-	4.9	45	1.0
3.7	45*	1.0	367.0	"	"	1070	-	4.5	45	1.0
3.0	45*	1.0	457.0	"	"	1070	-	3.6	45	1.0
2.7	45*	1.0	502.6	"	"	1070	-	3.3	45	1.0
2.3	45*	1.0	587.1	"	"	1070	-	2.8	45	1.0
2.1	45*	1.0	645.8	"	"	1070	-	2.6	45	1.0
1.9	45*	1.0	747.5	"	"	1070	-	2.2	45	1.0
1.6	45*	1.0	859.3	"	"	1070	-	1.9	45	1.0
1.5	45*	1.0	945.2	"	"	1070	-	1.8	45	1.0
1.3	45*	1.0	1081	"	"	1070	-	1.5	45	1.0
1.2	45*	1.0	1174	"	"	1070	-	1.4	45	1.0
1.1	45*	1.0	1321	"	"	1070	-	1.3	45	1.0
0.9	45*	1.0	1528	"	"	1070	-	1.1	45	1.0
0.85	45*	1.0	1681	"	"	1070	-	1.0	45	1.0
0.7	45*	1.0	1948	"	"	1070	-	0.85	45	1.0
0.65	45*	1.0	2126	"	"	1070	-	0.8	45	1.0
0.6	45*	1.0	2435	"	"	1070	-	0.7	45	1.0

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 0.03 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
7.4	38.5	3.1	184.0	BG10Z-../D04LA4	11	2000	2800	8.9	32	3.8
7.0	40.5	3.0	194.6	"	"	2000	2800	8.4	34	3.5
6.3	45	2.7	215.7	"	"	2000	2800	7.6	37.5	3.2
5.7	50	2.4	240.4	"	"	2000	2800	6.8	42	2.9
5.1	56	2.1	266.3	"	"	2000	2800	6.1	46.5	2.6
4.9	58	2.1	276.0	"	"	2000	2800	5.9	48.5	2.5
4.5	63	1.9	305.8	"	"	2000	2800	5.3	54	2.2
3.6	49	2.7	379.6	BG10G06-../D04LA4	14	2000	2800	4.3	36	3.6
3.1	57	2.3	435.9	"	"	2000	2800	3.8	40	3.3
2.7	68	1.9	512.6	"	"	2000	2800	3.2	51	2.5
2.3	83	1.55	613.6	"	"	2000	2800	2.7	65	2.0
1.9	105	1.25	748.9	"	"	2000	2800	2.2	84	1.55
1.6	130	1.0	899.5	"	"	2000	2800	1.9	102	1.25
1.3	130*	1.0	1081	"	"	2000	2800	1.5	130	1.0
1.1	130*	1.0	1272	"	"	2000	2800	1.3	130	1.0
0.9	130*	1.0	1523	"	"	2000	2800	1.1	130	1.0
0.75	130*	1.0	1863	"	"	2000	2800	0.9	130	1.0
0.6	130*	1.0	2356	"	"	2000	2800	0.7	130	1.0
0.55	130*	1.0	2699	"	"	2000	2800	0.65	130	1.0
0.46	130*	1.0	2944	"	"	2000	2800	0.6	130	1.0
0.4	130*	1.0	3378	"	"	2000	2800	0.48	130	1.0
0.37	130*	1.0	3684	"	"	2000	2800	0.44	130	1.0
0.31	130*	1.0	4477	"	"	2000	2800	0.37	130	1.0
0.28	130*	1.0	4884	"	"	2000	2800	0.34	130	1.0
2.5	77	2.9	550.6	BG20G06-../D04LA4	17	5000	-	3.0	58	3.8
2.1	95	2.3	671.9	"	"	5000	-	2.5	73	3.0
1.7	125	1.75	807.1	"	"	5000	-	2.1	93	2.4
1.4	160	1.4	969.9	"	"	5000	-	1.7	123	1.8
1.2	188	1.15	1142	"	"	5000	-	1.5	141	1.55
1.0	230	0.96	1366	"	"	5000	-	1.2	186	1.2
0.85	220*	1.0	1672	"	"	5000	-	1.0	220	1.0
0.75	220*	1.0	1824	"	"	5000	-	0.9	220	1.0
0.65	220*	1.0	2114	"	"	5000	-	0.8	220	1.0
0.6	220*	1.0	2422	"	"	5000	-	0.7	220	1.0
0.55	220*	1.0	2642	"	"	5000	-	0.65	220	1.0
0.45	220*	1.0	3031	"	"	5000	-	0.55	220	1.0
0.41	220*	1.0	3306	"	"	5000	-	0.5	220	1.0
0.34	220*	1.0	4017	"	"	5000	-	0.41	220	1.0
0.31	220*	1.0	4383	"	"	5000	-	0.37	220	1.0
2.0	101	3.2	690.6	BG30G06-../D04LA4	21	6000	-	2.4	77	4.2
1.8	116	2.8	760.7	"	"	6000	-	2.2	87	3.7
1.7	124	2.6	829.5	"	"	6000	-	2.0	98	3.3
1.4	158	2.1	996.8	"	"	6000	-	1.7	122	2.7
1.3	173	1.9	1088	"	"	6000	-	1.5	143	2.3
1.1	205	1.6	1280	"	"	6000	-	1.3	166	1.95
1.0	230	1.4	1404	"	"	6000	-	1.2	184	1.75
0.8	295	1.1	1718	"	"	6000	-	0.95	240	1.35
0.75	320	1.0	1875	"	"	6000	-	0.9	255	1.25
0.65	325*	1.0	2173	"	"	6000	-	0.75	325	1.0
0.5	325*	1.0	2715	"	"	6000	-	0.6	325	1.0
0.44	325*	1.0	3115	"	"	6000	-	0.55	325	1.0
0.4	325*	1.0	3398	"	"	6000	-	0.48	325	1.0
0.35	325*	1.0	3867	"	"	6000	-	0.42	325	1.0
0.3	325*	1.0	4504	"	"	6000	-	0.36	325	1.0



# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

**P = 0.04 kW**

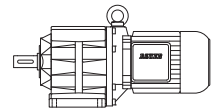


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
540	0.7	5.7	2.51	BG04-../D04LA4	4.4	340	-	650	0.58	6.9
370	1.03	4.9	3.65	"	"	390	-	445	0.85	5.9
310	1.23	5.7	4.39	"	"	380	-	370	1.03	6.8
255	1.49	6.0	5.36	"	"	380	-	305	1.25	7.2
205	1.86	5.4	6.67	"	"	410	-	245	1.55	6.5
158	2.4	4.6	8.58	"	"	410	-	189	2.0	5.5
150	2.5	4.8	9.00	"	"	470	-	180	2.1	5.7
137	2.75	4.7	9.90	"	"	480	-	164	2.3	5.7
125	3.05	4.6	10.82	"	"	480	-	150	2.5	5.6
114	3.35	4.5	11.90	"	"	490	-	137	2.75	5.5
108	3.5	4.3	12.55	"	"	490	-	130	2.9	5.2
103	3.7	4.3	13.20	"	"	500	-	123	3.1	5.2
93	4.1	4.1	14.52	"	"	510	-	112	3.4	5.0
83	4.6	3.9	16.44	"	"	530	-	99	3.85	4.7
75	5.0	3.6	18.08	"	"	540	-	90	4.2	4.3
64	5.9	3.2	21.12	"	"	560	-	77	4.95	3.8
59	6.4	3.1	23.23	"	"	600	-	70	5.4	3.7
56	6.8	2.9	24.45	"	"	610	-	67	5.7	3.5
51	7.4	2.7	26.89	"	"	650	-	61	6.2	3.2
44	8.6	2.3	30.91	"	"	690	-	53	7.2	2.8
40	9.5	2.1	34.00	"	"	720	-	48	7.9	2.5
38.5	9.9	2.0	35.35	"	"	730	-	46	8.3	2.4
35	10.9	1.85	38.89	"	"	750	-	42	9.0	2.2
32	11.9	1.7	42.24	"	"	750	-	38.5	9.9	2.0
29.5	12.9	1.55	46.47	"	"	750	-	35	10.9	1.85
28.5	13.4	1.5	47.52	"	"	750	-	34.5	11	1.8
26	14.6	1.35	52.28	"	"	750	-	31	12.3	1.65
25	15.2	1.3	54.97	"	"	750	-	29.5	12.9	1.55
22.5	16.9	1.2	60.47	"	"	750	-	27	14.1	1.4
39	9.7	3.1	35.00	BG05-../D04LA4	5.1	810	-	46.5	8.2	3.7
35.5	10.7	2.8	38.18	"	"	850	-	42.5	8.9	3.4
34	11.2	2.7	39.94	"	"	860	-	41	9.3	3.2
31	12.3	2.4	43.57	"	"	900	-	37.5	10.1	3.0
29	13.1	2.3	47.00	"	"	930	-	34.5	11	2.7
26.5	14.4	2.1	51.27	"	"	970	-	32	11.9	2.5
25.5	14.9	2.0	53.44	"	"	980	-	30.5	12.5	2.4
23.5	16.2	1.85	58.30	"	"	1000	-	28	13.6	2.2
27	14.1	3.2	50.38	BG06-../D04LA4	6.1	940	-	32.5	11.7	3.8
26	14.6	3.1	52.56	"	"	950	-	31	12.3	3.7
24	15.9	2.8	57.34	"	"	1000	-	28.5	13.4	3.4
22.5	16.9	2.7	61.22	"	"	1020	-	26.5	14.4	3.1
20.5	18.6	2.4	66.79	"	"	1070	-	24.5	15.5	2.9
18	19.1	2.1	75.99	BG06G04-../D04LA4	8.4	1070	-	21.5	15.6	2.6
16.5	20.5	2.1	82.89	"	"	1070	-	20	16.8	2.6
15	22.5	2.0	93.00	"	"	1070	-	17.5	19.2	2.3
13.5	25.5	1.75	101.5	"	"	1070	-	16	21	2.1
11.5	29	1.55	122.0	"	"	1070	-	13.5	24	1.9
9.1	36.5	1.25	149.0	"	"	1070	-	11	29.5	1.55
7.3	46.5	0.97	185.4	"	"	1070	-	8.8	37.5	1.2
10.5	36	3.3	131.8	BG10Z-../D04LA4	11	2000	2800	12.5	30.5	3.9
9.3	41	2.9	146.0	"	"	2000	2800	11.5	33	3.6
8.2	46.5	2.6	166.0	"	"	2000	2800	9.8	38.5	3.1
7.4	51	2.4	184.0	"	"	2000	2800	8.9	42.5	2.8
7.0	54	2.2	194.6	"	"	2000	2800	8.4	45	2.7
6.3	60	2.0	215.7	"	"	2000	2800	7.6	50	2.4
5.7	67	1.8	240.4	"	"	2000	2800	6.8	56	2.1
5.1	74	1.6	266.3	"	"	2000	2800	6.1	62	1.95
4.9	77	1.55	276.0	"	"	2000	2800	5.9	64	1.9
4.5	84	1.45	305.8	"	"	2000	2800	5.3	72	1.65
4.1	60	2.2	332.0	BG10G06-../D04LA4	14	2000	2800	4.9	45.5	2.9
3.6	75	1.75	379.6	"	"	2000	2800	4.3	58	2.2

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

**P = 0.04 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
3.1	88	1.5	435.9	BG10G06-../D04LA4	"	2000	2800	3.8	65	2.0
2.7	103	1.25	512.6	"	"	2000	2800	3.2	81	1.6
2.3	125	1.05	613.6	"	"	2000	2800	2.7	100	1.3
1.9	155	0.84	748.9	"	"	2000	2800	2.2	128	1.0
6.1	62	3.2	222.1	BG20Z-../D04LA4	13	5000	-	7.3	52	3.8
3.9	69	3.2	352.1	BG20G06-../D04LA4	17	5000	-	4.7	52	4.2
3.5	77	2.9	391.1	"	"	5000	-	4.2	59	3.7
3.0	93	2.4	460.0	"	"	5000	-	3.6	71	3.1
2.5	116	1.9	550.6	"	"	5000	-	3.0	90	2.4
2.1	141	1.55	671.9	"	"	5000	-	2.5	112	1.95
1.7	181	1.2	807.1	"	"	5000	-	2.1	138	1.6
1.4	225	0.98	969.9	"	"	5000	-	1.7	180	1.2
1.2	265	0.83	1142	"	"	5000	-	1.5	200	1.1
2.4	121	2.7	565.8	BG30G06-../D04LA4	21	6000	-	2.9	93	3.5
2.0	149	2.2	690.6	"	"	6000	-	2.4	117	2.8
1.8	169	1.9	760.7	"	"	6000	-	2.2	130	2.5
1.7	180	1.8	829.5	"	"	6000	-	2.0	146	2.2
1.4	225	1.45	996.8	"	"	6000	-	1.7	178	1.85
1.3	245	1.35	1088	"	"	6000	-	1.5	205	1.6
1.1	290	1.1	1280	"	"	6000	-	1.3	235	1.4
1.0	325	1.0	1404	"	"	6000	-	1.2	260	1.25

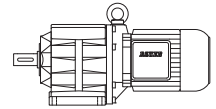
**P = 0.06 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
540	1.06	3.8	2.51	BG04-../D04LA4	4.4	340	-	650	0.88	4.5
370	1.54	3.2	3.65	"	"	390	-	445	1.28	3.9
310	1.84	3.8	4.39	"	"	380	-	370	1.54	4.5
255	2.2	4.1	5.36	"	"	380	-	305	1.87	4.8
205	2.75	3.6	6.67	"	"	410	-	245	2.3	4.3
158	3.6	3.1	8.58	"	"	410	-	189	3.0	3.7
150	3.8	3.2	9.00	"	"	470	-	180	3.15	3.8
137	4.15	3.1	9.90	"	"	480	-	164	3.45	3.8
125	4.55	3.1	10.82	"	"	480	-	150	3.8	3.7
114	5.0	3.0	11.90	"	"	490	-	137	4.15	3.6
108	5.3	2.8	12.55	"	"	490	-	130	4.4	3.4
103	5.5	2.9	13.20	"	"	500	-	123	4.65	3.4
93	6.1	2.8	14.52	"	"	510	-	112	5.1	3.3
83	6.9	2.6	16.44	"	"	530	-	99	5.7	3.2
75	7.6	2.4	18.08	"	"	540	-	90	6.3	2.9
64	8.9	2.1	21.12	"	"	560	-	77	7.4	2.6
59	9.7	2.1	23.23	"	"	600	-	70	8.1	2.5
56	10.2	1.95	24.45	"	"	610	-	67	8.5	2.4
51	11.2	1.8	26.89	"	"	650	-	61	9.3	2.2
44	13	1.55	30.91	"	"	690	-	53	10.8	1.85
40	14.3	1.4	34.00	"	"	720	-	48	11.9	1.7
38.5	14.8	1.35	35.35	"	"	730	-	46	12.4	1.6
35	16.3	1.25	38.89	"	"	750	-	42	13.6	1.45
32	17.9	1.1	42.24	"	"	750	-	38.5	14.8	1.35
29.5	19.4	1.05	46.47	"	"	750	-	35	16.3	1.25
28.5	20	1.0	47.52	"	"	750	-	34.5	16.6	1.2
26	22	0.91	52.28	"	"	750	-	31	18.4	1.1
25	22.5	0.89	54.97	"	"	750	-	29.5	19.4	1.05
22.5	25	0.8	60.47	"	"	750	-	27	21	0.95

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 0.06 kW

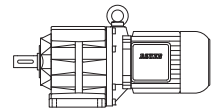


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
72	7.9	3.3	18.82	BG05-../D04LA4	5.1	680	-	87	6.5	4.0
66	8.6	3.1	20.53	"	"	700	-	79	7.2	3.8
57	10	2.8	24.00	"	"	740	-	68	8.4	3.3
52	11	2.6	26.18	"	"	760	-	62	9.2	3.2
49	11.6	2.6	27.82	"	"	770	-	59	9.7	3.1
44.5	12.8	2.3	30.35	"	"	760	-	54	10.6	2.8
39	14.6	2.1	35.00	"	"	810	-	46.5	12.3	2.4
35.5	16.1	1.85	38.18	"	"	850	-	42.5	13.4	2.2
34	16.8	1.8	39.94	"	"	860	-	41	13.9	2.2
31	18.4	1.65	43.57	"	"	900	-	37.5	15.2	1.95
29	19.7	1.5	47.00	"	"	930	-	34.5	16.6	1.8
26.5	21.5	1.4	51.27	"	"	970	-	32	17.9	1.7
25.5	22	1.35	53.44	"	"	980	-	30.5	18.7	1.6
23.5	24	1.25	58.30	"	"	1000	-	28	20	1.5
42	13.6	3.3	32.22	BG06-../D04LA4	6.1	890	-	51	11.2	4.0
38.5	14.8	3.0	35.15	"	"	880	-	46.5	12.3	3.7
37	15.4	2.9	36.91	"	"	890	-	44	13	3.5
34	16.8	2.7	40.26	"	"	890	-	40.5	14.1	3.2
29.5	19.4	2.3	46.19	"	"	890	-	35.5	16.1	2.8
27	21	2.1	50.38	"	"	940	-	32.5	17.6	2.6
26	22	2.0	52.56	"	"	950	-	31	18.4	2.4
24	23.5	1.9	57.34	"	"	1000	-	28.5	20	2.3
22.5	25	1.8	61.22	"	"	1020	-	26.5	21.5	2.1
20.5	27.5	1.65	66.79	"	"	1070	-	24.5	23	1.95
18	29.5	1.35	75.99	BG06G04-../D04LA4	8.4	1070	-	21.5	24.5	1.65
16.5	32	1.35	82.89	"	"	1070	-	20	26	1.65
15	35.5	1.25	93.00	"	"	1070	-	17.5	30	1.5
13.5	39.5	1.15	101.5	"	"	1070	-	16	33	1.35
11.5	45.5	0.99	122.0	"	"	1070	-	13.5	38.5	1.15
15	38	3.2	92.19	BG10Z-../D06LA4	14	2000	2800	18	31.5	3.8
13.5	42	2.9	102.1	"	"	2000	2800	16	35.5	3.4
12.5	45.5	2.6	109.8	"	"	2000	2800	15	38	3.2
11.5	49.5	2.4	121.7	"	"	2000	2800	13.5	42	2.9
10.5	54	2.2	131.8	"	"	2000	2800	12.5	45.5	2.6
9.3	61	1.95	146.0	"	"	2000	2800	11.5	49.5	2.4
8.2	69	1.75	166.0	"	"	2000	2800	9.8	58	2.1
7.4	77	1.55	184.0	"	"	2000	2800	8.9	64	1.9
7.0	81	1.5	194.6	"	"	2000	2800	8.4	68	1.75
6.3	90	1.35	215.7	"	"	2000	2800	7.6	75	1.6
5.7	100	1.2	240.4	"	"	2000	2800	6.8	84	1.45
5.1	112	1.05	266.3	"	"	2000	2800	6.1	93	1.3
4.9	116	1.05	276.0	"	"	2000	2800	5.9	97	1.25
4.5	127	0.94	305.8	"	"	2000	2800	5.3	108	1.1
4.1	107	1.2	332.0	BG10G06-../D06LA4	18	2000	2800	4.9	84	1.55
3.6	128	1.0	379.6	"	"	2000	2800	4.3	102	1.25
3.1	149	0.87	435.9	"	"	2000	2800	3.8	115	1.15
8.4	68	2.9	162.2	BG20Z-../D06LA4	16	5000	-	10	57	3.5
7.5	76	2.6	180.1	"	"	5000	-	9.0	63	3.2
6.8	84	2.4	199.9	"	"	5000	-	8.2	69	2.9
6.1	93	2.2	222.1	"	"	5000	-	7.3	78	2.6
5.5	77	2.9	248.0	BG20G06-../D06LA4	20	5000	-	6.6	60	3.7
4.6	95	2.3	297.9	"	"	5000	-	5.5	75	2.9
3.9	118	1.85	352.1	"	"	5000	-	4.7	93	2.4
3.5	132	1.65	391.1	"	"	5000	-	4.2	104	2.1
3.0	156	1.4	460.0	"	"	5000	-	3.6	125	1.75
2.5	192	1.15	550.6	"	"	5000	-	3.0	154	1.45
2.1	230	0.96	671.9	"	"	5000	-	2.5	188	1.15
6.0	95	3.2	225.9	BG30Z-../D06LA4	22	6000	-	7.2	79	3.8
5.2	110	2.7	261.9	"	"	6000	-	6.2	92	3.3
4.7	121	2.5	290.5	"	"	6000	-	5.6	102	2.9

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 0.06 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
3.9	118	2.8	346.8	BG30G06-../D06LA4	25	6000	-	4.7	93	3.5
3.4	136	2.4	401.9	"	"	6000	-	4.1	107	3.0
2.9	162	2.0	472.8	"	"	6000	-	3.5	128	2.5
2.4	200	1.65	565.8	"	"	6000	-	2.9	159	2.0
2.0	240	1.35	690.6	"	"	6000	-	2.4	196	1.65
1.8	275	1.2	760.7	"	"	6000	-	2.2	215	1.5
1.7	290	1.1	829.5	"	"	6000	-	2.0	240	1.35
1.4	360	0.9	996.8	"	"	6000	-	1.7	290	1.1
1.3	390	0.83	1088	"	"	6000	-	1.5	330	0.98
2.2	147	3.2	640.0	BG40G10-../D06LA4	43	7000	-	2.6	107	4.3
1.9	176	2.6	710.9	"	"	7000	-	2.3	123	3.8
1.8	179	2.6	789.1	"	"	7000	-	2.1	133	3.5
1.4	255	1.8	965.2	"	"	7000	-	1.7	186	2.5
1.2	315	1.5	1225	"	"	7000	-	1.4	250	1.85
0.95	440	1.05	1459	"	"	7000	-	1.2	315	1.5
1.5	230	3.0	960.2	BG50G10-../D06LA4	51	10000	-	1.7	186	3.7
1.2	315	2.2	1219	"	"	10000	-	1.4	250	2.8
0.95	445	1.55	1452	"	"	10000	-	1.2	315	2.2
0.8	550	1.25	1729	"	"	10000	-	0.95	445	1.55
0.7	660	1.05	2076	"	"	10000	-	0.8	550	1.25
0.8	445	2.9	1741	BG60G20-../D06LA4	100	16000	-	0.95	330	3.9
0.75	490	2.7	1880	"	"	16000	-	0.9	365	3.6
0.65	610	2.1	2249	"	"	16000	-	0.75	490	2.7
0.48	920	1.4	2818	"	"	16000	-	0.6	680	1.9
0.42	1090	1.2	3234	"	"	16000	-	0.55	770	1.7
0.38	1230	1.05	3592	"	"	16000	-	0.46	970	1.35
0.49	930	2.7	2774	BG70G20-../D06LA4	130	20000	-	0.6	710	3.5
0.43	1090	2.3	3184	"	"	20000	-	0.55	800	3.1
0.35	1390	1.8	3925	"	"	20000	-	0.42	1120	2.2

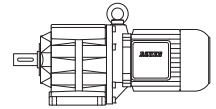
P = 0.09 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
540	1.59	2.5	2.51	BG04-../D04LA4	4.4	340	-	650	1.32	3.0
370	2.3	2.2	3.65	"	"	390	-	445	1.93	2.6
310	2.75	2.5	4.39	"	"	380	-	370	2.3	3.0
255	3.35	2.7	5.36	"	"	380	-	305	2.8	3.2
205	4.15	2.4	6.67	"	"	410	-	245	3.5	2.9
158	5.4	2.0	8.58	"	"	410	-	189	4.5	2.4
150	5.7	2.1	9.00	"	"	470	-	180	4.75	2.5
137	6.2	2.1	9.90	"	"	480	-	164	5.2	2.5
125	6.8	2.1	10.82	"	"	480	-	150	5.7	2.5
114	7.5	2.0	11.90	"	"	490	-	137	6.2	2.4
108	7.9	1.9	12.55	"	"	490	-	130	6.6	2.3
103	8.3	1.95	13.20	"	"	500	-	123	6.9	2.3
93	9.2	1.85	14.52	"	"	510	-	112	7.6	2.2
83	10.3	1.75	16.44	"	"	530	-	99	8.6	2.1
75	11.4	1.6	18.08	"	"	540	-	90	9.5	1.9
64	13.4	1.4	21.12	"	"	560	-	77	11.1	1.7
59	14.5	1.4	23.23	"	"	600	-	70	12.2	1.65
56	15.3	1.3	24.45	"	"	610	-	67	12.8	1.55
51	16.8	1.2	26.89	"	"	650	-	61	14	1.45
44	19.5	1.05	30.91	"	"	690	-	53	16.2	1.25
40	21	0.95	34.00	"	"	720	-	48	17.9	1.1
38.5	22	0.91	35.35	"	"	730	-	46	18.6	1.1
35	24.5	0.82	38.89	"	"	750	-	42	20	1.0

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 0.09 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
128	6.7	3.0	10.59	BG05-../D04LA4	5.1	590	-	153	5.6	3.6
117	7.3	2.9	11.55	"	"	600	-	141	6.0	3.5
113	7.6	2.8	12.05	"	"	510	-	135	6.3	3.3
108	7.9	2.8	12.60	"	"	610	-	129	6.6	3.3
99	8.6	2.7	13.75	"	"	630	-	118	7.2	3.2
89	9.6	2.5	15.23	"	"	640	-	107	8.0	3.0
82	10.4	2.4	16.62	"	"	660	-	98	8.7	2.9
72	11.9	2.2	18.82	"	"	680	-	87	9.8	2.7
66	13	2.1	20.53	"	"	700	-	79	10.8	2.5
57	15	1.85	24.00	"	"	740	-	68	12.6	2.2
52	16.5	1.75	26.18	"	"	760	-	62	13.8	2.1
49	17.5	1.7	27.82	"	"	770	-	59	14.5	2.1
44.5	19.3	1.55	30.35	"	"	760	-	54	15.9	1.9
39	22	1.35	35.00	"	"	810	-	46.5	18.4	1.65
35.5	24	1.25	38.18	"	"	850	-	42.5	20	1.5
34	25	1.2	39.94	"	"	860	-	41	20.5	1.45
31	27.5	1.1	43.57	"	"	900	-	37.5	22.5	1.35
29	29.5	1.0	47.00	"	"	930	-	34.5	24.5	1.2
26.5	32	0.94	51.27	"	"	970	-	32	26.5	1.15
25.5	33.5	0.9	53.44	"	"	980	-	30.5	28	1.05
23.5	36.5	0.82	58.30	"	"	1000	-	28	30.5	0.98
65	13.2	3.0	20.82	BG06-../D04LA4	6.1	800	-	78	11	3.6
60	14.3	3.0	22.71	"	"	810	-	72	11.9	3.6
53	16.2	2.8	25.48	"	"	850	-	64	13.4	3.4
49	17.5	2.6	27.80	"	"	840	-	59	14.5	3.1
42	20	2.3	32.22	"	"	890	-	51	16.8	2.7
38.5	22	2.0	35.15	"	"	880	-	46.5	18.4	2.4
37	23	1.95	36.91	"	"	890	-	44	19.5	2.3
34	25	1.8	40.26	"	"	890	-	40.5	21	2.1
29.5	29	1.55	46.19	"	"	890	-	35.5	24	1.9
27	31.5	1.45	50.38	"	"	940	-	32.5	26	1.75
26	33	1.35	52.56	"	"	950	-	31	27.5	1.65
24	35.5	1.25	57.34	"	"	1000	-	28.5	30	1.5
22.5	38	1.2	61.22	"	"	1020	-	26.5	32	1.4
20.5	41.5	1.1	66.79	"	"	1070	-	24.5	35	1.3
18	45.5	0.88	75.99	BG06G04-../D04LA4	8.4	1070	-	21.5	37.5	1.05
16.5	49.5	0.87	82.89	"	"	1070	-	20	40.5	1.05
15	54	0.83	93.00	"	"	1070	-	17.5	46.5	0.97
23.5	36.5	3.3	57.48	BG10-../D06LA4	13	2000	2800	28.5	30	4.0
21.5	39.5	3.0	63.69	"	"	2000	2800	25.5	33.5	3.6
20.5	41.5	2.9	66.00	"	"	2000	2800	25	34	3.5
18.5	46	2.6	73.13	"	"	2000	2800	22.5	38	3.2
17.5	49	2.4	77.40	BG10Z-../D06LA4	14	2000	2800	21	40.5	3.0
16	53	2.3	85.76	"	"	2000	2800	19	45	2.7
15	57	2.1	92.19	"	"	2000	2800	18	47.5	2.5
13.5	63	1.9	102.1	"	"	2000	2800	16	53	2.3
12.5	68	1.75	109.8	"	"	2000	2800	15	57	2.1
11.5	74	1.6	121.7	"	"	2000	2800	13.5	63	1.9
10.5	81	1.5	131.8	"	"	2000	2800	12.5	68	1.75
9.3	92	1.3	146.0	"	"	2000	2800	11.5	74	1.6
8.2	104	1.15	166.0	"	"	2000	2800	9.8	87	1.4
7.4	116	1.05	184.0	"	"	2000	2800	8.9	96	1.25
7.0	122	0.98	194.6	"	"	2000	2800	8.4	102	1.2
6.3	136	0.88	215.7	"	"	2000	2800	7.6	113	1.05
5.7	150	0.8	240.4	"	"	2000	2800	6.8	126	0.95
4.9	146	0.89	276.4	BG10G06-../D06LA4	18	2000	2800	5.9	116	1.1
13	66	3.0	104.7	BG20Z-../D06LA4	16	5000	-	15.5	55	3.6
12	71	2.8	112.8	"	"	5000	-	14.5	59	3.4
11	78	2.6	125.3	"	"	5000	-	13	66	3.0
9.6	89	2.2	141.3	"	"	5000	-	11.5	74	2.7
8.4	102	1.95	162.2	"	"	5000	-	10	85	2.4
7.5	114	1.75	180.1	"	"	5000	-	9.0	95	2.1
6.8	126	1.6	199.9	"	"	5000	-	8.2	104	1.9

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 0.09 kW

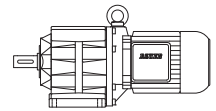


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
6.1	140	1.45	222.1	BG20Z-../D06LA4	"	5000	-	7.3	117	1.7
5.5	130	1.7	248.0	BG20G06-../D06LA4	20	5000	-	6.6	103	2.1
4.6	157	1.4	297.9	"	"	5000	-	5.5	127	1.75
3.9	192	1.15	352.1	"	"	5000	-	4.7	154	1.45
3.5	210	1.05	391.1	"	"	5000	-	4.2	173	1.25
3.0	250	0.88	460.0	"	"	5000	-	3.6	200	1.1
9.5	90	3.3	142.5	BG30Z-../D06LA4	22	6000	-	11.5	74	4.1
9.0	95	3.2	151.5	"	"	6000	-	11	78	3.8
8.1	106	2.8	168.1	"	"	6000	-	9.7	88	3.4
7.4	116	2.6	182.9	"	"	6000	-	8.9	96	3.1
6.7	128	2.3	202.9	"	"	6000	-	8.0	107	2.8
6.0	143	2.1	225.9	"	"	6000	-	7.2	119	2.5
5.2	165	1.8	261.9	"	"	6000	-	6.2	138	2.2
4.7	182	1.65	290.5	"	"	6000	-	5.6	153	1.95
4.5	161	2.0	306.2	BG30G06-../D06LA4	25	6000	-	5.3	132	2.5
3.9	192	1.7	346.8	"	"	6000	-	4.7	154	2.1
3.4	220	1.5	401.9	"	"	6000	-	4.1	177	1.85
2.9	260	1.25	472.8	"	"	6000	-	3.5	210	1.55
2.4	320	1.0	565.8	"	"	6000	-	2.9	255	1.25
2.0	385	0.84	690.6	"	"	6000	-	2.4	315	1.05
6.1	140	3.0	221.9	BG40Z-../D06LA4	38	7000	-	7.4	116	3.7
5.5	156	2.7	246.5	"	"	7000	-	6.6	130	3.3
5.0	171	2.5	273.6	"	"	7000	-	6.0	143	3.0
3.1	170	2.7	448.8	BG40G10-../D06LA4	43	7000	-	3.7	125	3.7
2.6	210	2.2	534.2	"	"	7000	-	3.1	160	2.9
2.2	275	1.7	640.0	"	"	7000	-	2.6	215	2.2
1.9	325	1.45	710.9	"	"	7000	-	2.3	245	1.9
1.8	335	1.4	789.1	"	"	7000	-	2.1	270	1.7
1.4	460	1.0	965.2	"	"	7000	-	1.7	350	1.35
1.2	550	0.85	1225	"	"	7000	-	1.4	455	1.0
2.6	210	3.3	531.5	BG50G10-../D06LA4	51	10000	-	3.1	161	4.3
2.2	280	2.5	621.3	"	"	10000	-	2.7	205	3.4
2.0	300	2.3	708.3	"	"	10000	-	2.3	245	2.8
1.8	335	2.1	785.1	"	"	10000	-	2.1	270	2.6
1.5	420	1.65	960.2	"	"	10000	-	1.7	355	1.95
1.2	550	1.25	1219	"	"	10000	-	1.4	455	1.5
1.3	420	3.1	1051	BG60G20-../D06LA4	100	16000	-	1.6	295	4.4
1.2	465	2.8	1168	"	"	16000	-	1.4	365	3.6
1.1	510	2.5	1346	"	"	16000	-	1.3	395	3.3
0.95	630	2.1	1496	"	"	16000	-	1.1	510	2.5
0.8	800	1.65	1741	"	"	16000	-	0.95	630	2.1
0.75	870	1.5	1880	"	"	16000	-	0.9	680	1.9
0.65	1050	1.25	2249	"	"	16000	-	0.75	870	1.5
0.85	770	3.2	1666	BG70G20-../D06LA4	130	20000	-	1.0	620	4.0
0.7	980	2.6	1994	"	"	20000	-	0.85	770	3.2
0.65	1080	2.3	2215	"	"	20000	-	0.75	900	2.8
0.49	1510	1.65	2774	"	"	20000	-	0.6	1190	2.1
0.43	1750	1.45	3184	"	"	20000	-	0.55	1320	1.9
0.35	2200	1.15	3925	"	"	20000	-	0.42	1800	1.4

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 0.12 kW

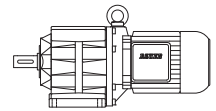


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
540	2.1	1.9	2.51	BG04-../D04LA4	4.4	340	-	650	1.76	2.3
370	3.05	1.65	3.65	"	"	390	-	445	2.55	1.95
310	3.65	1.9	4.39	"	"	380	-	370	3.05	2.3
255	4.45	2.0	5.36	"	"	380	-	305	3.75	2.4
205	5.5	1.8	6.67	"	"	410	-	245	4.65	2.2
158	7.2	1.55	8.58	"	"	410	-	189	6.0	1.85
150	7.6	1.6	9.00	"	"	470	-	180	6.3	1.9
137	8.3	1.55	9.90	"	"	480	-	164	6.9	1.9
125	9.1	1.55	10.82	"	"	480	-	150	7.6	1.85
114	10	1.5	11.90	"	"	490	-	137	8.3	1.8
108	10.6	1.4	12.55	"	"	490	-	130	8.8	1.7
103	11.1	1.45	13.20	"	"	500	-	123	9.3	1.7
93	12.3	1.4	14.52	"	"	510	-	112	10.2	1.65
83	13.8	1.3	16.44	"	"	530	-	99	11.5	1.55
75	15.2	1.2	18.08	"	"	540	-	90	12.7	1.4
64	17.9	1.05	21.12	"	"	560	-	77	14.8	1.3
59	19.4	1.05	23.23	"	"	600	-	70	16.3	1.25
56	20	1.0	24.45	"	"	610	-	67	17.1	1.15
51	22	0.91	26.89	"	"	650	-	61	18.7	1.05
295	3.85	3.1	4.59	BG05-../D04LA4	5.1	490	-	355	3.2	3.8
250	4.55	3.1	5.46	"	"	490	-	300	3.8	3.7
205	5.5	2.9	6.60	"	"	510	-	250	4.55	3.5
174	6.5	2.8	7.80	"	"	530	-	210	5.4	3.3
166	6.9	2.6	8.15	"	"	510	-	199	5.7	3.2
159	7.2	2.6	8.51	"	"	550	-	191	6.0	3.2
128	8.9	2.2	10.59	"	"	590	-	153	7.4	2.7
117	9.7	2.2	11.55	"	"	600	-	141	8.1	2.6
113	10.1	2.1	12.05	"	"	510	-	135	8.4	2.5
108	10.6	2.1	12.60	"	"	610	-	129	8.8	2.5
99	11.5	2.0	13.75	"	"	630	-	118	9.7	2.4
89	12.8	1.9	15.23	"	"	640	-	107	10.7	2.2
82	13.9	1.8	16.62	"	"	660	-	98	11.6	2.2
72	15.9	1.65	18.82	"	"	680	-	87	13.1	2.0
66	17.3	1.55	20.53	"	"	700	-	79	14.5	1.85
57	20	1.4	24.00	"	"	740	-	68	16.8	1.65
52	22	1.3	26.18	"	"	760	-	62	18.4	1.6
49	23	1.3	27.82	"	"	770	-	59	19.4	1.55
44.5	25.5	1.2	30.35	"	"	760	-	54	21	1.45
39	29	1.05	35.00	"	"	810	-	46.5	24.5	1.2
35.5	32	0.94	38.18	"	"	850	-	42.5	26.5	1.15
34	33.5	0.9	39.94	"	"	860	-	41	27.5	1.1
31	36.5	0.82	43.57	"	"	900	-	37.5	30.5	0.98
110	10.4	3.2	12.30	BG06-../D04LA4	6.1	670	-	132	8.6	3.8
105	10.9	3.0	12.98	"	"	600	-	125	9.1	3.6
92	12.4	2.7	14.78	"	"	730	-	110	10.4	3.3
84	13.6	2.6	16.13	"	"	740	-	101	11.3	3.1
78	14.6	2.6	17.40	"	"	760	-	94	12.1	3.1
72	15.9	2.5	18.98	"	"	770	-	86	13.3	3.0
65	17.6	2.3	20.82	"	"	800	-	78	14.6	2.7
60	19.1	2.3	22.71	"	"	810	-	72	15.9	2.7
53	21.5	2.1	25.48	"	"	850	-	64	17.9	2.5
49	23	1.95	27.80	"	"	840	-	59	19.4	2.3
42	27	1.65	32.22	"	"	890	-	51	22	2.0
38.5	29.5	1.55	35.15	"	"	880	-	46.5	24.5	1.85
37	30.5	1.5	36.91	"	"	890	-	44	26	1.75
34	33.5	1.35	40.26	"	"	890	-	40.5	28	1.6
29.5	38.5	1.15	46.19	"	"	890	-	35.5	32	1.4
27	42	1.05	50.38	"	"	940	-	32.5	35	1.3
26	44	1.0	52.56	"	"	950	-	31	36.5	1.25
24	47.5	0.95	57.34	"	"	1000	-	28.5	40	1.15
22.5	50	0.9	61.22	"	"	1020	-	26.5	43	1.05
20.5	55	0.82	66.79	"	"	1070	-	24.5	46.5	0.97

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 0.12 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
31	36.5	3.3	43.99	BG10-../D06LA4	13	1880	2600	37	30.5	3.9
29.5	38.5	3.1	46.55	"	"	1920	2650	35	32.5	3.7
26.5	43	2.8	51.57	"	"	2000	2800	31.5	36	3.3
23.5	48.5	2.5	57.48	"	"	2000	2800	28.5	40	3.0
21.5	53	2.3	63.69	"	"	2000	2800	25.5	44.5	2.7
20.5	55	2.2	66.00	"	"	2000	2800	25	45.5	2.6
18.5	61	1.95	73.13	"	"	2000	2800	22.5	50	2.4
17.5	65	1.85	77.40	BG10Z-../D06LA4	14	2000	2800	21	54	2.2
16	71	1.7	85.76	"	"	2000	2800	19	60	2.0
15	76	1.6	92.19	"	"	2000	2800	18	63	1.9
13.5	84	1.45	102.1	"	"	2000	2800	16	71	1.7
12.5	91	1.3	109.8	"	"	2000	2800	15	76	1.6
11.5	99	1.2	121.7	"	"	2000	2800	13.5	84	1.45
10.5	109	1.1	131.8	"	"	2000	2800	12.5	91	1.3
9.3	123	0.98	146.0	"	"	2000	2800	11.5	99	1.2
8.2	139	0.86	166.0	"	"	2000	2800	9.8	116	1.05
7.0	143	0.91	194.9	BG10G06-../D06LA4	18	2000	2800	8.4	115	1.15
17.5	65	3.1	78.60	BG20Z-../D06LA4	16	5000	-	21	54	3.7
15.5	73	2.7	87.30	"	"	5000	-	19	60	3.3
14.5	79	2.5	94.27	"	"	5000	-	17.5	65	3.1
13	88	2.3	104.7	"	"	5000	-	15.5	73	2.7
12	95	2.1	112.8	"	"	5000	-	14.5	79	2.5
11	104	1.9	125.3	"	"	5000	-	13	88	2.3
9.6	119	1.7	141.3	"	"	5000	-	11.5	99	2.0
8.4	136	1.45	162.2	"	"	5000	-	10	114	1.75
7.5	152	1.3	180.1	"	"	5000	-	9.0	127	1.55
6.8	168	1.2	199.9	"	"	5000	-	8.2	139	1.45
6.1	187	1.05	222.1	"	"	5000	-	7.3	156	1.3
5.5	182	1.2	248.0	BG20G06-../D06LA4	20	5000	-	6.6	147	1.5
4.6	220	1.0	297.9	"	"	5000	-	5.5	179	1.25
3.9	265	0.83	352.1	"	"	5000	-	4.7	215	1.0
12.5	91	3.3	109.6	BG30Z-../D06LA4	22	6000	-	15	76	3.9
11.5	99	3.0	121.6	"	"	6000	-	13.5	84	3.6
11	104	2.9	128.5	"	"	6000	-	13	88	3.4
9.5	120	2.5	142.5	"	"	6000	-	11.5	99	3.0
9.0	127	2.4	151.5	"	"	6000	-	11	104	2.9
8.1	141	2.1	168.1	"	"	6000	-	9.7	118	2.5
7.4	154	1.95	182.9	"	"	6000	-	8.9	128	2.3
6.7	171	1.75	202.9	"	"	6000	-	8.0	143	2.1
6.0	191	1.55	225.9	"	"	6000	-	7.2	159	1.9
5.2	220	1.35	261.9	"	"	6000	-	6.2	184	1.65
4.7	240	1.25	290.5	"	"	6000	-	5.6	200	1.5
4.5	220	1.5	306.2	BG30G06-../D06LA4	25	6000	-	5.3	186	1.75
3.9	265	1.25	346.8	"	"	6000	-	4.7	215	1.5
3.4	300	1.1	401.9	"	"	6000	-	4.1	245	1.35
2.9	360	0.9	472.8	"	"	6000	-	3.5	290	1.1
8.7	131	3.2	156.9	BG40Z-../D06LA4	38	7000	-	10.5	109	3.9
8.2	139	3.1	166.1	"	"	7000	-	9.8	116	3.7
7.4	154	2.8	184.4	"	"	7000	-	8.8	130	3.3
6.8	168	2.5	199.9	"	"	7000	-	8.2	139	3.1
6.1	187	2.3	221.9	"	"	7000	-	7.4	154	2.8
5.5	205	2.1	246.5	"	"	7000	-	6.6	173	2.5
5.0	225	1.9	273.6	"	"	7000	-	6.0	191	2.2
4.7	153	3.0	288.6	BG40G10-../D06LA4	43	7000	-	5.7	111	4.2
3.9	194	2.4	353.5	"	"	7000	-	4.6	149	3.1
3.1	260	1.8	448.8	"	"	7000	-	3.7	200	2.3
2.6	320	1.45	534.2	"	"	7000	-	3.1	250	1.85
2.2	405	1.15	640.0	"	"	7000	-	2.6	325	1.45
1.9	475	0.98	710.9	"	"	7000	-	2.3	370	1.25
1.8	495	0.94	789.1	"	"	7000	-	2.1	405	1.15

6



# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

**P = 0.12 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
6.0	191	3.3	226.9	BG50Z-../D06LA4	47	10000	-	7.2	159	4.0
5.3	215	2.9	258.6	"	"	10000	-	6.3	181	3.5
4.8	235	2.7	286.7	"	"	10000	-	5.7	200	3.2
3.1	260	2.7	446.5	BG50G10-../D06LA4	51	10000	-	3.7	200	3.5
2.6	320	2.2	531.5	"	"	10000	-	3.1	250	2.8
2.2	410	1.7	621.3	"	"	10000	-	2.7	310	2.2
2.0	445	1.55	708.3	"	"	10000	-	2.3	370	1.85
1.8	495	1.4	785.1	"	"	10000	-	2.1	405	1.7
1.5	610	1.15	960.2	"	"	10000	-	1.7	520	1.35
1.2	790	0.87	1219	"	"	10000	-	1.4	660	1.05
1.7	470	2.8	804.5	BG60G20-../D06LA4	100	16000	-	2.1	340	3.8
1.6	490	2.7	891.5	"	"	16000	-	1.9	375	3.5
1.3	640	2.0	1051	"	"	16000	-	1.6	475	2.7
1.2	700	1.85	1168	"	"	16000	-	1.4	570	2.3
1.1	770	1.7	1346	"	"	16000	-	1.3	610	2.1
0.95	930	1.4	1496	"	"	16000	-	1.1	770	1.7
0.8	1160	1.1	1741	"	"	16000	-	0.95	930	1.4
0.75	1250	1.05	1880	"	"	16000	-	0.9	1000	1.3
1.0	900	2.8	1389	BG70G20-../D06LA4	130	20000	-	1.2	710	3.5
0.9	1030	2.4	1543	"	"	20000	-	1.1	800	3.1
0.85	1100	2.3	1666	"	"	20000	-	1.0	900	2.8
0.7	1390	1.8	1994	"	"	20000	-	0.85	1100	2.3
0.65	1520	1.65	2215	"	"	20000	-	0.75	1280	1.95
0.49	2050	1.2	2774	"	"	20000	-	0.6	1670	1.5
0.43	2400	1.05	3184	"	"	20000	-	0.55	1840	1.35

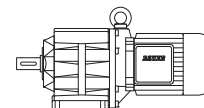
**P = 0.18 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
520	3.3	2.7	2.64	BG05-../D05LA4	7.0	420	-	620	2.75	3.3
400	4.25	2.4	3.38	"	"	460	-	480	3.55	2.8
295	5.8	2.1	4.59	"	"	490	-	355	4.8	2.5
250	6.8	2.1	5.46	"	"	490	-	300	5.7	2.5
205	8.3	1.95	6.60	"	"	510	-	250	6.8	2.4
174	9.8	1.85	7.80	"	"	530	-	210	8.1	2.2
166	10.3	1.75	8.15	"	"	510	-	199	8.6	2.1
159	10.8	1.75	8.51	"	"	550	-	191	9.0	2.1
128	13.4	1.5	10.59	"	"	590	-	153	11.2	1.8
117	14.6	1.45	11.55	"	"	600	-	141	12.1	1.75
113	15.2	1.4	12.05	"	"	510	-	135	12.7	1.65
108	15.9	1.4	12.60	"	"	610	-	129	13.3	1.65
99	17.3	1.35	13.75	"	"	630	-	118	14.5	1.6
89	19.3	1.25	15.23	"	"	640	-	107	16	1.5
82	20.5	1.2	16.62	"	"	660	-	98	17.5	1.45
72	23.5	1.1	18.82	"	"	680	-	87	19.7	1.3
66	26	1.05	20.53	"	"	700	-	79	21.5	1.25
57	30	0.93	24.00	"	"	740	-	68	25	1.1
52	33	0.88	26.18	"	"	760	-	62	27.5	1.05
49	35	0.86	27.82	"	"	770	-	59	29	1.05
230	7.4	3.2	5.96	BG06-../D05LA4	8.0	570	-	275	6.2	3.9
193	8.9	2.9	7.01	"	"	580	-	235	7.3	3.6
161	10.6	2.6	8.39	"	"	600	-	194	8.8	3.2
144	11.9	2.5	9.38	"	"	640	-	173	9.9	3.0
132	13	2.4	10.24	"	"	640	-	159	10.8	2.9
120	14.3	2.2	11.28	"	"	670	-	144	11.9	2.7
110	15.6	2.1	12.30	"	"	670	-	132	13	2.5
105	16.3	2.0	12.98	"	"	600	-	125	13.7	2.4
92	18.6	1.85	14.78	"	"	730	-	110	15.6	2.2
84	20	1.75	16.13	"	"	740	-	101	17	2.1

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 0.18 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
78	22	1.75	17.40	"	"	760	-	94	18.2	2.1
72	23.5	1.7	18.98	"	"	770	-	86	19.9	2.0
65	26	1.55	20.82	"	"	800	-	78	22	1.8
60	28.5	1.5	22.71	"	"	810	-	72	23.5	1.85
53	32	1.4	25.48	"	"	850	-	64	26.5	1.7
49	35	1.3	27.80	"	"	840	-	59	29	1.55
42	40.5	1.1	32.22	"	"	890	-	51	33.5	1.35
38.5	44.5	1.0	35.15	"	"	880	-	46.5	36.5	1.25
37	46	0.98	36.91	"	"	890	-	44	39	1.15
34	50	0.9	40.26	"	"	890	-	40.5	42	1.05
46.5	36.5	3.3	29.09	<b>BG10-../D06LA4</b>	13	1540	2150	56	30.5	3.9
43	39.5	3.0	31.52	"	"	1600	2200	52	33	3.6
39	44	2.7	34.92	"	"	1690	2350	46.5	36.5	3.3
34.5	49.5	2.4	39.70	"	"	1780	2450	41	41.5	2.9
31	55	2.2	43.99	"	"	1880	2600	37	46	2.6
29.5	58	2.1	46.55	"	"	1920	2650	35	49	2.4
26.5	64	1.9	51.57	"	"	2000	2800	31.5	54	2.2
23.5	73	1.65	57.48	"	"	2000	2800	28.5	60	2.0
21.5	79	1.5	63.69	"	"	2000	2800	25.5	67	1.8
20.5	83	1.45	66.00	"	"	2000	2800	25	68	1.75
18.5	92	1.3	73.13	"	"	2000	2800	22.5	76	1.6
17.5	98	1.2	77.40	<b>BG10Z-../D06LA4</b>	14	2000	2800	21	81	1.5
16	107	1.1	85.76	"	"	2000	2800	19	90	1.35
15	114	1.05	92.19	"	"	2000	2800	18	95	1.25
13.5	127	0.94	102.1	"	"	2000	2800	16	107	1.1
12.5	137	0.88	109.8	"	"	2000	2800	15	114	1.05
11.5	149	0.81	121.7	"	"	2000	2800	13.5	127	0.94
36	47.5	3.2	37.90	<b>BG15-../D06LA4</b>	13	3000	6000	43	39.5	3.8
28.5	60	3.3	47.92	<b>BG20-../D06LA4</b>	16	4750	-	34	50	4.0
25.5	67	3.0	53.22	"	"	4950	-	30.5	56	3.6
23	74	2.7	59.07	"	"	5000	-	27.5	62	3.2
21	81	2.5	65.62	"	"	5000	-	25	68	2.9
20	85	2.4	67.53	<b>BG20Z-../D06LA4</b>	16	5000	-	24	71	2.8
17.5	98	2.0	78.60	"	"	5000	-	21	81	2.5
15.5	110	1.8	87.30	"	"	5000	-	19	90	2.2
14.5	118	1.7	94.27	"	"	5000	-	17.5	98	2.0
13	132	1.5	104.7	"	"	5000	-	15.5	110	1.8
12	143	1.4	112.8	"	"	5000	-	14.5	118	1.7
11	156	1.3	125.3	"	"	5000	-	13	132	1.5
9.6	179	1.1	141.3	"	"	5000	-	11.5	149	1.35
8.4	200	1.0	162.2	"	"	5000	-	10	171	1.15
7.5	225	0.89	180.1	"	"	5000	-	9.0	191	1.05
6.8	250	0.8	199.9	"	"	5000	-	8.2	205	0.98
21	81	3.3	65.79	<b>BG30Z-../D06LA4</b>	22	6000	-	25	68	3.9
18.5	92	3.3	73.51	"	"	6000	-	22.5	76	3.9
17	101	3.0	81.55	"	"	6000	-	20	85	3.5
16	107	2.8	86.13	"	"	6000	-	19	90	3.3
14.5	118	2.5	95.55	"	"	6000	-	17	101	3.0
12.5	137	2.2	109.6	"	"	6000	-	15	114	2.6
11.5	149	2.0	121.6	"	"	6000	-	13.5	127	2.4
11	156	1.9	128.5	"	"	6000	-	13	132	2.3
9.5	180	1.65	142.5	"	"	6000	-	11.5	149	2.0
9.0	191	1.55	151.5	"	"	6000	-	11	156	1.9
8.1	210	1.45	168.1	"	"	6000	-	9.7	177	1.7
7.4	230	1.3	182.9	"	"	6000	-	8.9	193	1.55
6.7	255	1.2	202.9	"	"	6000	-	8.0	210	1.45
6.0	285	1.05	225.9	"	"	6000	-	7.2	235	1.3
5.2	330	0.91	261.9	"	"	6000	-	6.2	275	1.1
4.7	365	0.82	290.5	"	"	6000	-	5.6	305	0.98
4.5	350	0.93	306.2	<b>BG30G06-../D06LA4</b>	25	6000	-	5.3	290	1.1

6

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

**P = 0.18 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
13	132	3.2	107.5	BG40Z-../D06LA4	38	7000	-	15.5	110	3.9
11.5	149	2.9	121.3	"	"	7000	-	13.5	127	3.3
10.5	163	2.6	134.6	"	"	7000	-	12.5	137	3.1
9.6	179	2.4	141.4	"	"	7000	-	11.5	149	2.9
8.7	197	2.2	156.9	"	"	7000	-	10.5	163	2.6
8.2	205	2.1	166.1	"	"	7000	-	9.8	175	2.4
7.4	230	1.85	184.4	"	"	7000	-	8.8	195	2.2
6.8	250	1.7	199.9	"	"	7000	-	8.2	205	2.1
6.1	280	1.5	221.9	"	"	7000	-	7.4	230	1.85
5.5	310	1.35	246.5	"	"	7000	-	6.6	260	1.65
5.0	340	1.25	273.6	"	"	7000	-	6.0	285	1.5
4.7	275	1.7	288.6	BG40G10-../D06LA4	43	7000	-	5.7	210	2.2
3.9	340	1.35	353.5	"	"	7000	-	4.6	270	1.7
3.1	445	1.05	448.8	"	"	7000	-	3.7	355	1.3
2.6	540	0.86	534.2	"	"	7000	-	3.1	435	1.05
8.2	205	3.1	164.9	BG50Z-../D06LA4	47	10000	-	9.9	173	3.6
7.4	230	2.7	182.8	"	"	10000	-	8.9	193	3.3
6.6	260	2.4	204.7	"	"	10000	-	8.0	210	3.0
6.0	285	2.2	226.9	"	"	10000	-	7.2	235	2.7
5.3	320	1.95	258.6	"	"	10000	-	6.3	270	2.3
4.8	355	1.75	286.7	"	"	10000	-	5.7	300	2.1
3.9	340	2.0	351.7	BG50G10-../D06LA4	51	10000	-	4.7	265	2.6
3.1	445	1.55	446.5	"	"	10000	-	3.7	355	1.95
2.6	540	1.3	531.5	"	"	10000	-	3.1	435	1.6
2.2	670	1.05	621.3	"	"	10000	-	2.7	520	1.35
2.0	730	0.95	708.3	"	"	10000	-	2.3	620	1.1
1.8	810	0.85	785.1	"	"	10000	-	2.1	680	1.0
2.7	485	2.7	504.9	BG60G20-../D06LA4	100	16000	-	3.3	370	3.5
2.5	520	2.5	559.5	"	"	16000	-	2.9	425	3.1
2.1	650	2.0	651.3	"	"	16000	-	2.5	520	2.5
1.7	800	1.65	804.5	"	"	16000	-	2.1	610	2.1
1.6	840	1.55	891.5	"	"	16000	-	1.9	670	1.95
1.3	1080	1.2	1051	"	"	16000	-	1.6	830	1.55
1.2	1180	1.1	1168	"	"	16000	-	1.4	980	1.35
1.1	1290	1.0	1346	"	"	16000	-	1.3	1050	1.25
1.8	750	3.3	790.2	BG70G20-../D06LA4	130	20000	-	2.1	610	4.1
1.6	860	2.9	877.6	"	"	20000	-	1.9	690	3.6
1.4	1000	2.5	1035	"	"	20000	-	1.6	850	2.9
1.2	1190	2.1	1193	"	"	20000	-	1.4	990	2.5
1.0	1470	1.7	1389	"	"	20000	-	1.2	1190	2.1
0.9	1670	1.5	1543	"	"	20000	-	1.1	1320	1.9
0.85	1780	1.4	1666	"	"	20000	-	1.0	1470	1.7
0.7	2200	1.15	1994	"	"	20000	-	0.85	1780	1.4
0.65	2400	1.05	2215	"	"	20000	-	0.75	2050	1.2

**P = 0.25 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
520	4.55	2.0	2.64	BG05-../D05LA4	7.0	420	-	620	3.85	2.3
400	5.9	1.7	3.38	"	"	460	-	480	4.95	2.0
295	8.0	1.5	4.59	"	"	490	-	355	6.7	1.8
250	9.5	1.45	5.46	"	"	490	-	300	7.9	1.75
205	11.6	1.4	6.60	"	"	510	-	250	9.5	1.7
174	13.7	1.3	7.80	"	"	530	-	210	11.3	1.6
166	14.3	1.25	8.15	"	"	510	-	199	11.9	1.5
159	15	1.25	8.51	"	"	550	-	191	12.5	1.5
128	18.6	1.1	10.59	"	"	590	-	153	15.6	1.3
117	20	1.05	11.55	"	"	600	-	141	16.9	1.25

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 0.25 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
113	21	1.0	12.05	BG05-../D05LA4	"	510	-	135	17.6	1.2
108	22	1.0	12.60	"	"	610	-	129	18.5	1.2
99	24	0.96	13.75	"	"	630	-	118	20	1.15
89	26.5	0.91	15.23	"	"	640	-	107	22	1.1
82	29	0.86	16.62	"	"	660	-	98	24	1.05
360	6.6	3.0	3.78	BG06-../D05LA4	8.0	520	-	430	5.5	3.6
300	7.9	2.8	4.54	"	"	530	-	360	6.6	3.3
230	10.3	2.3	5.96	"	"	570	-	275	8.6	2.8
193	12.3	2.1	7.01	"	"	580	-	235	10.1	2.6
161	14.8	1.9	8.39	"	"	600	-	194	12.3	2.3
144	16.5	1.8	9.38	"	"	640	-	173	13.8	2.2
132	18	1.7	10.24	"	"	640	-	159	15	2.1
120	19.8	1.6	11.28	"	"	670	-	144	16.5	1.95
110	21.5	1.55	12.30	"	"	670	-	132	18	1.85
105	22.5	1.45	12.98	"	"	600	-	125	19.1	1.75
92	25.5	1.35	14.78	"	"	730	-	110	21.5	1.6
84	28	1.25	16.13	"	"	740	-	101	23.5	1.5
78	30.5	1.25	17.40	"	"	760	-	94	25	1.5
72	33	1.2	18.98	"	"	770	-	86	27.5	1.45
65	36.5	1.1	20.82	"	"	800	-	78	30.5	1.3
60	39.5	1.1	22.71	"	"	810	-	72	33	1.3
53	45	1.0	25.48	"	"	850	-	64	37	1.2
49	48.5	0.93	27.80	"	"	840	-	59	40	1.15
42	56	0.8	32.22	"	"	890	-	51	46.5	0.97
66	36	3.3	20.51	BG10-../D06LA4	13	1290	1800	79	30	4.0
62	38.5	3.1	22.04	"	"	1330	1860	74	32	3.8
56	42.5	2.8	24.42	"	"	1410	1970	67	35.5	3.4
52	45.5	2.6	26.26	"	"	1460	2000	62	38.5	3.1
46.5	51	2.4	29.09	"	"	1540	2150	56	42.5	2.8
43	55	2.2	31.52	"	"	1600	2200	52	45.5	2.6
39	61	1.95	34.92	"	"	1690	2350	46.5	51	2.4
34.5	69	1.75	39.70	"	"	1780	2450	41	58	2.1
31	77	1.55	43.99	"	"	1880	2600	37	64	1.9
29.5	80	1.5	46.55	"	"	1920	2650	35	68	1.75
26.5	90	1.35	51.57	"	"	2000	2800	31.5	75	1.6
23.5	101	1.2	57.48	"	"	2000	2800	28.5	83	1.45
21.5	111	1.1	63.69	"	"	2000	2800	25.5	93	1.3
20.5	116	1.05	66.00	"	"	2000	2800	25	95	1.25
18.5	129	0.93	73.13	"	"	2000	2800	22.5	106	1.15
17.5	136	0.88	77.40	BG10Z-../D06LA4	14	2000	2800	21	113	1.05
16	149	0.81	85.76	"	"	2000	2800	19	125	0.96
50	47.5	3.2	27.08	BG15-../D06LA4	13	3000	6000	60	39.5	3.8
45	53	2.8	30.08	"	"	3000	6000	54	44	3.4
39.5	60	2.5	34.20	"	"	3000	6000	47.5	50	3.0
36	66	2.3	37.90	"	"	3000	6000	43	55	2.7
36.5	65	3.1	37.02	BG20-../D06LA4	16	4300	-	44	54	3.7
32.5	73	2.7	41.76	"	"	4500	-	39	61	3.3
29.5	80	2.5	46.38	"	"	4700	-	35	68	2.9
28.5	83	2.4	47.92	"	"	4750	-	34	70	2.9
25.5	93	2.2	53.22	"	"	4950	-	30.5	78	2.6
23	103	1.95	59.07	"	"	5000	-	27.5	86	2.3
21	113	1.75	65.62	"	"	5000	-	25	95	2.1
20	119	1.7	67.53	BG20Z-../D06LA4	16	5000	-	24	99	2.0
17.5	136	1.45	78.60	"	"	5000	-	21	113	1.75
15.5	154	1.3	87.30	"	"	5000	-	19	125	1.6
14.5	164	1.2	94.27	"	"	5000	-	17.5	136	1.45
13	183	1.1	104.7	"	"	5000	-	15.5	154	1.3
12	198	1.0	112.8	"	"	5000	-	14.5	164	1.2
11	215	0.93	125.3	"	"	5000	-	13	183	1.1
9.6	245	0.82	141.3	"	"	5000	-	11.5	205	0.98

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 0.25 kW

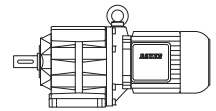


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
26	91	3.3	52.44	BG30-../D06LA4	20	6000	-	31	77	3.9
23.5	101	3.0	58.18	"	"	6000	-	28	85	3.5
22.5	106	2.8	60.79	"	"	6000	-	27	88	3.4
20.5	116	2.6	67.44	"	"	6000	-	24.5	97	3.1
18.5	129	2.3	73.51	BG30Z-../D06LA4	22	6000	-	22.5	106	2.8
17	140	2.1	81.55	"	"	6000	-	20	119	2.5
16	149	2.0	86.13	"	"	6000	-	19	125	2.4
14.5	164	1.85	95.55	"	"	6000	-	17	140	2.1
12.5	191	1.55	109.6	"	"	6000	-	15	159	1.9
11.5	205	1.45	121.6	"	"	6000	-	13.5	176	1.7
11	215	1.4	128.5	"	"	6000	-	13	183	1.65
9.5	250	1.2	142.5	"	"	6000	-	11.5	205	1.45
9.0	265	1.15	151.5	"	"	6000	-	11	215	1.4
8.1	290	1.05	168.1	"	"	6000	-	9.7	245	1.2
7.4	320	0.94	182.9	"	"	6000	-	8.9	265	1.15
6.7	355	0.85	202.9	"	"	6000	-	8.0	295	1.0
18	132	3.2	75.19	BG40Z-../D06LA4	38	7000	-	22	108	3.9
16.5	144	3.0	82.00	"	"	7000	-	20	119	3.6
15	159	2.7	91.02	"	"	7000	-	18	132	3.2
14	170	2.5	96.86	"	"	7000	-	17	140	3.0
13	183	2.3	107.5	"	"	7000	-	15.5	154	2.8
11.5	205	2.1	121.3	"	"	7000	-	13.5	176	2.4
10.5	225	1.9	134.6	"	"	7000	-	12.5	191	2.2
9.6	245	1.75	141.4	"	"	7000	-	11.5	205	2.1
8.7	270	1.55	156.9	"	"	7000	-	10.5	225	1.9
8.2	290	1.45	166.1	"	"	7000	-	9.8	240	1.75
7.4	320	1.35	184.4	"	"	7000	-	8.8	270	1.55
6.8	350	1.2	199.9	"	"	7000	-	8.2	290	1.45
6.1	390	1.1	221.9	"	"	7000	-	7.4	320	1.35
5.5	430	0.99	246.5	"	"	7000	-	6.6	360	1.2
5.0	475	0.89	273.6	"	"	7000	-	6.0	395	1.1
4.7	415	1.1	288.6	BG40G10-../D06LA4	43	7000	-	5.7	325	1.45
3.9	510	0.91	353.5	"	"	7000	-	4.6	415	1.1
10.5	225	2.8	128.9	BG50Z-../D06LA4	47	10000	-	13	183	3.4
9.5	250	2.5	142.9	"	"	10000	-	11.5	205	3.1
8.2	290	2.2	164.9	"	"	10000	-	9.9	240	2.6
7.4	320	1.95	182.8	"	"	10000	-	8.9	265	2.4
6.6	360	1.75	204.7	"	"	10000	-	8.0	295	2.1
6.0	395	1.6	226.9	"	"	10000	-	7.2	330	1.9
5.3	450	1.4	258.6	"	"	10000	-	6.3	375	1.7
4.8	495	1.25	286.7	"	"	10000	-	5.7	415	1.5
3.9	510	1.35	351.7	BG50G10-../D06LA4	51	10000	-	4.7	405	1.7
3.1	660	1.05	446.5	"	"	10000	-	3.7	530	1.3
2.6	800	0.86	531.5	"	"	10000	-	3.1	650	1.05
4.5	400	3.3	306.1	BG60G20-../D06LA4	100	16000	-	5.3	320	4.1
4.1	440	3.0	334.3	"	"	16000	-	4.9	345	3.8
3.7	490	2.7	370.5	"	"	16000	-	4.4	385	3.4
3.1	600	2.2	437.3	"	"	16000	-	3.8	460	2.8
2.7	730	1.8	504.9	"	"	16000	-	3.3	570	2.3
2.5	790	1.65	559.5	"	"	16000	-	2.9	650	2.0
2.1	970	1.35	651.3	"	"	16000	-	2.5	790	1.65
1.7	1200	1.1	804.5	"	"	16000	-	2.1	930	1.4
1.6	1260	1.05	891.5	"	"	16000	-	1.9	1030	1.25
1.3	1590	0.82	1051	"	"	16000	-	1.6	1250	1.05
2.4	840	3.0	577.3	BG70G20-../D06LA4	130	20000	-	2.9	670	3.7
2.1	960	2.6	665.8	"	"	20000	-	2.5	780	3.2
1.8	1120	2.2	790.2	"	"	20000	-	2.1	930	2.7
1.6	1280	1.95	877.6	"	"	20000	-	1.9	1050	2.4
1.4	1480	1.7	1035	"	"	20000	-	1.6	1270	1.95
1.2	1750	1.45	1193	"	"	20000	-	1.4	1470	1.7
1.0	2100	1.2	1389	"	"	20000	-	1.2	1750	1.45
0.9	2400	1.05	1543	"	"	20000	-	1.1	1930	1.3

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 0.3 kW

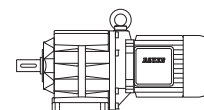


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
520	5.5	1.65	2.64	BG05-../D07LA4	11	420	-	620	4.6	1.95
400	7.1	1.4	3.38	"	"	460	-	480	5.9	1.7
295	9.7	1.25	4.59	"	"	490	-	355	8.0	1.5
250	11.4	1.25	5.46	"	"	490	-	300	9.5	1.45
205	13.9	1.15	6.60	"	"	510	-	250	11.4	1.4
174	16.4	1.1	7.80	"	"	530	-	210	13.6	1.3
166	17.2	1.05	8.15	"	"	510	-	199	14.3	1.25
159	18	1.05	8.51	"	"	550	-	191	15	1.25
128	22	0.91	10.59	"	"	590	-	153	18.7	1.05
117	24	0.88	11.55	"	"	600	-	141	20	1.05
113	25	0.84	12.05	"	"	510	-	135	21	1.0
108	26.5	0.83	12.60	"	"	610	-	129	22	1.0
99	28.5	0.81	13.75	"	"	630	-	118	24	0.96
360	7.9	2.5	3.78	BG06-../D07LA4	12	520	-	430	6.6	3.0
300	9.5	2.3	4.54	"	"	530	-	360	7.9	2.8
230	12.4	1.95	5.96	"	"	570	-	275	10.4	2.3
193	14.8	1.75	7.01	"	"	580	-	235	12.1	2.1
161	17.7	1.6	8.39	"	"	600	-	194	14.7	1.9
144	19.8	1.5	9.38	"	"	640	-	173	16.5	1.8
132	21.5	1.45	10.24	"	"	640	-	159	18	1.7
120	23.5	1.35	11.28	"	"	670	-	144	19.8	1.6
110	26	1.25	12.30	"	"	670	-	132	21.5	1.55
105	27	1.2	12.98	"	"	600	-	125	22.5	1.45
92	31	1.1	14.78	"	"	730	-	110	26	1.3
84	34	1.05	16.13	"	"	740	-	101	28	1.25
78	36.5	1.05	17.40	"	"	760	-	94	30	1.25
72	39.5	1.0	18.98	"	"	770	-	86	33	1.2
65	44	0.91	20.82	"	"	800	-	78	36.5	1.1
60	47.5	0.91	22.71	"	"	810	-	72	39.5	1.1
53	54	0.83	25.48	"	"	850	-	64	44.5	1.0
73	39	3.1	18.51	BG10-../D07LA4	15	1210	1690	88	32.5	3.7
66	43	2.8	20.51	"	"	1290	1800	79	36	3.3
62	46	2.6	22.04	"	"	1330	1860	74	38.5	3.1
56	51	2.4	24.42	"	"	1410	1970	67	42.5	2.8
52	55	2.2	26.26	"	"	1460	2000	62	46	2.6
46.5	61	1.95	29.09	"	"	1540	2150	56	51	2.4
43	66	1.8	31.52	"	"	1600	2200	52	55	2.2
39	73	1.65	34.92	"	"	1690	2350	46.5	61	1.95
34.5	83	1.45	39.70	"	"	1780	2450	41	69	1.75
31	92	1.3	43.99	"	"	1880	2600	37	77	1.55
29.5	97	1.25	46.55	"	"	1920	2650	35	81	1.5
26.5	108	1.1	51.57	"	"	2000	2800	31.5	90	1.35
23.5	121	0.99	57.48	"	"	2000	2800	28.5	100	1.2
21.5	133	0.9	63.69	"	"	2000	2800	25.5	112	1.05
20.5	139	0.86	66.00	"	"	2000	2800	25	114	1.05
50	57	2.6	27.08	BG15-../D07LA4	15	3000	6000	60	47.5	3.2
45	63	2.4	30.08	"	"	3000	6000	54	53	2.8
39.5	72	2.1	34.20	"	"	3000	6000	47.5	60	2.5
36	79	1.9	37.90	"	"	3000	6000	43	66	2.3
44	65	3.1	30.94	BG20-../D07LA4	18	4000	-	53	54	3.7
41	69	2.9	33.33	"	"	4100	-	49	58	3.4
36.5	78	2.6	37.02	"	"	4300	-	44	65	3.1
32.5	88	2.3	41.76	"	"	4500	-	39	73	2.7
29.5	97	2.1	46.38	"	"	4700	-	35	81	2.5
28.5	100	2.0	47.92	"	"	4750	-	34	84	2.4
25.5	112	1.8	53.22	"	"	4950	-	30.5	93	2.2
23	124	1.6	59.07	"	"	5000	-	27.5	104	1.9
21	136	1.45	65.62	"	"	5000	-	25	114	1.75
20	143	1.4	67.53	BG20Z-../D07LA4	19	5000	-	24	119	1.7
17.5	163	1.25	78.60	"	"	5000	-	21	136	1.45
15.5	184	1.1	87.30	"	"	5000	-	19	150	1.35
14.5	197	1.0	94.27	"	"	5000	-	17.5	163	1.25
13	220	0.91	104.7	"	"	5000	-	15.5	184	1.1
12	235	0.85	112.8	"	"	5000	-	14.5	197	1.0

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 0.3 kW

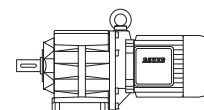


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
29	98	3.1	47.11	BG30-../D07LA4	22	6000	-	34.5	83	3.6
26	110	2.7	52.44	"	"	6000	-	31	92	3.3
23.5	121	2.5	58.18	"	"	6000	-	28	102	2.9
22.5	127	2.4	60.79	"	"	6000	-	27	106	2.8
20.5	139	2.2	67.44	"	"	6000	-	24.5	116	2.6
18.5	154	1.95	73.51	BG30Z-../D07LA4	25	6000	-	22.5	127	2.4
17	168	1.8	81.55	"	"	6000	-	20	143	2.1
16	179	1.7	86.13	"	"	6000	-	19	150	2.0
14.5	197	1.5	95.55	"	"	6000	-	17	168	1.8
12.5	225	1.35	109.6	"	"	6000	-	15	191	1.55
11.5	245	1.2	121.6	"	"	6000	-	13.5	210	1.45
11	260	1.15	128.5	"	"	6000	-	13	220	1.35
9.5	300	1.0	142.5	"	"	6000	-	11.5	245	1.2
9.0	315	0.95	151.5	"	"	6000	-	11	260	1.15
8.1	350	0.86	168.1	"	"	6000	-	9.7	295	1.0
20	143	3.0	67.74	BG40Z-../D07LA4	40	7000	-	24	119	3.6
18	159	2.7	75.19	"	"	7000	-	22	130	3.3
16.5	173	2.5	82.00	"	"	7000	-	20	143	3.0
15	191	2.2	91.02	"	"	7000	-	18	159	2.7
14	200	2.1	96.86	"	"	7000	-	17	168	2.5
13	220	1.95	107.5	"	"	7000	-	15.5	184	2.3
11.5	245	1.75	121.3	"	"	7000	-	13.5	210	2.0
10.5	270	1.55	134.6	"	"	7000	-	12.5	225	1.9
9.6	295	1.45	141.4	"	"	7000	-	11.5	245	1.75
8.7	325	1.3	156.9	"	"	7000	-	10.5	270	1.55
8.2	345	1.25	166.1	"	"	7000	-	9.8	290	1.45
7.4	385	1.1	184.4	"	"	7000	-	8.8	325	1.3
6.8	420	1.0	199.9	"	"	7000	-	8.2	345	1.25
6.1	465	0.91	221.9	"	"	7000	-	7.4	385	1.1
5.5	520	0.82	246.5	"	"	7000	-	6.6	430	0.99
4.7	510	0.91	288.6	BG40G10-../D07LA4	46	7000	-	5.7	410	1.15
14.5	197	3.2	95.58	BG50Z-../D07LA4	50	10000	-	17	168	3.8
13	220	2.9	106.0	"	"	10000	-	15.5	184	3.4
10.5	270	2.3	128.9	"	"	10000	-	13	220	2.9
9.5	300	2.1	142.9	"	"	10000	-	11.5	245	2.6
8.2	345	1.85	164.9	"	"	10000	-	9.9	285	2.2
7.4	385	1.65	182.8	"	"	10000	-	8.9	320	1.95
6.6	430	1.45	204.7	"	"	10000	-	8.0	355	1.75
6.0	475	1.35	226.9	"	"	10000	-	7.2	395	1.6
5.3	540	1.15	258.6	"	"	10000	-	6.3	450	1.4
4.8	590	1.05	286.7	"	"	10000	-	5.7	500	1.25
3.9	630	1.1	351.7	BG50G10-../D07LA4	54	10000	-	4.7	510	1.35
3.1	810	0.85	446.5	"	"	10000	-	3.7	660	1.05
4.9	465	2.8	276.2	BG60G20-../D07LA4	102	16000	-	5.9	365	3.6
4.5	500	2.6	306.1	"	"	16000	-	5.3	410	3.2
4.1	550	2.4	334.3	"	"	16000	-	4.9	440	3.0
3.7	610	2.1	370.5	"	"	16000	-	4.4	495	2.6
3.1	750	1.75	437.3	"	"	16000	-	3.8	580	2.2
2.7	910	1.45	504.9	"	"	16000	-	3.3	710	1.85
2.5	980	1.35	559.5	"	"	16000	-	2.9	820	1.6
2.1	1190	1.1	651.3	"	"	16000	-	2.5	980	1.35
1.7	1480	0.88	804.5	"	"	16000	-	2.1	1160	1.1
1.6	1560	0.83	891.5	"	"	16000	-	1.9	1280	1.0
2.8	870	2.9	495.9	BG70G20-../D07LA4	132	20000	-	3.3	720	3.5
2.4	1040	2.4	577.3	"	"	20000	-	2.9	840	3.0
2.1	1190	2.1	665.8	"	"	20000	-	2.5	970	2.6
1.8	1390	1.8	790.2	"	"	20000	-	2.1	1160	2.2
1.6	1580	1.6	877.6	"	"	20000	-	1.9	1300	1.9
1.4	1820	1.35	1035	"	"	20000	-	1.6	1570	1.6
1.2	2150	1.15	1193	"	"	20000	-	1.4	1810	1.4
1.0	2600	0.96	1389	"	"	20000	-	1.2	2100	1.2

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 0.37 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
520	6.7	1.35	2.64	BG05-../D07LA4	11	420	-	620	5.6	1.6
400	8.8	1.15	3.38	"	"	460	-	480	7.3	1.35
295	11.9	1.0	4.59	"	"	490	-	355	9.9	1.2
250	14.1	0.99	5.46	"	"	490	-	300	11.7	1.2
205	17.2	0.93	6.60	"	"	510	-	250	14.1	1.15
174	20	0.9	7.80	"	"	530	-	210	16.8	1.05
166	21	0.86	8.15	"	"	510	-	199	17.7	1.0
159	22	0.86	8.51	"	"	550	-	191	18.5	1.05
360	9.8	2.0	3.78	BG06-../D07LA4	12	520	-	430	8.2	2.4
300	11.7	1.9	4.54	"	"	530	-	360	9.8	2.2
230	15.3	1.55	5.96	"	"	570	-	275	12.8	1.9
193	18.3	1.4	7.01	"	"	580	-	235	15	1.75
161	21.5	1.3	8.39	"	"	600	-	194	18.2	1.55
144	24.5	1.2	9.38	"	"	640	-	173	20	1.5
132	26.5	1.15	10.24	"	"	640	-	159	22	1.4
120	29	1.1	11.28	"	"	670	-	144	24.5	1.3
110	32	1.05	12.30	"	"	670	-	132	26.5	1.25
105	33.5	0.99	12.98	"	"	600	-	125	28	1.2
92	38	0.89	14.78	"	"	730	-	110	32	1.05
84	42	0.83	16.13	"	"	740	-	101	34.5	1.0
78	45	0.84	17.40	"	"	760	-	94	37.5	1.0
72	49	0.82	18.98	"	"	770	-	86	41	0.98
103	34	3.2	13.21	BG10-../D07LA4	15	1070	1490	123	28.5	3.9
93	37.5	3.0	14.58	"	"	1100	1540	112	31.5	3.6
84	42	2.8	16.15	"	"	1140	1590	101	34.5	3.4
73	48	2.5	18.51	"	"	1210	1690	88	40	3.0
66	53	2.3	20.51	"	"	1290	1800	79	44.5	2.7
62	56	2.1	22.04	"	"	1330	1860	74	47.5	2.5
56	63	1.9	24.42	"	"	1410	1970	67	52	2.3
52	67	1.8	26.26	"	"	1460	2000	62	56	2.1
46.5	75	1.6	29.09	"	"	1540	2150	56	63	1.9
43	82	1.45	31.52	"	"	1600	2200	52	67	1.8
39	90	1.35	34.92	"	"	1690	2350	46.5	75	1.6
34.5	102	1.2	39.70	"	"	1780	2450	41	86	1.4
31	113	1.05	43.99	"	"	1880	2600	37	95	1.25
29.5	119	1.0	46.55	"	"	1920	2650	35	100	1.2
26.5	133	0.9	51.57	"	"	2000	2800	31.5	112	1.05
23.5	150	0.8	57.48	"	"	2000	2800	28.5	123	0.98
50	70	2.1	27.08	BG15-../D07LA4	15	3000	6000	60	58	2.6
45	78	1.9	30.08	"	"	3000	6000	54	65	2.3
39.5	89	1.7	34.20	"	"	3000	6000	47.5	74	2.0
36	98	1.55	37.90	"	"	3000	6000	43	82	1.85
53	66	3.0	25.79	BG20-../D07LA4	18	3700	-	63	56	3.6
48.5	72	2.8	27.85	"	"	3800	-	59	59	3.4
44	80	2.5	30.94	"	"	4000	-	53	66	3.0
41	86	2.3	33.33	"	"	4100	-	49	72	2.8
36.5	96	2.1	37.02	"	"	4300	-	44	80	2.5
32.5	108	1.85	41.76	"	"	4500	-	39	90	2.2
29.5	119	1.7	46.38	"	"	4700	-	35	100	2.0
28.5	123	1.65	47.92	"	"	4750	-	34	103	1.95
25.5	138	1.45	53.22	"	"	4950	-	30.5	115	1.75
23	153	1.3	59.07	"	"	5000	-	27.5	128	1.55
21	168	1.2	65.62	"	"	5000	-	25	141	1.4
20	176	1.15	67.53	BG20Z-../D07LA4	19	5000	-	24	147	1.35
17.5	200	1.0	78.60	"	"	5000	-	21	168	1.2
15.5	225	0.89	87.30	"	"	5000	-	19	185	1.1
14.5	240	0.83	94.27	"	"	5000	-	17.5	200	1.0
38.5	91	3.3	35.17	BG30-../D07LA4	22	5500	-	46.5	75	4.0
35	100	3.0	39.02	"	"	5800	-	42	84	3.6
32	110	2.7	42.46	"	"	5900	-	38.5	91	3.3



# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

**P = 0.37 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
29	121	2.5	47.11	<b>BG30-../D07LA4</b>	"	6000	-	34.5	102	2.9
26	135	2.2	52.44	"	"	6000	-	31	113	2.7
23.5	150	2.0	58.18	"	"	6000	-	28	126	2.4
22.5	157	1.9	60.79	"	"	6000	-	27	130	2.3
20.5	172	1.75	67.44	"	"	6000	-	24.5	144	2.1
18.5	191	1.55	73.51	<b>BG30Z-../D07LA4</b>	25	6000	-	22.5	157	1.9
17	205	1.45	81.55	"	"	6000	-	20	176	1.7
16	220	1.35	86.13	"	"	6000	-	19	185	1.6
14.5	240	1.25	95.55	"	"	6000	-	17	205	1.45
12.5	280	1.05	109.6	"	"	6000	-	15	235	1.3
11.5	305	0.98	121.6	"	"	6000	-	13.5	260	1.15
11	320	0.94	128.5	"	"	6000	-	13	270	1.1
9.5	370	0.81	142.5	"	"	6000	-	11.5	305	0.98
20	176	2.4	67.74	<b>BG40Z-../D07LA4</b>	40	7000	-	24	147	2.9
18	196	2.2	75.19	"	"	7000	-	22	160	2.7
16.5	210	2.0	82.00	"	"	7000	-	20	176	2.4
15	235	1.8	91.02	"	"	7000	-	18	196	2.2
14	250	1.7	96.86	"	"	7000	-	17	205	2.1
13	270	1.55	107.5	"	"	7000	-	15.5	225	1.9
11.5	305	1.4	121.3	"	"	7000	-	13.5	260	1.65
10.5	335	1.25	134.6	"	"	7000	-	12.5	280	1.5
9.6	365	1.15	141.4	"	"	7000	-	11.5	305	1.4
8.7	405	1.05	156.9	"	"	7000	-	10.5	335	1.25
8.2	430	0.99	166.1	"	"	7000	-	9.8	360	1.2
7.4	475	0.89	184.4	"	"	7000	-	8.8	400	1.05
6.8	510	0.83	199.9	"	"	7000	-	8.2	430	0.99
17	205	3.1	79.78	<b>BG50Z-../D07LA4</b>	50	10000	-	20.5	172	3.7
14.5	240	2.6	95.58	"	"	10000	-	17	205	3.1
13	270	2.3	106.0	"	"	10000	-	15.5	225	2.8
10.5	335	1.9	128.9	"	"	10000	-	13	270	2.3
9.5	370	1.7	142.9	"	"	10000	-	11.5	305	2.1
8.2	430	1.45	164.9	"	"	10000	-	9.9	355	1.75
7.4	475	1.35	182.8	"	"	10000	-	8.9	395	1.6
6.6	530	1.2	204.7	"	"	10000	-	8.0	440	1.45
6.0	580	1.1	226.9	"	"	10000	-	7.2	490	1.3
5.3	660	0.95	258.6	"	"	10000	-	6.3	560	1.15
4.8	730	0.86	286.7	"	"	10000	-	5.7	610	1.05
3.9	800	0.86	351.7	<b>BG50G10-../D07LA4</b>	54	10000	-	4.7	650	1.05
4.9	600	2.2	276.2	<b>BG60G20-../D07LA4</b>	102	16000	-	5.9	480	2.7
4.5	650	2.0	306.1	"	"	16000	-	5.3	530	2.5
4.1	720	1.8	334.3	"	"	16000	-	4.9	580	2.2
3.7	790	1.65	370.5	"	"	16000	-	4.4	640	2.0
3.1	970	1.35	437.3	"	"	16000	-	3.8	760	1.7
2.7	1160	1.1	504.9	"	"	16000	-	3.3	920	1.4
2.5	1240	1.05	559.5	"	"	16000	-	2.9	1050	1.25
2.1	1510	0.86	651.3	"	"	16000	-	2.5	1240	1.05
3.5	860	2.9	387.6	<b>BG70G20-../D07LA4</b>	132	20000	-	4.2	690	3.6
3.3	940	2.7	417.8	"	"	20000	-	3.9	780	3.2
2.8	1110	2.3	495.9	"	"	20000	-	3.3	920	2.7
2.4	1320	1.9	577.3	"	"	20000	-	2.9	1070	2.3
2.1	1510	1.65	665.8	"	"	20000	-	2.5	1240	2.0
1.8	1760	1.4	790.2	"	"	20000	-	2.1	1480	1.7
1.6	2000	1.25	877.6	"	"	20000	-	1.9	1650	1.5
1.4	2300	1.1	1035	"	"	20000	-	1.6	1980	1.25
1.2	2700	0.93	1193	"	"	20000	-	1.4	2250	1.1

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 0.55 kW

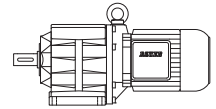


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
500	10.5	1.7	2.82	<b>BG06-../D08MA4</b>	16	470	-	600	8.7	2.1
375	14	1.45	3.78	"	"	520	-	445	11.8	1.7
310	16.9	1.3	4.54	"	"	530	-	375	14	1.55
235	22	1.1	5.96	"	"	570	-	285	18.4	1.3
200	26	1.0	7.01	"	"	580	-	240	21.5	1.2
167	31	0.9	8.39	"	"	600	-	205	25.5	1.1
150	35	0.86	9.38	"	"	640	-	180	29	1.05
137	38	0.82	10.24	"	"	640	-	165	31.5	0.98
210	25	3.2	6.78	<b>BG10-../D08MA4</b>	16	660	920	250	21	3.9
174	30	2.9	8.07	"	"	660	920	210	25	3.5
151	34.5	2.8	9.33	"	"	950	1330	181	29	3.3
136	38.5	2.6	10.34	"	"	1000	1400	163	32	3.1
118	44.5	2.4	11.92	"	"	1030	1440	141	37	2.8
106	49.5	2.2	13.21	"	"	1070	1490	128	41	2.7
97	54	2.1	14.58	"	"	1100	1540	116	45	2.5
87	60	1.95	16.15	"	"	1140	1590	105	50	2.3
76	69	1.75	18.51	"	"	1210	1690	91	57	2.1
69	76	1.6	20.51	"	"	1290	1800	82	64	1.9
64	82	1.45	22.04	"	"	1330	1860	77	68	1.75
58	90	1.35	24.42	"	"	1410	1970	69	76	1.6
54	97	1.25	26.26	"	"	1460	2000	64	82	1.45
48.5	108	1.1	29.09	"	"	1540	2150	58	90	1.35
44.5	118	1.0	31.52	"	"	1600	2200	54	97	1.25
40.5	129	0.93	34.92	"	"	1690	2350	48.5	108	1.1
35.5	147	0.82	39.70	"	"	1780	2450	42.5	123	0.98
52	101	1.5	27.08	<b>BG15-../D08MA4</b>	16	3000	6000	63	83	1.8
47	111	1.35	30.08	"	"	3000	6000	56	93	1.6
41	128	1.15	34.20	"	"	3000	6000	49.5	106	1.4
37	141	1.05	37.90	"	"	3000	6000	44.5	118	1.25
96	54	3.2	14.67	<b>BG20-../D08MA4</b>	19	3050	-	115	45.5	3.8
90	58	3.1	15.58	"	"	3100	-	108	48.5	3.6
81	64	2.9	17.31	"	"	3200	-	98	53	3.5
71	73	2.7	19.95	"	"	3350	-	85	61	3.2
64	82	2.4	22.16	"	"	3500	-	76	69	2.9
61	86	2.3	23.22	"	"	3550	-	73	71	2.8
55	95	2.1	25.79	"	"	3700	-	66	79	2.5
51	102	1.95	27.85	"	"	3800	-	61	86	2.3
45.5	115	1.75	30.94	"	"	4000	-	55	95	2.1
42.5	123	1.65	33.33	"	"	4100	-	51	102	1.95
38	138	1.45	37.02	"	"	4300	-	45.5	115	1.75
34	154	1.3	41.76	"	"	4500	-	40.5	129	1.55
30.5	172	1.15	46.38	"	"	4700	-	36.5	143	1.4
29.5	178	1.1	47.92	"	"	4750	-	35.5	147	1.35
26.5	198	1.0	53.22	"	"	4950	-	32	164	1.2
24	215	0.93	59.07	"	"	5000	-	28.5	184	1.1
21.5	240	0.83	65.62	"	"	5000	-	26	200	1.0
21	250	0.8	67.53	<b>BG20Z-../D08MA4</b>	20	5000	-	25	210	0.95
56	93	3.2	25.45	<b>BG30-../D08MA4</b>	23	4850	-	67	78	3.8
50	105	2.9	28.24	"	"	5100	-	60	87	3.4
47	111	2.7	29.83	"	"	5200	-	57	92	3.3
42.5	123	2.4	33.09	"	"	5400	-	51	102	2.9
40	131	2.3	35.17	"	"	5500	-	48	109	2.8
36	145	2.1	39.02	"	"	5800	-	43.5	120	2.5
33	159	1.9	42.46	"	"	5900	-	40	131	2.3
30	175	1.7	47.11	"	"	6000	-	36	145	2.1
27	194	1.55	52.44	"	"	6000	-	32.5	161	1.85
24.5	210	1.45	58.18	"	"	6000	-	29	181	1.65
23.5	220	1.35	60.79	"	"	6000	-	28	187	1.6
21	250	1.2	67.44	"	"	6000	-	25	210	1.45
19.5	265	1.15	73.51	<b>BG30Z-../D08MA4</b>	26	6000	-	23	225	1.35
17.5	300	1.0	81.55	"	"	6000	-	21	250	1.2
16.5	315	0.95	86.13	"	"	6000	-	20	260	1.15
15	350	0.86	95.55	"	"	6000	-	18	290	1.05

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 0.55 kW

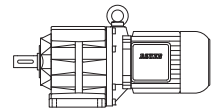


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
41	128	3.3	34.20	BG40-../D08MA4	38	7000	-	49.5	106	4.0
37	141	3.0	37.96	"	"	7000	-	44.5	118	3.6
35	150	2.8	40.19	"	"	7000	-	42	125	3.4
31.5	166	2.6	44.62	"	"	7000	-	38	138	3.1
29	181	2.3	48.36	"	"	7000	-	35	150	2.8
26.5	198	2.1	53.69	"	"	7000	-	31.5	166	2.6
23.5	220	1.95	59.64	"	"	7000	-	28.5	184	2.3
21.5	240	1.75	66.20	"	"	7000	-	25.5	205	2.1
21	250	1.7	67.74	BG40Z-../D08MA4	42	7000	-	25	210	2.0
19	275	1.55	75.19	"	"	7000	-	22.5	230	1.85
17.5	300	1.4	82.00	"	"	7000	-	20.5	255	1.65
15.5	335	1.25	91.02	"	"	7000	-	18.5	280	1.5
14.5	360	1.2	96.86	"	"	7000	-	17.5	300	1.4
13.5	385	1.1	107.5	"	"	7000	-	16	325	1.3
12	435	0.98	121.3	"	"	7000	-	14	375	1.15
10.5	500	0.85	134.6	"	"	7000	-	12.5	420	1.0
10	520	0.82	141.4	"	"	7000	-	12	435	0.98
27	194	3.2	52.12	BG50-../D08MA4	46	10000	-	32.5	161	3.9
24	215	2.9	59.42	"	"	10000	-	28.5	184	3.4
21.5	240	2.6	65.86	"	"	10000	-	26	200	3.2
19.5	265	2.4	71.97	BG50Z-../D08MA4	51	10000	-	23.5	220	2.9
18	290	2.2	79.78	"	"	10000	-	21.5	240	2.6
15	350	1.8	95.58	"	"	10000	-	18	290	2.2
13.5	385	1.65	106.0	"	"	10000	-	16	325	1.95
11	475	1.35	128.9	"	"	10000	-	13.5	385	1.65
9.8	530	1.2	142.9	"	"	10000	-	12	435	1.45
8.5	610	1.05	164.9	"	"	10000	-	10.5	500	1.25
7.7	680	0.93	182.8	"	"	10000	-	9.2	570	1.1
6.9	760	0.83	204.7	"	"	10000	-	8.3	630	1.0
14	375	3.2	101.0	BG60Z-../D08MA4	96	16000	-	17	305	3.9
12	435	2.8	119.2	"	"	16000	-	14.5	360	3.3
11	475	2.5	132.1	"	"	16000	-	13	400	3.0
8.9	590	2.0	158.0	"	"	16000	-	11	475	2.5
8.0	650	1.85	175.1	"	"	16000	-	9.6	540	2.2
6.9	760	1.6	204.6	"	"	16000	-	8.3	630	1.9
6.2	840	1.45	226.7	"	"	16000	-	7.5	700	1.7
5.7	920	1.3	247.7	"	"	16000	-	6.8	770	1.55
5.2	1010	1.2	274.5	"	"	16000	-	6.2	840	1.45
5.1	910	1.45	276.2	BG60G20-../D08MA4	103	16000	-	6.1	740	1.75
4.6	1010	1.3	306.1	"	"	16000	-	5.5	820	1.6
4.2	1110	1.15	334.3	"	"	16000	-	5.1	880	1.5
3.8	1220	1.05	370.5	"	"	16000	-	4.6	980	1.35
3.3	1420	0.92	437.3	"	"	16000	-	3.9	1180	1.1
7.3	710	3.2	194.4	BG70Z-../D08MA4	136	20000	-	8.7	600	3.8
6.7	780	2.9	210.5	"	"	20000	-	8.0	650	3.5
5.7	920	2.5	249.8	"	"	20000	-	6.8	770	3.0
5.5	840	3.0	255.5	BG70G20-../D08MA4	133	20000	-	6.6	680	3.7
5.1	910	2.7	276.7	"	"	20000	-	6.1	740	3.4
4.3	1080	2.3	328.4	"	"	20000	-	5.2	870	2.9
3.7	1270	1.95	387.6	"	"	20000	-	4.4	1040	2.4
3.4	1420	1.75	417.8	"	"	20000	-	4.1	1150	2.2
2.9	1660	1.5	495.9	"	"	20000	-	3.4	1390	1.8
2.5	1950	1.3	577.3	"	"	20000	-	3.0	1600	1.55
2.2	2200	1.15	665.8	"	"	20000	-	2.6	1850	1.35
1.8	2700	0.93	790.2	"	"	20000	-	2.2	2150	1.15
1.6	3050	0.82	877.6	"	"	20000	-	2.0	2400	1.05
2.9	1430	3.2	484.3	BG80G40-../D08MA4	215	26000	-	3.5	1120	4.1
2.5	1720	2.7	572.0	"	"	26000	-	3.0	1370	3.4
2.2	1900	2.4	657.8	"	"	26000	-	2.6	1540	3.0
2.0	2100	2.2	730.3	"	"	26000	-	2.4	1690	2.7
1.8	2350	1.95	817.4	"	"	26000	-	2.1	1970	2.3
1.6	2700	1.7	907.6	"	"	26000	-	1.9	2200	2.1

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 0.55 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
1.4	3200	1.45	1042	BG80G40-../D08MA4	"	26000	-	1.7	2500	1.85
1.2	3800	1.2	1261	"	"	26000	-	1.4	3200	1.45
1.0	4700	0.98	1400	"	"	26000	-	1.2	3800	1.2
1.2	3700	2.5	1174	BG90G50-../D08MA4	324	65000	-	1.5	2800	3.3
1.1	4100	2.2	1301	"	"	65000	-	1.3	3350	2.7
0.9	5100	1.8	1583	"	"	65000	-	1.1	4100	2.2
0.8	5800	1.6	1756	"	"	65000	-	1.0	4550	2.0
0.7	6800	1.35	2026	"	"	65000	-	0.85	5500	1.65
0.6	8000	1.15	2514	"	"	65000	-	0.7	6800	1.35
0.55	8800	1.05	2786	"	"	65000	-	0.65	7400	1.25
0.65	6000	3.1	2154	BG100G50-../D08MA4	512	90000	-	0.8	4500	4.1
0.55	7100	2.6	2656	"	"	90000	-	0.65	5700	3.2
0.48	8600	2.2	2952	"	"	90000	-	0.6	6500	2.8
0.43	9700	1.9	3286	"	"	90000	-	0.55	7000	2.6
0.39	10900	1.7	3644	"	"	90000	-	0.47	8600	2.2
0.33	13400	1.4	4366	"	"	90000	-	0.39	10900	1.7
0.29	15600	1.2	4839	"	"	90000	-	0.35	12500	1.5

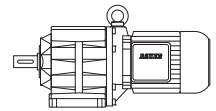
P = 0.75 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
510	14	1.3	2.82	BG06-../DHE08XA4	19	470	-	610	11.7	1.55
380	18.8	1.05	3.78	"	"	520	-	455	15.7	1.25
315	22.5	0.98	4.54	"	"	530	-	380	18.8	1.15
240	29.5	0.81	5.96	"	"	570	-	290	24.5	0.98
330	21.5	3.2	4.36	BG10-../DHE08XA4	19	650	910	395	18.1	3.8
270	26.5	2.8	5.34	"	"	620	910	325	22	3.4
210	34	2.4	6.78	"	"	660	920	255	28	2.9
176	40.5	2.2	8.07	"	"	660	920	215	33	2.7
153	46.5	2.1	9.33	"	"	950	1330	184	38.5	2.5
138	51	1.95	10.34	"	"	1000	1400	166	43	2.3
120	59	1.8	11.92	"	"	1030	1440	144	49.5	2.1
108	66	1.65	13.21	"	"	1070	1490	130	55	2.0
98	73	1.55	14.58	"	"	1100	1540	118	60	1.9
88	81	1.45	16.15	"	"	1140	1590	106	67	1.75
77	93	1.3	18.51	"	"	1210	1690	93	77	1.55
70	102	1.2	20.51	"	"	1290	1800	84	85	1.4
65	110	1.1	22.04	"	"	1330	1860	78	91	1.3
59	121	0.99	24.42	"	"	1410	1970	71	100	1.2
55	130	0.92	26.26	"	"	1460	2000	66	108	1.1
49	146	0.82	29.09	"	"	1540	2150	59	121	0.99
53	135	1.1	27.08	BG15-../DHE08XA4	19	3000	6000	64	111	1.35
47.5	150	1.0	30.08	"	"	3000	6000	57	125	1.2
42	170	0.88	34.20	"	"	3000	6000	50	143	1.05
172	41.5	2.9	8.29	BG20-../DHE08XA4	22	2250	-	210	34	3.6
160	44.5	3.2	8.91	"	"	2600	-	192	37	3.9
148	48	2.5	9.65	"	"	2250	-	178	40	3.1
135	53	2.9	10.54	"	"	2700	-	163	43.5	3.5
122	58	2.7	11.71	"	"	2800	-	147	48.5	3.3
108	66	2.5	13.21	"	"	2900	-	130	55	3.0
97	73	2.4	14.67	"	"	3050	-	117	61	2.8
92	77	2.3	15.58	"	"	3100	-	110	65	2.7
83	86	2.1	17.31	"	"	3200	-	99	72	2.5
72	99	1.95	19.95	"	"	3350	-	86	83	2.3
65	110	1.8	22.16	"	"	3500	-	78	91	2.2
62	115	1.75	23.22	"	"	3550	-	74	96	2.1
56	127	1.55	25.79	"	"	3700	-	67	106	1.9
51	140	1.45	27.85	"	"	3800	-	62	115	1.75
46	155	1.3	30.94	"	"	4000	-	56	127	1.55

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 0.75 kW

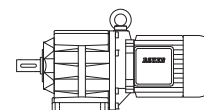


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
43	166	1.2	33.33	<b>BG20-../DHE08XA4</b>	"	4100	-	52	137	1.45
38.5	186	1.1	37.02	"	"	4300	-	46.5	154	1.3
34.5	205	0.98	41.76	"	"	4500	-	41	174	1.15
31	230	0.87	46.38	"	"	4700	-	37	193	1.05
30	235	0.85	47.92	"	"	4750	-	36	198	1.0
76	94	3.2	18.93	<b>BG30-../DHE08XA4</b>	26	4100	-	91	78	3.8
72	99	3.0	19.99	"	"	4200	-	86	83	3.6
65	110	2.7	22.18	"	"	4600	-	78	91	3.3
56	127	2.4	25.45	"	"	4850	-	68	105	2.9
51	140	2.1	28.24	"	"	5100	-	61	117	2.6
48	149	2.0	29.83	"	"	5200	-	58	123	2.4
43	166	1.8	33.09	"	"	5400	-	52	137	2.2
40.5	176	1.7	35.17	"	"	5500	-	49	146	2.1
36.5	196	1.55	39.02	"	"	5800	-	44	162	1.85
33.5	210	1.45	42.46	"	"	5900	-	40.5	176	1.7
30.5	230	1.3	47.11	"	"	6000	-	36.5	196	1.55
27.5	260	1.15	52.44	"	"	6000	-	33	215	1.4
24.5	290	1.05	58.18	"	"	6000	-	29.5	240	1.25
23.5	300	1.0	60.79	"	"	6000	-	28.5	250	1.2
21.5	330	0.91	67.44	"	"	6000	-	25.5	280	1.05
19.5	365	0.82	73.51	<b>BG30Z-../DHE08XA4</b>	28	6000	-	23.5	300	1.0
55	130	3.3	26.01	<b>BG40-../DHE08XA4</b>	41	6500	-	66	108	3.9
48.5	147	2.9	29.34	"	"	6800	-	59	121	3.5
44	162	2.6	32.57	"	"	7000	-	53	135	3.1
42	170	2.5	34.20	"	"	7000	-	50	143	3.0
37.5	191	2.2	37.96	"	"	7000	-	45.5	157	2.7
35.5	200	2.1	40.19	"	"	7000	-	43	166	2.6
32	220	1.95	44.62	"	"	7000	-	38.5	186	2.3
29.5	240	1.75	48.36	"	"	7000	-	35.5	200	2.1
26.5	270	1.55	53.69	"	"	7000	-	32	220	1.95
24	295	1.45	59.64	"	"	7000	-	29	245	1.75
21.5	330	1.3	66.20	"	"	7000	-	26	275	1.55
21	340	1.25	67.74	<b>BG40Z-../DHE08XA4</b>	44	7000	-	25.5	280	1.5
19	375	1.15	75.19	"	"	7000	-	23	310	1.35
17.5	405	1.05	82.00	"	"	7000	-	21	340	1.25
16	445	0.96	91.02	"	"	7000	-	19	375	1.15
15	475	0.89	96.86	"	"	7000	-	18	395	1.1
13.5	530	0.8	107.5	"	"	7000	-	16	445	0.96
37.5	191	3.3	37.89	<b>BG50-../DHE08XA4</b>	48	10000	-	45.5	157	4.0
34	210	3.0	42.00	"	"	10000	-	41	174	3.6
30.5	230	2.7	47.02	"	"	10000	-	36.5	196	3.2
27.5	260	2.4	52.12	"	"	10000	-	33	215	2.9
24	295	2.1	59.42	"	"	10000	-	29	245	2.6
22	325	1.95	65.86	"	"	10000	-	26	275	2.3
20	355	1.75	71.97	<b>BG50Z-../DHE08XA4</b>	53	10000	-	24	295	2.1
18	395	1.6	79.78	"	"	10000	-	21.5	330	1.9
15	475	1.35	95.58	"	"	10000	-	18	395	1.6
13.5	530	1.2	106.0	"	"	10000	-	16.5	430	1.45
11.5	620	1.0	128.9	"	"	10000	-	13.5	530	1.2
10	710	0.89	142.9	"	"	10000	-	12	590	1.05
19	375	3.2	75.71	<b>BG60Z-../DHE08XA4</b>	98	16000	-	23	310	3.9
16	445	2.7	91.09	"	"	16000	-	19	375	3.2
14.5	490	2.4	101.0	"	"	16000	-	17	420	2.9
12	590	2.0	119.2	"	"	16000	-	14.5	490	2.4
11	650	1.85	132.1	"	"	16000	-	13	550	2.2
9.0	790	1.5	158.0	"	"	16000	-	11	650	1.85
8.2	870	1.4	175.1	"	"	16000	-	9.8	730	1.65
7.0	1020	1.2	204.6	"	"	16000	-	8.4	850	1.4
6.3	1130	1.05	226.7	"	"	16000	-	7.6	940	1.3
5.8	1230	0.98	247.7	"	"	16000	-	7.0	1020	1.2
5.2	1370	0.88	274.5	"	"	16000	-	6.3	1130	1.05
4.7	1390	0.94	306.1	<b>BG60G20-../DHE08XA4</b>	106	16000	-	5.6	1150	1.15
4.3	1520	0.86	334.3	"	"	16000	-	5.2	1230	1.05

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 0.75 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.7	730	3.2	147.2	BG70Z-../DHE08XA4	138	20000	-	12	590	3.9
8.7	820	2.8	163.8	"	"	20000	-	10.5	680	3.4
7.4	960	2.4	194.4	"	"	20000	-	8.8	810	2.8
6.8	1050	2.2	210.5	"	"	20000	-	8.2	870	2.6
5.7	1250	1.85	249.8	"	"	20000	-	6.9	1030	2.2
5.6	1170	2.1	255.5	BG70G20-../DHE08XA4	136	20000	-	6.7	960	2.6
5.2	1260	2.0	276.7	"	"	20000	-	6.2	1030	2.4
4.4	1490	1.7	328.4	"	"	20000	-	5.3	1210	2.1
3.7	1780	1.4	387.6	"	"	20000	-	4.5	1440	1.75
3.4	1980	1.25	417.8	"	"	20000	-	4.1	1620	1.55
2.9	2300	1.1	495.9	"	"	20000	-	3.5	1900	1.3
2.5	2700	0.93	577.3	"	"	20000	-	3.0	2200	1.15
2.2	3050	0.82	665.8	"	"	20000	-	2.6	2550	0.98
4.0	1450	3.2	360.0	BG80G40-../DHE08XA4	217	26000	-	4.8	1150	4.0
3.6	1610	2.9	399.8	"	"	26000	-	4.3	1290	3.6
3.3	1830	2.5	436.2	"	"	26000	-	4.0	1450	3.2
3.0	2000	2.3	484.3	"	"	26000	-	3.6	1610	2.9
2.5	2450	1.9	572.0	"	"	26000	-	3.0	2000	2.3
2.2	2750	1.65	657.8	"	"	26000	-	2.6	2250	2.0
2.0	3050	1.5	730.3	"	"	26000	-	2.4	2450	1.9
1.8	3450	1.35	817.4	"	"	26000	-	2.1	2850	1.6
1.6	3900	1.2	907.6	"	"	26000	-	1.9	3200	1.45
1.4	4550	1.0	1042	"	"	26000	-	1.7	3650	1.25
1.2	5400	0.85	1261	"	"	26000	-	1.4	4550	1.0
2.0	2900	3.2	714.2	BG90G50-../DHE08XA4	327	65000	-	2.4	2300	4.0
1.7	3500	2.6	883.7	"	"	65000	-	2.0	2900	3.2
1.3	4800	1.9	1174	"	"	65000	-	1.5	4100	2.2
1.1	5800	1.6	1301	"	"	65000	-	1.4	4400	2.1
0.9	7200	1.3	1583	"	"	65000	-	1.1	5800	1.6
0.85	7700	1.2	1756	"	"	65000	-	1.0	6400	1.45
0.75	8800	1.05	2026	"	"	65000	-	0.85	7700	1.2
1.0	5700	3.2	1444	BG100G50-../DHE08XA4	514	90000	-	1.2	4550	4.1
0.85	6800	2.7	1678	"	"	90000	-	1.1	4900	3.8
0.8	7100	2.6	1867	"	"	90000	-	0.95	5700	3.2
0.7	8100	2.3	2154	"	"	90000	-	0.8	6800	2.7
0.55	10600	1.75	2656	"	"	90000	-	0.65	8600	2.2
0.49	12300	1.5	2952	"	"	90000	-	0.6	9600	1.95
0.44	13700	1.35	3286	"	"	90000	-	0.55	10500	1.75
0.39	15800	1.15	3644	"	"	90000	-	0.47	12700	1.45

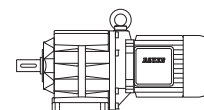
P = 1.1 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
580	18.1	3.1	2.52	BG10-../DHE09LA4	26	560	790	700	15	3.7
425	24.5	2.5	3.42	"	"	630	880	510	20.5	3.0
335	31	2.2	4.36	"	"	650	910	400	26	2.6
270	38.5	1.95	5.34	"	"	620	910	330	31.5	2.4
215	48.5	1.65	6.78	"	"	660	920	260	40	2.0
179	58	1.5	8.07	"	"	660	920	220	47.5	1.85
155	67	1.45	9.33	"	"	950	1330	187	56	1.75
140	75	1.3	10.34	"	"	1000	1400	169	62	1.6
121	86	1.2	11.92	"	"	1030	1440	146	71	1.5
110	95	1.15	13.21	"	"	1070	1490	132	79	1.4
99	106	1.1	14.58	"	"	1100	1540	120	87	1.3
90	116	1.0	16.15	"	"	1140	1590	108	97	1.2
78	134	0.9	18.51	"	"	1210	1690	95	110	1.1
71	147	0.82	20.51	"	"	1290	1800	85	123	0.98

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 1.1 kW

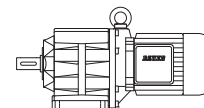


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
330	31.5	3.3	4.38	BG20-../DHE09LA4	28	1990	-	400	26	4.0
265	39.5	2.9	5.49	"	"	2100	-	320	32.5	3.5
225	46.5	2.6	6.48	"	"	2250	-	270	38.5	3.2
180	58	2.4	8.02	"	"	2500	-	220	47.5	2.9
174	60	2.0	8.29	"	"	2250	-	210	50	2.4
162	64	2.2	8.91	"	"	2600	-	196	53	2.7
150	70	1.75	9.65	"	"	2250	-	181	58	2.1
137	76	2.0	10.54	"	"	2700	-	166	63	2.4
123	85	1.85	11.71	"	"	2800	-	149	70	2.3
110	95	1.75	13.21	"	"	2900	-	132	79	2.1
99	106	1.6	14.67	"	"	3050	-	119	88	1.95
93	112	1.6	15.58	"	"	3100	-	112	93	1.9
84	125	1.45	17.31	"	"	3200	-	101	104	1.75
73	143	1.35	19.95	"	"	3350	-	88	119	1.65
65	161	1.25	22.16	"	"	3500	-	79	132	1.5
63	166	1.2	23.22	"	"	3550	-	75	140	1.45
56	187	1.05	25.79	"	"	3700	-	68	154	1.3
52	200	1.0	27.85	"	"	3800	-	63	166	1.2
47	220	0.91	30.94	"	"	4000	-	57	184	1.1
43.5	240	0.83	33.33	"	"	4100	-	53	198	1.0
122	86	3.2	11.82	BG30-../DHE09LA4	33	3200	-	148	70	3.9
105	100	2.9	13.77	"	"	3150	-	127	82	3.6
95	110	2.7	15.27	"	"	3450	-	114	92	3.3
85	123	2.4	17.06	"	"	3700	-	102	102	2.9
77	136	2.2	18.93	"	"	4100	-	92	114	2.6
73	143	2.1	19.99	"	"	4200	-	88	119	2.5
65	161	1.85	22.18	"	"	4600	-	79	132	2.3
57	184	1.65	25.45	"	"	4850	-	69	152	1.95
51	205	1.45	28.24	"	"	5100	-	62	169	1.8
48.5	215	1.4	29.83	"	"	5200	-	59	178	1.7
44	235	1.3	33.09	"	"	5400	-	53	198	1.5
41	255	1.2	35.17	"	"	5500	-	49.5	210	1.45
37	280	1.05	39.02	"	"	5800	-	45	230	1.3
34	305	0.98	42.46	"	"	5900	-	41	255	1.2
31	335	0.9	47.11	"	"	6000	-	37	280	1.05
80	131	3.2	18.19	BG40-../DHE09LA4	47	5600	-	96	109	3.9
73	143	3.0	19.84	"	"	5800	-	88	119	3.6
66	159	2.7	22.02	"	"	6000	-	80	131	3.2
62	169	2.5	23.43	"	"	6200	-	75	140	3.0
56	187	2.3	26.01	"	"	6500	-	67	156	2.7
49.5	210	2.0	29.34	"	"	6800	-	60	175	2.4
44.5	235	1.8	32.57	"	"	7000	-	54	194	2.2
42.5	245	1.75	34.20	"	"	7000	-	51	205	2.1
38	275	1.55	37.96	"	"	7000	-	46	225	1.9
36	290	1.45	40.19	"	"	7000	-	43.5	240	1.75
32.5	320	1.35	44.62	"	"	7000	-	39	265	1.6
30	350	1.2	48.36	"	"	7000	-	36	290	1.45
27	385	1.1	53.69	"	"	7000	-	32.5	320	1.35
24.5	425	1.0	59.64	"	"	7000	-	29.5	355	1.2
22	475	0.89	66.20	"	"	7000	-	26.5	395	1.1
21.5	485	0.88	67.74	BG40Z-../DHE09LA4	51	7000	-	26	400	1.05
19.5	530	0.8	75.19	"	"	7000	-	23.5	445	0.96
49	210	3.0	29.62	BG50-../DHE09LA4	55	8000	-	59	178	3.5
44	235	2.7	32.84	"	"	8700	-	53	198	3.2
38.5	270	2.3	37.89	"	"	10000	-	46	225	2.8
34.5	300	2.1	42.00	"	"	10000	-	41.5	250	2.5
31	335	1.9	47.02	"	"	10000	-	37.5	280	2.3
28	375	1.7	52.12	"	"	10000	-	33.5	310	2.0
24.5	425	1.5	59.42	"	"	10000	-	29.5	355	1.75
22	475	1.35	65.86	"	"	10000	-	26.5	395	1.6
20.5	510	1.25	71.97	BG50Z-../DHE09LA4	60	10000	-	24.5	425	1.5
18.5	560	1.15	79.78	"	"	10000	-	22	475	1.35
15.5	670	0.94	95.58	"	"	10000	-	18.5	560	1.15
14	750	0.84	106.0	"	"	10000	-	16.5	630	1.0

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 1.1 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
29	360	3.3	50.31	BG60-../DHE09LA4	86	16000	-	35	300	4.0
26	400	3.0	55.76	"	"	16000	-	31.5	330	3.6
24	435	2.8	60.90	"	"	16000	-	29	360	3.3
21.5	485	2.5	67.49	"	"	16000	-	26	400	3.0
19.5	530	2.3	75.71	BG60Z-../DHE09LA4	105	16000	-	23	455	2.6
16	650	1.85	91.09	"	"	16000	-	19.5	530	2.3
14.5	720	1.65	101.0	"	"	16000	-	17.5	600	2.0
12.5	840	1.45	119.2	"	"	16000	-	15	700	1.7
11	950	1.25	132.1	"	"	16000	-	13.5	770	1.55
9.2	1140	1.05	158.0	"	"	16000	-	11.5	910	1.3
8.3	1260	0.95	175.1	"	"	16000	-	10	1050	1.15
7.1	1470	0.82	204.6	"	"	16000	-	8.6	1220	0.98
13	800	2.9	113.6	BG70Z-../DHE09LA4	145	20000	-	15.5	670	3.4
12	870	2.6	124.0	"	"	20000	-	14.5	720	3.2
9.8	1070	2.1	147.2	"	"	20000	-	12	870	2.6
8.8	1190	1.95	163.8	"	"	20000	-	11	950	2.4
7.5	1400	1.65	194.4	"	"	20000	-	9.0	1160	2.0
6.9	1520	1.5	210.5	"	"	20000	-	8.3	1260	1.85
5.8	1810	1.25	249.8	"	"	20000	-	7.0	1500	1.55
5.7	1730	1.45	255.5	BG70G20-../DHE09LA4	142	20000	-	6.9	1410	1.75
5.3	1860	1.35	276.7	"	"	20000	-	6.3	1550	1.6
4.4	2200	1.15	328.4	"	"	20000	-	5.3	1840	1.35
3.8	2600	0.96	387.6	"	"	20000	-	4.5	2150	1.15
3.5	2850	0.88	417.8	"	"	20000	-	4.2	2350	1.05
7.8	1340	3.1	186.8	BG80Z-../DHE09LA4	213	26000	-	9.4	1110	3.8
7.0	1500	2.8	207.4	"	"	26000	-	8.4	1250	3.4
5.8	1500	3.1	252.3	BG80G40-../DHE09LA4	224	26000	-	6.9	1210	3.8
5.1	1750	2.6	282.8	"	"	26000	-	6.2	1380	3.3
4.6	1940	2.4	314.0	"	"	26000	-	5.6	1530	3.0
4.0	2250	2.0	360.0	"	"	26000	-	4.9	1800	2.6
3.7	2450	1.9	399.8	"	"	26000	-	4.4	2000	2.3
3.4	2750	1.65	436.2	"	"	26000	-	4.0	2250	2.0
3.0	3100	1.5	484.3	"	"	26000	-	3.6	2500	1.85
2.6	3650	1.25	572.0	"	"	26000	-	3.1	3000	1.55
2.2	4250	1.1	657.8	"	"	26000	-	2.7	3400	1.35
2.0	4750	0.97	730.3	"	"	26000	-	2.4	3850	1.2
1.8	5300	0.87	817.4	"	"	26000	-	2.2	4250	1.1
2.9	3100	3.0	504.7	BG90G50-../DHE09LA4	334	65000	-	3.5	2500	3.7
2.5	3600	2.6	588.8	"	"	65000	-	3.0	2900	3.2
2.3	3950	2.3	644.7	"	"	65000	-	2.7	3250	2.8
2.1	4350	2.1	714.2	"	"	65000	-	2.5	3550	2.6
1.7	5500	1.65	883.7	"	"	65000	-	2.0	4550	2.0
1.3	7400	1.25	1174	"	"	65000	-	1.5	6300	1.45
1.2	8000	1.15	1301	"	"	65000	-	1.4	6800	1.35
1.8	5800	3.2	845.1	BG100Z-../DHE09LA4	522	90000	-	2.1	5000	3.7
1.4	6100	3.0	1043	BG100G50-../DHE09LA4	521	90000	-	1.7	4750	3.9
1.2	7100	2.6	1204	"	"	90000	-	1.5	5300	3.5
1.0	9100	2.0	1444	"	"	90000	-	1.3	6700	2.8
0.9	10000	1.85	1678	"	"	90000	-	1.1	7900	2.3
0.8	11300	1.65	1867	"	"	90000	-	0.95	9200	2.0
0.7	12900	1.45	2154	"	"	90000	-	0.85	10300	1.8
0.55	16700	1.1	2656	"	"	90000	-	0.7	12600	1.45

P = 1.5 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
580	24.5	2.3	2.52	BG10-../DHE09XA4	30	560	790	700	20	2.8
425	33.5	1.85	3.42	"	"	630	880	510	28	2.2
335	42.5	1.6	4.36	"	"	650	910	400	35.5	1.9



# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 1.5 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
270	53	1.4	5.34	<b>BG10-../DHE09XA4</b>	"	620	910	330	43	1.75
215	66	1.25	6.78	"	"	660	920	260	55	1.45
179	80	1.1	8.07	"	"	660	920	220	65	1.35
155	92	1.05	9.33	"	"	950	1330	187	76	1.3
140	102	0.97	10.34	"	"	1000	1400	169	84	1.2
121	118	0.89	11.92	"	"	1030	1440	146	98	1.05
110	130	0.85	13.21	"	"	1070	1490	132	108	1.0
435	32.5	2.8	3.33	<b>BG20-../DHE09XA4</b>	32	1830	-	530	27	3.4
330	43	2.4	4.38	"	"	1990	-	400	35.5	2.9
265	54	2.1	5.49	"	"	2100	-	320	44.5	2.6
225	63	1.95	6.48	"	"	2250	-	270	53	2.3
180	79	1.75	8.02	"	"	2500	-	220	65	2.1
174	82	1.5	8.29	"	"	2250	-	210	68	1.8
162	88	1.65	8.91	"	"	2600	-	196	73	1.95
150	95	1.3	9.65	"	"	2250	-	181	79	1.55
137	104	1.5	10.54	"	"	2700	-	166	86	1.8
123	116	1.35	11.71	"	"	2800	-	149	96	1.65
110	130	1.3	13.21	"	"	2900	-	132	108	1.55
99	144	1.2	14.67	"	"	3050	-	119	120	1.45
93	154	1.15	15.58	"	"	3100	-	112	127	1.4
84	170	1.1	17.31	"	"	3200	-	101	141	1.3
73	196	0.99	19.95	"	"	3350	-	88	162	1.2
65	220	0.91	22.16	"	"	3500	-	79	181	1.1
63	225	0.89	23.22	"	"	3550	-	75	191	1.05
215	66	3.3	6.75	<b>BG30-../DHE09XA4</b>	37	1760	-	260	55	3.9
183	78	2.8	7.91	"	"	1760	-	220	65	3.3
168	85	2.9	8.60	"	"	2800	-	205	69	3.6
151	94	2.7	9.55	"	"	3000	-	183	78	3.3
136	105	2.5	10.65	"	"	2950	-	164	87	3.1
122	117	2.3	11.82	"	"	3200	-	148	96	2.9
105	136	2.2	13.77	"	"	3150	-	127	112	2.6
95	150	2.0	15.27	"	"	3450	-	114	125	2.4
85	168	1.8	17.06	"	"	3700	-	102	140	2.1
77	186	1.6	18.93	"	"	4100	-	92	155	1.95
73	196	1.55	19.99	"	"	4200	-	88	162	1.85
65	220	1.35	22.18	"	"	4600	-	79	181	1.65
57	250	1.2	25.45	"	"	4850	-	69	205	1.45
51	280	1.05	28.24	"	"	5100	-	62	230	1.3
48.5	295	1.0	29.83	"	"	5200	-	59	240	1.25
44	325	0.92	33.09	"	"	5400	-	53	270	1.1
41	345	0.87	35.17	"	"	5500	-	49.5	285	1.05
160	89	3.3	9.00	<b>BG40-../DHE09XA4</b>	51	2650	-	194	73	4.0
112	127	3.2	12.86	"	"	4500	-	136	105	3.9
101	141	3.0	14.28	"	"	4900	-	122	117	3.6
88	162	2.6	16.39	"	"	5300	-	107	133	3.2
80	179	2.4	18.19	"	"	5600	-	96	149	2.9
73	196	2.2	19.84	"	"	5800	-	88	162	2.6
66	215	2.0	22.02	"	"	6000	-	80	179	2.4
62	230	1.85	23.43	"	"	6200	-	75	191	2.2
56	255	1.65	26.01	"	"	6500	-	67	210	2.0
49.5	285	1.5	29.34	"	"	6800	-	60	235	1.8
44.5	320	1.35	32.57	"	"	7000	-	54	265	1.6
42.5	335	1.25	34.20	"	"	7000	-	51	280	1.5
38	375	1.15	37.96	"	"	7000	-	46	310	1.35
36	395	1.1	40.19	"	"	7000	-	43.5	325	1.3
32.5	440	0.97	44.62	"	"	7000	-	39	365	1.15
30	475	0.89	48.36	"	"	7000	-	36	395	1.1
27	530	0.8	53.69	"	"	7000	-	32.5	440	0.97
66	215	2.9	21.96	<b>BG50-../DHE09XA4</b>	59	8000	-	80	179	3.5
60	235	2.7	24.34	"	"	8700	-	72	198	3.2
49	290	2.2	29.62	"	"	8000	-	59	240	2.6
44	325	1.95	32.84	"	"	8700	-	53	270	2.3
38.5	370	1.7	37.89	"	"	10000	-	46	310	2.0
34.5	415	1.5	42.00	"	"	10000	-	41.5	345	1.85

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 1.5 kW

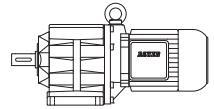


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
31	460	1.35	47.02	BG50-../DHE09XA4	"	10000	-	37.5	380	1.65
28	510	1.25	52.12	"	"	10000	-	33.5	425	1.5
24.5	580	1.1	59.42	"	"	10000	-	29.5	485	1.3
22	650	0.97	65.86	"	"	10000	-	26.5	540	1.15
20.5	690	0.91	71.97	BG50Z-../DHE09XA4	64	10000	-	24.5	580	1.1
18.5	770	0.82	79.78	"	"	10000	-	22	650	0.97
37.5	380	3.2	38.85	BG60-../DHE09XA4	90	16000	-	45	315	3.8
33.5	425	2.8	43.05	"	"	16000	-	40.5	350	3.4
29	490	2.4	50.31	"	"	16000	-	35	405	3.0
26	550	2.2	55.76	"	"	16000	-	31.5	450	2.7
24	590	2.0	60.90	"	"	16000	-	29	490	2.4
21.5	660	1.8	67.49	"	"	16000	-	26	550	2.2
19.5	730	1.65	75.71	BG60Z-../DHE09XA4	109	16000	-	23	620	1.95
16	890	1.35	91.09	"	"	16000	-	19.5	730	1.65
14.5	980	1.2	101.0	"	"	16000	-	17.5	810	1.5
12.5	1140	1.05	119.2	"	"	16000	-	15	950	1.25
11	1300	0.92	132.1	"	"	16000	-	13.5	1060	1.15
20	710	3.2	73.82	BG70Z-../DHE09XA4	149	20000	-	24	590	3.9
16.5	860	2.7	87.61	"	"	20000	-	20	710	3.2
15.5	920	2.5	95.74	"	"	20000	-	18.5	770	3.0
13	1100	2.1	113.6	"	"	20000	-	15.5	920	2.5
12	1190	1.95	124.0	"	"	20000	-	14.5	980	2.3
9.8	1460	1.6	147.2	"	"	20000	-	12	1190	1.95
8.8	1620	1.4	163.8	"	"	20000	-	11	1300	1.75
7.5	1910	1.2	194.4	"	"	20000	-	9.0	1590	1.45
6.9	2050	1.1	210.5	"	"	20000	-	8.3	1720	1.35
5.8	2450	0.94	249.8	"	"	20000	-	7.0	2000	1.15
5.7	2400	1.05	255.5	BG70G20-../DHE09XA4	146	20000	-	6.9	1960	1.3
5.3	2550	0.98	276.7	"	"	20000	-	6.3	2150	1.15
4.4	3100	0.81	328.4	"	"	20000	-	5.3	2550	0.98
10	1430	2.9	145.4	BG80Z-../DHE09XA4	217	26000	-	12	1190	3.5
9.0	1590	2.6	161.5	"	"	26000	-	11	1300	3.2
7.8	1830	2.3	186.8	"	"	26000	-	9.4	1520	2.8
7.0	2000	2.1	207.4	"	"	26000	-	8.4	1700	2.5
6.4	1950	2.4	227.2	BG80G40-../DHE09XA4	228	26000	-	7.7	1580	2.9
5.8	2150	2.1	252.3	"	"	26000	-	6.9	1760	2.6
5.1	2500	1.85	282.8	"	"	26000	-	6.2	2000	2.3
4.6	2750	1.65	314.0	"	"	26000	-	5.6	2200	2.1
4.0	3200	1.45	360.0	"	"	26000	-	4.9	2550	1.8
3.7	3450	1.35	399.8	"	"	26000	-	4.4	2850	1.6
3.4	3850	1.2	436.2	"	"	26000	-	4.0	3200	1.45
3.0	4350	1.05	484.3	"	"	26000	-	3.6	3600	1.3
2.6	5100	0.9	572.0	"	"	26000	-	3.1	4200	1.1
4.0	3050	3.0	360.3	BG90G50-../DHE09XA4	338	65000	-	4.9	2400	3.8
3.4	3800	2.4	435.8	"	"	65000	-	4.0	3150	2.9
2.9	4450	2.1	504.7	"	"	65000	-	3.5	3600	2.6
2.5	5100	1.8	588.8	"	"	65000	-	3.0	4200	2.2
2.3	5600	1.65	644.7	"	"	65000	-	2.7	4650	2.0
2.1	6100	1.5	714.2	"	"	65000	-	2.5	5000	1.85
1.7	7700	1.2	883.7	"	"	65000	-	2.0	6400	1.45
1.3	10300	0.89	1174	"	"	65000	-	1.5	8800	1.05
1.2	11200	0.82	1301	"	"	65000	-	1.4	9500	0.97
2.5	5700	3.2	591.1	BG100Z-../DHE09XA4	526	90000	-	3.0	4750	3.9
2.2	6500	2.8	658.1	"	"	90000	-	2.7	5300	3.5
1.9	7500	2.5	759.0	"	"	90000	-	2.3	6200	3.0
1.8	7900	2.3	845.1	"	"	90000	-	2.1	6800	2.7
1.5	7900	2.3	976.1	BG100G50-../DHE09XA4	525	90000	-	1.8	6300	2.9
1.4	8800	2.1	1043	"	"	90000	-	1.7	7000	2.6
1.2	10300	1.8	1204	"	"	90000	-	1.5	7900	2.3
1.0	12900	1.45	1444	"	"	90000	-	1.3	9600	1.95
0.9	14300	1.3	1678	"	"	90000	-	1.1	11400	1.6
0.8	16100	1.15	1867	"	"	90000	-	0.95	13200	1.4
0.7	18400	1.0	2154	"	"	90000	-	0.85	14700	1.25

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 2.2 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
580	36	1.55	2.52	BG10-../DHE09XA4C	32	560	790	700	30	1.85
425	49	1.25	3.42	"	"	630	880	510	41	1.5
335	62	1.1	4.36	"	"	650	910	400	52	1.3
270	77	0.97	5.34	"	"	620	910	330	63	1.2
215	97	0.84	6.78	"	"	660	920	260	80	1.0
580	36	2.3	2.52	BG20-../DHE09XA4C	35	1660	-	700	30	2.8
435	48	1.9	3.33	"	"	1830	-	530	39.5	2.3
330	63	1.65	4.38	"	"	1990	-	400	52	2.0
265	79	1.45	5.49	"	"	2100	-	320	65	1.75
225	93	1.3	6.48	"	"	2250	-	270	77	1.6
180	116	1.2	8.02	"	"	2500	-	220	95	1.45
174	120	1.0	8.29	"	"	2250	-	210	100	1.2
162	129	1.1	8.91	"	"	2600	-	196	107	1.35
150	140	0.87	9.65	"	"	2250	-	181	116	1.05
137	153	1.0	10.54	"	"	2700	-	166	126	1.2
123	170	0.93	11.71	"	"	2800	-	149	141	1.1
110	191	0.87	13.21	"	"	2900	-	132	159	1.05
99	210	0.82	14.67	"	"	3050	-	119	176	0.98
540	38.5	3.3	2.67	BG30-../DHE09XA4C	39	1450	-	660	31.5	4.1
425	49	2.8	3.40	"	"	1580	-	520	40	3.5
345	60	2.9	4.21	"	"	1630	-	415	50	3.4
265	79	2.5	5.44	"	"	1670	-	320	65	3.1
215	97	2.2	6.75	"	"	1760	-	260	80	2.7
183	114	1.9	7.91	"	"	1760	-	220	95	2.3
168	125	1.95	8.60	"	"	2800	-	205	102	2.4
151	139	1.85	9.55	"	"	3000	-	183	114	2.2
136	154	1.75	10.65	"	"	2950	-	164	128	2.1
122	172	1.6	11.82	"	"	3200	-	148	141	1.95
105	200	1.45	13.77	"	"	3150	-	127	165	1.8
95	220	1.35	15.27	"	"	3450	-	114	184	1.65
85	245	1.2	17.06	"	"	3700	-	102	205	1.45
77	270	1.1	18.93	"	"	4100	-	92	225	1.35
73	285	1.05	19.99	"	"	4200	-	88	235	1.3
65	320	0.94	22.18	"	"	4600	-	79	265	1.15
57	365	0.82	25.45	"	"	4850	-	69	300	1.0
230	91	3.2	6.29	BG40-../DHE09XA4C	54	2600	-	280	75	3.9
189	111	2.7	7.62	"	"	2650	-	230	91	3.2
174	120	2.9	8.31	"	"	4100	-	210	100	3.4
157	133	2.7	9.23	"	"	4350	-	189	111	3.2
140	150	2.5	10.35	"	"	4350	-	169	124	3.0
126	166	2.3	11.49	"	"	4600	-	152	138	2.8
112	187	2.2	12.86	"	"	4500	-	136	154	2.7
101	205	2.1	14.28	"	"	4900	-	122	172	2.4
88	235	1.8	16.39	"	"	5300	-	107	196	2.2
80	260	1.65	18.19	"	"	5600	-	96	215	2.0
73	285	1.5	19.84	"	"	5800	-	88	235	1.8
66	315	1.35	22.02	"	"	6000	-	80	260	1.65
62	335	1.25	23.43	"	"	6200	-	75	280	1.5
56	375	1.15	26.01	"	"	6500	-	67	310	1.35
49.5	420	1.0	29.34	"	"	6800	-	60	350	1.2
44.5	470	0.9	32.57	"	"	7000	-	54	385	1.1
42.5	490	0.87	34.20	"	"	7000	-	51	410	1.05
120	175	3.3	12.06	BG50-../DHE09XA4C	62	5700	-	145	144	4.0
108	194	3.1	13.36	"	"	6100	-	131	160	3.7
88	235	2.7	16.53	"	"	6500	-	106	198	3.2
79	265	2.4	18.33	"	"	7200	-	95	220	2.9
66	315	2.0	21.96	"	"	8000	-	80	260	2.4
60	350	1.8	24.34	"	"	8700	-	72	290	2.2
49	425	1.5	29.62	"	"	8000	-	59	355	1.75
44	475	1.35	32.84	"	"	8700	-	53	395	1.6
38.5	540	1.15	37.89	"	"	10000	-	46	455	1.4
34.5	600	1.05	42.00	"	"	10000	-	41.5	500	1.25

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 2.2 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
31	670	0.94	47.02	BG50-../DHE09XA4C	"	10000	-	37.5	560	1.15
28	750	0.84	52.12	"	"	10000	-	33.5	620	1.0
49.5	420	2.9	29.31	BG60-../DHE09XA4C	92	14800	-	60	350	3.4
44.5	470	2.6	32.48	"	"	15400	-	54	385	3.1
37.5	560	2.1	38.85	"	"	16000	-	45	465	2.6
33.5	620	1.95	43.05	"	"	16000	-	40.5	510	2.4
29	720	1.65	50.31	"	"	16000	-	35	600	2.0
26	800	1.5	55.76	"	"	16000	-	31.5	660	1.8
24	870	1.4	60.90	"	"	16000	-	29	720	1.65
21.5	970	1.25	67.49	"	"	16000	-	26	800	1.5
19.5	1070	1.1	75.71	BG60Z-../DHE09XA4C	112	16000	-	23	910	1.3
16	1310	0.92	91.09	"	"	16000	-	19.5	1070	1.1
14.5	1440	0.83	101.0	"	"	16000	-	17.5	1200	1.0
29	720	3.2	50.40	BG70-../DHE09XA4C	130	20000	-	35	600	3.8
24.5	850	2.7	59.82	"	"	20000	-	29.5	710	3.2
22.5	930	2.5	64.85	BG70Z-../DHE09XA4C	151	20000	-	27	770	3.0
20	1050	2.2	73.82	"	"	20000	-	24	870	2.6
16.5	1270	1.8	87.61	"	"	20000	-	20	1050	2.2
15.5	1350	1.7	95.74	"	"	20000	-	18.5	1130	2.0
13	1610	1.45	113.6	"	"	20000	-	15.5	1350	1.7
12	1750	1.3	124.0	"	"	20000	-	14.5	1440	1.6
9.8	2100	1.1	147.2	"	"	20000	-	12	1750	1.3
8.8	2350	0.98	163.8	"	"	20000	-	11	1910	1.2
7.5	2800	0.82	194.4	"	"	20000	-	9.0	2300	1.0
15.5	1350	3.1	93.89	BG80Z-../DHE09XA4C	219	26000	-	19	1100	3.8
13	1610	2.6	112.4	"	"	26000	-	15.5	1350	3.1
12	1750	2.4	124.8	"	"	26000	-	14	1500	2.8
10	2100	2.0	145.4	"	"	26000	-	12	1750	2.4
9.0	2300	1.85	161.5	"	"	26000	-	11	1910	2.2
7.8	2650	1.6	186.8	"	"	26000	-	9.4	2200	1.9
7.0	3000	1.4	207.4	"	"	26000	-	8.4	2500	1.7
6.4	3000	1.55	227.2	BG80G40-../DHE09XA4C	231	26000	-	7.7	2400	1.9
5.8	3300	1.4	252.3	"	"	26000	-	6.9	2700	1.7
5.1	3800	1.2	282.8	"	"	26000	-	6.2	3050	1.5
4.6	4200	1.1	314.0	"	"	26000	-	5.6	3400	1.35
4.0	4900	0.94	360.0	"	"	26000	-	4.9	3950	1.15
3.7	5300	0.87	399.8	"	"	26000	-	4.4	4350	1.05
8.1	2550	3.3	178.5	BG90Z-../DHE09XA4C	329	65000	-	9.8	2100	4.0
7.0	3000	2.8	208.3	"	"	65000	-	8.4	2500	3.4
6.4	3250	2.6	228.1	"	"	65000	-	7.7	2700	3.1
5.5	3350	2.7	262.5	BG90G50-../DHE09XA4C	340	65000	-	6.7	2700	3.4
4.9	4000	2.3	298.8	"	"	65000	-	5.9	3250	2.8
4.0	4750	1.95	360.3	"	"	65000	-	4.9	3800	2.4
3.4	5700	1.6	435.8	"	"	65000	-	4.0	4850	1.9
2.9	6700	1.35	504.7	"	"	65000	-	3.5	5500	1.65
2.5	7800	1.2	588.8	"	"	65000	-	3.0	6400	1.45
2.3	8500	1.1	644.7	"	"	65000	-	2.7	7100	1.3
2.1	9300	0.99	714.2	"	"	65000	-	2.5	7700	1.2
3.2	6500	2.8	456.7	BG100Z-../DHE09XA4C	528	90000	-	3.9	5300	3.5
2.9	7200	2.6	508.5	"	"	90000	-	3.5	6000	3.1
2.5	8400	2.2	591.1	"	"	90000	-	3.0	7000	2.6
2.2	9500	1.95	658.1	"	"	90000	-	2.7	7700	2.4
1.9	11000	1.7	759.0	"	"	90000	-	2.3	9100	2.0
1.8	11600	1.6	845.1	"	"	90000	-	2.1	10000	1.85
1.5	12400	1.5	976.1	BG100G50-../DHE09XA4C	527	90000	-	1.8	10000	1.85
1.4	13600	1.35	1043	"	"	90000	-	1.7	10900	1.7
1.2	15800	1.15	1204	"	"	90000	-	1.5	12300	1.5
1.0	19600	0.94	1444	"	"	90000	-	1.3	14700	1.25

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 3 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
540	53	2.4	2.67	BG30-../DHE11MA4	46	1450	-	660	43	3.0
425	67	2.1	3.40	"	"	1580	-	520	55	2.5
345	83	2.1	4.21	"	"	1630	-	415	69	2.5
265	108	1.85	5.44	"	"	1670	-	320	89	2.2
215	133	1.65	6.75	"	"	1760	-	260	110	1.95
183	156	1.4	7.91	"	"	1760	-	220	130	1.65
168	170	1.45	8.60	"	"	2800	-	205	139	1.75
151	189	1.35	9.55	"	"	3000	-	183	156	1.65
136	210	1.25	10.65	"	"	2950	-	164	174	1.55
122	230	1.2	11.82	"	"	3200	-	148	193	1.4
105	270	1.1	13.77	"	"	3150	-	127	225	1.3
95	300	1.0	15.27	"	"	3450	-	114	250	1.2
85	335	0.9	17.06	"	"	3700	-	102	280	1.05
77	370	0.81	18.93	"	"	4100	-	92	310	0.97
365	78	3.1	3.97	BG40-../DHE11MA4	65	2400	-	440	65	3.8
295	97	2.8	4.94	"	"	2450	-	355	80	3.4
230	124	2.4	6.29	"	"	2600	-	280	102	2.9
189	151	1.95	7.62	"	"	2650	-	230	124	2.4
174	164	2.1	8.31	"	"	4100	-	210	136	2.5
157	182	1.95	9.23	"	"	4350	-	189	151	2.4
140	200	1.9	10.35	"	"	4350	-	169	169	2.2
126	225	1.75	11.49	"	"	4600	-	152	188	2.1
112	255	1.6	12.86	"	"	4500	-	136	210	1.95
101	280	1.5	14.28	"	"	4900	-	122	230	1.85
88	325	1.3	16.39	"	"	5300	-	107	265	1.6
80	355	1.2	18.19	"	"	5600	-	96	295	1.45
73	390	1.1	19.84	"	"	5800	-	88	325	1.3
66	430	0.99	22.02	"	"	6000	-	80	355	1.2
62	460	0.92	23.43	"	"	6200	-	75	380	1.1
56	510	0.83	26.01	"	"	6500	-	67	425	1.0
166	172	3.0	8.70	BG50-../DHE11MA4	75	5300	-	200	143	3.6
150	191	2.7	9.65	"	"	5600	-	181	158	3.3
120	235	2.5	12.06	"	"	5700	-	145	197	2.9
108	265	2.2	13.36	"	"	6100	-	131	215	2.8
88	325	1.95	16.53	"	"	6500	-	106	270	2.3
79	360	1.75	18.33	"	"	7200	-	95	300	2.1
66	430	1.45	21.96	"	"	8000	-	80	355	1.75
60	475	1.35	24.34	"	"	8700	-	72	395	1.6
49	580	1.1	29.62	"	"	8000	-	59	485	1.3
44	650	0.97	32.84	"	"	8700	-	53	540	1.15
38.5	740	0.85	37.89	"	"	10000	-	46	620	1.0
78	365	3.1	18.62	BG60-../DHE11MA4	107	12400	-	94	300	3.8
65	440	2.7	22.40	"	"	13300	-	78	365	3.3
59	485	2.5	24.82	"	"	13800	-	71	400	3.0
49.5	570	2.1	29.31	"	"	14800	-	60	475	2.5
44.5	640	1.9	32.48	"	"	15400	-	54	530	2.3
37.5	760	1.6	38.85	"	"	16000	-	45	630	1.9
33.5	850	1.4	43.05	"	"	16000	-	40.5	700	1.7
29	980	1.2	50.31	"	"	16000	-	35	810	1.5
26	1100	1.1	55.76	"	"	16000	-	31.5	900	1.35
24	1190	1.0	60.90	"	"	16000	-	29	980	1.2
21.5	1330	0.9	67.49	"	"	16000	-	26	1100	1.1
19.5	1460	0.82	75.71	BG60Z-../DHE11MA4	123	16000	-	23	1240	0.97
41	690	3.3	35.24	BG70-../DHE11MA4	138	18300	-	49.5	570	4.0
37	770	3.0	39.22	"	"	19100	-	44.5	640	3.6
31	920	2.5	46.54	"	"	20000	-	37.5	760	3.0
29	980	2.3	50.40	"	"	20000	-	35	810	2.8
24.5	1160	2.0	59.82	"	"	20000	-	29.5	970	2.4
22.5	1270	1.8	64.85	BG70Z-../DHE11MA4	164	20000	-	27	1060	2.2
20	1430	1.6	73.82	"	"	20000	-	24	1190	1.95
16.5	1730	1.35	87.61	"	"	20000	-	20	1430	1.6

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 3 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
15.5	1840	1.25	95.74	BG70Z-../DHE11MA4	"	20000	-	18.5	1540	1.5
13	2200	1.05	113.6	"	"	20000	-	15.5	1840	1.25
12	2350	0.98	124.0	"	"	20000	-	14.5	1970	1.15
22	1300	3.2	66.40	BG80Z-../DHE11MA4	234	26000	-	26.5	1080	3.9
20	1430	2.9	73.73	"	"	26000	-	24	1190	3.5
17.5	1630	2.6	84.55	"	"	26000	-	21	1360	3.1
15.5	1840	2.3	93.89	"	"	26000	-	19	1500	2.8
13	2200	1.9	112.4	"	"	26000	-	15.5	1840	2.3
12	2350	1.8	124.8	"	"	26000	-	14	2000	2.1
10	2850	1.45	145.4	"	"	26000	-	12	2350	1.8
9.0	3150	1.35	161.5	"	"	26000	-	11	2600	1.6
7.8	3650	1.15	186.8	"	"	26000	-	9.4	3000	1.4
7.0	4050	1.05	207.4	"	"	26000	-	8.4	3400	1.25
6.4	4150	1.1	227.2	BG80G40-../DHE11MA4	242	26000	-	7.7	3400	1.35
5.8	4600	1.0	252.3	"	"	26000	-	6.9	3800	1.2
5.1	5300	0.87	282.8	"	"	26000	-	6.2	4300	1.05
10.5	2700	3.1	139.2	BG90Z-../DHE11MA4	336	65000	-	12.5	2250	3.7
8.9	3200	2.6	163.0	"	"	65000	-	11	2600	3.2
8.1	3500	2.4	178.5	"	"	65000	-	9.8	2900	2.9
7.0	4050	2.1	208.3	"	"	65000	-	8.4	3400	2.5
6.4	4450	1.9	228.1	"	"	65000	-	7.7	3700	2.3
5.5	4750	1.95	262.5	BG90G50-../DHE11MA4	353	65000	-	6.7	3850	2.4
4.9	5500	1.65	298.8	"	"	65000	-	5.9	4550	2.0
4.0	6600	1.4	360.3	"	"	65000	-	4.9	5300	1.75
3.4	8000	1.15	435.8	"	"	65000	-	4.0	6700	1.35
2.9	9300	0.99	504.7	"	"	65000	-	3.5	7700	1.2
2.5	10800	0.85	588.8	"	"	65000	-	3.0	8900	1.05
5.6	5100	3.3	259.0	BG100-../DHE11MA4	453	90000	-	6.8	4200	4.0
4.8	5900	3.1	300.4	BG100Z-../DHE11MA4	543	90000	-	5.8	4900	3.8
4.2	6800	2.7	343.6	"	"	90000	-	5.1	5600	3.3
3.8	7500	2.5	382.6	"	"	90000	-	4.6	6200	3.0
3.2	8900	2.1	456.7	"	"	90000	-	3.9	7300	2.5
2.9	9800	1.9	508.5	"	"	90000	-	3.5	8100	2.3
2.5	11400	1.6	591.1	"	"	90000	-	3.0	9500	1.95
2.2	13000	1.4	658.1	"	"	90000	-	2.7	10600	1.75
1.9	15000	1.25	759.0	"	"	90000	-	2.3	12400	1.5
1.8	15900	1.15	845.1	"	"	90000	-	2.1	13600	1.35
1.5	17500	1.05	976.1	BG100G50-../DHE11MA4	540	90000	-	1.8	14300	1.3
1.4	19000	0.97	1043	"	"	90000	-	1.7	15400	1.2
1.2	22200	0.83	1204	"	"	90000	-	1.5	17400	1.05

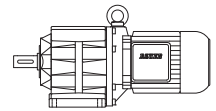
P = 4 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
540	70	1.85	2.67	BG30-../DHE11LA4	58	1450	-	660	57	2.2
425	89	1.55	3.40	"	"	1580	-	520	73	1.9
345	110	1.55	4.21	"	"	1630	-	415	92	1.85
265	144	1.4	5.44	"	"	1670	-	320	119	1.7
215	177	1.25	6.75	"	"	1760	-	260	146	1.5
183	205	1.05	7.91	"	"	1760	-	220	173	1.25
168	225	1.1	8.60	"	"	2800	-	205	186	1.3
151	250	1.0	9.55	"	"	3000	-	183	205	1.25
136	280	0.95	10.65	"	"	2950	-	164	230	1.15
122	310	0.88	11.82	"	"	3200	-	148	255	1.05
105	360	0.82	13.77	"	"	3150	-	127	300	0.98
590	64	3.2	2.46	BG40-../DHE11LA4	77	2150	-	710	53	3.8
455	83	2.7	3.19	"	"	2350	-	550	69	3.2
365	104	2.3	3.97	"	"	2400	-	440	86	2.8

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

**P = 4 kW**

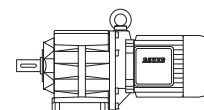


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	129	2.1	4.94	BG40-../DHE11LA4	"	2450	-	355	107	2.5
230	166	1.8	6.29	"	"	2600	-	280	136	2.2
189	200	1.5	7.62	"	"	2650	-	230	166	1.8
174	215	1.6	8.31	"	"	4100	-	210	181	1.9
157	240	1.5	9.23	"	"	4350	-	189	200	1.8
140	270	1.4	10.35	"	"	4350	-	169	225	1.65
126	300	1.3	11.49	"	"	4600	-	152	250	1.55
112	340	1.2	12.86	"	"	4500	-	136	280	1.45
101	375	1.1	14.28	"	"	4900	-	122	310	1.35
88	430	0.99	16.39	"	"	5300	-	107	355	1.2
80	475	0.89	18.19	"	"	5600	-	96	395	1.1
73	520	0.82	19.84	"	"	5800	-	88	430	0.99
295	129	3.1	4.91	BG50-../DHE11LA4	86	3500	-	355	107	3.7
215	177	2.6	6.74	"	"	3750	-	260	146	3.1
166	230	2.2	8.70	"	"	5300	-	200	191	2.7
150	250	2.1	9.65	"	"	5600	-	181	210	2.5
120	315	1.85	12.06	"	"	5700	-	145	260	2.2
108	350	1.7	13.36	"	"	6100	-	131	290	2.0
88	430	1.45	16.53	"	"	6500	-	106	360	1.75
79	480	1.3	18.33	"	"	7200	-	95	400	1.6
66	570	1.1	21.96	"	"	8000	-	80	475	1.35
60	630	1.0	24.34	"	"	8700	-	72	530	1.2
49	770	0.82	29.62	"	"	8000	-	59	640	0.98
119	320	3.1	12.16	BG60-../DHE11LA4	119	10800	-	144	265	3.7
107	355	2.9	13.47	"	"	11200	-	130	290	3.5
86	440	2.5	16.80	"	"	12000	-	104	365	3.0
78	485	2.4	18.62	"	"	12400	-	94	405	2.8
65	580	2.1	22.40	"	"	13300	-	78	485	2.5
59	640	1.9	24.82	"	"	13800	-	71	530	2.3
49.5	770	1.55	29.31	"	"	14800	-	60	630	1.9
44.5	850	1.4	32.48	"	"	15400	-	54	700	1.7
37.5	1010	1.2	38.85	"	"	16000	-	45	840	1.45
33.5	1140	1.05	43.05	"	"	16000	-	40.5	940	1.3
29	1310	0.92	50.31	"	"	16000	-	35	1090	1.1
26	1460	0.82	55.76	"	"	16000	-	31.5	1210	0.99
53	720	3.2	27.21	BG70-../DHE11LA4	149	16400	-	64	590	3.9
49	770	3.0	29.69	"	"	16900	-	59	640	3.6
41	930	2.5	35.24	"	"	18300	-	49.5	770	3.0
37	1030	2.2	39.22	"	"	19100	-	44.5	850	2.7
31	1230	1.85	46.54	"	"	20000	-	37.5	1010	2.3
29	1310	1.75	50.40	"	"	20000	-	35	1090	2.1
24.5	1550	1.5	59.82	"	"	20000	-	29.5	1290	1.8
22.5	1690	1.35	64.85	BG70Z-../DHE11LA4	176	20000	-	27	1410	1.65
20	1910	1.2	73.82	"	"	20000	-	24	1590	1.45
16.5	2300	1.0	87.61	"	"	20000	-	20	1910	1.2
15.5	2450	0.94	95.74	"	"	20000	-	18.5	2050	1.1
30	1270	3.3	48.80	BG80-../DHE11LA4	204	23800	-	36	1060	4.0
25.5	1490	2.8	57.24	"	"	25400	-	30.5	1250	3.4
23	1660	2.5	63.56	"	"	26000	-	27.5	1380	3.0
22	1730	2.4	66.40	BG80Z-../DHE11LA4	246	26000	-	26.5	1440	2.9
20	1910	2.2	73.73	"	"	26000	-	24	1590	2.6
17.5	2150	1.95	84.55	"	"	26000	-	21	1810	2.3
15.5	2450	1.7	93.89	"	"	26000	-	19	2000	2.1
13	2900	1.45	112.4	"	"	26000	-	15.5	2450	1.7
12	3150	1.35	124.8	"	"	26000	-	14	2700	1.55
10	3800	1.1	145.4	"	"	26000	-	12	3150	1.35
9.0	4200	1.0	161.5	"	"	26000	-	11	3450	1.2
7.8	4850	0.87	186.8	"	"	26000	-	9.4	4050	1.05
6.4	5600	0.82	227.2	BG80G40-../DHE11LA4	254	26000	-	7.7	4650	0.99

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 4 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
14	2700	3.1	105.7	BG90Z-../DHE11LA4	348	65000	-	16.5	2300	3.7
11.5	3300	2.5	127.1	"	"	65000	-	14	2700	3.1
10.5	3600	2.3	139.2	"	"	65000	-	12.5	3050	2.8
8.9	4250	2.0	163.0	"	"	65000	-	11	3450	2.4
8.1	4700	1.8	178.5	"	"	65000	-	9.8	3850	2.2
7.0	5400	1.55	208.3	"	"	65000	-	8.4	4500	1.85
6.4	5900	1.4	228.1	"	"	65000	-	7.7	4950	1.7
5.5	6500	1.4	262.5	BG90G50-../DHE11LA4	365	65000	-	6.7	5200	1.75
4.9	7500	1.25	298.8	"	"	65000	-	5.9	6100	1.5
4.0	9000	1.0	360.3	"	"	65000	-	4.9	7300	1.25
3.4	10800	0.85	435.8	"	"	65000	-	4.0	9100	1.0
7.3	5200	3.2	198.8	BG100-../DHE11LA4	465	90000	-	8.8	4300	3.9
6.2	6100	2.8	232.6	"	"	90000	-	7.5	5000	3.4
5.6	6800	2.5	259.0	"	"	90000	-	6.8	5600	3.0
5.4	7000	2.6	269.8	BG100Z-../DHE11LA4	555	90000	-	6.5	5800	3.2
4.8	7900	2.3	300.4	"	"	90000	-	5.8	6500	2.8
4.2	9000	2.1	343.6	"	"	90000	-	5.1	7400	2.5
3.8	10000	1.85	382.6	"	"	90000	-	4.6	8300	2.2
3.2	11900	1.55	456.7	"	"	90000	-	3.9	9700	1.9
2.9	13100	1.4	508.5	"	"	90000	-	3.5	10900	1.7
2.5	15200	1.2	591.1	"	"	90000	-	3.0	12700	1.45
2.2	17300	1.05	658.1	"	"	90000	-	2.7	14100	1.3
1.9	20100	0.92	759.0	"	"	90000	-	2.3	16600	1.1
1.8	21200	0.87	845.1	"	"	90000	-	2.1	18100	1.0

P = 5.5 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
550	95	1.35	2.67	BG30-../DHE11LA4C	62	1450	-	660	79	1.6
430	122	1.15	3.40	"	"	1580	-	520	101	1.4
350	150	1.15	4.21	"	"	1630	-	420	125	1.35
270	194	1.05	5.44	"	"	1670	-	325	161	1.25
220	235	0.92	6.75	"	"	1760	-	265	198	1.1
170	305	0.81	8.60	"	"	2800	-	205	255	0.96
600	87	2.3	2.46	BG40-../DHE11LA4C	81	2150	-	720	72	2.8
460	114	1.95	3.19	"	"	2350	-	560	93	2.4
370	141	1.75	3.97	"	"	2400	-	445	118	2.1
300	175	1.55	4.94	"	"	2450	-	360	145	1.85
235	220	1.35	6.29	"	"	2600	-	280	187	1.6
192	270	1.1	7.62	"	"	2650	-	235	220	1.35
176	295	1.15	8.31	"	"	4100	-	215	240	1.45
163	320	0.92	9.00	"	"	2650	-	196	265	1.1
159	330	1.1	9.23	"	"	4350	-	191	275	1.3
142	365	1.05	10.35	"	"	4350	-	171	305	1.25
128	410	0.95	11.49	"	"	4600	-	154	340	1.15
114	460	0.89	12.86	"	"	4500	-	137	380	1.1
103	500	0.84	14.28	"	"	4900	-	124	420	1.0
415	126	2.8	3.55	BG50-../DHE11LA4C	90	3300	-	500	105	3.3
300	175	2.3	4.91	"	"	3500	-	360	145	2.7
220	235	1.9	6.74	"	"	3750	-	265	198	2.3
168	310	1.65	8.70	"	"	5300	-	205	255	2.0
152	345	1.5	9.65	"	"	5600	-	183	285	1.85
122	430	1.35	12.06	"	"	5700	-	146	355	1.6
110	475	1.25	13.36	"	"	6100	-	132	395	1.5
89	590	1.05	16.53	"	"	6500	-	107	490	1.3
80	650	0.97	18.33	"	"	7200	-	97	540	1.15
67	780	0.81	21.96	"	"	8000	-	81	640	0.98



# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 5.5 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
215	240	3.3	6.88	BG60-../DHE11LA4C	123	8600	-	260	200	3.9
160	325	2.7	9.13	"	"	9800	-	193	270	3.3
145	360	2.5	10.12	"	"	10200	-	174	300	3.0
121	430	2.3	12.16	"	"	10800	-	145	360	2.7
109	480	2.1	13.47	"	"	11200	-	131	400	2.6
87	600	1.85	16.80	"	"	12000	-	105	500	2.2
79	660	1.75	18.62	"	"	12400	-	95	550	2.1
66	790	1.5	22.40	"	"	13300	-	79	660	1.8
59	890	1.35	24.82	"	"	13800	-	71	730	1.65
50	1050	1.15	29.31	"	"	14800	-	61	860	1.4
45	1160	1.05	32.48	"	"	15400	-	55	950	1.25
38	1380	0.87	38.85	"	"	16000	-	45.5	1150	1.05
70	750	3.1	20.98	BG70-../DHE11LA4C	153	14600	-	84	620	3.7
64	820	2.8	22.92	"	"	15100	-	77	680	3.4
54	970	2.4	27.21	"	"	16400	-	65	800	2.9
49.5	1060	2.2	29.69	"	"	16900	-	60	870	2.6
41.5	1260	1.85	35.24	"	"	18300	-	50	1050	2.2
37.5	1400	1.65	39.22	"	"	19100	-	45	1160	2.0
31.5	1660	1.4	46.54	"	"	20000	-	38	1380	1.65
29	1810	1.25	50.40	"	"	20000	-	35	1500	1.55
24.5	2100	1.1	59.82	"	"	20000	-	29.5	1780	1.3
23	2250	1.0	64.85	BG70Z-../DHE11LA4C	180	20000	-	27.5	1910	1.2
20	2600	0.88	73.82	"	"	20000	-	24	2150	1.05
38.5	1360	3.1	38.00	BG80-../DHE11LA4C	208	21300	-	46.5	1120	3.8
33.5	1560	2.7	43.94	"	"	22600	-	40.5	1290	3.3
30	1750	2.4	48.80	"	"	23800	-	36.5	1430	2.9
26	2000	2.1	57.24	"	"	25400	-	31	1690	2.5
23	2250	1.85	63.56	"	"	26000	-	28	1870	2.2
22	2350	1.8	66.40	BG80Z-../DHE11LA4C	250	26000	-	27	1940	2.2
20	2600	1.6	73.73	"	"	26000	-	24	2150	1.95
17.5	3000	1.4	84.55	"	"	26000	-	21	2500	1.7
16	3250	1.3	93.89	"	"	26000	-	19	2750	1.55
13	4000	1.05	112.4	"	"	26000	-	16	3250	1.3
12	4350	0.97	124.8	"	"	26000	-	14.5	3600	1.15
10.5	5000	0.84	145.4	"	"	26000	-	12.5	4200	1.0
19.5	2650	3.2	76.61	BG90Z-../DHE11LA4C	352	65000	-	23	2250	3.7
17.5	3000	2.8	83.91	"	"	65000	-	21	2500	3.4
15.5	3350	2.5	96.53	"	"	65000	-	18.5	2800	3.0
14	3750	2.2	105.7	"	"	65000	-	17	3050	2.8
11.5	4550	1.85	127.1	"	"	65000	-	14	3750	2.2
10.5	5000	1.7	139.2	"	"	65000	-	13	4000	2.1
9.0	5800	1.45	163.0	"	"	65000	-	11	4750	1.75
8.2	6400	1.3	178.5	"	"	65000	-	9.9	5300	1.6
7.1	7300	1.15	208.3	"	"	65000	-	8.5	6100	1.4
6.5	8000	1.05	228.1	"	"	65000	-	7.8	6700	1.25
5.6	8900	1.05	262.5	BG90G50-../DHE11LA4C	369	65000	-	6.8	7200	1.3
4.9	10400	0.88	298.8	"	"	65000	-	5.9	8600	1.05
9.5	5500	3.1	154.8	BG100-../DHE11LA4C	469	90000	-	11.5	4550	3.7
8.2	6400	2.6	178.6	"	"	90000	-	9.9	5300	3.2
7.4	7000	2.4	198.8	"	"	90000	-	8.9	5900	2.8
6.3	8300	2.0	232.6	"	"	90000	-	7.6	6900	2.4
5.7	9200	1.85	259.0	"	"	90000	-	6.8	7700	2.2
5.5	9500	1.95	269.8	BG100Z-../DHE11LA4C	559	90000	-	6.6	7900	2.3
4.9	10700	1.75	300.4	"	"	90000	-	5.9	8900	2.1
4.3	12200	1.5	343.6	"	"	90000	-	5.2	10100	1.85
3.9	13400	1.4	382.6	"	"	90000	-	4.7	11100	1.65
3.2	16400	1.15	456.7	"	"	90000	-	3.9	13400	1.4
2.9	18100	1.0	508.5	"	"	90000	-	3.5	15000	1.25
2.5	21000	0.88	591.1	"	"	90000	-	3.0	17500	1.05
2.3	22800	0.81	658.1	"	"	90000	-	2.7	19400	0.95

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 7.5 kW

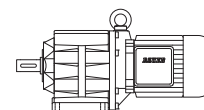


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
600	119	2.6	2.47	BG50-../DHE13LA4	101	2900	-	720	99	3.1
415	172	2.0	3.55	"	"	3300	-	500	143	2.4
300	235	1.7	4.91	"	"	3500	-	360	198	2.0
220	325	1.4	6.74	"	"	3750	-	265	270	1.65
168	425	1.2	8.70	"	"	5300	-	205	345	1.45
152	470	1.1	9.65	"	"	5600	-	183	390	1.35
122	580	0.99	12.06	"	"	5700	-	146	490	1.2
110	650	0.91	13.36	"	"	6100	-	132	540	1.1
295	240	2.9	4.98	BG60-../DHE13LA4	135	7800	-	355	200	3.4
215	330	2.4	6.88	"	"	8600	-	260	275	2.8
160	445	2.0	9.13	"	"	9800	-	193	370	2.4
145	490	1.85	10.12	"	"	10200	-	174	410	2.2
121	590	1.7	12.16	"	"	10800	-	145	490	2.0
109	650	1.55	13.47	"	"	11200	-	131	540	1.9
87	820	1.35	16.80	"	"	12000	-	105	680	1.65
79	900	1.25	18.62	"	"	12400	-	95	750	1.55
66	1080	1.1	22.40	"	"	13300	-	79	900	1.35
59	1210	0.99	24.82	"	"	13800	-	71	1000	1.2
50	1430	0.84	29.31	"	"	14800	-	61	1170	1.05
95	750	3.1	15.53	BG70-../DHE13LA4	165	12700	-	114	620	3.7
83	860	2.7	17.68	"	"	13400	-	100	710	3.2
70	1020	2.3	20.98	"	"	14600	-	84	850	2.7
64	1110	2.1	22.92	"	"	15100	-	77	930	2.5
54	1320	1.75	27.21	"	"	16400	-	65	1100	2.1
49.5	1440	1.6	29.69	"	"	16900	-	60	1190	1.95
41.5	1720	1.35	35.24	"	"	18300	-	50	1430	1.6
37.5	1910	1.2	39.22	"	"	19100	-	45	1590	1.45
31.5	2250	1.0	46.54	"	"	20000	-	38	1880	1.2
29	2450	0.94	50.40	"	"	20000	-	35	2000	1.15
56	1270	3.3	26.44	BG80-../DHE13LA4	219	17900	-	67	1060	4.0
50	1430	2.9	29.36	"	"	18900	-	60	1190	3.5
43	1660	2.5	34.22	"	"	20200	-	52	1370	3.1
38.5	1860	2.3	38.00	"	"	21300	-	46.5	1540	2.7
33.5	2100	2.0	43.94	"	"	22600	-	40.5	1760	2.4
30	2350	1.8	48.80	"	"	23800	-	36.5	1960	2.1
26	2750	1.55	57.24	"	"	25400	-	31	2300	1.85
23	3100	1.35	63.56	"	"	26000	-	28	2550	1.65
22	3250	1.3	66.40	BG80Z-../DHE13LA4	262	26000	-	27	2650	1.6
20	3550	1.2	73.73	"	"	26000	-	24	2950	1.4
17.5	4050	1.05	84.55	"	"	26000	-	21	3400	1.25
16	4450	0.94	93.89	"	"	26000	-	19	3750	1.1
27.5	2600	3.2	53.46	BG90-../DHE13LA4	308	65000	-	33	2150	3.9
26	2750	2.5	57.04	BG90Z-../DHE13LA4	364	65000	-	31	2300	3.0
23.5	3000	2.5	62.47	"	"	65000	-	28.5	2500	3.0
19.5	3650	2.3	76.61	"	"	65000	-	23	3100	2.7
17.5	4050	2.1	83.91	"	"	65000	-	21	3400	2.5
15.5	4600	1.85	96.53	"	"	65000	-	18.5	3850	2.2
14	5100	1.65	105.7	"	"	65000	-	17	4200	2.0
11.5	6200	1.35	127.1	"	"	65000	-	14	5100	1.65
10.5	6800	1.25	139.2	"	"	65000	-	13	5500	1.55
9.0	7900	1.05	163.0	"	"	65000	-	11	6500	1.3
8.2	8700	0.97	178.5	"	"	65000	-	9.9	7200	1.15
7.1	10000	0.84	208.3	"	"	65000	-	8.5	8400	1.0
6.7	10300	0.89	219.9	BG90G50-../DHE13LA4	380	65000	-	8.1	8500	1.1
14	5100	3.3	107.5	BG100-../DHE13LA4	480	90000	-	16.5	4300	3.9
12.5	5700	2.9	119.7	"	"	90000	-	15	4750	3.5
10.5	6800	2.5	139.1	"	"	90000	-	13	5500	3.1
9.5	7500	2.2	154.8	"	"	90000	-	11.5	6200	2.7
8.2	8700	1.95	178.6	"	"	90000	-	9.9	7200	2.3
7.4	9600	1.75	198.8	"	"	90000	-	8.9	8000	2.1

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

**P = 7.5 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
6.3	11300	1.5	232.6	BG100-../DHE13LA4	"	90000	-	7.6	9400	1.8
5.7	12500	1.35	259.0	"	"	90000	-	6.8	10500	1.6
5.5	13000	1.4	269.8	BG100Z-../DHE13LA4	571	90000	-	6.6	10800	1.7
4.9	14600	1.25	300.4	"	"	90000	-	5.9	12100	1.55
4.3	16600	1.1	343.6	"	"	90000	-	5.2	13700	1.35
3.9	18300	1.0	382.6	"	"	90000	-	4.7	15200	1.2
3.2	22300	0.83	456.7	"	"	90000	-	3.9	18300	1.0

**P = 9.5 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
600	151	2.0	2.47	BG50-../DHE16MA4	146	2900	-	720	126	2.4
415	215	1.6	3.55	"	"	3300	-	500	181	1.9
300	300	1.35	4.91	"	"	3500	-	365	245	1.6
220	410	1.1	6.74	"	"	3750	-	265	340	1.35
169	530	0.96	8.70	"	"	5300	-	205	440	1.15
153	590	0.89	9.65	"	"	5600	-	184	490	1.05
395	225	2.7	3.74	BG60-../DHE16MA4	180	7100	-	475	191	3.2
300	300	2.3	4.98	"	"	7800	-	360	250	2.8
215	420	1.85	6.88	"	"	8600	-	260	345	2.3
162	560	1.6	9.13	"	"	9800	-	194	465	1.9
146	620	1.45	10.12	"	"	10200	-	175	510	1.8
121	740	1.35	12.16	"	"	10800	-	146	620	1.6
110	820	1.25	13.47	"	"	11200	-	132	680	1.5
88	1030	1.1	16.80	"	"	12000	-	106	850	1.3
79	1140	1.0	18.62	"	"	12400	-	96	940	1.2
66	1370	0.88	22.40	"	"	13300	-	80	1130	1.05
123	730	3.2	11.97	BG70-../DHE16MA4	214	11200	-	148	610	3.8
113	800	2.9	13.08	"	"	11600	-	136	660	3.5
95	950	2.4	15.53	"	"	12700	-	114	790	2.9
84	1080	2.1	17.68	"	"	13400	-	101	890	2.6
71	1270	1.8	20.98	"	"	14600	-	85	1060	2.2
65	1390	1.65	22.92	"	"	15100	-	78	1160	2.0
55	1640	1.4	27.21	"	"	16400	-	66	1370	1.7
50	1810	1.25	29.69	"	"	16900	-	60	1510	1.5
42	2150	1.05	35.24	"	"	18300	-	51	1770	1.3
37.5	2400	0.96	39.22	"	"	19100	-	45.5	1990	1.15
32	2800	0.82	46.54	"	"	20000	-	38.5	2350	0.98
67	1350	3.1	22.09	BG80-../DHE16MA4	264	16500	-	81	1120	3.8
56	1620	2.6	26.44	"	"	17900	-	67	1350	3.1
51	1770	2.4	29.36	"	"	18900	-	61	1480	2.8
43	2100	2.0	34.22	"	"	20200	-	52	1740	2.4
39	2300	1.85	38.00	"	"	21300	-	47	1930	2.2
33.5	2700	1.55	43.94	"	"	22600	-	40.5	2200	1.9
30.5	2950	1.4	48.80	"	"	23800	-	36.5	2450	1.7
26	3450	1.2	57.24	"	"	25400	-	31	2900	1.45
23.5	3850	1.1	63.56	"	"	26000	-	28	3200	1.3
22.5	4000	1.05	66.40	BG80Z-../DHE16MA4	307	26000	-	27	3350	1.25
20	4500	0.93	73.73	"	"	26000	-	24.5	3700	1.15
17.5	5100	0.82	84.55	"	"	26000	-	21	4300	0.98
35.5	2550	3.3	41.85	BG90-../DHE16MA4	354	65000	-	42.5	2100	4.0
30.5	2950	2.8	48.82	"	"	65000	-	36.5	2450	3.4
27.5	3250	2.6	53.46	"	"	65000	-	33.5	2700	3.1
26	3450	1.95	57.04	BG90Z-../DHE16MA4	413	65000	-	31.5	2850	2.4
24	3750	2.0	62.47	"	"	65000	-	28.5	3150	2.4

6

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 9.5 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
19.5	4650	1.8	76.61	BG90Z-../DHE16MA4	"	65000	-	23.5	3850	2.2
18	5000	1.7	83.91	"	"	65000	-	21.5	4200	2.0
15.5	5800	1.45	96.53	"	"	65000	-	18.5	4900	1.7
14	6400	1.3	105.7	"	"	65000	-	17	5300	1.6
12	7500	1.1	127.1	"	"	65000	-	14	6400	1.3
11	8200	1.0	139.2	"	"	65000	-	13	6900	1.2
9.1	9900	0.85	163.0	"	"	65000	-	11	8200	1.0
16.5	5400	3.1	90.02	BG100-../DHE16MA4	524	90000	-	20	4500	3.7
14	6400	2.6	107.5	"	"	90000	-	16.5	5400	3.1
12.5	7200	2.3	119.7	"	"	90000	-	15	6000	2.8
11	8200	2.0	139.1	"	"	90000	-	13	6900	2.4
9.5	9500	1.75	154.8	"	"	90000	-	11.5	7800	2.2
8.3	10900	1.55	178.6	"	"	90000	-	10	9000	1.85
7.4	12200	1.4	198.8	"	"	90000	-	9.0	10000	1.7
6.4	14100	1.2	232.6	"	"	90000	-	7.7	11700	1.45
5.7	15900	1.05	259.0	"	"	90000	-	6.9	13100	1.3
5.5	16400	1.15	269.8	BG100Z-../DHE16MA4	616	90000	-	6.6	13700	1.35
4.9	18500	1.0	300.4	"	"	90000	-	5.9	15300	1.2
4.3	21000	0.88	343.6	"	"	90000	-	5.2	17400	1.05
3.9	23200	0.8	382.6	"	"	90000	-	4.7	19300	0.96

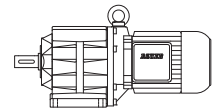
P = 11 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
600	175	1.75	2.47	BG50-../DHE16LA4	159	2900	-	720	145	2.1
415	250	1.4	3.55	"	"	3300	-	500	210	1.65
300	350	1.15	4.91	"	"	3500	-	365	285	1.4
220	475	0.95	6.74	"	"	3750	-	265	395	1.15
169	620	0.82	8.70	"	"	5300	-	205	510	1.0
590	178	3.0	2.52	BG60-../DHE16LA4	193	6200	-	710	147	3.6
395	265	2.3	3.74	"	"	7100	-	475	220	2.8
300	350	1.95	4.98	"	"	7800	-	360	290	2.4
215	485	1.6	6.88	"	"	8600	-	260	400	1.95
162	640	1.4	9.13	"	"	9800	-	194	540	1.65
146	710	1.3	10.12	"	"	10200	-	175	600	1.5
121	860	1.15	12.16	"	"	10800	-	146	710	1.4
110	950	1.05	13.47	"	"	11200	-	132	790	1.3
88	1190	0.93	16.80	"	"	12000	-	106	990	1.1
79	1320	0.87	18.62	"	"	12400	-	96	1090	1.05
146	710	3.2	10.09	BG70-../DHE16LA4	228	10200	-	176	590	3.9
123	850	2.7	11.97	"	"	11200	-	148	700	3.3
113	920	2.5	13.08	"	"	11600	-	136	770	3.0
95	1100	2.1	15.53	"	"	12700	-	114	920	2.5
84	1250	1.85	17.68	"	"	13400	-	101	1040	2.2
71	1470	1.55	20.98	"	"	14600	-	85	1230	1.85
65	1610	1.45	22.92	"	"	15100	-	78	1340	1.7
55	1910	1.2	27.21	"	"	16400	-	66	1590	1.45
50	2100	1.1	29.69	"	"	16900	-	60	1750	1.3
42	2500	0.92	35.24	"	"	18300	-	51	2050	1.1
37.5	2800	0.82	39.22	"	"	19100	-	45.5	2300	1.0
74	1410	3.0	19.89	BG80-../DHE16LA4	276	15500	-	89	1180	3.6
67	1560	2.7	22.09	"	"	16500	-	81	1290	3.3
56	1870	2.2	26.44	"	"	17900	-	67	1560	2.7
51	2050	2.0	29.36	"	"	18900	-	61	1720	2.4
43	2400	1.75	34.22	"	"	20200	-	52	2000	2.1
39	2650	1.6	38.00	"	"	21300	-	47	2200	1.9
33.5	3100	1.35	43.94	"	"	22600	-	40.5	2550	1.65
30.5	3400	1.25	48.80	"	"	23800	-	36.5	2850	1.45
26	4000	1.05	57.24	"	"	25400	-	31	3350	1.25
23.5	4450	0.94	63.56	"	"	26000	-	28	3750	1.1

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

**P = 11 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
22.5	4650	0.9	66.40	BG80Z-../DHE16LA4	320	26000	-	27	3850	1.1
20	5200	0.81	73.73	"	"	26000	-	24.5	4250	0.99
38.5	2700	3.1	38.21	BG90-../DHE16LA4	367	65000	-	46.5	2250	3.7
35.5	2950	2.8	41.85	"	"	65000	-	42.5	2450	3.4
30.5	3400	2.5	48.82	"	"	65000	-	36.5	2850	2.9
27.5	3800	2.2	53.46	"	"	65000	-	33.5	3100	2.7
26	4000	1.7	57.04	BG90Z-../DHE16LA4	426	65000	-	31.5	3300	2.1
24	4350	1.7	62.47	"	"	65000	-	28.5	3650	2.1
19.5	5300	1.6	76.61	"	"	65000	-	23.5	4450	1.9
18	5800	1.45	83.91	"	"	65000	-	21.5	4850	1.75
15.5	6700	1.25	96.53	"	"	65000	-	18.5	5600	1.5
14	7500	1.1	105.7	"	"	65000	-	17	6100	1.4
12	8700	0.97	127.1	"	"	65000	-	14	7500	1.1
11	9500	0.88	139.2	"	"	65000	-	13	8000	1.05
21	5000	3.2	70.69	BG100-../DHE16LA4	538	90000	-	25.5	4100	3.9
18.5	5600	3.0	80.85	"	"	90000	-	22	4750	3.5
16.5	6300	2.7	90.02	"	"	90000	-	20	5200	3.2
14	7500	2.2	107.5	"	"	90000	-	16.5	6300	2.7
12.5	8400	2.0	119.7	"	"	90000	-	15	7000	2.4
11	9500	1.75	139.1	"	"	90000	-	13	8000	2.1
9.5	11000	1.55	154.8	"	"	90000	-	11.5	9100	1.85
8.3	12600	1.35	178.6	"	"	90000	-	10	10500	1.6
7.4	14100	1.2	198.8	"	"	90000	-	9.0	11600	1.45
6.4	16400	1.0	232.6	"	"	90000	-	7.7	13600	1.25
5.7	18400	0.91	259.0	"	"	90000	-	6.9	15200	1.1
5.5	19100	0.97	269.8	BG100Z-../DHE16LA4	629	90000	-	6.6	15900	1.15
4.9	21400	0.86	300.4	"	"	90000	-	5.9	17800	1.05

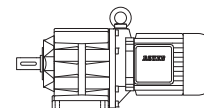
**P = 15 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
600	235	1.3	2.47	BG50-../DHE16XA4	169	2900	-	720	198	1.55
415	345	1.0	3.55	"	"	3300	-	500	285	1.2
300	475	0.84	4.91	"	"	3500	-	365	390	1.0
590	240	2.2	2.52	BG60-../DHE16XA4	203	6200	-	710	200	2.7
395	360	1.7	3.74	"	"	7100	-	475	300	2.0
300	475	1.45	4.98	"	"	7800	-	360	395	1.75
215	660	1.2	6.88	"	"	8600	-	260	550	1.4
162	880	1.0	9.13	"	"	9800	-	194	730	1.2
146	980	0.93	10.12	"	"	10200	-	175	810	1.15
121	1180	0.84	12.16	"	"	10800	-	146	980	1.0
210	680	3.2	7.14	BG70-../DHE16XA4	238	8800	-	250	570	3.8
174	820	2.8	8.48	"	"	9500	-	210	680	3.4
146	980	2.3	10.09	"	"	10200	-	176	810	2.8
123	1160	2.0	11.97	"	"	11200	-	148	960	2.4
113	1260	1.85	13.08	"	"	11600	-	136	1050	2.2
95	1500	1.55	15.53	"	"	12700	-	114	1250	1.85
84	1700	1.35	17.68	"	"	13400	-	101	1410	1.65
71	2000	1.15	20.98	"	"	14600	-	85	1680	1.35
65	2200	1.05	22.92	"	"	15100	-	78	1830	1.25
55	2600	0.88	27.21	"	"	16400	-	66	2150	1.05
50	2850	0.81	29.69	"	"	16900	-	60	2350	0.98
95	1500	2.8	15.62	BG80-../DHE16XA4	286	13700	-	114	1250	3.4
85	1680	2.5	17.35	"	"	14600	-	103	1390	3.0
74	1930	2.2	19.89	"	"	15500	-	89	1600	2.6
67	2100	2.0	22.09	"	"	16500	-	81	1760	2.4

# Stirrad-Getriebemotoren Reihe BG

## Auswahl - Stirradgetriebemotoren DHE - IE2

P = 15 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
56	2550	1.65	26.44	BG80-../DHE16XA4	"	17900	-	67	2100	2.0
51	2800	1.5	29.36	"	"	18900	-	61	2300	1.85
43	3300	1.25	34.22	"	"	20200	-	52	2750	1.55
39	3650	1.15	38.00	"	"	21300	-	47	3000	1.4
33.5	4250	0.99	43.94	"	"	22600	-	40.5	3500	1.2
30.5	4650	0.9	48.80	"	"	23800	-	36.5	3900	1.1
49.5	2850	2.9	29.78	BG90-../DHE16XA4	377	65000	-	60	2350	3.6
45.5	3100	2.7	32.62	"	"	65000	-	55	2600	3.2
38.5	3700	2.3	38.21	"	"	65000	-	46.5	3050	2.8
35.5	4000	2.1	41.85	"	"	65000	-	42.5	3350	2.5
30.5	4650	1.8	48.82	"	"	65000	-	36.5	3900	2.2
27.5	5200	1.6	53.46	"	"	65000	-	33.5	4250	2.0
26	5500	1.25	57.04	BG90Z-../DHE16XA4	436	65000	-	31.5	4500	1.5
24	5900	1.25	62.47	"	"	65000	-	28.5	5000	1.5
19.5	7300	1.15	76.61	"	"	65000	-	23.5	6000	1.4
18	7900	1.05	83.91	"	"	65000	-	21.5	6600	1.25
15.5	9200	0.91	96.53	"	"	65000	-	18.5	7700	1.1
14	10200	0.82	105.7	"	"	65000	-	17	8400	1.0
32	4450	3.2	46.43	BG100-../DHE16XA4	548	90000	-	38.5	3700	3.8
28.5	5000	2.9	51.70	"	"	90000	-	34.5	4150	3.5
23.5	6000	2.6	63.49	"	"	90000	-	28	5100	3.0
21	6800	2.3	70.69	"	"	90000	-	25.5	5600	2.8
18.5	7700	2.1	80.85	"	"	90000	-	22	6500	2.5
16.5	8600	1.95	90.02	"	"	90000	-	20	7100	2.4
14	10200	1.65	107.5	"	"	90000	-	16.5	8600	1.95
12.5	11400	1.45	119.7	"	"	90000	-	15	9500	1.75
11	13000	1.3	139.1	"	"	90000	-	13	11000	1.55
9.5	15000	1.1	154.8	"	"	90000	-	11.5	12400	1.35
8.3	17200	0.98	178.6	"	"	90000	-	10	14300	1.15
7.4	19300	0.87	198.8	"	"	90000	-	9.0	15900	1.05

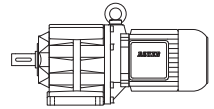
P = 18.5 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
600	290	1.05	2.47	BG50-../DHE18LA4	237	2900	-	720	245	1.25
415	425	0.82	3.55	"	"	3300	-	500	350	0.99
590	295	1.8	2.52	BG60-../DHE18LA4	266	6200	-	710	245	2.2
395	445	1.4	3.74	"	"	7100	-	475	370	1.65
300	580	1.2	4.98	"	"	7800	-	360	490	1.4
215	820	0.95	6.88	"	"	8600	-	260	670	1.15
162	1090	0.81	9.13	"	"	9800	-	194	910	0.98
300	580	2.6	4.95	BG70-../DHE18LA4	294	6900	-	360	490	3.1
255	690	2.5	5.87	"	"	8200	-	305	570	3.1
210	840	2.6	7.14	"	"	8800	-	250	700	3.1
174	1010	2.3	8.48	"	"	9500	-	210	840	2.7
146	1210	1.9	10.09	"	"	10200	-	176	1000	2.3
123	1430	1.6	11.97	"	"	11200	-	148	1190	1.95
113	1560	1.45	13.08	"	"	11600	-	136	1290	1.8
95	1850	1.25	15.53	"	"	12700	-	114	1540	1.5
84	2100	1.1	17.68	"	"	13400	-	101	1740	1.3
71	2450	0.94	20.98	"	"	14600	-	85	2050	1.1
65	2700	0.85	22.92	"	"	15100	-	78	2250	1.0
129	1360	3.1	11.43	BG80-../DHE18LA4	348	11600	-	155	1130	3.7
116	1520	2.8	12.69	"	"	12400	-	140	1260	3.3
95	1850	2.3	15.62	"	"	13700	-	114	1540	2.7
85	2050	2.0	17.35	"	"	14600	-	103	1710	2.5
74	2350	1.8	19.89	"	"	15500	-	89	1980	2.1
67	2600	1.6	22.09	"	"	16500	-	81	2150	1.95

# Stirnrad-Getriebemotoren Reihe BG

## Auswahl - Stirnradgetriebemotoren DHE - IE2

**P = 18.5 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
56	3150	1.35	26.44	BG80-../DHE18LA4	"	17900	-	67	2600	1.6
51	3450	1.2	29.36	"	"	18900	-	61	2850	1.45
43	4100	1.0	34.22	"	"	20200	-	52	3350	1.25
39	4500	0.93	38.00	"	"	21300	-	47	3750	1.1
33.5	5200	0.81	43.94	"	"	22600	-	40.5	4350	0.97
65	2700	3.1	22.62	BG90-../DHE18LA4	440	65000	-	79	2200	3.8
60	2900	2.9	24.78	"	"	65000	-	72	2450	3.4
49.5	3550	2.4	29.78	"	"	65000	-	60	2900	2.9
45.5	3850	2.2	32.62	"	"	65000	-	55	3200	2.6
38.5	4550	1.85	38.21	"	"	65000	-	46.5	3750	2.2
35.5	4950	1.7	41.85	"	"	65000	-	42.5	4150	2.0
30.5	5700	1.45	48.82	"	"	65000	-	36.5	4800	1.75
27.5	6400	1.3	53.46	"	"	65000	-	33.5	5200	1.6
26	6700	1.0	57.04	BG90Z-../DHE18LA4	493	65000	-	31.5	5600	1.2
24	7300	1.05	62.47	"	"	65000	-	28.5	6100	1.25
19.5	9000	0.93	76.61	"	"	65000	-	23.5	7500	1.1
18	9800	0.86	83.91	"	"	65000	-	21.5	8200	1.0
44	4000	3.2	33.71	BG100-../DHE18LA4	609	88500	-	53	3300	3.9
39.5	4450	3.0	37.54	"	"	90000	-	47.5	3700	3.6
32	5500	2.6	46.43	"	"	90000	-	38.5	4550	3.1
28.5	6100	2.4	51.70	"	"	90000	-	34.5	5100	2.8
23.5	7500	2.1	63.49	"	"	90000	-	28	6300	2.4
21	8400	1.9	70.69	"	"	90000	-	25.5	6900	2.3
18.5	9500	1.75	80.85	"	"	90000	-	22	8000	2.1
16.5	10700	1.55	90.02	"	"	90000	-	20	8800	1.9
14	12600	1.35	107.5	"	"	90000	-	16.5	10700	1.55
12.5	14100	1.2	119.7	"	"	90000	-	15	11700	1.45
11	16000	1.05	139.1	"	"	90000	-	13	13500	1.25
9.5	18500	0.91	154.8	"	"	90000	-	11.5	15300	1.1

**P = 22 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
300	700	2.1	4.95	BG70-../DHE18XA4	312	6900	-	360	580	2.6
255	820	2.1	5.87	"	"	8200	-	305	680	2.6
210	1000	2.2	7.14	"	"	8800	-	250	840	2.6
174	1200	1.9	8.48	"	"	9500	-	210	1000	2.3
146	1430	1.6	10.09	"	"	10200	-	176	1190	1.95
123	1700	1.35	11.97	"	"	11200	-	148	1410	1.65
113	1850	1.25	13.08	"	"	11600	-	136	1540	1.5
95	2200	1.05	15.53	"	"	12700	-	114	1840	1.25
84	2500	0.92	17.68	"	"	13400	-	101	2050	1.1
250	840	3.2	5.94	BG80-../DHE18XA4	366	8300	-	300	700	3.8
225	930	3.2	6.60	"	"	9100	-	270	770	3.8
178	1180	3.2	8.30	"	"	10400	-	215	970	3.9
160	1310	3.0	9.21	"	"	10800	-	193	1080	3.6
129	1620	2.6	11.43	"	"	11600	-	155	1350	3.1
116	1810	2.3	12.69	"	"	12400	-	140	1500	2.8
95	2200	1.9	15.62	"	"	13700	-	114	1840	2.3
85	2450	1.7	17.35	"	"	14600	-	103	2000	2.1
74	2800	1.5	19.89	"	"	15500	-	89	2350	1.8
67	3100	1.35	22.09	"	"	16500	-	81	2550	1.65
56	3750	1.1	26.44	"	"	17900	-	67	3100	1.35
51	4100	1.0	29.36	"	"	18900	-	61	3400	1.25
43	4850	0.87	34.22	"	"	20200	-	52	4000	1.05

# Stirnrad-Getriebemotoren Reihe BG

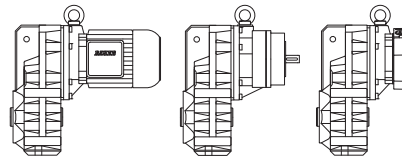
## Auswahl - Stirnradgetriebemotoren DHE - IE2

P = 22 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
82	2550	3.2	17.96	BG90-../DHE18XA4	458	59800	-	99	2100	3.9
75	2800	3.0	19.67	"	"	62400	-	90	2300	3.7
65	3200	2.6	22.62	"	"	65000	-	79	2650	3.2
60	3500	2.4	24.78	"	"	65000	-	72	2900	2.9
49.5	4200	2.0	29.78	"	"	65000	-	60	3500	2.4
45.5	4600	1.85	32.62	"	"	65000	-	55	3800	2.2
38.5	5400	1.55	38.21	"	"	65000	-	46.5	4500	1.85
35.5	5900	1.4	41.85	"	"	65000	-	42.5	4900	1.7
30.5	6800	1.25	48.82	"	"	65000	-	36.5	5700	1.45
27.5	7600	1.1	53.46	"	"	65000	-	33.5	6200	1.35
26	8000	0.85	57.04	BG90Z-../DHE18XA4	511	65000	-	31.5	6600	1.05
24	8700	0.86	62.47	"	"	65000	-	28.5	7300	1.05
44	4750	2.7	33.71	BG100-../DHE18XA4	627	88500	-	53	3950	3.3
39.5	5300	2.5	37.54	"	"	90000	-	47.5	4400	3.0
32	6500	2.2	46.43	"	"	90000	-	38.5	5400	2.6
28.5	7300	2.0	51.70	"	"	90000	-	34.5	6000	2.4
23.5	8900	1.75	63.49	"	"	90000	-	28	7500	2.1
21	10000	1.6	70.69	"	"	90000	-	25.5	8200	1.95
18.5	11300	1.45	80.85	"	"	90000	-	22	9500	1.75
16.5	12700	1.3	90.02	"	"	90000	-	20	10500	1.6
14	15000	1.1	107.5	"	"	90000	-	16.5	12700	1.3
12.5	16800	1.0	119.7	"	"	90000	-	15	14000	1.2
11	19100	0.88	139.1	"	"	90000	-	13	16100	1.05





Seite

## Flach Getriebemotoren Reihe BF Auswahl

165-238

### Beschreibung der Flachgetriebe

- Baugrößen
- Bauer-Betriebsfaktoren ( $f_b$ ) für Flach-Getriebemotoren
- Durchlaufbetrieb ohne Schalthäufigkeit  $Z \leq 1/h$
- Schaltbetrieb
- Bauer-Betriebsfaktor
- Erklärung der Stoßgrade
- Erklärung der Kurzzeichen
- Auswahltabellen der Flach-Getriebemotoren

# Flach-Getriebemotoren Reihe BF

## Beschreibung der Flachgetriebe

### Baugrößen

Bauer-Flach-Getriebemotoren der Reihe BF werden listenmäßig in 10 Baugrößen und mit Drehmomenten von 90 Nm bis 18.500 Nm geliefert. Höhere Drehmomente auf Anfrage. Die Getriebe haben ein kräftiges Guss-Gehäuse.

### Bauer-Betriebsfaktoren ( $f_B$ ) für Flach-Getriebemotoren

Für die Gesamtbeanspruchung eines Getriebes sind zahlreiche Einflussgrößen maßgebend; zu den wichtigsten gehören:

- mittleres Drehmoment (Bemessungsdrehmoment)
- tägliche Betriebszeit
- Stärke von Drehmomentstößen (Stoßgrad)
- Häufigkeit von Drehmomentstößen (Schaltbetrieb)

Diese Einflüsse können vereinfachend und praxisnah durch **Betriebsfaktoren** beschrieben werden. In den nachfolgenden Tabellen und Erläuterungen wird versucht, statt einer Klassifizierung von Arbeitsmaschinen eine objektive Beschreibung des **Stoßgrades** zu geben. Erfahrungsgemäß spielen dabei neben den von der Arbeitsmaschine verursachten Drehmomentstößen ( $M_x/M_N$ ) vor allem die Übertragungsmittel (Kupplungen, Ketten usw.) sowie die Massenverhältnisse eine entscheidende Rolle.

Weitere Informationen siehe Bauer-Sonderdruck SD32...

Durchlaufbetrieb ohne Schalthäufigkeit  $Z \leq 1/h$

### Faktor $f_1$ für Stoßgrad und Betriebszeit

Stoßgrad	Betriebszeit pro Tag $t_d$	>4 h	>8 h	>16 h
		$\leq 8$ h	$\leq 16$ h	$\leq 24$ h
I		0,8	1,0	1,2
II		1,05	1,25	1,45
III		1,45	1,55	1,7

Schaltbetrieb

### Faktor $f_2$ für Stoßgrad und Schalthäufigkeit

Schalthäufigkeit im Einschicht-Betrieb  $t_d \leq 8$  h/d

Stoßgrad	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	0,95	1,1	1,15
II	1,2	1,35	1,4
III	1,55	1,6	1,6

Schalthäufigkeit im Mehrschicht-Betrieb  $t_d > 8$  h/d

Stoßgrad	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	1,3	1,45	1,5
II	1,5	1,6	1,65
III	1,75	1,8	1,8

Bauer-Betriebsfaktor

Bauer-Betriebsfaktor  $f_B = f_1$  oder  $f_B = f_2$

Beispiel: Stoßgrad II bei  $Z = 100$  Schaltungen pro Stunde und Mehrschichtbetrieb ergibt den Betriebsfaktor  $f_B = f_2 = 1,5$

Erklärung der Stoßgrade

### Stoßgrad I:

Gleichförmig ohne Stöße. Alle folgenden Bedingungen müssen erfüllt werden:

- $F_I \leq 1,3$
- $M_x/M_N \leq 1,0$
- Übertragungsmittel stoßdämpfend (z.B. hochelastische, spielfreie Kupplung,  $\varphi_N \geq 5^\circ$ )

### Stoßgrad II:

Mäßige Stöße. Mindestens eine der folgenden Bedingungen trifft zu:

- $1,3 < FI \leq 4$
- $1 < M_x/M_N \leq 1,6$
- Übertragungsmittel stoßneutral (z.B. Zahnräder, spielfreie starre Kupplung oder elastische Kupplung mit  $\varphi_N < 5^\circ$ )

### Stoßgrad III:

Heftige Stöße. Mindestens eine der folgenden Bedingungen trifft zu:

- $FI > 4$
- $1,6 < M_x/M_N \leq 2,0$
- Übertragungsmittel stoßverstärkend (z.B. spielbehaftete Kupplung oder Kettenantrieb)

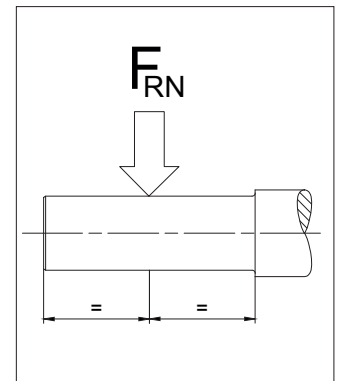
### Erklärung der Kurzzeichen

Z	Schaltbetrieb: Schaltungen pro Stunde
$t_d$	Tägliche Betriebszeit in Stunden (h/d)
FI	Trägheitsfaktor $FI = (J_{ext} + J_{rot})/J_{rot}$
$J_{ext}$	Massenträgheitsmoment der anzutreibenden Maschine, bezogen auf die Läuferwelle des Motors (kgm <sup>2</sup> )
$J_{rot}$	Massenträgheitsmoment des Motorläufers (kgm <sup>2</sup> )
$M_x$	Höchstes Stoßmoment, das betriebsbedingt oder im Störfall über das statische Lastmoment hinaus eintreten kann
$M_N$	Erforderliches statisches Lastmoment für die Anwendung
$M_x/M_N$	Relatives Stoßmoment - Faktor
$\varphi_N$	Verdrehwinkel der elastischen Kupplung bei Bemessungsmoment

### Auswahltabellen der Flach-Getriebemotoren

### Erläuterungen zu den Abkürzungen

P	Bemessungsleistung
$n_2$	Bemessungsdrehzahl der Arbeitswelle
i	Getriebe-Untersetzung
$M_2$	Bemessungsmoment an der Arbeitswelle
$f_B$	Bauer-Betriebsfaktor
$F_{RN}$	Maximal zulässige Radialkraft bei normaler Lagerung
$F_{RV}$	Maximal zulässige Radialkraft bei verstärkter Lagerung jeweils bei Standard-Zapfenwelle (Code -.1 und -.2)



Mit den Auswahltabellen kann die Größe des Getriebemotors festgelegt werden. Die Ausführung des Getriebes und der Arbeitswelle kann mittels Codezahlen eindeutig definiert werden (siehe Kapitel 11 „Maßbilder Flach-Getriebemotoren“).

Die mit (\*) gekennzeichneten Drehmomente sind maximal zulässige Werte bei Betriebsfaktor  $f_B = 1,0$ .

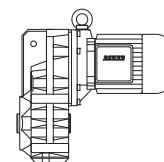
### Motorleistung-Überlastungsschutz

Die Nennleistung der Motoren, vor allem in Verbindung mit den vier- und mehrstufigen Getrieben, sind z. T. reichlich bemessen. Der Bemessungsstrom stellt aus diesem Grunde wie auch bei kleinen Motorleistungen keinen Maßstab für die Getriebeauslastung dar und kann nicht als Überlastungsschutz für das Getriebe genutzt werden. Bei Gefahr von zu hoher Belastung oder Blockierung ist es sinnvoll, das Getriebe durch mechanische Einrichtung (z. B. Rutschkupplung, Rutschnabe, Scherstift o. ä.) zu schützen.

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 0.03 kW

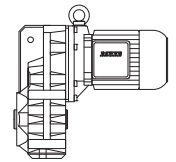


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.0	31.5	7.6	151.2	<b>BF10Z-../D04LA4</b>	21	6400	-	11	26	9.2
8.2	34.5	7.0	166.2	"	"	6400	-	9.8	29	8.3
7.5	38	6.3	180.1	"	"	6400	-	9.0	31.5	7.6
6.9	41.5	5.8	198.0	"	"	6400	-	8.2	34.5	7.0
6.3	45	5.3	214.5	"	"	6400	-	7.6	37.5	6.4
5.8	49	4.9	235.8	"	"	6400	-	6.9	41.5	5.8
5.3	54	4.4	257.4	"	"	6400	-	6.3	45	5.3
4.8	59	4.1	283.1	"	"	6400	-	5.8	49	4.9
4.2	68	3.5	324.3	"	"	6400	-	5.0	57	4.2
3.8	75	3.2	356.6	"	"	6400	-	4.6	62	3.9
3.6	79	3.0	380.2	"	"	6400	-	4.3	66	3.6
3.3	86	2.8	418.0	"	"	6400	-	3.9	73	3.3
2.9	98	2.4	469.5	"	"	6400	-	3.5	81	3.0
2.6	110	2.2	539.1	"	"	6400	-	3.1	92	2.6
2.3	124	1.95	592.8	"	"	6400	-	2.8	102	2.4
1.8	97	2.7	768.2	<b>BF10G06-../D04LA4</b>	25	6400	-	2.2	68	3.8
1.6	110	2.4	845.1	"	"	6400	-	2.0	75	3.5
1.4	130	2.0	994.0	"	"	6400	-	1.7	94	2.8
1.2	159	1.65	1190	"	"	6400	-	1.4	125	2.1
0.95	210	1.25	1452	"	"	6400	-	1.2	150	1.75
0.8	260*	1.0	1744	"	"	6400	-	0.95	260	1.0
0.65	260*	1.0	2096	"	"	6400	-	0.8	260	1.0
0.55	260*	1.0	2467	"	"	6400	-	0.7	260	1.0
0.46	260*	1.0	2952	"	"	6400	-	0.55	260	1.0
0.42	260*	1.0	3220	"	"	6400	-	0.55	260	1.0
0.35	260*	1.0	3942	"	"	6400	-	0.42	260	1.0
0.3	260*	1.0	4569	"	"	6400	-	0.36	260	1.0
0.24	260*	1.0	5709	"	"	6400	-	0.29	260	1.0
0.21	260*	1.0	6550	"	"	6400	-	0.25	260	1.0
0.19	260*	1.0	7144	"	"	6400	-	0.23	260	1.0
0.16	260*	1.0	8681	"	"	6400	-	0.19	260	1.0
0.15	260*	1.0	9471	"	"	6400	-	0.18	260	1.0
1.2	162	2.8	1140	<b>BF20G06-../D04LA4</b>	31	7900	-	1.5	114	4.0
1.0	200	2.3	1392	"	"	7900	-	1.2	154	3.0
0.9	230	2.0	1533	"	"	7900	-	1.1	173	2.7
0.8	265	1.75	1764	"	"	7900	-	0.95	210	2.2
0.65	345	1.35	2192	"	"	7900	-	0.75	285	1.6
0.55	410	1.1	2579	"	"	7900	-	0.65	330	1.4
0.48	460*	1.0	2829	"	"	7900	-	0.6	460	1.0
0.44	460*	1.0	3086	"	"	7900	-	0.55	460	1.0
0.36	460*	1.0	3778	"	"	7900	-	0.43	460	1.0
0.31	460*	1.0	4379	"	"	7900	-	0.37	460	1.0
0.25	460*	1.0	5471	"	"	7900	-	0.3	460	1.0
0.2	460*	1.0	6847	"	"	7900	-	0.24	460	1.0
0.17	460*	1.0	8320	"	"	7900	-	0.2	460	1.0
0.15	460*	1.0	9077	"	"	7900	-	0.18	460	1.0
1.0	200	3.2	1404	<b>BF30G06-../D04LA4</b>	41	7400	-	1.2	153	4.1
0.85	245	2.6	1686	"	"	7400	-	1.0	196	3.2
0.7	315	2.0	2026	"	"	7400	-	0.8	260	2.4
0.6	370	1.7	2386	"	"	7400	-	0.7	305	2.1
0.48	485	1.3	2854	"	"	7400	-	0.6	365	1.75
0.39	610	1.05	3493	"	"	7400	-	0.47	485	1.3
0.36	630*	1.0	3811	"	"	7400	-	0.43	630	1.0
0.31	630*	1.0	4417	"	"	7400	-	0.37	630	1.0
0.27	630*	1.0	5060	"	"	7400	-	0.33	630	1.0
0.22	630*	1.0	6333	"	"	7400	-	0.26	630	1.0
0.19	630*	1.0	7206	"	"	7400	-	0.23	630	1.0
0.18	630*	1.0	7861	"	"	7400	-	0.21	630	1.0
0.15	630*	1.0	9157	"	"	7400	-	0.18	630	1.0

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 0.04 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.0	42	5.7	151.2	<b>BF10Z-../D04LA4</b>	21	6400	-	11	34.5	7.0
8.2	46.5	5.2	166.2	"	"	6400	-	9.8	38.5	6.2
7.5	50	4.8	180.1	"	"	6400	-	9.0	42	5.7
6.9	55	4.4	198.0	"	"	6400	-	8.2	46.5	5.2
6.3	60	4.0	214.5	"	"	6400	-	7.6	50	4.8
5.8	65	3.7	235.8	"	"	6400	-	6.9	55	4.4
5.3	72	3.3	257.4	"	"	6400	-	6.3	60	4.0
4.8	79	3.0	283.1	"	"	6400	-	5.8	65	3.7
4.2	90	2.7	324.3	"	"	6400	-	5.0	76	3.2
3.8	100	2.4	356.6	"	"	6400	-	4.6	83	2.9
3.6	106	2.3	380.2	"	"	6400	-	4.3	88	2.7
3.3	115	2.1	418.0	"	"	6400	-	3.9	97	2.5
2.9	131	1.85	469.5	"	"	6400	-	3.5	109	2.2
2.6	146	1.65	539.1	"	"	6400	-	3.1	123	1.95
2.3	166	1.45	592.8	"	"	6400	-	2.8	136	1.75
2.1	119	2.2	643.8	<b>BF10G06-../D04LA4</b>	25	6400	-	2.6	84	3.1
1.8	150	1.75	768.2	"	"	6400	-	2.2	111	2.3
1.6	170	1.55	845.1	"	"	6400	-	2.0	122	2.1
1.4	199	1.3	994.0	"	"	6400	-	1.7	150	1.75
1.2	235	1.1	1190	"	"	6400	-	1.4	193	1.35
3.0	127	3.3	460.0	<b>BF20Z-../D04LA4</b>	28	7900	-	3.6	106	4.0
1.9	141	3.3	736.1	<b>BF20G06-../D04LA4</b>	31	7900	-	2.3	106	4.3
1.7	159	2.9	810.0	"	"	7900	-	2.0	125	3.7
1.5	183	2.5	952.7	"	"	7900	-	1.8	141	3.3
1.2	240	1.9	1140	"	"	7900	-	1.5	178	2.6
1.0	295	1.55	1392	"	"	7900	-	1.2	230	2.0
0.9	335	1.35	1533	"	"	7900	-	1.1	260	1.75
0.8	385	1.2	1764	"	"	7900	-	0.95	310	1.5
1.2	240	2.6	1150	<b>BF30G06-../D04LA4</b>	41	7400	-	1.5	177	3.6
1.1	265	2.4	1286	"	"	7400	-	1.3	210	3.0
1.0	295	2.1	1404	"	"	7400	-	1.2	230	2.7
0.85	355	1.75	1686	"	"	7400	-	1.0	290	2.2
0.7	450	1.4	2026	"	"	7400	-	0.8	380	1.65
0.6	530	1.2	2386	"	"	7400	-	0.7	440	1.45

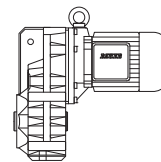
**P = 0.06 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
24	23.5	10	56.39	<b>BF10-../D06LA4</b>	23	4550	-	29	19.7	12
22	26	9.2	61.55	"	"	4700	-	26.5	21.5	11
20	28.5	8.4	67.69	"	"	4900	-	24	23.5	10
17.5	32.5	7.4	77.55	"	"	5100	-	21	27	8.9
16	35.5	6.8	85.27	"	"	5300	-	19	30	8.0
15	38	6.3	90.91	"	"	5400	-	18	31.5	7.6
14	40.5	5.9	99.97	"	"	5600	-	16.5	34.5	7.0
12.5	45.5	5.3	112.3	"	"	5900	-	14.5	39.5	6.1
11	52	4.6	123.5	"	"	6100	-	13.5	42	5.7
10.5	54	4.4	128.9	"	"	6200	-	13	44	5.5
9.6	59	4.1	141.8	"	"	6400	-	11.5	49.5	4.8
7.5	76	3.2	180.1	<b>BF10Z-../D06LA4</b>	24	6400	-	9.0	63	3.8
6.9	83	2.9	198.0	"	"	6400	-	8.2	69	3.5
6.3	90	2.7	214.5	"	"	6400	-	7.6	75	3.2
5.8	98	2.4	235.8	"	"	6400	-	6.9	83	2.9
5.3	108	2.2	257.4	"	"	6400	-	6.3	90	2.7
4.8	119	2.0	283.1	"	"	6400	-	5.8	98	2.4

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 0.06 kW



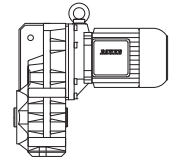
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
4.2	136	1.75	324.3	<b>BF10Z-../D06LA4</b>	"	6400	-	5.0	114	2.1
3.8	150	1.6	356.6	"	"	6400	-	4.6	124	1.95
3.6	159	1.5	380.2	"	"	6400	-	4.3	133	1.8
3.3	173	1.4	418.0	"	"	6400	-	3.9	146	1.65
2.9	197	1.2	469.5	"	"	6400	-	3.5	163	1.45
2.6	220	1.1	539.1	"	"	6400	-	3.1	184	1.3
2.3	245	0.98	592.8	"	"	6400	-	2.8	200	1.2
2.1	210	1.25	643.8	<b>BF10G06-../D06LA4</b>	28	6400	-	2.6	157	1.65
1.8	255	1.0	768.2	"	"	6400	-	2.2	198	1.3
1.6	290	0.9	845.1	"	"	6400	-	2.0	215	1.2
4.2	136	3.1	325.2	<b>BF20Z-../D06LA4</b>	31	7900	-	5.0	114	3.7
4.0	143	2.9	339.1	"	"	7900	-	4.8	119	3.5
3.7	154	2.7	373.1	"	"	7900	-	4.4	130	3.2
3.3	173	2.4	418.1	"	"	7900	-	3.9	146	2.9
3.0	191	2.2	460.0	"	"	7900	-	3.6	159	2.6
2.7	157	2.9	513.7	<b>BF20G06-../D06LA4</b>	34	7900	-	3.2	124	3.7
2.2	200	2.3	617.0	"	"	7900	-	2.7	152	3.0
1.9	240	1.9	736.1	"	"	7900	-	2.3	189	2.4
1.7	270	1.7	810.0	"	"	7900	-	2.0	220	2.1
1.5	310	1.5	952.7	"	"	7900	-	1.8	245	1.9
1.2	400	1.15	1140	"	"	7900	-	1.5	305	1.5
1.0	485	0.95	1392	"	"	7900	-	1.2	390	1.2
3.3	173	3.3	412.6	<b>BF30Z-../D06LA4</b>	42	7400	-	4.0	143	4.0
3.0	191	3.0	463.3	"	"	7400	-	3.5	163	3.5
2.6	220	2.6	537.0	"	"	7400	-	3.1	184	3.1
2.3	245	2.3	590.7	"	"	7400	-	2.8	200	2.9
2.2	200	3.2	622.4	<b>BF30G06-../D06LA4</b>	45	7400	-	2.7	151	4.2
2.0	225	2.8	705.1	"	"	7400	-	2.3	192	3.3
1.7	270	2.3	817.1	"	"	7400	-	2.0	220	2.9
1.5	310	2.0	961.1	"	"	7400	-	1.7	265	2.4
1.2	400	1.6	1150	"	"	7400	-	1.5	305	2.1
1.1	435	1.45	1286	"	"	7400	-	1.3	355	1.75
1.0	485	1.3	1404	"	"	7400	-	1.2	390	1.6
0.85	580	1.1	1686	"	"	7400	-	1.0	480	1.3
0.95	340	2.9	1484	<b>BF40G10-../D06LA4</b>	58	10600	-	1.1	255	3.9
0.75	460	2.2	1810	"	"	10600	-	0.9	335	3.0
0.7	500	2.0	1997	"	"	10600	-	0.85	360	2.8
0.55	710	1.4	2536	"	"	10600	-	0.65	550	1.8
0.49	840	1.2	2810	"	"	10600	-	0.6	620	1.6
0.7	520	2.7	2059	<b>BF50G10-../D06LA4</b>	86	13600	-	0.8	415	3.4
0.6	640	2.2	2360	"	"	13600	-	0.7	510	2.7
0.49	860	1.65	2810	"	"	13600	-	0.6	640	2.2
0.41	1090	1.3	3348	"	"	13600	-	0.49	860	1.65
0.34	1370	1.0	4019	"	"	13600	-	0.41	1090	1.3
0.42	860	2.9	3237	<b>BF60G20-../D06LA4</b>	134	15300	43300	0.55	530	4.7
0.35	1130	2.2	3883	"	"	15300	43300	0.42	860	2.9
0.3	1400	1.8	4646	"	"	15300	43300	0.35	1130	2.2
0.26	1700	1.45	5241	"	"	15300	43300	0.31	1340	1.85
0.23	1980	1.25	6014	"	"	15300	43300	0.27	1620	1.55
0.21	2200	1.15	6679	"	"	15300	43300	0.25	1790	1.4
0.24	1890	3.0	5691	<b>BF70G20-../D06LA4</b>	212	16100	47700	0.29	1480	3.9
0.21	2200	2.6	6530	"	"	16100	47700	0.25	1800	3.2
0.19	2500	2.3	7248	"	"	16100	47700	0.23	2000	2.9
0.17	2850	2.0	8052	"	"	16100	47700	0.21	2200	2.6

7

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 0.09 kW

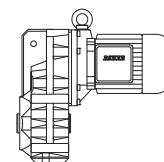


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
34	25	9.6	39.75	<b>BF10-../D06LA4</b>	23	3950	-	41	20.5	12
31.5	27	8.9	43.06	"	"	4100	-	38	22.5	11
29	29.5	8.1	47.35	"	"	4250	-	34.5	24.5	9.8
26.5	32	7.5	51.28	"	"	4400	-	32	26.5	9.1
24	35.5	6.8	56.39	"	"	4550	-	29	29.5	8.1
22	39	6.2	61.55	"	"	4700	-	26.5	32	7.5
20	42.5	5.6	67.69	"	"	4900	-	24	35.5	6.8
17.5	49	4.9	77.55	"	"	5100	-	21	40.5	5.9
16	53	4.5	85.27	"	"	5300	-	19	45	5.3
15	57	4.2	90.91	"	"	5400	-	18	47.5	5.1
14	61	3.9	99.97	"	"	5600	-	16.5	52	4.6
12.5	68	3.5	112.3	"	"	5900	-	14.5	59	4.1
11	78	3.1	123.5	"	"	6100	-	13.5	63	3.8
10.5	81	3.0	128.9	"	"	6200	-	13	66	3.6
9.6	89	2.7	141.8	"	"	6400	-	11.5	74	3.2
9.0	95	2.5	151.2	<b>BF10Z-../D06LA4</b>	24	6400	-	11	78	3.1
8.2	104	2.3	166.2	"	"	6400	-	9.8	87	2.8
7.5	114	2.1	180.1	"	"	6400	-	9.0	95	2.5
6.9	124	1.95	198.0	"	"	6400	-	8.2	104	2.3
6.3	136	1.75	214.5	"	"	6400	-	7.6	113	2.1
5.8	148	1.6	235.8	"	"	6400	-	6.9	124	1.95
5.3	162	1.5	257.4	"	"	6400	-	6.3	136	1.75
4.8	179	1.35	283.1	"	"	6400	-	5.8	148	1.6
4.2	200	1.2	324.3	"	"	6400	-	5.0	171	1.4
3.8	225	1.05	356.6	"	"	6400	-	4.6	186	1.3
3.6	235	1.0	380.2	"	"	6400	-	4.3	199	1.2
3.3	260	0.92	418.0	"	"	6400	-	3.9	220	1.1
2.9	295	0.81	469.5	"	"	6400	-	3.5	245	0.98
2.6	270	0.96	536.0	<b>BF10G06-../D06LA4</b>	28	6400	-	3.1	220	1.2
6.3	136	3.1	216.9	<b>BF20Z-../D06LA4</b>	31	7900	-	7.5	114	3.7
5.8	148	2.8	235.9	"	"	7900	-	6.9	124	3.4
5.3	162	2.6	259.6	"	"	7900	-	6.3	136	3.1
4.6	186	2.3	295.5	"	"	7900	-	5.5	156	2.7
4.2	200	2.1	325.2	"	"	7900	-	5.0	171	2.5
4.0	210	2.0	339.1	"	"	7900	-	4.8	179	2.3
3.7	230	1.85	373.1	"	"	7900	-	4.4	195	2.2
3.3	260	1.6	418.1	"	"	7900	-	3.9	220	1.9
3.0	285	1.45	460.0	"	"	7900	-	3.6	235	1.8
2.7	260	1.75	513.7	<b>BF20G06-../D06LA4</b>	34	7900	-	3.2	210	2.2
2.2	330	1.4	617.0	"	"	7900	-	2.7	255	1.8
1.9	390	1.2	736.1	"	"	7900	-	2.3	310	1.5
1.7	440	1.05	810.0	"	"	7900	-	2.0	360	1.3
1.5	500	0.92	952.7	"	"	7900	-	1.8	405	1.15
4.7	182	3.2	289.8	<b>BF30Z-../D06LA4</b>	42	7400	-	5.6	153	3.8
4.4	195	2.9	310.7	"	"	7400	-	5.3	162	3.5
4.0	210	2.7	341.8	"	"	7400	-	4.8	179	3.2
3.6	235	2.4	375.1	"	"	7400	-	4.4	195	2.9
3.3	260	2.2	412.6	"	"	7400	-	4.0	210	2.7
3.0	285	2.0	463.3	"	"	7400	-	3.5	245	2.3
2.6	330	1.75	537.0	"	"	7400	-	3.1	275	2.1
2.3	370	1.55	590.7	"	"	7400	-	2.8	305	1.9
2.2	330	1.9	622.4	<b>BF30G06-../D06LA4</b>	45	7400	-	2.7	255	2.5
2.0	370	1.7	705.1	"	"	7400	-	2.3	315	2.0
1.7	435	1.45	817.1	"	"	7400	-	2.0	360	1.75
1.5	500	1.25	961.1	"	"	7400	-	1.7	430	1.45
1.2	630	1.0	1150	"	"	7400	-	1.5	495	1.25
1.1	690	0.91	1286	"	"	7400	-	1.3	570	1.1
1.0	770	0.82	1404	"	"	7400	-	1.2	630	1.0

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 0.09 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
3.0	285	3.2	459.1	<b>BF40Z-../D06LA4</b>	53	10600	-	3.6	235	3.8
2.7	315	2.9	514.6	"	"	10600	-	3.2	265	3.4
2.4	355	2.5	566.1	"	"	10600	-	2.9	295	3.1
1.5	350	2.9	928.9	<b>BF40G10-../D06LA4</b>	58	10600	-	1.8	255	3.9
1.3	420	2.4	1106	"	"	10600	-	1.5	330	3.0
1.1	540	1.85	1324	"	"	10600	-	1.3	425	2.4
0.95	640	1.55	1484	"	"	10600	-	1.1	510	1.95
0.75	840	1.2	1810	"	"	10600	-	0.9	650	1.55
0.7	910	1.1	1997	"	"	10600	-	0.85	690	1.45
1.2	500	2.8	1203	<b>BF50G10-../D06LA4</b>	86	13600	-	1.4	400	3.5
1.0	620	2.3	1359	"	"	13600	-	1.2	475	2.9
0.9	680	2.1	1520	"	"	13600	-	1.1	510	2.7
0.85	730	1.9	1684	"	"	13600	-	1.0	570	2.5
0.7	920	1.5	2059	"	"	13600	-	0.8	770	1.8
0.6	1120	1.25	2360	"	"	13600	-	0.7	920	1.5
0.7	780	3.2	1955	<b>BF60G20-../D06LA4</b>	134	15300	43300	0.85	560	4.5
0.65	860	2.9	2172	"	"	15300	43300	0.75	680	3.7
0.49	1250	2.0	2781	"	"	15300	43300	0.6	930	2.7
0.42	1540	1.6	3237	"	"	15300	43300	0.55	1060	2.4
0.35	1950	1.3	3883	"	"	15300	43300	0.42	1540	1.6
0.3	2350	1.05	4646	"	"	15300	43300	0.35	1950	1.3
0.34	2000	2.9	4090	<b>BF70G20-../D06LA4</b>	212	16100	47700	0.4	1650	3.5
0.3	2350	2.4	4542	"	"	16100	47700	0.36	1890	3.0
0.27	2650	2.2	5124	"	"	16100	47700	0.32	2150	2.7
0.24	3050	1.85	5691	"	"	16100	47700	0.29	2450	2.3
0.21	3600	1.6	6530	"	"	16100	47700	0.25	2900	1.95
0.19	4000	1.45	7248	"	"	16100	47700	0.23	3200	1.8
0.17	4550	1.25	8052	"	"	16100	47700	0.21	3600	1.6

P = 0.12 kW

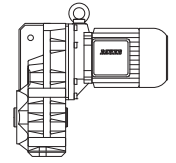
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
47.5	24	10	28.47	<b>BF10-../D06LA4</b>	23	3450	-	57	20	12
43.5	26	9.2	31.31	"	"	3600	-	52	22	11
37.5	30.5	7.9	36.15	"	"	3800	-	45	25	9.6
34	33.5	7.2	39.75	"	"	3950	-	41	27.5	8.7
31.5	36	6.7	43.06	"	"	4100	-	38	30	8.0
29	39.5	6.1	47.35	"	"	4250	-	34.5	33	7.3
26.5	43	5.6	51.28	"	"	4400	-	32	35.5	6.8
24	47.5	5.1	56.39	"	"	4550	-	29	39.5	6.1
22	52	4.6	61.55	"	"	4700	-	26.5	43	5.6
20	57	4.2	67.69	"	"	4900	-	24	47.5	5.1
17.5	65	3.7	77.55	"	"	5100	-	21	54	4.4
16	71	3.4	85.27	"	"	5300	-	19	60	4.0
15	76	3.2	90.91	"	"	5400	-	18	63	3.8
14	81	3.0	99.97	"	"	5600	-	16.5	69	3.5
12.5	91	2.6	112.3	"	"	5900	-	14.5	79	3.0
11	104	2.3	123.5	"	"	6100	-	13.5	84	2.9
10.5	109	2.2	128.9	"	"	6200	-	13	88	2.7
9.6	119	2.0	141.8	"	"	6400	-	11.5	99	2.4
9.0	127	1.9	151.2	<b>BF10Z-../D06LA4</b>	24	6400	-	11	104	2.3
8.2	139	1.75	166.2	"	"	6400	-	9.8	116	2.1
7.5	152	1.6	180.1	"	"	6400	-	9.0	127	1.9
6.9	166	1.45	198.0	"	"	6400	-	8.2	139	1.75
6.3	181	1.35	214.5	"	"	6400	-	7.6	150	1.6
5.8	197	1.2	235.8	"	"	6400	-	6.9	166	1.45



# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 0.12 kW

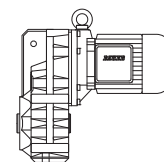


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
5.3	215	1.1	257.4	<b>BF10Z-../D06LA4</b>	"	6400	-	6.3	181	1.35
4.8	235	1.0	283.1	"	"	6400	-	5.8	197	1.2
4.2	270	0.89	324.3	"	"	6400	-	5.0	225	1.05
3.8	300	0.8	356.6	"	"	6400	-	4.6	245	0.98
3.6	275	0.95	377.9	<b>BF10G06-../D06LA4</b>	28	6400	-	4.3	225	1.15
3.2	310	0.84	424.5	"	"	6400	-	3.9	245	1.05
8.7	131	3.2	155.4	<b>BF20Z-../D06LA4</b>	31	7900	-	10.5	109	3.9
8.3	138	3.0	164.3	"	"	7900	-	9.9	115	3.7
7.5	152	2.8	180.8	"	"	7900	-	9.0	127	3.3
6.9	166	2.5	197.1	"	"	7900	-	8.3	138	3.0
6.3	181	2.3	216.9	"	"	7900	-	7.5	152	2.8
5.8	197	2.1	235.9	"	"	7900	-	6.9	166	2.5
5.3	215	1.95	259.6	"	"	7900	-	6.3	181	2.3
4.6	245	1.7	295.5	"	"	7900	-	5.5	205	2.0
4.2	270	1.55	325.2	"	"	7900	-	5.0	225	1.85
4.0	285	1.45	339.1	"	"	7900	-	4.8	235	1.8
3.7	305	1.4	373.1	"	"	7900	-	4.4	260	1.6
3.3	345	1.2	418.1	"	"	7900	-	3.9	290	1.45
3.0	380	1.1	460.0	"	"	7900	-	3.6	315	1.35
2.7	370	1.25	513.7	<b>BF20G06-../D06LA4</b>	34	7900	-	3.2	300	1.55
2.2	460	1.0	617.0	"	"	7900	-	2.7	360	1.3
1.9	540	0.85	736.1	"	"	7900	-	2.3	435	1.05
6.1	187	3.1	224.8	<b>BF30Z-../D06LA4</b>	42	7400	-	7.3	156	3.7
5.5	205	2.8	247.3	"	"	7400	-	6.6	173	3.3
5.2	220	2.6	263.5	"	"	7400	-	6.2	184	3.1
4.7	240	2.4	289.8	"	"	7400	-	5.6	200	2.9
4.4	260	2.2	310.7	"	"	7400	-	5.3	215	2.7
4.0	285	2.0	341.8	"	"	7400	-	4.8	235	2.4
3.6	315	1.85	375.1	"	"	7400	-	4.4	260	2.2
3.3	345	1.65	412.6	"	"	7400	-	4.0	285	2.0
3.0	380	1.5	463.3	"	"	7400	-	3.5	325	1.75
2.6	440	1.3	537.0	"	"	7400	-	3.1	365	1.6
2.3	495	1.15	590.7	"	"	7400	-	2.8	405	1.4
2.2	460	1.35	622.4	<b>BF30G06-../D06LA4</b>	45	7400	-	2.7	360	1.75
2.0	510	1.25	705.1	"	"	7400	-	2.3	440	1.45
1.7	600	1.05	817.1	"	"	7400	-	2.0	500	1.25
1.5	690	0.91	961.1	"	"	7400	-	1.7	600	1.05
4.2	270	3.3	324.7	<b>BF40Z-../D06LA4</b>	53	10600	-	5.0	225	4.0
3.9	290	3.1	346.8	"	"	10600	-	4.7	240	3.8
3.6	315	2.9	381.5	"	"	10600	-	4.3	265	3.4
3.3	345	2.6	417.3	"	"	10600	-	3.9	290	3.1
3.0	380	2.4	459.1	"	"	10600	-	3.6	315	2.9
2.7	420	2.1	514.6	"	"	10600	-	3.2	355	2.5
2.4	475	1.9	566.1	"	"	10600	-	2.9	395	2.3
2.3	310	3.2	597.3	<b>BF40G10-../D06LA4</b>	58	10600	-	2.8	220	4.5
1.9	395	2.5	731.6	"	"	10600	-	2.3	290	3.4
1.5	540	1.85	928.9	"	"	10600	-	1.8	410	2.4
1.3	640	1.55	1106	"	"	10600	-	1.5	520	1.9
1.1	800	1.25	1324	"	"	10600	-	1.3	640	1.55
0.95	940	1.05	1484	"	"	10600	-	1.1	780	1.3
2.8	405	3.2	496.4	<b>BF50Z-../D06LA4</b>	82	13600	-	3.3	345	3.8
2.5	455	2.9	555.2	"	"	13600	-	3.0	380	3.4
1.6	500	2.8	864.5	<b>BF50G10-../D06LA4</b>	86	13600	-	1.9	395	3.5
1.4	590	2.4	1029	"	"	13600	-	1.6	490	2.9
1.2	740	1.9	1203	"	"	13600	-	1.4	600	2.3
1.0	900	1.55	1359	"	"	13600	-	1.2	710	1.95
0.9	1000	1.4	1520	"	"	13600	-	1.1	770	1.8
0.85	1060	1.3	1684	"	"	13600	-	1.0	860	1.65
0.7	1330	1.05	2059	"	"	13600	-	0.8	1130	1.25

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 0.12 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
0.95	820	3.0	1494	<b>BF60G20-../D06LA4</b>	134	15300	43300	1.1	660	3.8
0.85	920	2.7	1658	"	"	15300	43300	1.0	720	3.5
0.7	1190	2.1	1955	"	"	15300	43300	0.85	900	2.8
0.65	1300	1.9	2172	"	"	15300	43300	0.75	1060	2.4
0.49	1830	1.35	2781	"	"	15300	43300	0.6	1400	1.8
0.42	2200	1.15	3237	"	"	15300	43300	0.55	1580	1.6
0.48	1890	3.0	2849	<b>BF70G20-../D06LA4</b>	212	16100	47700	0.6	1410	4.0
0.4	2350	2.4	3417	"	"	16100	47700	0.48	1890	3.0
0.34	2850	2.0	4090	"	"	16100	47700	0.4	2350	2.4
0.3	3300	1.75	4542	"	"	16100	47700	0.36	2650	2.2
0.27	3750	1.5	5124	"	"	16100	47700	0.32	3050	1.85
0.24	4250	1.35	5691	"	"	16100	47700	0.29	3450	1.65
0.21	4950	1.15	6530	"	"	16100	47700	0.25	4050	1.4
0.19	5500	1.05	7248	"	"	16100	47700	0.23	4450	1.3

7

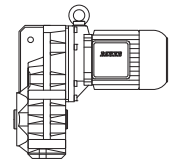
**P = 0.18 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
177	9.7	7.0	7.66	<b>BF06-../D05LA4</b>	10	1800	-	215	7.9	8.6
147	11.6	6.0	9.21	"	"	1900	-	176	9.7	7.2
112	15.3	4.9	12.07	"	"	2000	-	135	12.7	5.9
96	17.9	4.7	14.21	"	"	2100	-	115	14.9	5.7
80	21	4.5	16.99	"	"	2500	-	96	17.9	5.3
67	25.5	3.7	20.42	"	"	2700	-	80	21	4.5
51	33.5	2.8	26.76	"	"	3000	-	61	28	3.4
43	39.5	2.4	31.50	"	"	3200	-	52	33	2.9
36	47.5	2.0	37.69	"	"	3500	-	43	39.5	2.4
29.5	58	1.65	46.14	"	"	3800	-	35.5	48	2.0
23.5	73	1.3	58.33	"	"	4000	-	28	61	1.55
20.5	83	1.15	66.82	"	"	4000	-	24.5	70	1.35
16.5	104	0.91	83.61	"	"	4000	-	19.5	88	1.1
14.5	118	0.81	95.16	"	"	4000	-	17.5	98	0.97
22	78	3.1	61.55	<b>BF10-../D06LA4</b>	23	4700	-	26.5	64	3.8
20	85	2.8	67.69	"	"	4900	-	24	71	3.4
17.5	98	2.4	77.55	"	"	5100	-	21	81	3.0
16	107	2.2	85.27	"	"	5300	-	19	90	2.7
15	114	2.1	90.91	"	"	5400	-	18	95	2.5
14	122	1.95	99.97	"	"	5600	-	16.5	104	2.3
12.5	137	1.75	112.3	"	"	5900	-	14.5	118	2.0
11	156	1.55	123.5	"	"	6100	-	13.5	127	1.9
10.5	163	1.45	128.9	"	"	6200	-	13	132	1.8
9.6	179	1.35	141.8	"	"	6400	-	11.5	149	1.6
9.0	191	1.25	151.2	<b>BF10Z-../D06LA4</b>	24	6400	-	11	156	1.55
8.2	205	1.15	166.2	"	"	6400	-	9.8	175	1.35
7.5	225	1.05	180.1	"	"	6400	-	9.0	191	1.25
6.9	245	0.98	198.0	"	"	6400	-	8.2	205	1.15
6.3	270	0.89	214.5	"	"	6400	-	7.6	225	1.05
5.8	295	0.81	235.8	"	"	6400	-	6.9	245	0.98
13.5	127	3.3	100.2	<b>BF20-../D06LA4</b>	30	7000	-	16.5	104	4.0
12.5	137	3.1	110.2	"	"	7300	-	15	114	3.7
11	156	2.7	123.5	"	"	7600	-	13.5	127	3.3
10	171	2.5	135.9	"	"	7900	-	12	143	2.9
9.6	179	2.3	141.2	<b>BF20Z-../D06LA4</b>	31	7900	-	11.5	149	2.8
8.7	197	2.1	155.4	"	"	7900	-	10.5	163	2.6
8.3	205	2.0	164.3	"	"	7900	-	9.9	173	2.4

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 0.18 kW**



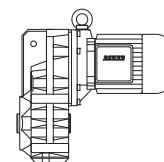
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
7.5	225	1.85	180.8	<b>BF20Z-../D06LA4</b>	"	7900	-	9.0	191	2.2
6.9	245	1.7	197.1	"	"	7900	-	8.3	205	2.0
6.3	270	1.55	216.9	"	"	7900	-	7.5	225	1.85
5.8	295	1.4	235.9	"	"	7900	-	6.9	245	1.7
5.3	320	1.3	259.6	"	"	7900	-	6.3	270	1.55
4.6	370	1.15	295.5	"	"	7900	-	5.5	310	1.35
4.2	405	1.05	325.2	"	"	7900	-	5.0	340	1.25
4.0	425	0.99	339.1	"	"	7900	-	4.8	355	1.2
3.7	460	0.91	373.1	"	"	7900	-	4.4	390	1.1
3.3	520	0.81	418.1	"	"	7900	-	3.9	440	0.95
9.9	173	3.3	137.1	<b>BF30-../D06LA4</b>	40	7400	-	12	143	4.0
9.0	191	3.0	150.7	<b>BF30Z-../D06LA4</b>	42	7400	-	11	156	3.7
8.2	205	2.8	165.8	"	"	7400	-	9.8	175	3.3
7.7	220	2.6	176.6	"	"	7400	-	9.2	186	3.1
7.0	245	2.3	194.3	"	"	7400	-	8.4	200	2.9
6.1	280	2.1	224.8	"	"	7400	-	7.3	235	2.4
5.5	310	1.85	247.3	"	"	7400	-	6.6	260	2.2
5.2	330	1.75	263.5	"	"	7400	-	6.2	275	2.1
4.7	365	1.6	289.8	"	"	7400	-	5.6	305	1.9
4.4	390	1.45	310.7	"	"	7400	-	5.3	320	1.8
4.0	425	1.35	341.8	"	"	7400	-	4.8	355	1.6
3.6	475	1.2	375.1	"	"	7400	-	4.4	390	1.45
3.3	520	1.1	412.6	"	"	7400	-	4.0	425	1.35
3.0	570	1.0	463.3	"	"	7400	-	3.5	490	1.15
2.6	660	0.87	537.0	"	"	7400	-	3.1	550	1.05
2.2	720	0.88	622.4	<b>BF30G06-../D06LA4</b>	45	7400	-	2.7	570	1.1
6.1	280	3.2	222.4	<b>BF40Z-../D06LA4</b>	53	10600	-	7.3	235	3.8
5.4	315	2.9	253.2	"	"	10600	-	6.4	265	3.4
4.9	350	2.6	278.5	"	"	10600	-	5.9	290	3.1
4.6	370	2.4	295.1	"	"	10600	-	5.5	310	2.9
4.2	405	2.2	324.7	"	"	10600	-	5.0	340	2.6
3.9	440	2.0	346.8	"	"	10600	-	4.7	365	2.5
3.6	475	1.9	381.5	"	"	10600	-	4.3	395	2.3
3.3	520	1.75	417.3	"	"	10600	-	3.9	440	2.0
3.0	570	1.6	459.1	"	"	10600	-	3.6	475	1.9
2.7	630	1.45	514.6	"	"	10600	-	3.2	530	1.7
2.4	710	1.25	566.1	"	"	10600	-	2.9	590	1.55
2.3	560	1.8	597.3	<b>BF40G10-../D06LA4</b>	58	10600	-	2.8	425	2.4
1.9	690	1.45	731.6	"	"	10600	-	2.3	540	1.85
1.5	920	1.1	928.9	"	"	10600	-	1.8	730	1.35
1.3	1080	0.93	1106	"	"	10600	-	1.5	900	1.1
4.3	395	3.3	316.6	<b>BF50Z-../D06LA4</b>	82	13600	-	5.2	330	3.9
3.9	440	3.0	354.0	"	"	13600	-	4.6	370	3.5
3.5	490	2.7	392.8	"	"	13600	-	4.2	405	3.2
3.1	550	2.4	439.3	"	"	13600	-	3.7	460	2.8
2.8	610	2.1	496.4	"	"	13600	-	3.3	520	2.5
2.5	680	1.9	555.2	"	"	13600	-	3.0	570	2.3
2.0	660	2.1	680.9	<b>BF50G10-../D06LA4</b>	86	13600	-	2.4	520	2.7
1.6	860	1.65	864.5	"	"	13600	-	1.9	690	2.0
1.4	1000	1.4	1029	"	"	13600	-	1.6	840	1.65
1.2	1220	1.15	1203	"	"	13600	-	1.4	1010	1.4
1.0	1470	0.95	1359	"	"	13600	-	1.2	1190	1.2
1.5	870	2.9	937.6	<b>BF60G20-../D06LA4</b>	134	15300	43300	1.8	670	3.7
1.2	1120	2.2	1211	"	"	15300	43300	1.4	920	2.7
0.95	1430	1.75	1494	"	"	15300	43300	1.1	1180	2.1
0.85	1600	1.55	1658	"	"	15300	43300	1.0	1290	1.95
0.7	2000	1.25	1955	"	"	15300	43300	0.85	1570	1.6
0.65	2150	1.15	2172	"	"	15300	43300	0.75	1830	1.35

7

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 0.18 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
0.75	1850	3.1	1912	BF70G20-../D06LA4	212	16100	47700	0.85	1580	3.6
0.6	2350	2.4	2448	"	"	16100	47700	0.7	1970	2.9
0.48	3050	1.85	2849	"	"	16100	47700	0.6	2350	2.4
0.4	3800	1.5	3417	"	"	16100	47700	0.48	3050	1.85
0.34	4550	1.25	4090	"	"	16100	47700	0.4	3800	1.5
0.3	5200	1.1	4542	"	"	16100	47700	0.36	4250	1.35

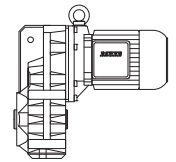
**P = 0.25kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
177	13.4	5.1	7.66	BF06-../D05LA4	10	1800	-	215	11.1	6.1
147	16.2	4.3	9.21	"	"	1900	-	176	13.5	5.2
112	21	3.6	12.07	"	"	2000	-	135	17.6	4.3
96	24.5	3.5	14.21	"	"	2100	-	115	20.5	4.1
80	29.5	3.2	16.99	"	"	2500	-	96	24.5	3.9
67	35.5	2.7	20.42	"	"	2700	-	80	29.5	3.2
51	46.5	2.0	26.76	"	"	3000	-	61	39	2.4
43	55	1.75	31.50	"	"	3200	-	52	45.5	2.1
36	66	1.45	37.69	"	"	3500	-	43	55	1.75
29.5	80	1.2	46.14	"	"	3800	-	35.5	67	1.4
23.5	101	0.94	58.33	"	"	4000	-	28	85	1.1
20.5	116	0.82	66.82	"	"	4000	-	24.5	97	0.98
31.5	75	3.2	43.06	BF10-../D06LA4	23	4100	-	38	62	3.9
29	82	2.9	47.35	"	"	4250	-	34.5	69	3.5
26.5	90	2.7	51.28	"	"	4400	-	32	74	3.2
24	99	2.4	56.39	"	"	4550	-	29	82	2.9
22	108	2.2	61.55	"	"	4700	-	26.5	90	2.7
20	119	2.0	67.69	"	"	4900	-	24	99	2.4
17.5	136	1.75	77.55	"	"	5100	-	21	113	2.1
16	149	1.6	85.27	"	"	5300	-	19	125	1.9
15	159	1.5	90.91	"	"	5400	-	18	132	1.8
14	170	1.4	99.97	"	"	5600	-	16.5	144	1.65
12.5	191	1.25	112.3	"	"	5900	-	14.5	164	1.45
11	215	1.1	123.5	"	"	6100	-	13.5	176	1.35
10.5	225	1.05	128.9	"	"	6200	-	13	183	1.3
9.6	245	0.98	141.8	"	"	6400	-	11.5	205	1.15
9.0	265	0.91	151.2	BF10Z-../D06LA4	24	6400	-	11	215	1.1
8.2	290	0.83	166.2	"	"	6400	-	9.8	240	1.0
18	132	3.2	76.69	BF20-../D06LA4	30	6300	-	21.5	111	3.8
15.5	154	2.7	87.31	"	"	6600	-	19	125	3.4
14.5	164	2.6	96.08	"	"	6900	-	17	140	3.0
13.5	176	2.4	100.2	"	"	7000	-	16.5	144	2.9
12.5	191	2.2	110.2	"	"	7300	-	15	159	2.6
11	215	1.95	123.5	"	"	7600	-	13.5	176	2.4
10	235	1.8	135.9	"	"	7900	-	12	198	2.1
9.6	245	1.7	141.2	BF20Z-../D06LA4	31	7900	-	11.5	205	2.0
8.7	270	1.55	155.4	"	"	7900	-	10.5	225	1.85
8.3	285	1.45	164.3	"	"	7900	-	9.9	240	1.75
7.5	315	1.35	180.8	"	"	7900	-	9.0	265	1.6
6.9	345	1.2	197.1	"	"	7900	-	8.3	285	1.45
6.3	375	1.1	216.9	"	"	7900	-	7.5	315	1.35
5.8	410	1.0	235.9	"	"	7900	-	6.9	345	1.2
5.3	450	0.93	259.6	"	"	7900	-	6.3	375	1.1
4.6	510	0.82	295.5	"	"	7900	-	5.5	430	0.98

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 0.25 kW

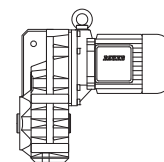


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
13	183	3.1	107.6	<b>BF30-../D06LA4</b>	40	6700	-	15.5	154	3.7
11.5	205	2.8	118.3	"	"	7000	-	14	170	3.4
11	215	2.7	124.7	"	"	7100	-	13	183	3.1
9.9	240	2.4	137.1	"	"	7400	-	12	198	2.9
9.0	265	2.2	150.7	<b>BF30Z-../D06LA4</b>	42	7400	-	11	215	2.7
8.2	290	2.0	165.8	"	"	7400	-	9.8	240	2.4
7.7	310	1.85	176.6	"	"	7400	-	9.2	255	2.3
7.0	340	1.7	194.3	"	"	7400	-	8.4	280	2.1
6.1	390	1.45	224.8	"	"	7400	-	7.3	325	1.75
5.5	430	1.35	247.3	"	"	7400	-	6.6	360	1.6
5.2	455	1.25	263.5	"	"	7400	-	6.2	385	1.5
4.7	500	1.15	289.8	"	"	7400	-	5.6	425	1.35
4.4	540	1.05	310.7	"	"	7400	-	5.3	450	1.3
4.0	590	0.97	341.8	"	"	7400	-	4.8	495	1.15
3.6	660	0.87	375.1	"	"	7400	-	4.4	540	1.05
3.3	720	0.8	412.6	"	"	7400	-	4.0	590	0.97
8.7	270	3.3	155.6	<b>BF40Z-../D06LA4</b>	53	10600	-	10.5	225	4.0
7.9	300	3.0	171.2	"	"	10600	-	9.5	250	3.6
7.2	330	2.7	188.3	"	"	10600	-	8.7	270	3.3
6.7	355	2.5	202.2	"	"	10600	-	8.1	290	3.1
6.1	390	2.3	222.4	"	"	10600	-	7.3	325	2.8
5.4	440	2.0	253.2	"	"	10600	-	6.4	370	2.4
4.9	485	1.85	278.5	"	"	10600	-	5.9	400	2.3
4.6	510	1.75	295.1	"	"	10600	-	5.5	430	2.1
4.2	560	1.6	324.7	"	"	10600	-	5.0	475	1.9
3.9	610	1.5	346.8	"	"	10600	-	4.7	500	1.8
3.6	660	1.35	381.5	"	"	10600	-	4.3	550	1.65
3.3	720	1.25	417.3	"	"	10600	-	3.9	610	1.5
3.0	790	1.15	459.1	"	"	10600	-	3.6	660	1.35
2.7	880	1.0	514.6	"	"	10600	-	3.2	740	1.2
2.4	990	0.91	566.1	"	"	10600	-	2.9	820	1.1
2.3	850	1.2	597.3	<b>BF40G10-../D06LA4</b>	58	10600	-	2.8	660	1.5
1.9	1050	0.95	731.6	"	"	10600	-	2.3	830	1.2
5.5	430	3.0	247.5	<b>BF50Z-../D06LA4</b>	82	13600	-	6.6	360	3.6
4.9	485	2.7	276.8	"	"	13600	-	5.9	400	3.3
4.3	550	2.4	316.6	"	"	13600	-	5.2	455	2.9
3.9	610	2.1	354.0	"	"	13600	-	4.6	510	2.5
3.5	680	1.9	392.8	"	"	13600	-	4.2	560	2.3
3.1	770	1.7	439.3	"	"	13600	-	3.7	640	2.0
2.8	850	1.55	496.4	"	"	13600	-	3.3	720	1.8
2.5	950	1.35	555.2	"	"	13600	-	3.0	790	1.65
2.0	1000	1.4	680.9	<b>BF50G10-../D06LA4</b>	86	13600	-	2.4	800	1.75
1.6	1280	1.1	864.5	"	"	13600	-	1.9	1050	1.35
1.4	1480	0.95	1029	"	"	13600	-	1.6	1260	1.1
2.4	750	3.3	569.3	<b>BF60G20-../D06LA4</b>	134	15300	43300	2.9	580	4.3
2.0	900	2.8	689.0	"	"	15300	43300	2.4	700	3.6
1.7	1090	2.3	813.2	"	"	15300	43300	2.0	880	2.8
1.5	1310	1.9	937.6	"	"	15300	43300	1.8	1050	2.4
1.2	1680	1.5	1211	"	"	15300	43300	1.4	1390	1.8
0.95	2100	1.2	1494	"	"	15300	43300	1.1	1790	1.4
0.85	2350	1.05	1658	"	"	15300	43300	1.0	1960	1.3
1.0	2000	2.9	1390	<b>BF70G20-../D06LA4</b>	212	16100	47700	1.2	1630	3.5
0.85	2350	2.4	1621	"	"	16100	47700	1.0	1970	2.9
0.75	2700	2.1	1912	"	"	16100	47700	0.85	2350	2.4
0.6	3500	1.65	2448	"	"	16100	47700	0.7	2900	1.95
0.48	4450	1.3	2849	"	"	16100	47700	0.6	3450	1.65
0.4	5400	1.05	3417	"	"	16100	47700	0.48	4450	1.3

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 0.3 kW



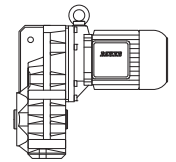
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
177	16.1	4.2	7.66	<b>BF06-../D07LA4</b>	14	1800	-	215	13.3	5.1
147	19.4	3.6	9.21	"	"	1900	-	176	16.2	4.3
112	25.5	2.9	12.07	"	"	2000	-	135	21	3.6
96	29.5	2.9	14.21	"	"	2100	-	115	24.5	3.5
80	35.5	2.7	16.99	"	"	2500	-	96	29.5	3.2
67	42.5	2.2	20.42	"	"	2700	-	80	35.5	2.7
51	56	1.7	26.76	"	"	3000	-	61	46.5	2.0
43	66	1.45	31.50	"	"	3200	-	52	55	1.75
36	79	1.2	37.69	"	"	3500	-	43	66	1.45
29.5	97	0.98	46.14	"	"	3800	-	35.5	80	1.2
37.5	76	3.2	36.15	<b>BF10-../D07LA4</b>	26	3800	-	45	63	3.8
34	84	2.9	39.75	"	"	3950	-	41	69	3.5
31.5	90	2.7	43.06	"	"	4100	-	38	75	3.2
29	98	2.4	47.35	"	"	4250	-	34.5	83	2.9
26.5	108	2.2	51.28	"	"	4400	-	32	89	2.7
24	119	2.0	56.39	"	"	4550	-	29	98	2.4
22	130	1.85	61.55	"	"	4700	-	26.5	108	2.2
20	143	1.7	67.69	"	"	4900	-	24	119	2.0
17.5	163	1.45	77.55	"	"	5100	-	21	136	1.75
16	179	1.35	85.27	"	"	5300	-	19	150	1.6
15	191	1.25	90.91	"	"	5400	-	18	159	1.5
14	200	1.2	99.97	"	"	5600	-	16.5	173	1.4
12.5	225	1.05	112.3	"	"	5900	-	14.5	197	1.2
11	260	0.92	123.5	"	"	6100	-	13.5	210	1.15
10.5	270	0.89	128.9	"	"	6200	-	13	220	1.1
9.6	295	0.81	141.8	"	"	6400	-	11.5	245	0.98
21.5	133	3.2	64.08	<b>BF20-../D07LA4</b>	32	5900	-	25.5	112	3.8
19.5	146	2.9	69.70	"	"	6100	-	23.5	121	3.5
18	159	2.6	76.69	"	"	6300	-	21.5	133	3.2
15.5	184	2.3	87.31	"	"	6600	-	19	150	2.8
14.5	197	2.1	96.08	"	"	6900	-	17	168	2.5
13.5	210	2.0	100.2	"	"	7000	-	16.5	173	2.4
12.5	225	1.85	110.2	"	"	7300	-	15	191	2.2
11	260	1.6	123.5	"	"	7600	-	13.5	210	2.0
10	285	1.45	135.9	"	"	7900	-	12	235	1.8
9.6	295	1.4	141.2	<b>BF20Z-../D07LA4</b>	34	7900	-	11.5	245	1.7
8.7	325	1.3	155.4	"	"	7900	-	10.5	270	1.55
8.3	345	1.2	164.3	"	"	7900	-	9.9	285	1.45
7.5	380	1.1	180.8	"	"	7900	-	9.0	315	1.35
6.9	415	1.0	197.1	"	"	7900	-	8.3	345	1.2
6.3	450	0.93	216.9	"	"	7900	-	7.5	380	1.1
5.8	490	0.86	235.9	"	"	7900	-	6.9	415	1.0
16	179	3.2	87.08	<b>BF30-../D07LA4</b>	42	6200	-	19	150	3.8
14.5	197	2.9	95.79	"	"	6400	-	17	168	3.4
13	220	2.6	107.6	"	"	6700	-	15.5	184	3.1
11.5	245	2.3	118.3	"	"	7000	-	14	200	2.9
11	260	2.2	124.7	"	"	7100	-	13	220	2.6
9.9	285	2.0	137.1	"	"	7400	-	12	235	2.4
9.0	315	1.85	150.7	<b>BF30Z-../D07LA4</b>	45	7400	-	11	260	2.2
8.2	345	1.65	165.8	"	"	7400	-	9.8	290	2.0
7.7	370	1.55	176.6	"	"	7400	-	9.2	310	1.85
7.0	405	1.4	194.3	"	"	7400	-	8.4	340	1.7
6.1	465	1.25	224.8	"	"	7400	-	7.3	390	1.45
5.5	520	1.1	247.3	"	"	7400	-	6.6	430	1.35
5.2	550	1.05	263.5	"	"	7400	-	6.2	460	1.25
4.7	600	0.96	289.8	"	"	7400	-	5.6	510	1.15
4.4	650	0.88	310.7	"	"	7400	-	5.3	540	1.05
4.0	710	0.81	341.8	"	"	7400	-	4.8	590	0.97

7

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 0.3 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.6	295	3.1	141.4	<b>BF40Z-../D07LA4</b>	55	10600	-	11.5	245	3.7
8.7	325	2.8	155.6	"	"	10600	-	10.5	270	3.3
7.9	360	2.5	171.2	"	"	10600	-	9.5	300	3.0
7.2	395	2.3	188.3	"	"	10600	-	8.7	325	2.8
6.7	425	2.1	202.2	"	"	10600	-	8.1	350	2.6
6.1	465	1.95	222.4	"	"	10600	-	7.3	390	2.3
5.4	530	1.7	253.2	"	"	10600	-	6.4	445	2.0
4.9	580	1.55	278.5	"	"	10600	-	5.9	485	1.85
4.6	620	1.45	295.1	"	"	10600	-	5.5	520	1.75
4.2	680	1.3	324.7	"	"	10600	-	5.0	570	1.6
3.9	730	1.25	346.8	"	"	10600	-	4.7	600	1.5
3.6	790	1.15	381.5	"	"	10600	-	4.3	660	1.35
3.3	860	1.05	417.3	"	"	10600	-	3.9	730	1.25
3.0	950	0.95	459.1	"	"	10600	-	3.6	790	1.15
2.7	1060	0.85	514.6	"	"	10600	-	3.2	890	1.0
2.3	1050	0.95	597.3	<b>BF40G10-../D07LA4</b>	61	10600	-	2.8	830	1.2
6.6	430	3.0	205.2	<b>BF50Z-../D07LA4</b>	85	13600	-	7.9	360	3.6
5.5	520	2.5	247.5	"	"	13600	-	6.6	430	3.0
4.9	580	2.2	276.8	"	"	13600	-	5.9	485	2.7
4.3	660	1.95	316.6	"	"	13600	-	5.2	550	2.4
3.9	730	1.8	354.0	"	"	13600	-	4.6	620	2.1
3.5	810	1.6	392.8	"	"	13600	-	4.2	680	1.9
3.1	920	1.4	439.3	"	"	13600	-	3.7	770	1.7
2.8	1020	1.25	496.4	"	"	13600	-	3.3	860	1.5
2.5	1140	1.15	555.2	"	"	13600	-	3.0	950	1.35
2.0	1240	1.15	680.9	<b>BF50G10-../D07LA4</b>	89	13600	-	2.4	1000	1.4
1.6	1580	0.89	864.5	"	"	13600	-	1.9	1300	1.1
2.4	950	2.6	569.3	<b>BF60G20-../D07LA4</b>	136	15300	43300	2.9	740	3.4
2.0	1140	2.2	689.0	"	"	15300	43300	2.4	900	2.8
1.7	1370	1.8	813.2	"	"	15300	43300	2.0	1120	2.2
1.5	1630	1.55	937.6	"	"	15300	43300	1.8	1310	1.9
1.2	2050	1.2	1211	"	"	15300	43300	1.4	1740	1.45
1.4	1740	3.3	1017	<b>BF70G20-../D07LA4</b>	215	16100	47700	1.6	1490	3.8
1.0	2500	2.3	1390	"	"	16100	47700	1.2	2000	2.9
0.85	2950	1.95	1621	"	"	16100	47700	1.0	2450	2.3
0.75	3350	1.7	1912	"	"	16100	47700	0.85	2900	1.95
0.6	4250	1.35	2448	"	"	16100	47700	0.7	3600	1.6
0.48	5400	1.05	2849	"	"	16100	47700	0.6	4250	1.35

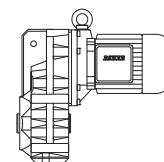
**P = 0.37 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
177	19.9	3.4	7.66	<b>BF06-../D07LA4</b>	14	1800	-	215	16.4	4.1
147	24	2.9	9.21	"	"	1900	-	176	20	3.5
112	31.5	2.4	12.07	"	"	2000	-	135	26	2.9
96	36.5	2.3	14.21	"	"	2100	-	115	30.5	2.8
80	44	2.2	16.99	"	"	2500	-	96	36.5	2.6
67	52	1.85	20.42	"	"	2700	-	80	44	2.2
51	69	1.4	26.76	"	"	3000	-	61	57	1.65
43	82	1.15	31.50	"	"	3200	-	52	67	1.4
36	98	0.97	37.69	"	"	3500	-	43	82	1.15
29.5	119	0.8	46.14	"	"	3800	-	35.5	99	0.96
47.5	74	3.2	28.47	<b>BF10-../D07LA4</b>	26	3450	-	57	61	3.9
43.5	81	3.0	31.31	"	"	3600	-	52	67	3.6
37.5	94	2.6	36.15	"	"	3800	-	45	78	3.1
34	103	2.3	39.75	"	"	3950	-	41	86	2.8

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 0.37 kW



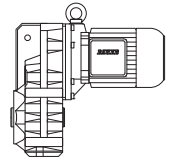
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
31.5	112	2.1	43.06	<b>BF10-../D07LA4</b>	"	4100	-	38	92	2.6
29	121	2.0	47.35	"	"	4250	-	34.5	102	2.4
26.5	133	1.8	51.28	"	"	4400	-	32	110	2.2
24	147	1.65	56.39	"	"	4550	-	29	121	2.0
22	160	1.5	61.55	"	"	4700	-	26.5	133	1.8
20	176	1.35	67.69	"	"	4900	-	24	147	1.65
17.5	200	1.2	77.55	"	"	5100	-	21	168	1.45
16	220	1.1	85.27	"	"	5300	-	19	185	1.3
15	235	1.0	90.91	"	"	5400	-	18	196	1.2
14	250	0.96	99.97	"	"	5600	-	16.5	210	1.15
12.5	280	0.86	112.3	"	"	5900	-	14.5	240	1.0
28	126	3.3	48.56	<b>BF20-../D07LA4</b>	32	5200	-	33.5	105	4.0
25.5	138	3.0	53.43	"	"	5500	-	30.5	115	3.7
23.5	150	2.8	58.24	"	"	5600	-	28	126	3.3
21.5	164	2.6	64.08	"	"	5900	-	25.5	138	3.0
19.5	181	2.3	69.70	"	"	6100	-	23.5	150	2.8
18	196	2.1	76.69	"	"	6300	-	21.5	164	2.6
15.5	225	1.85	87.31	"	"	6600	-	19	185	2.3
14.5	240	1.75	96.08	"	"	6900	-	17	205	2.0
13.5	260	1.6	100.2	"	"	7000	-	16.5	210	2.0
12.5	280	1.5	110.2	"	"	7300	-	15	235	1.8
11	320	1.3	123.5	"	"	7600	-	13.5	260	1.6
10	350	1.2	135.9	"	"	7900	-	12	290	1.45
9.6	365	1.15	141.2	<b>BF20Z-../D07LA4</b>	34	7900	-	11.5	305	1.4
8.7	405	1.05	155.4	"	"	7900	-	10.5	335	1.25
8.3	425	0.99	164.3	"	"	7900	-	9.9	355	1.2
7.5	470	0.89	180.8	"	"	7900	-	9.0	390	1.1
6.9	510	0.82	197.1	"	"	7900	-	8.3	425	0.99
20.5	172	3.3	67.28	<b>BF30-../D07LA4</b>	42	5500	-	24.5	144	4.0
19	185	3.1	72.13	"	"	5700	-	22.5	157	3.7
17.5	200	2.9	79.34	"	"	5900	-	20.5	172	3.3
16	220	2.6	87.08	"	"	6200	-	19	185	3.1
14.5	240	2.4	95.79	"	"	6400	-	17	205	2.8
13	270	2.1	107.6	"	"	6700	-	15.5	225	2.6
11.5	305	1.9	118.3	"	"	7000	-	14	250	2.3
11	320	1.8	124.7	"	"	7100	-	13	270	2.1
9.9	355	1.6	137.1	"	"	7400	-	12	290	2.0
9.0	390	1.45	150.7	<b>BF30Z-../D07LA4</b>	45	7400	-	11	320	1.8
8.2	430	1.35	165.8	"	"	7400	-	9.8	360	1.6
7.7	455	1.25	176.6	"	"	7400	-	9.2	380	1.5
7.0	500	1.15	194.3	"	"	7400	-	8.4	420	1.35
6.1	570	1.0	224.8	"	"	7400	-	7.3	480	1.2
5.5	640	0.9	247.3	"	"	7400	-	6.6	530	1.1
5.2	670	0.86	263.5	"	"	7400	-	6.2	560	1.05
9.6	365	2.5	141.4	<b>BF40Z-../D07LA4</b>	55	10600	-	11.5	305	3.0
8.7	405	2.2	155.6	"	"	10600	-	10.5	335	2.7
7.9	445	2.0	171.2	"	"	10600	-	9.5	370	2.4
7.2	490	1.85	188.3	"	"	10600	-	8.7	405	2.2
6.7	520	1.75	202.2	"	"	10600	-	8.1	435	2.1
6.1	570	1.6	222.4	"	"	10600	-	7.3	480	1.9
5.4	650	1.4	253.2	"	"	10600	-	6.4	550	1.65
4.9	720	1.25	278.5	"	"	10600	-	5.9	590	1.55
4.6	760	1.2	295.1	"	"	10600	-	5.5	640	1.4
4.2	840	1.05	324.7	"	"	10600	-	5.0	700	1.3
3.9	900	1.0	346.8	"	"	10600	-	4.7	750	1.2
3.6	980	0.92	381.5	"	"	10600	-	4.3	820	1.1
3.3	1070	0.84	417.3	"	"	10600	-	3.9	900	1.0



# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 0.37 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
8.8	400	3.3	154.5	<b>BF50Z-../D07LA4</b>	85	13600	-	10.5	335	3.9
7.4	475	2.7	183.5	"	"	13600	-	8.9	395	3.3
6.6	530	2.5	205.2	"	"	13600	-	7.9	445	2.9
5.5	640	2.0	247.5	"	"	13600	-	6.6	530	2.5
4.9	720	1.8	276.8	"	"	13600	-	5.9	590	2.2
4.3	820	1.6	316.6	"	"	13600	-	5.2	670	1.95
3.9	900	1.45	354.0	"	"	13600	-	4.6	760	1.7
3.5	1000	1.3	392.8	"	"	13600	-	4.2	840	1.55
3.1	1130	1.15	439.3	"	"	13600	-	3.7	950	1.35
2.8	1260	1.05	496.4	"	"	13600	-	3.3	1070	1.2
2.5	1410	0.92	555.2	"	"	13600	-	3.0	1170	1.1
2.0	1570	0.89	680.9	<b>BF50G10-../D07LA4</b>	89	13600	-	2.4	1280	1.1
2.4	1230	2.0	569.3	<b>BF60G20-../D07LA4</b>	136	15300	43300	2.9	970	2.6
2.0	1470	1.7	689.0	"	"	15300	43300	2.4	1180	2.1
1.7	1770	1.4	813.2	"	"	15300	43300	2.0	1460	1.7
1.5	2050	1.2	937.6	"	"	15300	43300	1.8	1680	1.5
1.2	2600	0.96	1211	"	"	15300	43300	1.4	2200	1.15
1.6	1950	2.9	872.1	<b>BF70G20-../D07LA4</b>	215	16100	47700	1.9	1600	3.6
1.4	2200	2.6	1017	"	"	16100	47700	1.6	1900	3.0
1.0	3150	1.8	1390	"	"	16100	47700	1.2	2550	2.2
0.85	3700	1.55	1621	"	"	16100	47700	1.0	3100	1.85
0.75	4250	1.35	1912	"	"	16100	47700	0.85	3700	1.55
0.6	5400	1.05	2448	"	"	16100	47700	0.7	4550	1.25

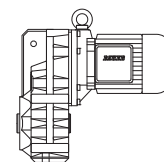
**P = 0.55 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
245	21	3.0	5.72	<b>BF06-../D08MA4</b>	16	1630	-	295	17.8	3.5
183	28.5	2.4	7.66	"	"	1800	-	220	23.5	2.9
153	34	2.1	9.21	"	"	1900	-	183	28.5	2.5
116	45	1.65	12.07	"	"	2000	-	140	37.5	2.0
99	53	1.6	14.21	"	"	2100	-	119	44	1.95
83	63	1.5	16.99	"	"	2500	-	99	53	1.8
69	76	1.25	20.42	"	"	2700	-	83	63	1.5
53	99	0.96	26.76	"	"	3000	-	63	83	1.15
44.5	118	0.81	31.50	"	"	3200	-	54	97	0.98
94	55	3.3	15.04	<b>BF10-../D08MA4</b>	27	2800	-	112	46.5	3.9
70	75	3.2	20.05	"	"	3000	-	84	62	3.9
61	86	2.8	23.28	"	"	3200	-	73	71	3.4
55	95	2.5	25.60	"	"	3350	-	66	79	3.0
49.5	106	2.3	28.47	"	"	3450	-	60	87	2.8
45	116	2.1	31.31	"	"	3600	-	54	97	2.5
39	134	1.8	36.15	"	"	3800	-	46.5	112	2.1
35.5	147	1.65	39.75	"	"	3950	-	42.5	123	1.95
33	159	1.5	43.06	"	"	4100	-	39.5	132	1.8
30	175	1.35	47.35	"	"	4250	-	35.5	147	1.65
27.5	191	1.25	51.28	"	"	4400	-	33	159	1.5
25	210	1.15	56.39	"	"	4550	-	30	175	1.35
23	225	1.05	61.55	"	"	4700	-	27.5	191	1.25
21	250	0.96	67.69	"	"	4900	-	25	210	1.15
18.5	280	0.86	77.55	"	"	5100	-	22	235	1.0
39.5	132	3.2	35.85	<b>BF20-../D08MA4</b>	33	4650	-	47	111	3.8
34	154	2.7	41.72	"	"	4950	-	40.5	129	3.3
31	169	2.5	45.90	"	"	5100	-	37	141	3.0
29	181	2.3	48.56	"	"	5200	-	35	150	2.8

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 0.55 kW

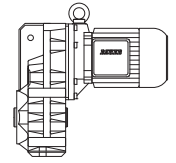


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
26.5	198	2.1	53.43	<b>BF20-../D08MA4</b>	"	5500	-	31.5	166	2.5
24.5	210	2.0	58.24	"	"	5600	-	29	181	2.3
22	235	1.8	64.08	"	"	5900	-	26.5	198	2.1
20.5	255	1.65	69.70	"	"	6100	-	24.5	210	2.0
18.5	280	1.5	76.69	"	"	6300	-	22	235	1.8
16.5	315	1.35	87.31	"	"	6600	-	19.5	265	1.6
15	350	1.2	96.08	"	"	6900	-	17.5	300	1.4
14	375	1.1	100.2	"	"	7000	-	17	305	1.4
13	400	1.05	110.2	"	"	7300	-	15.5	335	1.25
11.5	455	0.92	123.5	"	"	7600	-	14	375	1.1
10.5	500	0.84	135.9	"	"	7900	-	12.5	420	1.0
10	520	0.81	141.2	<b>BF20Z-../D08MA4</b>	35	7900	-	12	435	0.97
27	194	3.0	52.20	<b>BF30-../D08MA4</b>	43	5000	-	32.5	161	3.6
24.5	210	2.7	57.41	"	"	5200	-	29.5	178	3.2
23	225	2.6	61.17	"	"	5300	-	27.5	191	3.0
21	250	2.3	67.28	"	"	5500	-	25	210	2.7
19.5	265	2.2	72.13	"	"	5700	-	23.5	220	2.6
18	290	2.0	79.34	"	"	5900	-	21.5	240	2.4
16.5	315	1.85	87.08	"	"	6200	-	19.5	265	2.2
15	350	1.65	95.79	"	"	6400	-	18	290	2.0
13.5	385	1.5	107.6	"	"	6700	-	16	325	1.75
12	435	1.3	118.3	"	"	7000	-	14.5	360	1.6
11.5	455	1.25	124.7	"	"	7100	-	13.5	385	1.5
10.5	500	1.15	137.1	"	"	7400	-	12.5	420	1.35
9.3	560	1.05	150.7	<b>BF30Z-../D08MA4</b>	46	7400	-	11.5	455	1.25
8.5	610	0.94	165.8	"	"	7400	-	10.5	500	1.15
8.0	650	0.88	176.6	"	"	7400	-	9.6	540	1.05
7.3	710	0.81	194.3	"	"	7400	-	8.7	600	0.96
18	290	3.1	78.55	<b>BF40-../D08MA4</b>	53	8500	-	21.5	240	3.8
17	305	3.0	83.91	"	"	8700	-	20.5	255	3.5
15.5	335	2.7	92.31	"	"	9100	-	18.5	280	3.2
14	375	2.4	101.0	"	"	9400	-	17	305	3.0
13	400	2.3	111.1	"	"	9800	-	15.5	335	2.7
11.5	455	2.0	124.5	"	"	10200	-	13.5	385	2.3
10.5	500	1.8	137.0	"	"	10600	-	12.5	420	2.1
10	520	1.75	141.4	<b>BF40Z-../D08MA4</b>	56	10600	-	12	435	2.1
9.0	580	1.55	155.6	"	"	10600	-	11	475	1.9
8.2	640	1.4	171.2	"	"	10600	-	9.9	530	1.7
7.5	700	1.3	188.3	"	"	10600	-	9.0	580	1.55
7.0	750	1.2	202.2	"	"	10600	-	8.4	620	1.45
6.3	830	1.1	222.4	"	"	10600	-	7.6	690	1.3
5.6	930	0.97	253.2	"	"	10600	-	6.7	780	1.15
5.1	1020	0.88	278.5	"	"	10600	-	6.1	860	1.05
4.8	1090	0.83	295.1	"	"	10600	-	5.7	920	0.98
12.5	420	3.1	114.0	<b>BF50-../D08MA4</b>	81	12900	-	15	350	3.7
11	475	2.7	127.5	"	"	13600	-	13.5	385	3.4
10.5	500	2.6	138.1	<b>BF50Z-../D08MA4</b>	86	13600	-	12.5	420	3.1
9.1	570	2.3	154.5	"	"	13600	-	11	475	2.7
7.7	680	1.9	183.5	"	"	13600	-	9.2	570	2.3
6.9	760	1.7	205.2	"	"	13600	-	8.2	640	2.0
5.7	920	1.4	247.5	"	"	13600	-	6.8	770	1.7
5.1	1020	1.25	276.8	"	"	13600	-	6.1	860	1.5
4.5	1160	1.1	316.6	"	"	13600	-	5.4	970	1.35
4.0	1310	0.99	354.0	"	"	13600	-	4.8	1090	1.2
3.6	1450	0.9	392.8	"	"	13600	-	4.3	1220	1.05
7.5	700	3.3	187.7	<b>BF60Z-../D08MA4</b>	130	15300	43300	9.0	580	4.0
6.4	820	2.8	221.4	"	"	15300	43300	7.6	690	3.3
5.8	900	2.6	245.6	"	"	15300	43300	6.9	760	3.0
4.8	1090	2.1	293.4	"	"	15300	43300	5.8	900	2.6

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 0.55 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
4.3	1220	1.9	325.6	<b>BF60Z-../D08MA4</b>	"	15300	43300	5.2	1010	2.3
3.7	1410	1.65	380.0	"	"	15300	43300	4.5	1160	2.0
3.4	1540	1.5	421.6	"	"	15300	43300	4.0	1310	1.75
3.1	1690	1.35	459.9	"	"	15300	43300	3.7	1410	1.65
2.8	1870	1.25	510.3	"	"	15300	43300	3.3	1590	1.45
2.5	1860	1.35	569.3	<b>BF60G20-../D08MA4</b>	137	15300	43300	3.0	1510	1.65
2.1	2200	1.15	689.0	"	"	15300	43300	2.5	1810	1.4
1.8	2600	0.96	813.2	"	"	15300	43300	2.1	2150	1.15
3.2	1640	3.2	439.2	<b>BF70Z-../D08MA4</b>	218	16100	47700	3.9	1340	3.9
2.8	1870	2.8	512.4	"	"	16100	47700	3.3	1590	3.3
2.7	1720	3.3	524.1	<b>BF70G20-../D08MA4</b>	216	16100	47700	3.3	1370	4.2
2.5	1850	3.1	577.5	"	"	16100	47700	3.0	1500	3.8
2.1	2200	2.6	673.6	"	"	16100	47700	2.5	1810	3.1
1.7	2800	2.0	872.1	"	"	16100	47700	2.0	2350	2.4
1.4	3450	1.65	1017	"	"	16100	47700	1.7	2750	2.1
1.1	4400	1.3	1390	"	"	16100	47700	1.3	3650	1.55
0.9	5400	1.05	1621	"	"	16100	47700	1.1	4350	1.3
1.5	3500	3.0	990.4	<b>BF80Z-../D08MA4</b>	334	39600	75000	1.7	3050	3.4
1.3	4000	2.6	1124	"	"	39600	75000	1.5	3500	3.0
1.1	3300	3.2	1329	<b>BF80G40-../D08MA4</b>	340	39600	75000	1.3	2550	4.1
0.95	4100	2.6	1491	"	"	39600	75000	1.2	2950	3.6
0.85	4550	2.3	1693	"	"	39600	75000	1.0	3650	2.9
0.7	5900	1.8	2051	"	"	39600	75000	0.85	4550	2.3
0.6	7100	1.5	2422	"	"	39600	75000	0.7	5900	1.8
0.55	7500	1.4	2785	"	"	39600	75000	0.65	6000	1.75
0.46	9300	1.15	3092	"	"	39600	75000	0.55	7400	1.4
0.65	6000	3.1	2154	<b>BF90G50-../D08MA4</b>	610	42800	120000	0.8	4500	4.1
0.55	7100	2.6	2656	"	"	42800	120000	0.65	5700	3.2
0.48	8600	2.2	2952	"	"	42800	120000	0.6	6500	2.8
0.43	9700	1.9	3286	"	"	42800	120000	0.55	7000	2.6
0.39	10900	1.7	3644	"	"	42800	120000	0.47	8600	2.2
0.33	13400	1.4	4366	"	"	42800	120000	0.39	10900	1.7
0.29	15600	1.2	4839	"	"	42800	120000	0.35	12500	1.5

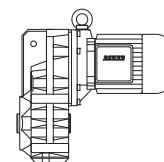
**P = 0.75 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
245	29	2.1	5.72	<b>BF06-../DSE08LA4</b>	17	1630	-	295	24	2.6
183	39	1.75	7.66	"	"	1800	-	220	32.5	2.1
153	46.5	1.5	9.21	"	"	1900	-	183	39	1.8
116	61	1.25	12.07	"	"	2000	-	140	51	1.45
99	72	1.2	14.21	"	"	2100	-	119	60	1.4
83	86	1.1	16.99	"	"	2500	-	99	72	1.3
69	103	0.92	20.42	"	"	2700	-	83	86	1.1
119	60	3.1	11.84	<b>BF10-../DSE08LA4</b>	28	2500	-	142	50	3.7
94	76	2.4	15.04	"	"	2800	-	112	63	2.9
77	93	2.6	18.23	"	"	2900	-	93	77	3.1
70	102	2.4	20.05	"	"	3000	-	84	85	2.8
61	117	2.1	23.28	"	"	3200	-	73	98	2.4
55	130	1.85	25.60	"	"	3350	-	66	108	2.2
49.5	144	1.65	28.47	"	"	3450	-	60	119	2.0
45	159	1.5	31.31	"	"	3600	-	54	132	1.8
39	183	1.3	36.15	"	"	3800	-	46.5	154	1.55
35.5	200	1.2	39.75	"	"	3950	-	42.5	168	1.45
33	215	1.1	43.06	"	"	4100	-	39.5	181	1.35

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 0.75 kW

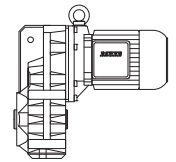


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
30	235	1.0	47.35	<b>BF10-../DSE08LA4</b>	"	4250	-	35.5	200	1.2
27.5	260	0.92	51.28	"	"	4400	-	33	215	1.1
25	285	0.84	56.39	"	"	4550	-	30	235	1.0
58	123	3.3	24.25	<b>BF20-../DSE08LA4</b>	35	3950	-	70	102	4.0
51	140	3.0	27.62	"	"	4150	-	61	117	3.6
46.5	154	2.7	30.40	"	"	4400	-	56	127	3.3
43	166	2.5	32.58	"	"	4450	-	52	137	3.1
39.5	181	2.3	35.85	"	"	4650	-	47	152	2.8
34	210	2.0	41.72	"	"	4950	-	40.5	176	2.4
31	230	1.85	45.90	"	"	5100	-	37	193	2.2
29	245	1.7	48.56	"	"	5200	-	35	200	2.1
26.5	270	1.55	53.43	"	"	5500	-	31.5	225	1.85
24.5	290	1.45	58.24	"	"	5600	-	29	245	1.7
22	325	1.3	64.08	"	"	5900	-	26.5	270	1.55
20.5	345	1.2	69.70	"	"	6100	-	24.5	290	1.45
18.5	385	1.1	76.69	"	"	6300	-	22	325	1.3
16.5	430	0.98	87.31	"	"	6600	-	19.5	365	1.15
15	475	0.88	96.08	"	"	6900	-	17.5	405	1.05
14	510	0.82	100.2	"	"	7000	-	17	420	1.0
40	179	3.2	35.00	<b>BF30-../DSE08LA4</b>	45	4200	-	48	149	3.9
36.5	196	2.9	38.49	"	"	4400	-	44	162	3.5
34.5	205	2.8	41.01	"	"	4500	-	41	174	3.3
31.5	225	2.6	45.10	"	"	4700	-	37.5	191	3.0
27	265	2.2	52.20	"	"	5000	-	32.5	220	2.6
24.5	290	2.0	57.41	"	"	5200	-	29.5	240	2.4
23	310	1.85	61.17	"	"	5300	-	27.5	260	2.2
21	340	1.7	67.28	"	"	5500	-	25	285	2.0
19.5	365	1.6	72.13	"	"	5700	-	23.5	300	1.9
18	395	1.45	79.34	"	"	5900	-	21.5	330	1.75
16.5	430	1.35	87.08	"	"	6200	-	19.5	365	1.6
15	475	1.2	95.79	"	"	6400	-	18	395	1.45
13.5	530	1.1	107.6	"	"	6700	-	16	445	1.3
12	590	0.97	118.3	"	"	7000	-	14.5	490	1.15
11.5	620	0.93	124.7	"	"	7100	-	13.5	530	1.1
10.5	680	0.85	137.1	"	"	7400	-	12.5	570	1.0
26.5	270	3.3	53.82	<b>BF40-../DSE08LA4</b>	54	7200	-	31.5	225	4.0
23	310	2.9	61.25	"	"	7600	-	27.5	260	3.5
21	340	2.6	67.38	"	"	8000	-	25	285	3.2
20	355	2.5	71.40	"	"	8100	-	24	295	3.1
18	395	2.3	78.55	"	"	8500	-	21.5	330	2.7
17	420	2.1	83.91	"	"	8700	-	20.5	345	2.6
15.5	460	1.95	92.31	"	"	9100	-	18.5	385	2.3
14	510	1.75	101.0	"	"	9400	-	17	420	2.1
13	550	1.65	111.1	"	"	9800	-	15.5	460	1.95
11.5	620	1.45	124.5	"	"	10200	-	13.5	530	1.7
10.5	680	1.3	137.0	"	"	10600	-	12.5	570	1.6
10	710	1.25	141.4	<b>BF40Z-../DSE08LA4</b>	58	10600	-	12	590	1.55
9.0	790	1.15	155.6	"	"	10600	-	11	650	1.4
8.2	870	1.05	171.2	"	"	10600	-	9.9	720	1.25
7.5	950	0.95	188.3	"	"	10600	-	9.0	790	1.15
7.0	1020	0.88	202.2	"	"	10600	-	8.4	850	1.05
6.3	1130	0.8	222.4	"	"	10600	-	7.6	940	0.96
17.5	405	3.2	81.33	<b>BF50-../DSE08LA4</b>	83	11300	-	21	340	3.8
16	445	2.9	90.24	"	"	11800	-	19	375	3.5
14	510	2.5	100.9	"	"	12300	-	17	420	3.1
12.5	570	2.3	114.0	"	"	12900	-	15	475	2.7
11	650	2.0	127.5	"	"	13600	-	13.5	530	2.5

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 0.75 kW**

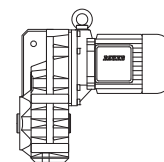


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
10.5	680	1.9	138.1	<b>BF50Z-../DSE08LA4</b>	88	13600	-	12.5	570	2.3
9.1	780	1.65	154.5	"	"	13600	-	11	650	2.0
7.7	930	1.4	183.5	"	"	13600	-	9.2	770	1.7
6.9	1030	1.25	205.2	"	"	13600	-	8.2	870	1.5
5.7	1250	1.05	247.5	"	"	13600	-	6.8	1050	1.25
5.1	1400	0.93	276.8	"	"	13600	-	6.1	1170	1.1
4.5	1590	0.82	316.6	"	"	13600	-	5.4	1320	0.98
10	710	3.2	140.8	<b>BF60Z-../DSE08LA4</b>	131	15300	43300	12	590	3.9
8.3	860	2.7	169.2	"	"	15300	43300	10	710	3.2
7.5	950	2.4	187.7	"	"	15300	43300	9.0	790	2.9
6.4	1110	2.1	221.4	"	"	15300	43300	7.6	940	2.4
5.8	1230	1.85	245.6	"	"	15300	43300	6.9	1030	2.2
4.8	1490	1.55	293.4	"	"	15300	43300	5.8	1230	1.85
4.3	1660	1.4	325.6	"	"	15300	43300	5.2	1370	1.7
3.7	1930	1.2	380.0	"	"	15300	43300	4.5	1590	1.45
3.4	2100	1.1	421.6	"	"	15300	43300	4.0	1790	1.3
3.1	2300	1.0	459.9	"	"	15300	43300	3.7	1930	1.2
2.8	2550	0.9	510.3	"	"	15300	43300	3.3	2150	1.05
2.5	2600	0.96	569.3	<b>BF60G20-../DSE08LA4</b>	139	15300	43300	3.0	2100	1.2
2.1	3100	0.81	689.0	"	"	15300	43300	2.5	2550	0.98
4.1	1740	3.0	341.7	<b>BF70Z-../DSE08LA4</b>	220	16100	47700	5.0	1430	3.6
3.6	1980	2.6	398.7	"	"	16100	47700	4.3	1660	3.1
3.2	2200	2.4	439.2	"	"	16100	47700	3.9	1830	2.8
2.8	2550	2.0	512.4	"	"	16100	47700	3.3	2150	2.4
2.7	2400	2.4	524.1	<b>BF70G20-../DSE08LA4</b>	217	16100	47700	3.3	1950	2.9
2.5	2600	2.2	577.5	"	"	16100	47700	3.0	2100	2.7
2.1	3100	1.85	673.6	"	"	16100	47700	2.5	2550	2.2
1.7	3950	1.45	872.1	"	"	16100	47700	2.0	3300	1.75
1.4	4800	1.2	1017	"	"	16100	47700	1.7	3900	1.45
1.1	6100	0.93	1390	"	"	16100	47700	1.3	5100	1.1
2.2	3250	3.2	662.1	<b>BF80Z-../DSE08LA4</b>	336	39600	75000	2.6	2750	3.8
1.9	3750	2.8	770.6	"	"	39600	75000	2.2	3250	3.2
1.7	4200	2.5	874.6	"	"	39600	75000	2.0	3550	3.0
1.5	4750	2.2	990.4	"	"	39600	75000	1.7	4200	2.5
1.3	5500	1.9	1124	"	"	39600	75000	1.5	4750	2.2
1.1	5000	2.1	1329	<b>BF80G40-../DSE08LA4</b>	341	39600	75000	1.3	4050	2.6
0.95	6100	1.7	1491	"	"	39600	75000	1.2	4550	2.3
0.85	6800	1.55	1693	"	"	39600	75000	1.0	5500	1.9
0.7	8600	1.2	2051	"	"	39600	75000	0.85	6800	1.55
0.6	10300	1.0	2422	"	"	39600	75000	0.7	8600	1.2
1.0	5700	3.2	1444	<b>BF90G50-../DSE08LA4</b>	612	42800	120000	1.2	4550	4.1
0.85	6800	2.7	1678	"	"	42800	120000	1.1	4900	3.8
0.75	7700	2.4	1867	"	"	42800	120000	0.9	6100	3.0
0.65	8900	2.1	2154	"	"	42800	120000	0.8	6800	2.7
0.55	10600	1.75	2656	"	"	42800	120000	0.65	8600	2.2
0.48	12600	1.45	2952	"	"	42800	120000	0.6	9600	1.95
0.43	14100	1.3	3286	"	"	42800	120000	0.55	10500	1.75
0.39	15800	1.15	3644	"	"	42800	120000	0.47	12700	1.45

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 1.1 kW

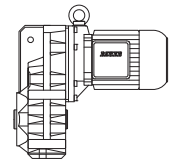


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
245	42.5	1.45	5.72	<b>BF06-../DSE08XA4</b>	18	1630	-	295	35.5	1.75
183	57	1.2	7.66	"	"	1800	-	220	47.5	1.45
153	68	1.05	9.21	"	"	1900	-	183	57	1.25
116	90	0.83	12.07	"	"	2000	-	140	75	1.0
99	106	0.8	14.21	"	"	2100	-	119	88	0.97
250	42	3.3	5.60	<b>BF10-../DSE08XA4</b>	30	1980	-	300	35	3.9
185	56	2.7	7.58	"	"	2200	-	225	46.5	3.3
145	72	2.5	9.69	"	"	2350	-	174	60	3.0
119	88	2.1	11.84	"	"	2500	-	142	73	2.5
94	111	1.65	15.04	"	"	2800	-	112	93	1.95
77	136	1.75	18.23	"	"	2900	-	93	112	2.1
70	150	1.6	20.05	"	"	3000	-	84	125	1.9
61	172	1.4	23.28	"	"	3200	-	73	143	1.7
55	191	1.25	25.60	"	"	3350	-	66	159	1.5
49.5	210	1.15	28.47	"	"	3450	-	60	175	1.35
45	230	1.05	31.31	"	"	3600	-	54	194	1.25
39	265	0.91	36.15	"	"	3800	-	46.5	225	1.05
35.5	295	0.81	39.75	"	"	3950	-	42.5	245	0.98
134	78	3.3	10.51	<b>BF20-../DSE08XA4</b>	36	3100	-	160	65	3.9
107	98	2.9	13.18	"	"	3300	-	128	82	3.5
91	115	2.7	15.54	"	"	3450	-	109	96	3.2
84	125	2.9	16.77	"	"	3500	-	101	104	3.5
76	138	2.7	18.45	"	"	3600	-	92	114	3.2
64	164	2.4	22.04	"	"	3800	-	77	136	2.9
58	181	2.2	24.25	"	"	3950	-	70	150	2.7
51	205	2.0	27.62	"	"	4150	-	61	172	2.4
46.5	225	1.85	30.40	"	"	4400	-	56	187	2.2
43	240	1.75	32.58	"	"	4450	-	52	200	2.1
39.5	265	1.6	35.85	"	"	4650	-	47	220	1.9
34	305	1.4	41.72	"	"	4950	-	40.5	255	1.65
31	335	1.25	45.90	"	"	5100	-	37	280	1.5
29	360	1.15	48.56	"	"	5200	-	35	300	1.4
26.5	395	1.05	53.43	"	"	5500	-	31.5	330	1.25
24.5	425	0.99	58.24	"	"	5600	-	29	360	1.15
22	475	0.88	64.08	"	"	5900	-	26.5	395	1.05
20.5	510	0.82	69.70	"	"	6100	-	24.5	425	0.99
65	161	3.3	21.85	<b>BF30-../DSE08XA4</b>	46	3500	-	77	136	3.9
59	178	3.1	24.03	"	"	3600	-	70	150	3.7
50	210	2.7	28.23	"	"	3800	-	60	175	3.3
45.5	230	2.5	31.05	"	"	4000	-	55	191	3.0
40	260	2.2	35.00	"	"	4200	-	48	215	2.7
36.5	285	2.0	38.49	"	"	4400	-	44	235	2.4
34.5	300	1.9	41.01	"	"	4500	-	41	255	2.3
31.5	330	1.75	45.10	"	"	4700	-	37.5	280	2.1
27	385	1.5	52.20	"	"	5000	-	32.5	320	1.8
24.5	425	1.35	57.41	"	"	5200	-	29.5	355	1.6
23	455	1.25	61.17	"	"	5300	-	27.5	380	1.5
21	500	1.15	67.28	"	"	5500	-	25	420	1.35
19.5	530	1.1	72.13	"	"	5700	-	23.5	445	1.3
18	580	0.99	79.34	"	"	5900	-	21.5	485	1.2
16.5	630	0.91	87.08	"	"	6200	-	19.5	530	1.1
15	700	0.82	95.79	"	"	6400	-	18	580	0.99
37.5	280	3.2	37.64	<b>BF40-../DSE08XA4</b>	55	6200	-	45	230	3.9
34	305	3.0	41.42	"	"	6500	-	41	255	3.5
31	335	2.7	45.56	"	"	6800	-	37	280	3.2
29	360	2.5	48.92	"	"	7000	-	34.5	300	3.0
26.5	395	2.3	53.82	"	"	7200	-	31.5	330	2.7
23	455	2.0	61.25	"	"	7600	-	27.5	380	2.4
21	500	1.8	67.38	"	"	8000	-	25	420	2.1

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 1.1 kW

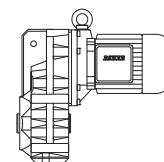


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
20	520	1.75	71.40	<b>BF40-../DSE08XA4</b>	"	8100	-	24	435	2.1
18	580	1.55	78.55	"	"	8500	-	21.5	485	1.85
17	610	1.5	83.91	"	"	8700	-	20.5	510	1.75
15.5	670	1.35	92.31	"	"	9100	-	18.5	560	1.6
14	750	1.2	101.0	"	"	9400	-	17	610	1.5
13	800	1.15	111.1	"	"	9800	-	15.5	670	1.35
11.5	910	0.99	124.5	"	"	10200	-	13.5	770	1.15
10.5	1000	0.9	137.0	"	"	10600	-	12.5	840	1.05
10	1050	0.86	141.4	<b>BF40Z-../DSE08XA4</b>	59	10600	-	12	870	1.05
25	420	3.1	56.86	<b>BF50-../DSE08XA4</b>	84	9300	-	30	350	3.7
22.5	465	2.8	63.59	"	"	9800	-	26.5	395	3.3
19.5	530	2.5	72.72	"	"	10700	-	23.5	445	2.9
17.5	600	2.2	81.33	"	"	11300	-	21	500	2.6
16	650	2.0	90.24	"	"	11800	-	19	550	2.4
14	750	1.75	100.9	"	"	12300	-	17	610	2.1
12.5	840	1.55	114.0	"	"	12900	-	15	700	1.85
11	950	1.35	127.5	"	"	13600	-	13.5	770	1.7
10.5	1000	1.3	138.1	<b>BF50Z-../DSE08XA4</b>	88	13600	-	12.5	840	1.55
9.1	1150	1.15	154.5	"	"	13600	-	11	950	1.35
7.7	1360	0.96	183.5	"	"	13600	-	9.2	1140	1.15
6.9	1520	0.86	205.2	"	"	13600	-	8.2	1280	1.0
10	1050	2.2	140.8	<b>BF60Z-../DSE08XA4</b>	132	15300	43300	12	870	2.6
8.3	1260	1.85	169.2	"	"	15300	43300	10	1050	2.2
7.5	1400	1.65	187.7	"	"	15300	43300	9.0	1160	2.0
6.4	1640	1.4	221.4	"	"	15300	43300	7.6	1380	1.65
5.8	1810	1.25	245.6	"	"	15300	43300	6.9	1520	1.5
4.8	2150	1.05	293.4	"	"	15300	43300	5.8	1810	1.25
4.3	2400	0.96	325.6	"	"	15300	43300	5.2	2000	1.15
3.7	2800	0.82	380.0	"	"	15300	43300	4.5	2300	1.0
6.1	1720	3.0	233.0	<b>BF70Z-../DSE08XA4</b>	220	16100	47700	7.3	1430	3.6
5.5	1910	2.7	258.7	"	"	16100	47700	6.5	1610	3.2
4.7	2200	2.4	301.8	"	"	16100	47700	5.6	1870	2.8
4.1	2550	2.0	341.7	"	"	16100	47700	5.0	2100	2.5
3.6	2900	1.8	398.7	"	"	16100	47700	4.3	2400	2.2
3.2	3250	1.6	439.2	"	"	16100	47700	3.9	2650	1.95
2.8	3750	1.4	512.4	"	"	16100	47700	3.3	3150	1.65
2.7	3650	1.55	524.1	<b>BF70G20-../DSE08XA4</b>	218	16100	47700	3.3	2950	1.95
2.5	3950	1.45	577.5	"	"	16100	47700	3.0	3250	1.75
2.1	4700	1.2	673.6	"	"	16100	47700	2.5	3900	1.45
1.7	5900	0.97	872.1	"	"	16100	47700	2.0	4950	1.15
3.2	3250	3.2	450.4	<b>BF80Z-../DSE08XA4</b>	337	39600	75000	3.8	2750	3.8
2.8	3750	2.8	511.2	"	"	39600	75000	3.3	3150	3.3
2.4	4350	2.4	583.4	"	"	39600	75000	2.9	3600	2.9
2.2	4750	2.2	662.1	"	"	39600	75000	2.6	4000	2.6
1.9	5500	1.9	770.6	"	"	39600	75000	2.2	4750	2.2
1.7	6100	1.7	874.6	"	"	39600	75000	2.0	5200	2.0
1.5	7000	1.5	990.4	"	"	39600	75000	1.7	6100	1.7
1.3	8000	1.3	1124	"	"	39600	75000	1.5	7000	1.5
1.1	8100	1.3	1329	<b>BF80G40-../DSE08XA4</b>	342	39600	75000	1.3	6600	1.6
0.95	9600	1.1	1491	"	"	39600	75000	1.2	7300	1.45
1.4	6100	3.0	1043	<b>BF90G50-../DSE08XA4</b>	613	42800	120000	1.7	4750	3.9
1.2	7100	2.6	1204	"	"	42800	120000	1.4	5800	3.2
1.0	9100	2.0	1444	"	"	42800	120000	1.2	7300	2.5
0.85	10700	1.75	1678	"	"	42800	120000	1.1	7900	2.3
0.75	12200	1.5	1867	"	"	42800	120000	0.9	9800	1.9
0.65	14100	1.3	2154	"	"	42800	120000	0.8	11000	1.7
0.55	16700	1.1	2656	"	"	42800	120000	0.65	13700	1.35

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 1.5 kW



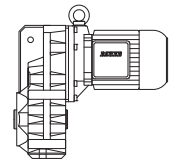
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
255	56	2.5	5.60	<b>BF10-../DSE09LA4</b>	36	1980	-	310	46	3.0
188	76	2.0	7.58	"	"	2200	-	230	62	2.5
147	97	1.8	9.69	"	"	2350	-	177	80	2.2
120	119	1.55	11.84	"	"	2500	-	145	98	1.85
95	150	1.2	15.04	"	"	2800	-	114	125	1.45
78	183	1.3	18.23	"	"	2900	-	94	152	1.6
71	200	1.2	20.05	"	"	3000	-	86	166	1.45
61	230	1.05	23.28	"	"	3200	-	74	193	1.25
56	255	0.94	25.60	"	"	3350	-	67	210	1.15
50	285	0.84	28.47	"	"	3450	-	61	230	1.05
178	80	2.8	8.00	<b>BF20-../DSE09LA4</b>	42	2850	-	215	66	3.3
136	105	2.4	10.51	"	"	3100	-	163	87	2.9
108	132	2.2	13.18	"	"	3300	-	130	110	2.6
92	155	2.0	15.54	"	"	3450	-	111	129	2.4
85	168	2.2	16.77	"	"	3500	-	102	140	2.6
77	186	2.0	18.45	"	"	3600	-	93	154	2.4
65	220	1.8	22.04	"	"	3800	-	78	183	2.2
59	240	1.7	24.25	"	"	3950	-	71	200	2.0
52	275	1.55	27.62	"	"	4150	-	62	230	1.85
47	300	1.4	30.40	"	"	4400	-	57	250	1.7
44	325	1.3	32.58	"	"	4450	-	53	270	1.55
40	355	1.2	35.85	"	"	4650	-	48	295	1.4
34.5	415	1.0	41.72	"	"	4950	-	41	345	1.2
31	460	0.91	45.90	"	"	5100	-	37.5	380	1.1
29.5	485	0.87	48.56	"	"	5200	-	35.5	400	1.05
143	100	3.2	9.99	<b>BF30-../DSE09LA4</b>	53	2850	-	172	83	3.9
110	130	2.8	12.91	"	"	3050	-	133	107	3.4
89	160	2.6	16.00	"	"	3250	-	107	133	3.1
81	176	2.7	17.65	"	"	3300	-	97	147	3.3
74	193	2.6	19.41	"	"	3400	-	89	160	3.1
65	220	2.4	21.85	"	"	3500	-	79	181	2.9
60	235	2.4	24.03	"	"	3600	-	72	198	2.8
51	280	2.1	28.23	"	"	3800	-	61	230	2.5
46	310	1.85	31.05	"	"	4000	-	56	255	2.3
41	345	1.65	35.00	"	"	4200	-	49	290	2.0
37	385	1.5	38.49	"	"	4400	-	44.5	320	1.8
35	405	1.4	41.01	"	"	4500	-	42	340	1.7
31.5	450	1.3	45.10	"	"	4700	-	38	375	1.55
27.5	520	1.1	52.20	"	"	5000	-	33	430	1.35
25	570	1.0	57.41	"	"	5200	-	30	475	1.2
23.5	600	0.96	61.17	"	"	5300	-	28	510	1.15
21.5	660	0.87	67.28	"	"	5500	-	25.5	560	1.05
20	710	0.81	72.13	"	"	5700	-	24	590	0.97
66	215	3.3	21.60	<b>BF40-../DSE09LA4</b>	62	5200	-	80	179	3.9
60	235	3.1	23.77	"	"	5400	-	72	198	3.7
53	270	2.9	26.86	"	"	5600	-	64	220	3.5
48.5	295	2.7	29.55	"	"	5800	-	58	245	3.3
42	340	2.5	34.21	"	"	6000	-	50	285	3.0
38	375	2.4	37.64	"	"	6200	-	45.5	310	2.9
34.5	415	2.2	41.42	"	"	6500	-	41.5	345	2.6
31.5	450	2.0	45.56	"	"	6800	-	38	375	2.4
29.5	485	1.85	48.92	"	"	7000	-	35	405	2.2
26.5	540	1.65	53.82	"	"	7200	-	32	445	2.0
23.5	600	1.5	61.25	"	"	7600	-	28	510	1.75
21.5	660	1.35	67.38	"	"	8000	-	25.5	560	1.6
20	710	1.25	71.40	"	"	8100	-	24	590	1.55
18.5	770	1.15	78.55	"	"	8500	-	22	650	1.4
17	840	1.05	83.91	"	"	8700	-	20.5	690	1.3
15.5	920	0.98	92.31	"	"	9100	-	19	750	1.2
14.5	980	0.92	101.0	"	"	9400	-	17	840	1.05
13	1100	0.82	111.1	"	"	9800	-	15.5	920	0.98



# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 1.5 kW**



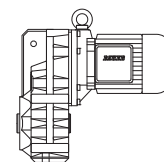
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
34	420	3.1	42.15	<b>BF50-../DSE09LA4</b>	90	8500	-	41	345	3.8
30.5	465	2.8	47.14	"	"	8900	-	36.5	390	3.3
25	570	2.3	56.86	"	"	9300	-	30.5	465	2.8
22.5	630	2.1	63.59	"	"	9800	-	27	530	2.5
20	710	1.85	72.72	"	"	10700	-	24	590	2.2
17.5	810	1.6	81.33	"	"	11300	-	21.5	660	1.95
16	890	1.45	90.24	"	"	11800	-	19	750	1.75
14.5	980	1.35	100.9	"	"	12300	-	17	840	1.55
12.5	1140	1.15	114.0	"	"	12900	-	15	950	1.35
11.5	1240	1.05	127.5	"	"	13600	-	13.5	1060	1.25
10.5	1360	0.96	138.1	<b>BF50Z-../DSE09LA4</b>	95	13600	-	12.5	1140	1.15
9.2	1550	0.84	154.5	"	"	13600	-	11.5	1240	1.05
20	710	3.2	72.15	<b>BF60-../DSE09LA4</b>	120	12000	34000	24	590	3.9
18	790	2.9	80.05	"	"	12600	35600	21.5	660	3.5
15.5	920	2.5	93.44	"	"	13500	38200	18.5	770	3.0
14	1020	2.3	103.7	"	"	14100	39900	16.5	860	2.7
13	1100	2.1	113.1	"	"	14600	41300	15.5	920	2.5
11.5	1240	1.85	125.5	"	"	15300	43300	14	1020	2.3
10.5	1360	1.7	140.8	<b>BF60Z-../DSE09LA4</b>	139	15300	43300	12.5	1140	2.0
8.4	1700	1.35	169.2	"	"	15300	43300	10.5	1360	1.7
7.6	1880	1.2	187.7	"	"	15300	43300	9.2	1550	1.5
6.5	2200	1.05	221.4	"	"	15300	43300	7.8	1830	1.25
5.8	2450	0.94	245.6	"	"	15300	43300	7.0	2000	1.15
8.0	1790	2.9	179.7	<b>BF70Z-../DSE09LA4</b>	227	16100	47700	9.6	1490	3.5
7.2	1980	2.6	199.7	"	"	16100	47700	8.6	1660	3.1
6.1	2300	2.3	233.0	"	"	16100	47700	7.4	1930	2.7
5.5	2600	2.0	258.7	"	"	16100	47700	6.7	2100	2.5
4.8	2950	1.75	301.8	"	"	16100	47700	5.7	2500	2.1
4.2	3400	1.55	341.7	"	"	16100	47700	5.1	2800	1.85
3.6	3950	1.3	398.7	"	"	16100	47700	4.3	3300	1.6
3.3	4300	1.2	439.2	"	"	16100	47700	3.9	3650	1.4
2.8	5100	1.0	512.4	"	"	16100	47700	3.4	4200	1.25
2.5	5400	1.05	577.5	<b>BF70G20-../DSE09LA4</b>	225	16100	47700	3.0	4500	1.25
2.2	6200	0.92	673.6	"	"	16100	47700	2.6	5200	1.1
4.1	3450	3.0	347.3	<b>BF80Z-../DSE09LA4</b>	344	39600	75000	5.0	2850	3.7
3.7	3850	2.7	394.2	"	"	39600	75000	4.4	3250	3.2
3.2	4450	2.4	450.4	"	"	39600	75000	3.8	3750	2.8
2.8	5100	2.1	511.2	"	"	39600	75000	3.4	4200	2.5
2.5	5700	1.85	583.4	"	"	39600	75000	3.0	4750	2.2
2.2	6500	1.6	662.1	"	"	39600	75000	2.6	5500	1.9
1.9	7500	1.4	770.6	"	"	39600	75000	2.3	6200	1.7
1.7	8400	1.25	874.6	"	"	39600	75000	2.0	7100	1.5
1.5	9500	1.1	990.4	"	"	39600	75000	1.8	7900	1.35
1.3	11000	0.95	1124	"	"	39600	75000	1.6	8900	1.2
1.1	11500	0.91	1329	<b>BF80G40-../DSE09LA4</b>	349	39600	75000	1.3	9500	1.1
1.0	12900	0.81	1491	"	"	39600	75000	1.2	10500	1.0
2.5	5700	3.2	591.1	<b>BF90Z-../DSE09LA4</b>	608	42800	120000	2.9	4900	3.8
2.2	6500	2.8	658.1	"	"	42800	120000	2.6	5500	3.4
1.9	7500	2.5	759.0	"	"	42800	120000	2.3	6200	3.0
1.7	8400	2.2	845.1	"	"	42800	120000	2.1	6800	2.7
1.5	7900	2.3	976.1	<b>BF90G50-../DSE09LA4</b>	620	42800	120000	1.8	6300	2.9
1.4	8800	2.1	1043	"	"	42800	120000	1.7	7000	2.6
1.2	10300	1.8	1204	"	"	42800	120000	1.5	7900	2.3
1.0	12900	1.45	1444	"	"	42800	120000	1.2	10500	1.75
0.85	15200	1.2	1678	"	"	42800	120000	1.1	11400	1.6
0.8	16100	1.15	1867	"	"	42800	120000	0.95	13200	1.4
0.7	18400	1.0	2154	"	"	42800	120000	0.8	15800	1.15

7

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 2.2 kW

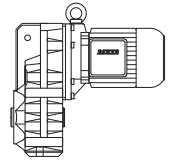


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
255	82	1.7	5.60	<b>BF10-../DSE09XA4</b>	40	1980	-	310	67	2.1
188	111	1.4	7.58	"	"	2200	-	230	91	1.7
147	142	1.25	9.69	"	"	2350	-	177	118	1.5
120	175	1.05	11.84	"	"	2500	-	145	144	1.25
95	220	0.83	15.04	"	"	2800	-	114	184	0.99
78	265	0.91	18.23	"	"	2900	-	94	220	1.1
71	295	0.81	20.05	"	"	3000	-	86	240	1.0
240	87	2.3	6.04	<b>BF20-../DSE09XA4</b>	46	2550	-	285	73	2.7
178	118	1.85	8.00	"	"	2850	-	215	97	2.3
136	154	1.65	10.51	"	"	3100	-	163	128	2.0
108	194	1.45	13.18	"	"	3300	-	130	161	1.75
92	225	1.35	15.54	"	"	3450	-	111	189	1.65
85	245	1.5	16.77	"	"	3500	-	102	205	1.75
77	270	1.35	18.45	"	"	3600	-	93	225	1.65
65	320	1.25	22.04	"	"	3800	-	78	265	1.5
59	355	1.15	24.25	"	"	3950	-	71	295	1.35
52	400	1.05	27.62	"	"	4150	-	62	335	1.25
47	445	0.94	30.40	"	"	4400	-	57	365	1.15
44	475	0.88	32.58	"	"	4450	-	53	395	1.05
40	520	0.81	35.85	"	"	4650	-	48	435	0.97
225	93	2.8	6.34	<b>BF30-../DSE09XA4</b>	57	2400	-	270	77	3.4
176	119	2.4	8.07	"	"	2650	-	215	97	2.9
143	146	2.2	9.99	"	"	2850	-	172	122	2.6
110	191	1.9	12.91	"	"	3050	-	133	157	2.3
89	235	1.75	16.00	"	"	3250	-	107	196	2.1
81	255	1.9	17.65	"	"	3300	-	97	215	2.2
74	280	1.8	19.41	"	"	3400	-	89	235	2.1
65	320	1.65	21.85	"	"	3500	-	79	265	2.0
60	350	1.6	24.03	"	"	3600	-	72	290	1.9
51	410	1.4	28.23	"	"	3800	-	61	340	1.7
46	455	1.25	31.05	"	"	4000	-	56	375	1.55
41	510	1.15	35.00	"	"	4200	-	49	425	1.35
37	560	1.05	38.49	"	"	4400	-	44.5	470	1.2
35	600	0.96	41.01	"	"	4500	-	42	500	1.15
31.5	660	0.87	45.10	"	"	4700	-	38	550	1.05
187	112	3.3	7.62	<b>BF40-../DSE09XA4</b>	66	3900	-	225	93	4.0
150	140	3.0	9.48	"	"	4150	-	181	116	3.6
121	173	2.7	11.79	"	"	4450	-	146	143	3.3
95	220	2.4	15.02	"	"	4800	-	114	184	2.8
82	255	2.5	17.35	"	"	4950	-	99	210	3.0
75	280	2.4	19.09	"	"	5100	-	90	230	2.9
66	315	2.2	21.60	"	"	5200	-	80	260	2.7
60	350	2.1	23.77	"	"	5400	-	72	290	2.5
53	395	1.95	26.86	"	"	5600	-	64	325	2.4
48.5	430	1.9	29.55	"	"	5800	-	58	360	2.2
42	500	1.7	34.21	"	"	6000	-	50	420	2.0
38	550	1.6	37.64	"	"	6200	-	45.5	460	1.95
34.5	600	1.5	41.42	"	"	6500	-	41.5	500	1.8
31.5	660	1.35	45.56	"	"	6800	-	38	550	1.65
29.5	710	1.25	48.92	"	"	7000	-	35	600	1.5
26.5	790	1.15	53.82	"	"	7200	-	32	650	1.4
23.5	890	1.0	61.25	"	"	7600	-	28	750	1.2
21.5	970	0.93	67.38	"	"	8000	-	25.5	820	1.1
20	1050	0.86	71.40	"	"	8100	-	24	870	1.05
18.5	1130	0.8	78.55	"	"	8500	-	22	950	0.95

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 2.2 kW

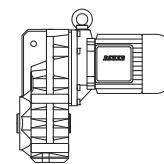


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
62	335	3.3	23.14	BF50-../DSE09XA4	94	6800	-	74	280	4.0
55	380	3.1	25.88	"	"	7100	-	67	310	3.8
45	465	2.7	31.73	"	"	7500	-	54	385	3.3
40.5	510	2.5	35.49	"	"	7800	-	48.5	430	3.0
34	610	2.1	42.15	"	"	8500	-	41	510	2.5
30.5	680	1.9	47.14	"	"	8900	-	36.5	570	2.3
25	840	1.55	56.86	"	"	9300	-	30.5	680	1.9
22.5	930	1.4	63.59	"	"	9800	-	27	770	1.7
20	1050	1.25	72.72	"	"	10700	-	24	870	1.5
17.5	1200	1.1	81.33	"	"	11300	-	21.5	970	1.35
16	1310	0.99	90.24	"	"	11800	-	19	1100	1.2
14.5	1440	0.9	100.9	"	"	12300	-	17	1230	1.05
31	670	3.3	46.16	BF60-../DSE09XA4	124	9900	28000	37.5	560	4.0
26.5	790	2.9	54.44	"	"	10500	29700	31.5	660	3.5
24	870	2.6	60.40	"	"	11100	31400	28.5	730	3.2
20	1050	2.2	72.15	"	"	12000	34000	24	870	2.6
18	1160	2.0	80.05	"	"	12600	35600	21.5	970	2.4
15.5	1350	1.7	93.44	"	"	13500	38200	18.5	1130	2.0
14	1500	1.55	103.7	"	"	14100	39900	16.5	1270	1.8
13	1610	1.45	113.1	"	"	14600	41300	15.5	1350	1.7
11.5	1820	1.25	125.5	"	"	15300	43300	14	1500	1.55
10.5	2000	1.15	140.8	BF60Z-../DSE09XA4	143	15300	43300	12.5	1680	1.35
8.4	2500	0.92	169.2	"	"	15300	43300	10.5	2000	1.15
7.6	2750	0.84	187.7	"	"	15300	43300	9.2	2250	1.0
12	1750	3.0	122.7	BF70-../DSE09XA4	210	16100	47700	14	1500	3.5
11	1910	2.7	133.0	BF70Z-../DSE09XA4	231	16100	47700	13	1610	3.2
9.3	2250	2.3	154.0	"	"	16100	47700	11.5	1820	2.9
8.0	2600	2.0	179.7	"	"	16100	47700	9.6	2150	2.4
7.2	2900	1.8	199.7	"	"	16100	47700	8.6	2400	2.2
6.1	3400	1.55	233.0	"	"	16100	47700	7.4	2800	1.85
5.5	3800	1.35	258.7	"	"	16100	47700	6.7	3100	1.7
4.8	4350	1.2	301.8	"	"	16100	47700	5.7	3650	1.4
4.2	5000	1.05	341.7	"	"	16100	47700	5.1	4100	1.25
3.6	5800	0.9	398.7	"	"	16100	47700	4.3	4850	1.05
3.3	6300	0.83	439.2	"	"	16100	47700	3.9	5300	0.98
6.8	3050	3.1	209.4	BF80-../DSE09XA4	307	34300	75000	8.2	2550	3.7
6.0	3500	2.7	237.1	"	"	36900	75000	7.3	2850	3.3
5.3	3950	2.4	269.1	"	"	39600	75000	6.4	3250	2.9
4.9	4250	2.5	291.7	BF80Z-../DSE09XA4	348	39600	75000	5.9	3550	3.0
4.1	5100	2.1	347.3	"	"	39600	75000	5.0	4200	2.5
3.7	5600	1.9	394.2	"	"	39600	75000	4.4	4750	2.2
3.2	6500	1.6	450.4	"	"	39600	75000	3.8	5500	1.9
2.8	7500	1.4	511.2	"	"	39600	75000	3.4	6100	1.7
2.5	8400	1.25	583.4	"	"	39600	75000	3.0	7000	1.5
2.2	9500	1.1	662.1	"	"	39600	75000	2.6	8000	1.3
1.9	11000	0.95	770.6	"	"	39600	75000	2.3	9100	1.15
1.7	12300	0.85	874.6	"	"	39600	75000	2.0	10500	1.0
3.2	6500	2.8	456.7	BF90Z-../DSE09XA4	612	42800	120000	3.8	5500	3.4
2.8	7500	2.5	508.5	"	"	42800	120000	3.4	6100	3.0
2.5	8400	2.2	591.1	"	"	42800	120000	2.9	7200	2.6
2.2	9500	1.95	658.1	"	"	42800	120000	2.6	8000	2.3
1.9	11000	1.7	759.0	"	"	42800	120000	2.3	9100	2.0
1.7	12300	1.5	845.1	"	"	42800	120000	2.1	10000	1.85
1.5	12400	1.5	976.1	BF90G50-../DSE09XA4	624	42800	120000	1.8	10000	1.85
1.4	13600	1.35	1043	"	"	42800	120000	1.7	10900	1.7
1.2	15800	1.15	1204	"	"	42800	120000	1.5	12300	1.5
1.0	19600	0.94	1444	"	"	42800	120000	1.2	16100	1.15

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 3 kW

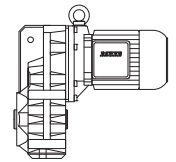


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
225	127	2.1	6.34	<b>BF30-../DSE11SA4</b>	60	2400	-	270	106	2.5
176	162	1.75	8.07	"	"	2650	-	215	133	2.2
143	200	1.6	9.99	"	"	2850	-	172	166	1.95
110	260	1.4	12.91	"	"	3050	-	133	215	1.7
89	320	1.3	16.00	"	"	3250	-	107	265	1.55
81	350	1.35	17.65	"	"	3300	-	97	295	1.6
74	385	1.3	19.41	"	"	3400	-	89	320	1.55
65	440	1.2	21.85	"	"	3500	-	79	360	1.45
60	475	1.15	24.03	"	"	3600	-	72	395	1.4
51	560	1.05	28.23	"	"	3800	-	61	465	1.25
46	620	0.93	31.05	"	"	4000	-	56	510	1.15
41	690	0.83	35.00	"	"	4200	-	49	580	0.99
245	116	2.9	5.87	<b>BF40-../DSE11SA4</b>	74	3550	-	295	97	3.5
187	153	2.4	7.62	"	"	3900	-	225	127	2.9
150	191	2.2	9.48	"	"	4150	-	181	158	2.6
121	235	2.0	11.79	"	"	4450	-	146	196	2.4
95	300	1.75	15.02	"	"	4800	-	114	250	2.1
82	345	1.85	17.35	"	"	4950	-	99	285	2.2
75	380	1.75	19.09	"	"	5100	-	90	315	2.1
66	430	1.65	21.60	"	"	5200	-	80	355	2.0
60	475	1.55	23.77	"	"	5400	-	72	395	1.85
53	540	1.45	26.86	"	"	5600	-	64	445	1.75
48.5	590	1.35	29.55	"	"	5800	-	58	490	1.65
42	680	1.25	34.21	"	"	6000	-	50	570	1.5
38	750	1.2	37.64	"	"	6200	-	45.5	620	1.45
34.5	830	1.1	41.42	"	"	6500	-	41.5	690	1.3
31.5	900	1.0	45.56	"	"	6800	-	38	750	1.2
29.5	970	0.93	48.92	"	"	7000	-	35	810	1.1
26.5	1080	0.83	53.82	"	"	7200	-	32	890	1.0
133	215	3.1	10.68	<b>BF50-../DSE11SA4</b>	104	5600	-	161	177	3.8
97	295	2.7	14.65	"	"	6100	-	117	240	3.3
86	330	2.9	16.70	"	"	6200	-	103	275	3.5
77	370	2.7	18.68	"	"	6400	-	92	310	3.2
62	460	2.4	23.14	"	"	6800	-	74	385	2.9
55	520	2.2	25.88	"	"	7100	-	67	425	2.7
45	630	2.0	31.73	"	"	7500	-	54	530	2.4
40.5	700	1.85	35.49	"	"	7800	-	48.5	590	2.2
34	840	1.55	42.15	"	"	8500	-	41	690	1.9
30.5	930	1.4	47.14	"	"	8900	-	36.5	780	1.65
25	1140	1.15	56.86	"	"	9300	-	30.5	930	1.4
22.5	1270	1.0	63.59	"	"	9800	-	27	1060	1.25
20	1430	0.91	72.72	"	"	10700	-	24	1190	1.1
17.5	1630	0.8	81.33	"	"	11300	-	21.5	1330	0.98
46	620	3.1	31.20	<b>BF60-../DSE11SA4</b>	135	8800	24900	55	520	3.7
41.5	690	2.9	34.62	"	"	9100	25700	49.5	570	3.5
34.5	830	2.6	41.60	"	"	9600	27100	41.5	690	3.1
31	920	2.4	46.16	"	"	9900	28000	37.5	760	2.9
26.5	1080	2.1	54.44	"	"	10500	29700	31.5	900	2.6
24	1190	1.95	60.40	"	"	11100	31400	28.5	1000	2.3
20	1430	1.6	72.15	"	"	12000	34000	24	1190	1.95
18	1590	1.45	80.05	"	"	12600	35600	21.5	1330	1.75
15.5	1840	1.25	93.44	"	"	13500	38200	18.5	1540	1.5
14	2000	1.15	103.7	"	"	14100	39900	16.5	1730	1.35
13	2200	1.05	113.1	"	"	14600	41300	15.5	1840	1.25
11.5	2450	0.94	125.5	"	"	15300	43300	14	2000	1.15
10.5	2700	0.85	140.8	<b>BF60Z-../DSE11SA4</b>	151	15300	43300	12.5	2250	1.0
17.5	1630	3.2	81.82	<b>BF70-../DSE11SA4</b>	214	12800	41300	21	1360	3.8
15	1910	2.7	95.46	"	"	14000	43700	18	1590	3.3
13.5	2100	2.5	105.2	"	"	14700	45100	16.5	1730	3.0
12	2350	2.2	122.7	"	"	16100	47700	14	2000	2.6

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 3 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
11	2600	2.0	133.0	<b>BF70Z-../DSE11SA4</b>	241	16100	47700	13	2200	2.4
9.3	3050	1.7	154.0	"	"	16100	47700	11.5	2450	2.1
8.0	3550	1.45	179.7	"	"	16100	47700	9.6	2950	1.75
7.2	3950	1.3	199.7	"	"	16100	47700	8.6	3300	1.6
6.1	4650	1.1	233.0	"	"	16100	47700	7.4	3850	1.35
5.5	5200	1.0	258.7	"	"	16100	47700	6.7	4250	1.2
4.8	5900	0.88	301.8	"	"	16100	47700	5.7	5000	1.05
9.0	3150	3.0	158.5	<b>BF80-../DSE11SA4</b>	310	29000	75000	11	2600	3.7
7.7	3700	2.6	184.5	"	"	31800	75000	9.3	3050	3.1
6.8	4200	2.3	209.4	"	"	34300	75000	8.2	3450	2.8
6.0	4750	2.0	237.1	"	"	36900	75000	7.3	3900	2.4
5.3	5400	1.75	269.1	"	"	39600	75000	6.4	4450	2.1
4.9	5800	1.8	291.7	<b>BF80Z-../DSE11SA4</b>	357	39600	75000	5.9	4850	2.2
4.1	6900	1.5	347.3	"	"	39600	75000	5.0	5700	1.85
3.7	7700	1.35	394.2	"	"	39600	75000	4.4	6500	1.6
3.2	8900	1.2	450.4	"	"	39600	75000	3.8	7500	1.4
2.8	10200	1.05	511.2	"	"	39600	75000	3.4	8400	1.25
2.5	11400	0.92	583.4	"	"	39600	75000	3.0	9500	1.1
2.2	13000	0.81	662.1	"	"	39600	75000	2.6	11000	0.95
5.5	5200	3.2	259.0	<b>BF90-../DSE11SA4</b>	563	42800	120000	6.7	4250	4.0
4.8	5900	3.1	300.4	<b>BF90Z-../DSE11SA4</b>	623	42800	120000	5.7	5000	3.7
4.2	6800	2.7	343.6	"	"	42800	120000	5.0	5700	3.2
3.8	7500	2.5	382.6	"	"	42800	120000	4.5	6300	2.9
3.2	8900	2.1	456.7	"	"	42800	120000	3.8	7500	2.5
2.8	10200	1.8	508.5	"	"	42800	120000	3.4	8400	2.2
2.5	11400	1.6	591.1	"	"	42800	120000	2.9	9800	1.9
2.2	13000	1.4	658.1	"	"	42800	120000	2.6	11000	1.7
1.9	15000	1.25	759.0	"	"	42800	120000	2.3	12400	1.5
1.7	16800	1.1	845.1	"	"	42800	120000	2.1	13600	1.35
1.5	17500	1.05	976.1	<b>BF90G50-../DSE11SA4</b>	633	42800	120000	1.8	14300	1.3
1.4	19000	0.97	1043	"	"	42800	120000	1.7	15400	1.2
1.2	22200	0.83	1204	"	"	42800	120000	1.5	17400	1.05

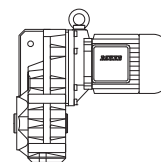
**P = 4 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
225	169	1.55	6.34	<b>BF30-../DSE11MA4</b>	66	2400	-	270	141	1.85
176	215	1.35	8.07	"	"	2650	-	215	177	1.6
143	265	1.2	9.99	"	"	2850	-	172	220	1.45
110	345	1.05	12.91	"	"	3050	-	133	285	1.3
89	425	0.96	16.00	"	"	3250	-	107	355	1.15
81	470	1.0	17.65	"	"	3300	-	97	390	1.25
74	510	0.98	19.41	"	"	3400	-	89	425	1.2
65	580	0.91	21.85	"	"	3500	-	79	480	1.1
60	630	0.88	24.03	"	"	3600	-	72	530	1.05
245	155	2.2	5.87	<b>BF40-../DSE11MA4</b>	80	3550	-	295	129	2.6
187	200	1.85	7.62	"	"	3900	-	225	169	2.2
150	250	1.65	9.48	"	"	4150	-	181	210	2.0
121	315	1.5	11.79	"	"	4450	-	146	260	1.8
95	400	1.3	15.02	"	"	4800	-	114	335	1.55
82	465	1.35	17.35	"	"	4950	-	99	385	1.65
75	500	1.35	19.09	"	"	5100	-	90	420	1.6
66	570	1.25	21.60	"	"	5200	-	80	475	1.5
60	630	1.15	23.77	"	"	5400	-	72	530	1.4
53	720	1.1	26.86	"	"	5600	-	64	590	1.3
48.5	780	1.05	29.55	"	"	5800	-	58	650	1.25

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 4 kW

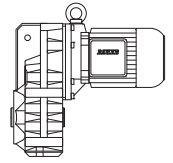


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
42	900	0.95	34.21	<b>BF40-../DSE11MA4</b>	"	6000	-	50	760	1.15
38	1000	0.89	37.64	"	"	6200	-	45.5	830	1.1
34.5	1100	0.82	41.42	"	"	6500	-	41.5	920	0.98
185	205	2.8	7.71	<b>BF50-../DSE11MA4</b>	110	5100	-	225	169	3.3
133	285	2.4	10.68	"	"	5600	-	161	235	2.9
97	390	2.0	14.65	"	"	6100	-	117	325	2.4
86	440	2.2	16.70	"	"	6200	-	103	370	2.6
77	495	2.0	18.68	"	"	6400	-	92	415	2.4
62	610	1.8	23.14	"	"	6800	-	74	510	2.2
55	690	1.7	25.88	"	"	7100	-	67	570	2.0
45	840	1.5	31.73	"	"	7500	-	54	700	1.8
40.5	940	1.4	35.49	"	"	7800	-	48.5	780	1.65
34	1120	1.15	42.15	"	"	8500	-	41	930	1.4
30.5	1250	1.05	47.14	"	"	8900	-	36.5	1040	1.25
25	1520	0.86	56.86	"	"	9300	-	30.5	1250	1.05
100	380	3.1	14.24	<b>BF60-../DSE11MA4</b>	141	7100	20000	121	315	3.8
84	450	3.2	16.96	"	"	7300	20600	101	375	3.9
76	500	3.0	18.81	"	"	7600	21500	91	415	3.7
63	600	2.8	22.58	"	"	8000	22600	76	500	3.3
57	670	2.6	25.05	"	"	8200	23200	69	550	3.2
46	830	2.3	31.20	"	"	8800	24900	55	690	2.8
41.5	920	2.2	34.62	"	"	9100	25700	49.5	770	2.6
34.5	1100	1.95	41.60	"	"	9600	27100	41.5	920	2.3
31	1230	1.8	46.16	"	"	9900	28000	37.5	1010	2.2
26.5	1440	1.6	54.44	"	"	10500	29700	31.5	1210	1.9
24	1590	1.45	60.40	"	"	11100	31400	28.5	1340	1.7
20	1910	1.2	72.15	"	"	12000	34000	24	1590	1.45
18	2100	1.1	80.05	"	"	12600	35600	21.5	1770	1.3
15.5	2450	0.94	93.44	"	"	13500	38200	18.5	2050	1.1
14	2700	0.85	103.7	"	"	14100	39900	16.5	2300	1.0
23	1660	3.1	61.94	<b>BF70-../DSE11MA4</b>	220	10800	37400	28	1360	3.8
20	1910	2.7	72.26	"	"	12000	39600	24	1590	3.3
17.5	2150	2.4	81.82	"	"	12800	41300	21	1810	2.9
15	2500	2.1	95.46	"	"	14000	43700	18	2100	2.5
13.5	2800	1.85	105.2	"	"	14700	45100	16.5	2300	2.3
12	3150	1.65	122.7	"	"	16100	47700	14	2700	1.95
11	3450	1.5	133.0	<b>BF70Z-../DSE11MA4</b>	247	16100	47700	13	2900	1.8
9.3	4100	1.25	154.0	"	"	16100	47700	11.5	3300	1.6
8.0	4750	1.1	179.7	"	"	16100	47700	9.6	3950	1.3
7.2	5300	0.98	199.7	"	"	16100	47700	8.6	4400	1.2
6.1	6200	0.84	233.0	"	"	16100	47700	7.4	5100	1.0
12	3150	3.0	122.4	<b>BF80-../DSE11MA4</b>	316	24500	75000	14	2700	3.5
10.5	3600	2.6	139.7	"	"	26700	75000	12.5	3050	3.1
9.0	4200	2.3	158.5	"	"	29000	75000	11	3450	2.8
7.7	4950	1.9	184.5	"	"	31800	75000	9.3	4100	2.3
6.8	5600	1.7	209.4	"	"	34300	75000	8.2	4650	2.0
6.0	6300	1.5	237.1	"	"	36900	75000	7.3	5200	1.85
5.3	7200	1.3	269.1	"	"	39600	75000	6.4	5900	1.6
4.9	7700	1.35	291.7	<b>BF80Z-../DSE11MA4</b>	363	39600	75000	5.9	6400	1.65
4.1	9300	1.15	347.3	"	"	39600	75000	5.0	7600	1.4
3.7	10300	1.0	394.2	"	"	39600	75000	4.4	8600	1.2
3.2	11900	0.88	450.4	"	"	39600	75000	3.8	10000	1.05
7.2	5300	3.2	198.8	<b>BF90-../DSE11MA4</b>	569	36000	111300	8.7	4350	3.9
6.2	6100	2.8	232.6	"	"	39900	118300	7.4	5100	3.3
5.5	6900	2.4	259.0	"	"	42800	120000	6.7	5700	2.9
5.3	7200	2.6	269.8	<b>BF90Z-../DSE11MA4</b>	629	42800	120000	6.4	5900	3.1
4.8	7900	2.3	300.4	"	"	42800	120000	5.7	6700	2.8
4.2	9000	2.1	343.6	"	"	42800	120000	5.0	7600	2.4

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 4 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
3.8	10000	1.85	382.6	BF90Z-../DSE11MA4	"	42800	120000	4.5	8400	2.2
3.2	11900	1.55	456.7	"	"	42800	120000	3.8	10000	1.85
2.8	13600	1.35	508.5	"	"	42800	120000	3.4	11200	1.65
2.5	15200	1.2	591.1	"	"	42800	120000	2.9	13100	1.4
2.2	17300	1.05	658.1	"	"	42800	120000	2.6	14600	1.25
1.9	20100	0.92	759.0	"	"	42800	120000	2.3	16600	1.1
1.7	22400	0.83	845.1	"	"	42800	120000	2.1	18100	1.0

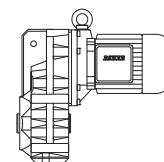
**P = 5.5 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
225	230	1.15	6.34	BF30-../DSE11LA4	78	2400	-	270	194	1.35
176	295	0.97	8.07	"	"	2650	-	215	240	1.2
143	365	0.88	9.99	"	"	2850	-	172	305	1.05
245	210	1.6	5.87	BF40-../DSE11LA4	92	3550	-	295	178	1.9
187	280	1.3	7.62	"	"	3900	-	225	230	1.6
150	350	1.2	9.48	"	"	4150	-	181	290	1.45
121	430	1.1	11.79	"	"	4450	-	146	355	1.3
95	550	0.95	15.02	"	"	4800	-	114	460	1.15
82	640	0.99	17.35	"	"	4950	-	99	530	1.2
75	700	0.95	19.09	"	"	5100	-	90	580	1.15
66	790	0.89	21.60	"	"	5200	-	80	650	1.1
60	870	0.85	23.77	"	"	5400	-	72	720	1.0
265	198	2.5	5.38	BF50-../DSE11LA4	122	4500	-	320	164	3.0
185	280	2.0	7.71	"	"	5100	-	225	230	2.5
133	390	1.75	10.68	"	"	5600	-	161	325	2.1
97	540	1.45	14.65	"	"	6100	-	117	445	1.8
86	610	1.55	16.70	"	"	6200	-	103	500	1.9
77	680	1.5	18.68	"	"	6400	-	92	570	1.75
62	840	1.3	23.14	"	"	6800	-	74	700	1.6
55	950	1.25	25.88	"	"	7100	-	67	780	1.5
45	1160	1.1	31.73	"	"	7500	-	54	970	1.3
40.5	1290	1.0	35.49	"	"	7800	-	48.5	1080	1.2
34	1540	0.84	42.15	"	"	8500	-	41	1280	1.0
184	285	3.0	7.74	BF60-../DSE11LA4	153	6000	16900	225	230	3.8
138	380	2.7	10.31	"	"	6500	18400	166	315	3.2
100	520	2.3	14.24	"	"	7100	20000	121	430	2.8
84	620	2.3	16.96	"	"	7300	20600	101	520	2.8
76	690	2.2	18.81	"	"	7600	21500	91	570	2.7
63	830	2.0	22.58	"	"	8000	22600	76	690	2.4
57	920	1.9	25.05	"	"	8200	23200	69	760	2.3
46	1140	1.65	31.20	"	"	8800	24900	55	950	2.0
41.5	1260	1.6	34.62	"	"	9100	25700	49.5	1060	1.85
34.5	1520	1.4	41.60	"	"	9600	27100	41.5	1260	1.7
31	1690	1.3	46.16	"	"	9900	28000	37.5	1400	1.6
26.5	1980	1.15	54.44	"	"	10500	29700	31.5	1660	1.4
24	2150	1.05	60.40	"	"	11100	31400	28.5	1840	1.25
20	2600	0.88	72.15	"	"	12000	34000	24	2150	1.05
33.5	1560	3.3	43.02	BF70-../DSE11LA4	232	8700	32800	40	1310	4.0
30	1750	3.0	47.82	"	"	9100	34000	36	1450	3.6
25.5	2050	2.5	55.79	"	"	10200	36000	31	1690	3.1
23	2250	2.3	61.94	"	"	10800	37400	28	1870	2.8
20	2600	2.0	72.26	"	"	12000	39600	24	2150	2.4
17.5	3000	1.75	81.82	"	"	12800	41300	21	2500	2.1
15	3500	1.5	95.46	"	"	14000	43700	18	2900	1.8
13.5	3850	1.35	105.2	"	"	14700	45100	16.5	3150	1.65
12	4350	1.2	122.7	"	"	16100	47700	14	3750	1.4

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 5.5 kW**



50 Hz			i	Typ	m kg	F <sub>RN</sub> N	F <sub>RV</sub> N	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
11	4750	1.1	133.0	BF70Z-../DSE11LA4	258	16100	47700	13	4000	1.3
9.3	5600	0.93	154.0	"	"	16100	47700	11.5	4550	1.15
8.0	6500	0.8	179.7	"	"	16100	47700	9.6	5400	0.96
17.5	3000	3.2	83.16	BF80-../DSE11LA4	328	18400	65100	21	2500	3.8
15.5	3350	2.8	94.38	"	"	20300	68500	18.5	2800	3.4
13.5	3850	2.5	107.9	"	"	22400	72300	16	3250	2.9
12	4350	2.2	122.4	"	"	24500	75000	14	3750	2.5
10.5	5000	1.9	139.7	"	"	26700	75000	12.5	4200	2.3
9.0	5800	1.65	158.5	"	"	29000	75000	11	4750	2.0
7.7	6800	1.4	184.5	"	"	31800	75000	9.3	5600	1.7
6.8	7700	1.25	209.4	"	"	34300	75000	8.2	6400	1.5
6.0	8700	1.1	237.1	"	"	36900	75000	7.3	7100	1.35
5.3	9900	0.96	269.1	"	"	39600	75000	6.4	8200	1.15
4.9	10700	0.98	291.7	BF80Z-../DSE11LA4	375	39600	75000	5.9	8900	1.2
4.1	12800	0.82	347.3	"	"	39600	75000	5.0	10500	1.0
9.2	5700	2.9	154.8	BF90-../DSE11LA4	581	30100	100800	11.5	4550	3.7
8.0	6500	2.6	178.6	"	"	33400	106700	9.6	5400	3.1
7.2	7200	2.3	198.8	"	"	36000	111300	8.7	6000	2.8
6.2	8400	2.0	232.6	"	"	39900	118300	7.4	7000	2.4
5.5	9500	1.75	259.0	"	"	42800	120000	6.7	7800	2.2
5.3	9900	1.85	269.8	BF90Z-../DSE11LA4	641	42800	120000	6.4	8200	2.3
4.8	10900	1.7	300.4	"	"	42800	120000	5.7	9200	2.0
4.2	12500	1.5	343.6	"	"	42800	120000	5.0	10500	1.75
3.8	13800	1.35	382.6	"	"	42800	120000	4.5	11600	1.6
3.2	16400	1.15	456.7	"	"	42800	120000	3.8	13800	1.35
2.8	18700	0.99	508.5	"	"	42800	120000	3.4	15400	1.2
2.5	21000	0.88	591.1	"	"	42800	120000	2.9	18100	1.0

**P = 7.5 kW**

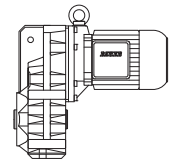
50 Hz			i	Typ	m kg	F <sub>RN</sub> N	F <sub>RV</sub> N	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
270	265	1.9	5.38	BF50-../DSE13MA4	133	4500	-	325	220	2.3
187	380	1.5	7.71	"	"	5100	-	230	310	1.8
135	530	1.3	10.68	"	"	5600	-	163	435	1.55
99	720	1.1	14.65	"	"	6100	-	119	600	1.3
87	820	1.15	16.70	"	"	6200	-	105	680	1.4
78	910	1.1	18.68	"	"	6400	-	94	760	1.3
63	1130	0.98	23.14	"	"	6800	-	76	940	1.2
56	1270	0.92	25.88	"	"	7100	-	68	1050	1.1
45.5	1570	0.81	31.73	"	"	7500	-	55	1300	0.98
280	255	3.0	5.22	BF60-../DSE13MA4	166	5200	14800	335	210	3.6
187	380	2.3	7.74	"	"	6000	16900	225	315	2.8
140	510	2.0	10.31	"	"	6500	18400	169	420	2.4
102	700	1.7	14.24	"	"	7100	20000	123	580	2.1
85	840	1.75	16.96	"	"	7300	20600	103	690	2.1
77	930	1.65	18.81	"	"	7600	21500	93	770	2.0
64	1110	1.5	22.58	"	"	8000	22600	78	910	1.8
58	1230	1.4	25.05	"	"	8200	23200	70	1020	1.7
46.5	1540	1.25	31.20	"	"	8800	24900	56	1270	1.5
42	1700	1.15	34.62	"	"	9100	25700	51	1400	1.4
35	2000	1.05	41.60	"	"	9600	27100	42	1700	1.25
31.5	2250	0.99	46.16	"	"	9900	28000	38	1880	1.2
26.5	2700	0.85	54.44	"	"	10500	29700	32	2200	1.05
45.5	1570	3.3	31.84	BF70-../DSE13MA4	245	7700	30000	55	1300	4.0
39.5	1810	2.9	36.88	"	"	7900	31100	47.5	1500	3.5
33.5	2100	2.5	43.02	"	"	8700	32800	40.5	1760	3.0
30.5	2300	2.3	47.82	"	"	9100	34000	36.5	1960	2.7



# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 7.5 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
26	2750	1.9	55.79	<b>BF50-../DSE13MA4</b>	"	10200	36000	31.5	2250	2.3
23.5	3000	1.75	61.94	"	"	10800	37400	28.5	2500	2.1
20	3550	1.45	72.26	"	"	12000	39600	24.5	2900	1.8
18	3950	1.3	81.82	"	"	12800	41300	21.5	3300	1.6
15.5	4600	1.15	95.46	"	"	14000	43700	18.5	3850	1.35
14	5100	1.0	105.2	"	"	14700	45100	17	4200	1.25
12	5900	0.88	122.7	"	"	16100	47700	14.5	4900	1.05
11	6500	0.8	133.0	<b>BF70Z-../DSE13MA4</b>	270	16100	47700	13.5	5300	0.98
23.5	3000	3.1	61.55	<b>BF80-../DSE13MA4</b>	341	14800	58100	28.5	2500	3.7
21	3400	2.8	69.86	"	"	15900	60600	25	2850	3.3
17.5	4050	2.3	83.16	"	"	18400	65100	21	3400	2.8
15.5	4600	2.1	94.38	"	"	20300	68500	18.5	3850	2.5
13.5	5300	1.8	107.9	"	"	22400	72300	16.5	4300	2.2
12	5900	1.6	122.4	"	"	24500	75000	14.5	4900	1.95
10.5	6800	1.4	139.7	"	"	26700	75000	12.5	5700	1.65
9.1	7800	1.2	158.5	"	"	29000	75000	11	6500	1.45
7.9	9000	1.05	184.5	"	"	31800	75000	9.5	7500	1.25
6.9	10300	0.92	209.4	"	"	34300	75000	8.4	8500	1.1
6.1	11700	0.81	237.1	"	"	36900	75000	7.4	9600	0.99
13.5	5300	3.2	107.5	<b>BF90-../DSE13MA4</b>	593	22300	86900	16.5	4300	3.9
12.5	5700	2.9	119.7	"	"	24500	90800	15	4750	3.5
10.5	6800	2.5	139.1	"	"	27700	96300	13	5500	3.1
9.4	7600	2.2	154.8	"	"	30100	100800	11.5	6200	2.7
8.1	8800	1.9	178.6	"	"	33400	106700	9.8	7300	2.3
7.3	9800	1.7	198.8	"	"	36000	111300	8.8	8100	2.1
6.2	11500	1.45	232.6	"	"	39900	118300	7.5	9500	1.75
5.6	12700	1.3	259.0	"	"	42800	120000	6.8	10500	1.6
5.4	13200	1.4	269.8	<b>BF90Z-../DSE13MA4</b>	654	42800	120000	6.5	11000	1.7
4.8	14900	1.25	300.4	"	"	42800	120000	5.8	12300	1.5
4.2	17000	1.1	343.6	"	"	42800	120000	5.1	14000	1.3
3.8	18800	0.98	382.6	"	"	42800	120000	4.6	15500	1.2
3.2	22300	0.83	456.7	"	"	42800	120000	3.9	18300	1.0

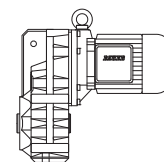
**P = 9.5 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
270	335	1.5	5.38	<b>BF50-../DSE13LA4</b>	136	4500	-	325	275	1.8
187	485	1.15	7.71	"	"	5100	-	230	390	1.45
135	670	1.0	10.68	"	"	5600	-	163	550	1.25
99	910	0.87	14.65	"	"	6100	-	119	760	1.05
87	1040	0.91	16.70	"	"	6200	-	105	860	1.1
78	1160	0.86	18.68	"	"	6400	-	94	960	1.05
280	320	2.4	5.22	<b>BF60-../DSE13LA4</b>	169	5200	14800	335	270	2.8
187	485	1.8	7.74	"	"	6000	16900	225	400	2.2
140	640	1.6	10.31	"	"	6500	18400	169	530	1.9
102	880	1.35	14.24	"	"	7100	20000	123	730	1.65
85	1060	1.35	16.96	"	"	7300	20600	103	880	1.65
77	1170	1.3	18.81	"	"	7600	21500	93	970	1.55
64	1410	1.15	22.58	"	"	8000	22600	78	1160	1.45
58	1560	1.1	25.05	"	"	8200	23200	70	1290	1.35
46.5	1950	0.97	31.20	"	"	8800	24900	56	1620	1.15
42	2150	0.92	34.62	"	"	9100	25700	51	1770	1.1
35	2550	0.84	41.60	"	"	9600	27100	42	2150	0.99
59	1530	3.3	24.55	<b>BF70-../DSE13LA4</b>	248	7000	27700	71	1270	4.0
53	1710	3.0	27.29	"	"	7000	28400	64	1410	3.7
45.5	1990	2.6	31.84	"	"	7700	30000	55	1640	3.2

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 9.5 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
39.5	2250	2.3	36.88	<b>BF70-../DSE13LA4</b>	"	7900	31100	47.5	1910	2.7
33.5	2700	1.95	43.02	"	"	8700	32800	40.5	2200	2.4
30.5	2950	1.75	47.82	"	"	9100	34000	36.5	2450	2.1
26	3450	1.5	55.79	"	"	10200	36000	31.5	2850	1.8
23.5	3850	1.35	61.94	"	"	10800	37400	28.5	3150	1.65
20	4500	1.15	72.26	"	"	12000	39600	24.5	3700	1.4
18	5000	1.05	81.82	"	"	12800	41300	21.5	4200	1.25
15.5	5800	0.9	95.46	"	"	14000	43700	18.5	4900	1.05
14	6400	0.81	105.2	"	"	14700	45100	17	5300	0.98
30.5	2950	2.9	47.46	<b>BF80-../DSE13LA4</b>	344	13400	53700	37	2450	3.5
27	3350	2.7	53.86	"	"	14000	55800	32.5	2750	3.3
23.5	3850	2.4	61.55	"	"	14800	58100	28.5	3150	3.0
21	4300	2.2	69.86	"	"	15900	60600	25	3600	2.6
17.5	5100	1.85	83.16	"	"	18400	65100	21	4300	2.2
15.5	5800	1.65	94.38	"	"	20300	68500	18.5	4900	1.95
13.5	6700	1.4	107.9	"	"	22400	72300	16.5	5400	1.75
12	7500	1.25	122.4	"	"	24500	75000	14.5	6200	1.55
10.5	8600	1.1	139.7	"	"	26700	75000	12.5	7200	1.3
9.1	9900	0.96	158.5	"	"	29000	75000	11	8200	1.15
7.9	11400	0.83	184.5	"	"	31800	75000	9.5	9500	1.0
18	5000	3.3	80.85	<b>BF90-../DSE13LA4</b>	596	17500	77500	22	4100	4.0
16	5600	3.0	90.02	"	"	18900	80600	19.5	4650	3.6
13.5	6700	2.5	107.5	"	"	22300	86900	16.5	5400	3.1
12.5	7200	2.3	119.7	"	"	24500	90800	15	6000	2.8
10.5	8600	1.95	139.1	"	"	27700	96300	13	6900	2.4
9.4	9600	1.75	154.8	"	"	30100	100800	11.5	7800	2.2
8.1	11200	1.5	178.6	"	"	33400	106700	9.8	9200	1.85
7.3	12400	1.35	198.8	"	"	36000	111300	8.8	10300	1.65
6.2	14600	1.15	232.6	"	"	39900	118300	7.5	12000	1.4
5.6	16200	1.05	259.0	"	"	42800	120000	6.8	13300	1.25
5.4	16800	1.1	269.8	<b>BF90Z-../DSE13LA4</b>	657	42800	120000	6.5	13900	1.35
4.8	18900	0.98	300.4	"	"	42800	120000	5.8	15600	1.2
4.2	21600	0.86	343.6	"	"	42800	120000	5.1	17700	1.05

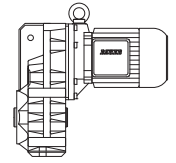
**P = 11 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
275	380	1.3	5.38	<b>BF50-../DSE16MA4</b>	181	4500	-	330	315	1.6
190	550	1.05	7.71	"	"	5100	-	230	455	1.25
137	760	0.89	10.68	"	"	5600	-	165	630	1.05
88	1190	0.8	16.70	"	"	6200	-	106	990	0.96
280	375	2.0	5.22	<b>BF60-../DSE16MA4</b>	214	5200	14800	340	305	2.5
189	550	1.6	7.74	"	"	6000	16900	230	455	1.9
142	730	1.4	10.31	"	"	6500	18400	171	610	1.65
103	1010	1.2	14.24	"	"	7100	20000	124	840	1.4
87	1200	1.2	16.96	"	"	7300	20600	104	1010	1.45
78	1340	1.15	18.81	"	"	7600	21500	94	1110	1.35
65	1610	1.05	22.58	"	"	8000	22600	78	1340	1.25
59	1780	0.97	25.05	"	"	8200	23200	71	1470	1.2
47	2200	0.86	31.20	"	"	8800	24900	57	1840	1.05
42.5	2450	0.81	34.62	"	"	9100	25700	51	2050	0.97
70	1500	3.1	21.04	<b>BF70-../DSE16MA4</b>	297	6400	26300	84	1250	3.7
60	1750	2.9	24.55	"	"	7000	27700	72	1450	3.5
54	1940	2.7	27.29	"	"	7000	28400	65	1610	3.2
46	2250	2.3	31.84	"	"	7700	30000	56	1870	2.8
40	2600	2.0	36.88	"	"	7900	31100	48	2150	2.4

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 11 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
34	3050	1.7	43.02	<b>BF70-../DSE16MA4</b>	"	8700	32800	41	2550	2.0
31	3350	1.55	47.82	"	"	9100	34000	37	2800	1.85
26.5	3950	1.3	55.79	"	"	10200	36000	32	3250	1.6
24	4350	1.2	61.94	"	"	10800	37400	28.5	3650	1.4
20.5	5100	1.0	72.26	"	"	12000	39600	24.5	4250	1.2
18	5800	0.9	81.82	"	"	12800	41300	22	4750	1.1
48.5	2150	3.3	30.21	<b>BF80-../DSE16MA4</b>	393	12300	47900	59	1780	4.0
43.5	2400	3.2	33.61	"	"	11700	48400	53	1980	3.9
38.5	2700	3.0	38.14	"	"	12200	50300	46.5	2250	3.6
31	3350	2.6	47.46	"	"	13400	53700	37.5	2800	3.1
27.5	3800	2.4	53.86	"	"	14000	55800	33	3150	2.8
24	4350	2.1	61.55	"	"	14800	58100	29	3600	2.6
21	5000	1.9	69.86	"	"	15900	60600	25.5	4100	2.3
18	5800	1.65	83.16	"	"	18400	65100	21.5	4850	1.95
15.5	6700	1.4	94.38	"	"	20300	68500	19	5500	1.75
14	7500	1.25	107.9	"	"	22400	72300	16.5	6300	1.5
12	8700	1.1	122.4	"	"	24500	75000	14.5	7200	1.3
10.5	10000	0.95	139.7	"	"	26700	75000	13	8000	1.2
9.3	11200	0.85	158.5	"	"	29000	75000	11.5	9100	1.05
21	5000	3.2	70.69	<b>BF90-../DSE16MA4</b>	640	16800	74700	25	4200	3.8
18.5	5600	3.0	80.85	"	"	17500	77500	22	4750	3.5
16.5	6300	2.7	90.02	"	"	18900	80600	20	5200	3.2
14	7500	2.2	107.5	"	"	22300	86900	16.5	6300	2.7
12.5	8400	2.0	119.7	"	"	24500	90800	15	7000	2.4
10.5	10000	1.7	139.1	"	"	27700	96300	13	8000	2.1
9.5	11000	1.55	154.8	"	"	30100	100800	11.5	9100	1.85
8.2	12800	1.3	178.6	"	"	33400	106700	9.9	10600	1.6
7.4	14100	1.2	198.8	"	"	36000	111300	8.9	11800	1.4
6.3	16600	1.0	232.6	"	"	39900	118300	7.6	13800	1.2
5.7	18400	0.91	259.0	"	"	42800	120000	6.8	15400	1.1
5.5	19100	0.97	269.8	<b>BF90Z-../DSE16MA4</b>	702	42800	120000	6.6	15900	1.15
4.9	21400	0.86	300.4	"	"	42800	120000	5.9	17800	1.05

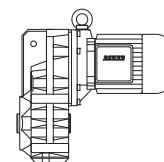
**P = 15 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
275	520	0.96	5.38	<b>BF50-../DSE16LA4</b>	194	4500	-	330	430	1.15
280	510	1.5	5.22	<b>BF60-../DSE16LA4</b>	227	5200	14800	340	420	1.8
189	750	1.15	7.74	"	"	6000	16900	230	620	1.4
142	1000	1.0	10.31	"	"	6500	18400	171	830	1.2
103	1390	0.86	14.24	"	"	7100	20000	124	1150	1.05
87	1640	0.88	16.96	"	"	7300	20600	104	1370	1.05
78	1830	0.83	18.81	"	"	7600	21500	94	1520	1.0
98	1460	2.5	14.90	<b>BF70-../DSE16LA4</b>	310	5900	24000	119	1200	3.0
84	1700	2.5	17.39	"	"	6200	25000	102	1400	3.0
70	2000	2.3	21.04	"	"	6400	26300	84	1700	2.7
60	2350	2.1	24.55	"	"	7000	27700	72	1980	2.5
54	2650	1.95	27.29	"	"	7000	28400	65	2200	2.4
46	3100	1.7	31.84	"	"	7700	30000	56	2550	2.0
40	3550	1.45	36.88	"	"	7900	31100	48	2950	1.75
34	4200	1.25	43.02	"	"	8700	32800	41	3450	1.5
31	4600	1.15	47.82	"	"	9100	34000	37	3850	1.35
26.5	5400	0.96	55.79	"	"	10200	36000	32	4450	1.15
24	5900	0.88	61.94	"	"	10800	37400	28.5	5000	1.05

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 15 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
89	1600	3.3	16.49	<b>BF80-../DSE16LA4</b>	406	11400	41400	107	1330	4.0
63	2250	2.8	23.29	"	"	11800	44900	76	1880	3.4
48.5	2950	2.4	30.21	"	"	12300	47900	59	2400	3.0
43.5	3250	2.4	33.61	"	"	11700	48400	53	2700	2.9
38.5	3700	2.2	38.14	"	"	12200	50300	46.5	3050	2.6
31	4600	1.85	47.46	"	"	13400	53700	37.5	3800	2.3
27.5	5200	1.7	53.86	"	"	14000	55800	33	4300	2.1
24	5900	1.6	61.55	"	"	14800	58100	29	4900	1.9
21	6800	1.4	69.86	"	"	15900	60600	25.5	5600	1.7
18	7900	1.2	83.16	"	"	18400	65100	21.5	6600	1.45
15.5	9200	1.05	94.38	"	"	20300	68500	19	7500	1.25
14	10200	0.93	107.9	"	"	22400	72300	16.5	8600	1.1
12	11900	0.8	122.4	"	"	24500	75000	14.5	9800	0.97
31.5	4500	3.1	46.43	<b>BF90-../DSE16LA4</b>	654	13800	65500	38	3750	3.8
28.5	5000	2.9	51.70	"	"	14600	67800	34.5	4150	3.5
23	6200	2.5	63.49	"	"	15800	72000	28	5100	3.0
21	6800	2.3	70.69	"	"	16800	74700	25	5700	2.8
18.5	7700	2.1	80.85	"	"	17500	77500	22	6500	2.5
16.5	8600	1.95	90.02	"	"	18900	80600	20	7100	2.4
14	10200	1.65	107.5	"	"	22300	86900	16.5	8600	1.95
12.5	11400	1.45	119.7	"	"	24500	90800	15	9500	1.75
10.5	13600	1.25	139.1	"	"	27700	96300	13	11000	1.55
9.5	15000	1.1	154.8	"	"	30100	100800	11.5	12400	1.35
8.2	17400	0.97	178.6	"	"	33400	106700	9.9	14400	1.15
7.4	19300	0.87	198.8	"	"	36000	111300	8.9	16000	1.05

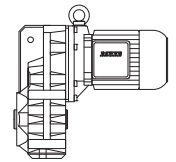
P = 18.5 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
280	630	1.2	5.22	<b>BF60-../DSE16XA4</b>	237	5200	14800	340	510	1.5
189	930	0.93	7.74	"	"	6000	16900	230	760	1.15
142	1240	0.82	10.31	"	"	6500	18400	171	1030	0.98
98	1800	2.0	14.90	<b>BF70-../DSE16XA4</b>	320	5900	24000	119	1480	2.5
84	2100	2.0	17.39	"	"	6200	25000	102	1730	2.5
70	2500	1.85	21.04	"	"	6400	26300	84	2100	2.2
60	2900	1.75	24.55	"	"	7000	27700	72	2450	2.1
54	3250	1.6	27.29	"	"	7000	28400	65	2700	1.95
46	3800	1.35	31.84	"	"	7700	30000	56	3150	1.65
40	4400	1.2	36.88	"	"	7900	31100	48	3650	1.4
34	5100	1.0	43.02	"	"	8700	32800	41	4300	1.2
31	5600	0.93	47.82	"	"	9100	34000	37	4750	1.1
89	1980	2.7	16.49	<b>BF80-../DSE16XA4</b>	416	11400	41400	107	1650	3.2
63	2800	2.3	23.29	"	"	11800	44900	76	2300	2.7
48.5	3600	2.0	30.21	"	"	12300	47900	59	2950	2.4
43.5	4050	1.9	33.61	"	"	11700	48400	53	3300	2.4
38.5	4550	1.75	38.14	"	"	12200	50300	46.5	3750	2.2
31	5600	1.55	47.46	"	"	13400	53700	37.5	4700	1.85
27.5	6400	1.4	53.86	"	"	14000	55800	33	5300	1.7
24	7300	1.25	61.55	"	"	14800	58100	29	6000	1.55
21	8400	1.15	69.86	"	"	15900	60600	25.5	6900	1.4
18	9800	0.97	83.16	"	"	18400	65100	21.5	8200	1.15
15.5	11300	0.84	94.38	"	"	20300	68500	19	9200	1.05
31.5	5600	2.5	46.43	<b>BF90-../DSE16XA4</b>	664	13800	65500	38	4600	3.1
28.5	6100	2.4	51.70	"	"	14600	67800	34.5	5100	2.8
23	7600	2.0	63.49	"	"	15800	72000	28	6300	2.4
21	8400	1.9	70.69	"	"	16800	74700	25	7000	2.3

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

**P = 18.5 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
18.5	9500	1.75	80.85	<b>BF90-../DSE16XA4</b>	"	17500	77500	22	8000	2.1
16.5	10700	1.55	90.02	"	"	18900	80600	20	8800	1.9
14	12600	1.35	107.5	"	"	22300	86900	16.5	10700	1.55
12.5	14100	1.2	119.7	"	"	24500	90800	15	11700	1.45
10.5	16800	1.0	139.1	"	"	27700	96300	13	13500	1.25
9.5	18500	0.91	154.8	"	"	30100	100800	11.5	15300	1.1

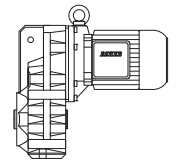
**P = 22 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
142	1470	1.7	10.32	<b>BF70-../DSE18LA4</b>	377	4600	18700	171	1220	2.1
122	1720	1.7	12.04	"	"	4900	19700	147	1420	2.1
98	2100	1.75	14.90	"	"	5900	24000	119	1760	2.1
84	2500	1.7	17.39	"	"	6200	25000	102	2050	2.1
70	3000	1.55	21.04	"	"	6400	26300	84	2500	1.85
60	3500	1.45	24.55	"	"	7000	27700	72	2900	1.75
54	3850	1.35	27.29	"	"	7000	28400	65	3200	1.65
46	4550	1.15	31.84	"	"	7700	30000	56	3750	1.4
40	5200	1.0	36.88	"	"	7900	31100	48	4350	1.2
34	6100	0.85	43.02	"	"	8700	32800	41	5100	1.0
128	1640	2.2	11.42	<b>BF80-../DSE18LA4</b>	473	8900	32200	155	1350	2.7
89	2350	2.3	16.49	"	"	11400	41400	107	1960	2.7
63	3300	1.9	23.29	"	"	11800	44900	76	2750	2.3
48.5	4300	1.65	30.21	"	"	12300	47900	59	3550	2.0
43.5	4800	1.6	33.61	"	"	11700	48400	53	3950	1.95
38.5	5400	1.5	38.14	"	"	12200	50300	46.5	4500	1.8
31	6700	1.3	47.46	"	"	13400	53700	37.5	5600	1.55
27.5	7600	1.2	53.86	"	"	14000	55800	33	6300	1.4
24	8700	1.05	61.55	"	"	14800	58100	29	7200	1.3
21	10000	0.95	69.86	"	"	15900	60600	25.5	8200	1.15
18	11600	0.82	83.16	"	"	18400	65100	21.5	9700	0.98
61	3400	3.3	23.95	<b>BF90-../DSE18LA4</b>	725	11100	54300	74	2800	4.0
43.5	4800	2.7	33.71	"	"	11900	59300	53	3950	3.3
39	5300	2.5	37.54	"	"	12700	61500	47	4450	3.0
31.5	6600	2.1	46.43	"	"	13800	65500	38	5500	2.6
28.5	7300	2.0	51.70	"	"	14600	67800	34.5	6000	2.4
23	9100	1.7	63.49	"	"	15800	72000	28	7500	2.1
21	10000	1.6	70.69	"	"	16800	74700	25	8400	1.9
18.5	11300	1.45	80.85	"	"	17500	77500	22	9500	1.75
16.5	12700	1.3	90.02	"	"	18900	80600	20	10500	1.6
14	15000	1.1	107.5	"	"	22300	86900	16.5	12700	1.3
12.5	16800	1.0	119.7	"	"	24500	90800	15	14000	1.2
10.5	20000	0.84	139.1	"	"	27700	96300	13	16100	1.05

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DSE - IE1

P = 30 kW



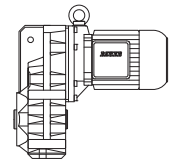
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
142	2000	1.25	10.32	<b>BF70-../DSE18XA4</b>	395	4600	18700	171	1670	1.5
122	2300	1.3	12.04	"	"	4900	19700	147	1940	1.5
98	2900	1.25	14.90	"	"	5900	24000	119	2400	1.5
84	3400	1.25	17.39	"	"	6200	25000	102	2800	1.5
70	4050	1.15	21.04	"	"	6400	26300	84	3400	1.35
60	4750	1.05	24.55	"	"	7000	27700	72	3950	1.25
54	5300	0.98	27.29	"	"	7000	28400	65	4400	1.2
46	6200	0.84	31.84	"	"	7700	30000	56	5100	1.0
128	2200	1.65	11.42	<b>BF80-../DSE18XA4</b>	491	8900	32200	155	1840	2.0
89	3200	1.65	16.49	"	"	11400	41400	107	2650	2.0
63	4500	1.4	23.29	"	"	11800	44900	76	3750	1.7
48.5	5900	1.2	30.21	"	"	12300	47900	59	4850	1.45
43.5	6500	1.2	33.61	"	"	11700	48400	53	5400	1.45
38.5	7400	1.1	38.14	"	"	12200	50300	46.5	6100	1.3
31	9200	0.94	47.46	"	"	13400	53700	37.5	7600	1.15
27.5	10400	0.86	53.86	"	"	14000	55800	33	8600	1.05
118	2400	3.0	12.45	<b>BF90-../DSE18XA4</b>	743	8000	39700	142	2000	3.6
84	3400	3.0	17.39	"	"	10000	49500	102	2800	3.6
61	4650	2.4	23.95	"	"	11100	54300	74	3850	2.9
43.5	6500	2.0	33.71	"	"	11900	59300	53	5400	2.4
39	7300	1.8	37.54	"	"	12700	61500	47	6000	2.2
31.5	9000	1.55	46.43	"	"	13800	65500	38	7500	1.9
28.5	10000	1.45	51.70	"	"	14600	67800	34.5	8300	1.75
23	12400	1.25	63.49	"	"	15800	72000	28	10200	1.5
21	13600	1.15	70.69	"	"	16800	74700	25	11400	1.4
18.5	15400	1.05	80.85	"	"	17500	77500	22	13000	1.25
16.5	17300	0.97	90.02	"	"	18900	80600	20	14300	1.15
14	20400	0.82	107.5	"	"	22300	86900	16.5	17300	0.97

7

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2 Auswahl - Flachgetriebemotoren DHE - IE2

P = 0.03 kW

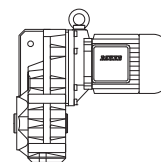


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.0	31.5	7.6	151.2	<b>BF10Z-../D04LA4</b>	21	6400	-	11	26	9.2
8.2	34.5	7.0	166.2	"	"	6400	-	9.8	29	8.3
7.5	38	6.3	180.1	"	"	6400	-	9.0	31.5	7.6
6.9	41.5	5.8	198.0	"	"	6400	-	8.2	34.5	7.0
6.3	45	5.3	214.5	"	"	6400	-	7.6	37.5	6.4
5.8	49	4.9	235.8	"	"	6400	-	6.9	41.5	5.8
5.3	54	4.4	257.4	"	"	6400	-	6.3	45	5.3
4.8	59	4.1	283.1	"	"	6400	-	5.8	49	4.9
4.2	68	3.5	324.3	"	"	6400	-	5.0	57	4.2
3.8	75	3.2	356.6	"	"	6400	-	4.6	62	3.9
3.6	79	3.0	380.2	"	"	6400	-	4.3	66	3.6
3.3	86	2.8	418.0	"	"	6400	-	3.9	73	3.3
2.9	98	2.4	469.5	"	"	6400	-	3.5	81	3.0
2.6	110	2.2	539.1	"	"	6400	-	3.1	92	2.6
2.3	124	1.95	592.8	"	"	6400	-	2.8	102	2.4
1.8	97	2.7	768.2	<b>BF10G06-../D04LA4</b>	25	6400	-	2.2	68	3.8
1.6	110	2.4	845.1	"	"	6400	-	2.0	75	3.5
1.4	130	2.0	994.0	"	"	6400	-	1.7	94	2.8
1.2	159	1.65	1190	"	"	6400	-	1.4	125	2.1
0.95	210	1.25	1452	"	"	6400	-	1.2	150	1.75
0.8	260*	1.0	1744	"	"	6400	-	0.95	260	1.0
0.65	260*	1.0	2096	"	"	6400	-	0.8	260	1.0
0.55	260*	1.0	2467	"	"	6400	-	0.7	260	1.0
0.46	260*	1.0	2952	"	"	6400	-	0.55	260	1.0
0.42	260*	1.0	3220	"	"	6400	-	0.55	260	1.0
0.35	260*	1.0	3942	"	"	6400	-	0.42	260	1.0
0.3	260*	1.0	4569	"	"	6400	-	0.36	260	1.0
0.24	260*	1.0	5709	"	"	6400	-	0.29	260	1.0
0.21	260*	1.0	6550	"	"	6400	-	0.25	260	1.0
0.19	260*	1.0	7144	"	"	6400	-	0.23	260	1.0
0.16	260*	1.0	8681	"	"	6400	-	0.19	260	1.0
0.15	260*	1.0	9471	"	"	6400	-	0.18	260	1.0
1.2	162	2.8	1140	<b>BF20G06-../D04LA4</b>	31	7900	-	1.5	114	4.0
1.0	200	2.3	1392	"	"	7900	-	1.2	154	3.0
0.9	230	2.0	1533	"	"	7900	-	1.1	173	2.7
0.8	265	1.75	1764	"	"	7900	-	0.95	210	2.2
0.65	345	1.35	2192	"	"	7900	-	0.75	285	1.6
0.55	410	1.1	2579	"	"	7900	-	0.65	330	1.4
0.48	460*	1.0	2829	"	"	7900	-	0.6	460	1.0
0.44	460*	1.0	3086	"	"	7900	-	0.55	460	1.0
0.36	460*	1.0	3778	"	"	7900	-	0.43	460	1.0
0.31	460*	1.0	4379	"	"	7900	-	0.37	460	1.0
0.25	460*	1.0	5471	"	"	7900	-	0.3	460	1.0
0.2	460*	1.0	6847	"	"	7900	-	0.24	460	1.0
0.17	460*	1.0	8320	"	"	7900	-	0.2	460	1.0
0.15	460*	1.0	9077	"	"	7900	-	0.18	460	1.0
1.0	200	3.2	1404	<b>BF30G06-../D04LA4</b>	41	7400	-	1.2	153	4.1
0.85	245	2.6	1686	"	"	7400	-	1.0	196	3.2
0.7	315	2.0	2026	"	"	7400	-	0.8	260	2.4
0.6	370	1.7	2386	"	"	7400	-	0.7	305	2.1
0.48	485	1.3	2854	"	"	7400	-	0.6	365	1.75
0.39	610	1.05	3493	"	"	7400	-	0.47	485	1.3
0.36	630*	1.0	3811	"	"	7400	-	0.43	630	1.0
0.31	630*	1.0	4417	"	"	7400	-	0.37	630	1.0
0.27	630*	1.0	5060	"	"	7400	-	0.33	630	1.0
0.22	630*	1.0	6333	"	"	7400	-	0.26	630	1.0
0.19	630*	1.0	7206	"	"	7400	-	0.23	630	1.0
0.18	630*	1.0	7861	"	"	7400	-	0.21	630	1.0
0.15	630*	1.0	9157	"	"	7400	-	0.18	630	1.0

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 0.04 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.0	42	5.7	151.2	<b>BF10Z-../D04LA4</b>	21	6400	-	11	34.5	7.0
8.2	46.5	5.2	166.2	"	"	6400	-	9.8	38.5	6.2
7.5	50	4.8	180.1	"	"	6400	-	9.0	42	5.7
6.9	55	4.4	198.0	"	"	6400	-	8.2	46.5	5.2
6.3	60	4.0	214.5	"	"	6400	-	7.6	50	4.8
5.8	65	3.7	235.8	"	"	6400	-	6.9	55	4.4
5.3	72	3.3	257.4	"	"	6400	-	6.3	60	4.0
4.8	79	3.0	283.1	"	"	6400	-	5.8	65	3.7
4.2	90	2.7	324.3	"	"	6400	-	5.0	76	3.2
3.8	100	2.4	356.6	"	"	6400	-	4.6	83	2.9
3.6	106	2.3	380.2	"	"	6400	-	4.3	88	2.7
3.3	115	2.1	418.0	"	"	6400	-	3.9	97	2.5
2.9	131	1.85	469.5	"	"	6400	-	3.5	109	2.2
2.6	146	1.65	539.1	"	"	6400	-	3.1	123	1.95
2.3	166	1.45	592.8	"	"	6400	-	2.8	136	1.75
2.1	119	2.2	643.8	<b>BF10G06-../D04LA4</b>	25	6400	-	2.6	84	3.1
1.8	150	1.75	768.2	"	"	6400	-	2.2	111	2.3
1.6	170	1.55	845.1	"	"	6400	-	2.0	122	2.1
1.4	199	1.3	994.0	"	"	6400	-	1.7	150	1.75
1.2	235	1.1	1190	"	"	6400	-	1.4	193	1.35
3.0	127	3.3	460.0	<b>BF20Z-../D04LA4</b>	28	7900	-	3.6	106	4.0
1.9	141	3.3	736.1	<b>BF20G06-../D04LA4</b>	31	7900	-	2.3	106	4.3
1.7	159	2.9	810.0	"	"	7900	-	2.0	125	3.7
1.5	183	2.5	952.7	"	"	7900	-	1.8	141	3.3
1.2	240	1.9	1140	"	"	7900	-	1.5	178	2.6
1.0	295	1.55	1392	"	"	7900	-	1.2	230	2.0
0.9	335	1.35	1533	"	"	7900	-	1.1	260	1.75
0.8	385	1.2	1764	"	"	7900	-	0.95	310	1.5
1.2	240	2.6	1150	<b>BF30G06-../D04LA4</b>	41	7400	-	1.5	177	3.6
1.1	265	2.4	1286	"	"	7400	-	1.3	210	3.0
1.0	295	2.1	1404	"	"	7400	-	1.2	230	2.7
0.85	355	1.75	1686	"	"	7400	-	1.0	290	2.2
0.7	450	1.4	2026	"	"	7400	-	0.8	380	1.65
0.6	530	1.2	2386	"	"	7400	-	0.7	440	1.45

**P = 0.06 kW**

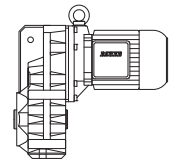
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
24	23.5	10	56.39	<b>BF10-../D06LA4</b>	23	4550	-	29	19.7	12
22	26	9.2	61.55	"	"	4700	-	26.5	21.5	11
20	28.5	8.4	67.69	"	"	4900	-	24	23.5	10
17.5	32.5	7.4	77.55	"	"	5100	-	21	27	8.9
16	35.5	6.8	85.27	"	"	5300	-	19	30	8.0
15	38	6.3	90.91	"	"	5400	-	18	31.5	7.6
14	40.5	5.9	99.97	"	"	5600	-	16.5	34.5	7.0
12.5	45.5	5.3	112.3	"	"	5900	-	14.5	39.5	6.1
11	52	4.6	123.5	"	"	6100	-	13.5	42	5.7
10.5	54	4.4	128.9	"	"	6200	-	13	44	5.5
9.6	59	4.1	141.8	"	"	6400	-	11.5	49.5	4.8
7.5	76	3.2	180.1	<b>BF10Z-../D06LA4</b>	24	6400	-	9.0	63	3.8
6.9	83	2.9	198.0	"	"	6400	-	8.2	69	3.5
6.3	90	2.7	214.5	"	"	6400	-	7.6	75	3.2
5.8	98	2.4	235.8	"	"	6400	-	6.9	83	2.9
5.3	108	2.2	257.4	"	"	6400	-	6.3	90	2.7
4.8	119	2.0	283.1	"	"	6400	-	5.8	98	2.4



# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 0.06 kW



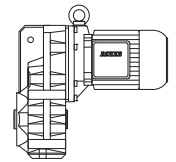
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
4.2	136	1.75	324.3	<b>BF10Z-../D06LA4</b>	"	6400	-	5.0	114	2.1
3.8	150	1.6	356.6	"	"	6400	-	4.6	124	1.95
3.6	159	1.5	380.2	"	"	6400	-	4.3	133	1.8
3.3	173	1.4	418.0	"	"	6400	-	3.9	146	1.65
2.9	197	1.2	469.5	"	"	6400	-	3.5	163	1.45
2.6	220	1.1	539.1	"	"	6400	-	3.1	184	1.3
2.3	245	0.98	592.8	"	"	6400	-	2.8	200	1.2
2.1	210	1.25	643.8	<b>BF10G06-../D06LA4</b>	28	6400	-	2.6	157	1.65
1.8	255	1.0	768.2	"	"	6400	-	2.2	198	1.3
1.6	290	0.9	845.1	"	"	6400	-	2.0	215	1.2
4.2	136	3.1	325.2	<b>BF20Z-../D06LA4</b>	31	7900	-	5.0	114	3.7
4.0	143	2.9	339.1	"	"	7900	-	4.8	119	3.5
3.7	154	2.7	373.1	"	"	7900	-	4.4	130	3.2
3.3	173	2.4	418.1	"	"	7900	-	3.9	146	2.9
3.0	191	2.2	460.0	"	"	7900	-	3.6	159	2.6
2.7	157	2.9	513.7	<b>BF20G06-../D06LA4</b>	34	7900	-	3.2	124	3.7
2.2	200	2.3	617.0	"	"	7900	-	2.7	152	3.0
1.9	240	1.9	736.1	"	"	7900	-	2.3	189	2.4
1.7	270	1.7	810.0	"	"	7900	-	2.0	220	2.1
1.5	310	1.5	952.7	"	"	7900	-	1.8	245	1.9
1.2	400	1.15	1140	"	"	7900	-	1.5	305	1.5
1.0	485	0.95	1392	"	"	7900	-	1.2	390	1.2
3.3	173	3.3	412.6	<b>BF30Z-../D06LA4</b>	42	7400	-	4.0	143	4.0
3.0	191	3.0	463.3	"	"	7400	-	3.5	163	3.5
2.6	220	2.6	537.0	"	"	7400	-	3.1	184	3.1
2.3	245	2.3	590.7	"	"	7400	-	2.8	200	2.9
2.2	200	3.2	622.4	<b>BF30G06-../D06LA4</b>	45	7400	-	2.7	151	4.2
2.0	225	2.8	705.1	"	"	7400	-	2.3	192	3.3
1.7	270	2.3	817.1	"	"	7400	-	2.0	220	2.9
1.5	310	2.0	961.1	"	"	7400	-	1.7	265	2.4
1.2	400	1.6	1150	"	"	7400	-	1.5	305	2.1
1.1	435	1.45	1286	"	"	7400	-	1.3	355	1.75
1.0	485	1.3	1404	"	"	7400	-	1.2	390	1.6
0.85	580	1.1	1686	"	"	7400	-	1.0	480	1.3
0.95	340	2.9	1484	<b>BF40G10-../D06LA4</b>	58	10600	-	1.1	255	3.9
0.75	460	2.2	1810	"	"	10600	-	0.9	335	3.0
0.7	500	2.0	1997	"	"	10600	-	0.85	360	2.8
0.55	710	1.4	2536	"	"	10600	-	0.65	550	1.8
0.49	840	1.2	2810	"	"	10600	-	0.6	620	1.6
0.7	520	2.7	2059	<b>BF50G10-../D06LA4</b>	86	13600	-	0.8	415	3.4
0.6	640	2.2	2360	"	"	13600	-	0.7	510	2.7
0.49	860	1.65	2810	"	"	13600	-	0.6	640	2.2
0.41	1090	1.3	3348	"	"	13600	-	0.49	860	1.65
0.34	1370	1.0	4019	"	"	13600	-	0.41	1090	1.3
0.42	860	2.9	3237	<b>BF60G20-../D06LA4</b>	134	15300	43300	0.55	530	4.7
0.35	1130	2.2	3883	"	"	15300	43300	0.42	860	2.9
0.3	1400	1.8	4646	"	"	15300	43300	0.35	1130	2.2
0.26	1700	1.45	5241	"	"	15300	43300	0.31	1340	1.85
0.23	1980	1.25	6014	"	"	15300	43300	0.27	1620	1.55
0.21	2200	1.15	6679	"	"	15300	43300	0.25	1790	1.4
0.24	1890	3.0	5691	<b>BF70G20-../D06LA4</b>	212	16100	47700	0.29	1480	3.9
0.21	2200	2.6	6530	"	"	16100	47700	0.25	1800	3.2
0.19	2500	2.3	7248	"	"	16100	47700	0.23	2000	2.9
0.17	2850	2.0	8052	"	"	16100	47700	0.21	2200	2.6

7

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 0.09 kW



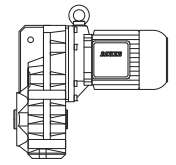
50 Hz			i	Typ	m kg	F <sub>RN</sub> N	F <sub>RV</sub> N	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
34	25	9.6	39.75	<b>BF10-../D06LA4</b>	23	3950	-	41	20.5	12
31.5	27	8.9	43.06	"	"	4100	-	38	22.5	11
29	29.5	8.1	47.35	"	"	4250	-	34.5	24.5	9.8
26.5	32	7.5	51.28	"	"	4400	-	32	26.5	9.1
24	35.5	6.8	56.39	"	"	4550	-	29	29.5	8.1
22	39	6.2	61.55	"	"	4700	-	26.5	32	7.5
20	42.5	5.6	67.69	"	"	4900	-	24	35.5	6.8
17.5	49	4.9	77.55	"	"	5100	-	21	40.5	5.9
16	53	4.5	85.27	"	"	5300	-	19	45	5.3
15	57	4.2	90.91	"	"	5400	-	18	47.5	5.1
14	61	3.9	99.97	"	"	5600	-	16.5	52	4.6
12.5	68	3.5	112.3	"	"	5900	-	14.5	59	4.1
11	78	3.1	123.5	"	"	6100	-	13.5	63	3.8
10.5	81	3.0	128.9	"	"	6200	-	13	66	3.6
9.6	89	2.7	141.8	"	"	6400	-	11.5	74	3.2
9.0	95	2.5	151.2	<b>BF10Z-../D06LA4</b>	24	6400	-	11	78	3.1
8.2	104	2.3	166.2	"	"	6400	-	9.8	87	2.8
7.5	114	2.1	180.1	"	"	6400	-	9.0	95	2.5
6.9	124	1.95	198.0	"	"	6400	-	8.2	104	2.3
6.3	136	1.75	214.5	"	"	6400	-	7.6	113	2.1
5.8	148	1.6	235.8	"	"	6400	-	6.9	124	1.95
5.3	162	1.5	257.4	"	"	6400	-	6.3	136	1.75
4.8	179	1.35	283.1	"	"	6400	-	5.8	148	1.6
4.2	200	1.2	324.3	"	"	6400	-	5.0	171	1.4
3.8	225	1.05	356.6	"	"	6400	-	4.6	186	1.3
3.6	235	1.0	380.2	"	"	6400	-	4.3	199	1.2
3.3	260	0.92	418.0	"	"	6400	-	3.9	220	1.1
2.9	295	0.81	469.5	"	"	6400	-	3.5	245	0.98
2.6	270	0.96	536.0	<b>BF10G06-../D06LA4</b>	28	6400	-	3.1	220	1.2
6.3	136	3.1	216.9	<b>BF20Z-../D06LA4</b>	31	7900	-	7.5	114	3.7
5.8	148	2.8	235.9	"	"	7900	-	6.9	124	3.4
5.3	162	2.6	259.6	"	"	7900	-	6.3	136	3.1
4.6	186	2.3	295.5	"	"	7900	-	5.5	156	2.7
4.2	200	2.1	325.2	"	"	7900	-	5.0	171	2.5
4.0	210	2.0	339.1	"	"	7900	-	4.8	179	2.3
3.7	230	1.85	373.1	"	"	7900	-	4.4	195	2.2
3.3	260	1.6	418.1	"	"	7900	-	3.9	220	1.9
3.0	285	1.45	460.0	"	"	7900	-	3.6	235	1.8
2.7	260	1.75	513.7	<b>BF20G06-../D06LA4</b>	34	7900	-	3.2	210	2.2
2.2	330	1.4	617.0	"	"	7900	-	2.7	255	1.8
1.9	390	1.2	736.1	"	"	7900	-	2.3	310	1.5
1.7	440	1.05	810.0	"	"	7900	-	2.0	360	1.3
1.5	500	0.92	952.7	"	"	7900	-	1.8	405	1.15
4.7	182	3.2	289.8	<b>BF30Z-../D06LA4</b>	42	7400	-	5.6	153	3.8
4.4	195	2.9	310.7	"	"	7400	-	5.3	162	3.5
4.0	210	2.7	341.8	"	"	7400	-	4.8	179	3.2
3.6	235	2.4	375.1	"	"	7400	-	4.4	195	2.9
3.3	260	2.2	412.6	"	"	7400	-	4.0	210	2.7
3.0	285	2.0	463.3	"	"	7400	-	3.5	245	2.3
2.6	330	1.75	537.0	"	"	7400	-	3.1	275	2.1
2.3	370	1.55	590.7	"	"	7400	-	2.8	305	1.9
2.2	330	1.9	622.4	<b>BF30G06-../D06LA4</b>	45	7400	-	2.7	255	2.5
2.0	370	1.7	705.1	"	"	7400	-	2.3	315	2.0
1.7	435	1.45	817.1	"	"	7400	-	2.0	360	1.75
1.5	500	1.25	961.1	"	"	7400	-	1.7	430	1.45
1.2	630	1.0	1150	"	"	7400	-	1.5	495	1.25
1.1	690	0.91	1286	"	"	7400	-	1.3	570	1.1
1.0	770	0.82	1404	"	"	7400	-	1.2	630	1.0

7

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 0.09 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
3.0	285	3.2	459.1	<b>BF40Z-../D06LA4</b>	53	10600	-	3.6	235	3.8
2.7	315	2.9	514.6	"	"	10600	-	3.2	265	3.4
2.4	355	2.5	566.1	"	"	10600	-	2.9	295	3.1
1.5	350	2.9	928.9	<b>BF40G10-../D06LA4</b>	58	10600	-	1.8	255	3.9
1.3	420	2.4	1106	"	"	10600	-	1.5	330	3.0
1.1	540	1.85	1324	"	"	10600	-	1.3	425	2.4
0.95	640	1.55	1484	"	"	10600	-	1.1	510	1.95
0.75	840	1.2	1810	"	"	10600	-	0.9	650	1.55
0.7	910	1.1	1997	"	"	10600	-	0.85	690	1.45
1.2	500	2.8	1203	<b>BF50G10-../D06LA4</b>	86	13600	-	1.4	400	3.5
1.0	620	2.3	1359	"	"	13600	-	1.2	475	2.9
0.9	680	2.1	1520	"	"	13600	-	1.1	510	2.7
0.85	730	1.9	1684	"	"	13600	-	1.0	570	2.5
0.7	920	1.5	2059	"	"	13600	-	0.8	770	1.8
0.6	1120	1.25	2360	"	"	13600	-	0.7	920	1.5
0.7	780	3.2	1955	<b>BF60G20-../D06LA4</b>	134	15300	43300	0.85	560	4.5
0.65	860	2.9	2172	"	"	15300	43300	0.75	680	3.7
0.49	1250	2.0	2781	"	"	15300	43300	0.6	930	2.7
0.42	1540	1.6	3237	"	"	15300	43300	0.55	1060	2.4
0.35	1950	1.3	3883	"	"	15300	43300	0.42	1540	1.6
0.3	2350	1.05	4646	"	"	15300	43300	0.35	1950	1.3
0.34	2000	2.9	4090	<b>BF70G20-../D06LA4</b>	212	16100	47700	0.4	1650	3.5
0.3	2350	2.4	4542	"	"	16100	47700	0.36	1890	3.0
0.27	2650	2.2	5124	"	"	16100	47700	0.32	2150	2.7
0.24	3050	1.85	5691	"	"	16100	47700	0.29	2450	2.3
0.21	3600	1.6	6530	"	"	16100	47700	0.25	2900	1.95
0.19	4000	1.45	7248	"	"	16100	47700	0.23	3200	1.8
0.17	4550	1.25	8052	"	"	16100	47700	0.21	3600	1.6

**P = 0.12 kW**

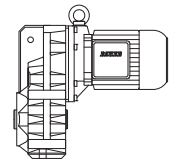
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
47.5	24	10	28.47	<b>BF10-../D06LA4</b>	23	3450	-	57	20	12
43.5	26	9.2	31.31	"	"	3600	-	52	22	11
37.5	30.5	7.9	36.15	"	"	3800	-	45	25	9.6
34	33.5	7.2	39.75	"	"	3950	-	41	27.5	8.7
31.5	36	6.7	43.06	"	"	4100	-	38	30	8.0
29	39.5	6.1	47.35	"	"	4250	-	34.5	33	7.3
26.5	43	5.6	51.28	"	"	4400	-	32	35.5	6.8
24	47.5	5.1	56.39	"	"	4550	-	29	39.5	6.1
22	52	4.6	61.55	"	"	4700	-	26.5	43	5.6
20	57	4.2	67.69	"	"	4900	-	24	47.5	5.1
17.5	65	3.7	77.55	"	"	5100	-	21	54	4.4
16	71	3.4	85.27	"	"	5300	-	19	60	4.0
15	76	3.2	90.91	"	"	5400	-	18	63	3.8
14	81	3.0	99.97	"	"	5600	-	16.5	69	3.5
12.5	91	2.6	112.3	"	"	5900	-	14.5	79	3.0
11	104	2.3	123.5	"	"	6100	-	13.5	84	2.9
10.5	109	2.2	128.9	"	"	6200	-	13	88	2.7
9.6	119	2.0	141.8	"	"	6400	-	11.5	99	2.4
9.0	127	1.9	151.2	<b>BF10Z-../D06LA4</b>	24	6400	-	11	104	2.3
8.2	139	1.75	166.2	"	"	6400	-	9.8	116	2.1
7.5	152	1.6	180.1	"	"	6400	-	9.0	127	1.9
6.9	166	1.45	198.0	"	"	6400	-	8.2	139	1.75
6.3	181	1.35	214.5	"	"	6400	-	7.6	150	1.6



# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 0.12 kW



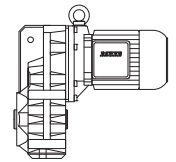
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
5.8	197	1.2	235.8	BF10Z-../D06LA4	"	6400	-	6.9	166	1.45
5.3	215	1.1	257.4	"	"	6400	-	6.3	181	1.35
4.8	235	1.0	283.1	"	"	6400	-	5.8	197	1.2
4.2	270	0.89	324.3	"	"	6400	-	5.0	225	1.05
3.8	300	0.8	356.6	"	"	6400	-	4.6	245	0.98
3.6	275	0.95	377.9	BF10G06-../D06LA4	28	6400	-	4.3	225	1.15
3.2	310	0.84	424.5	"	"	6400	-	3.9	245	1.05
8.7	131	3.2	155.4	BF20Z-../D06LA4	31	7900	-	10.5	109	3.9
8.3	138	3.0	164.3	"	"	7900	-	9.9	115	3.7
7.5	152	2.8	180.8	"	"	7900	-	9.0	127	3.3
6.9	166	2.5	197.1	"	"	7900	-	8.3	138	3.0
6.3	181	2.3	216.9	"	"	7900	-	7.5	152	2.8
5.8	197	2.1	235.9	"	"	7900	-	6.9	166	2.5
5.3	215	1.95	259.6	"	"	7900	-	6.3	181	2.3
4.6	245	1.7	295.5	"	"	7900	-	5.5	205	2.0
4.2	270	1.55	325.2	"	"	7900	-	5.0	225	1.85
4.0	285	1.45	339.1	"	"	7900	-	4.8	235	1.8
3.7	305	1.4	373.1	"	"	7900	-	4.4	260	1.6
3.3	345	1.2	418.1	"	"	7900	-	3.9	290	1.45
3.0	380	1.1	460.0	"	"	7900	-	3.6	315	1.35
2.7	370	1.25	513.7	BF20G06-../D06LA4	34	7900	-	3.2	300	1.55
2.2	460	1.0	617.0	"	"	7900	-	2.7	360	1.3
1.9	540	0.85	736.1	"	"	7900	-	2.3	435	1.05
6.1	187	3.1	224.8	BF30Z-../D06LA4	42	7400	-	7.3	156	3.7
5.5	205	2.8	247.3	"	"	7400	-	6.6	173	3.3
5.2	220	2.6	263.5	"	"	7400	-	6.2	184	3.1
4.7	240	2.4	289.8	"	"	7400	-	5.6	200	2.9
4.4	260	2.2	310.7	"	"	7400	-	5.3	215	2.7
4.0	285	2.0	341.8	"	"	7400	-	4.8	235	2.4
3.6	315	1.85	375.1	"	"	7400	-	4.4	260	2.2
3.3	345	1.65	412.6	"	"	7400	-	4.0	285	2.0
3.0	380	1.5	463.3	"	"	7400	-	3.5	325	1.75
2.6	440	1.3	537.0	"	"	7400	-	3.1	365	1.6
2.3	495	1.15	590.7	"	"	7400	-	2.8	405	1.4
2.2	460	1.35	622.4	BF30G06-../D06LA4	45	7400	-	2.7	360	1.75
2.0	510	1.25	705.1	"	"	7400	-	2.3	440	1.45
1.7	600	1.05	817.1	"	"	7400	-	2.0	500	1.25
1.5	690	0.91	961.1	"	"	7400	-	1.7	600	1.05
4.2	270	3.3	324.7	BF40Z-../D06LA4	53	10600	-	5.0	225	4.0
3.9	290	3.1	346.8	"	"	10600	-	4.7	240	3.8
3.6	315	2.9	381.5	"	"	10600	-	4.3	265	3.4
3.3	345	2.6	417.3	"	"	10600	-	3.9	290	3.1
3.0	380	2.4	459.1	"	"	10600	-	3.6	315	2.9
2.7	420	2.1	514.6	"	"	10600	-	3.2	355	2.5
2.4	475	1.9	566.1	"	"	10600	-	2.9	395	2.3
2.3	310	3.2	597.3	BF40G10-../D06LA4	58	10600	-	2.8	220	4.5
1.9	395	2.5	731.6	"	"	10600	-	2.3	290	3.4
1.5	540	1.85	928.9	"	"	10600	-	1.8	410	2.4
1.3	640	1.55	1106	"	"	10600	-	1.5	520	1.9
1.1	800	1.25	1324	"	"	10600	-	1.3	640	1.55
0.95	940	1.05	1484	"	"	10600	-	1.1	780	1.3
2.8	405	3.2	496.4	BF50Z-../D06LA4	82	13600	-	3.3	345	3.8
2.5	455	2.9	555.2	"	"	13600	-	3.0	380	3.4
1.6	500	2.8	864.5	BF50G10-../D06LA4	86	13600	-	1.9	395	3.5
1.4	590	2.4	1029	"	"	13600	-	1.6	490	2.9
1.2	740	1.9	1203	"	"	13600	-	1.4	600	2.3
1.0	900	1.55	1359	"	"	13600	-	1.2	710	1.95
0.9	1000	1.4	1520	"	"	13600	-	1.1	770	1.8
0.85	1060	1.3	1684	"	"	13600	-	1.0	860	1.65
0.7	1330	1.05	2059	"	"	13600	-	0.8	1130	1.25

7

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 0.12 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
0.95	820	3.0	1494	<b>BF60G20-../D06LA4</b>	134	15300	43300	1.1	660	3.8
0.85	920	2.7	1658	"	"	15300	43300	1.0	720	3.5
0.7	1190	2.1	1955	"	"	15300	43300	0.85	900	2.8
0.65	1300	1.9	2172	"	"	15300	43300	0.75	1060	2.4
0.49	1830	1.35	2781	"	"	15300	43300	0.6	1400	1.8
0.42	2200	1.15	3237	"	"	15300	43300	0.55	1580	1.6
0.48	1890	3.0	2849	<b>BF70G20-../D06LA4</b>	212	16100	47700	0.6	1410	4.0
0.4	2350	2.4	3417	"	"	16100	47700	0.48	1890	3.0
0.34	2850	2.0	4090	"	"	16100	47700	0.4	2350	2.4
0.3	3300	1.75	4542	"	"	16100	47700	0.36	2650	2.2
0.27	3750	1.5	5124	"	"	16100	47700	0.32	3050	1.85
0.24	4250	1.35	5691	"	"	16100	47700	0.29	3450	1.65
0.21	4950	1.15	6530	"	"	16100	47700	0.25	4050	1.4
0.19	5500	1.05	7248	"	"	16100	47700	0.23	4450	1.3
0.19	5500	1.05	7248	"	"	16100	47700	0.23	4450	1.3

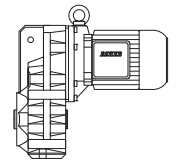
**P = 0.18 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
177	9.7	7.0	7.66	<b>BF06-../D05LA4</b>	10	1800	-	215	7.9	8.6
147	11.6	6.0	9.21	"	"	1900	-	176	9.7	7.2
112	15.3	4.9	12.07	"	"	2000	-	135	12.7	5.9
96	17.9	4.7	14.21	"	"	2100	-	115	14.9	5.7
80	21	4.5	16.99	"	"	2500	-	96	17.9	5.3
67	25.5	3.7	20.42	"	"	2700	-	80	21	4.5
51	33.5	2.8	26.76	"	"	3000	-	61	28	3.4
43	39.5	2.4	31.50	"	"	3200	-	52	33	2.9
36	47.5	2.0	37.69	"	"	3500	-	43	39.5	2.4
29.5	58	1.65	46.14	"	"	3800	-	35.5	48	2.0
23.5	73	1.3	58.33	"	"	4000	-	28	61	1.55
20.5	83	1.15	66.82	"	"	4000	-	24.5	70	1.35
16.5	104	0.91	83.61	"	"	4000	-	19.5	88	1.1
14.5	118	0.81	95.16	"	"	4000	-	17.5	98	0.97
22	78	3.1	61.55	<b>BF10-../D06LA4</b>	23	4700	-	26.5	64	3.8
20	85	2.8	67.69	"	"	4900	-	24	71	3.4
17.5	98	2.4	77.55	"	"	5100	-	21	81	3.0
16	107	2.2	85.27	"	"	5300	-	19	90	2.7
15	114	2.1	90.91	"	"	5400	-	18	95	2.5
14	122	1.95	99.97	"	"	5600	-	16.5	104	2.3
12.5	137	1.75	112.3	"	"	5900	-	14.5	118	2.0
11	156	1.55	123.5	"	"	6100	-	13.5	127	1.9
10.5	163	1.45	128.9	"	"	6200	-	13	132	1.8
9.6	179	1.35	141.8	"	"	6400	-	11.5	149	1.6
9.0	191	1.25	151.2	<b>BF10Z-../D06LA4</b>	24	6400	-	11	156	1.55
8.2	205	1.15	166.2	"	"	6400	-	9.8	175	1.35
7.5	225	1.05	180.1	"	"	6400	-	9.0	191	1.25
6.9	245	0.98	198.0	"	"	6400	-	8.2	205	1.15
6.3	270	0.89	214.5	"	"	6400	-	7.6	225	1.05
5.8	295	0.81	235.8	"	"	6400	-	6.9	245	0.98
13.5	127	3.3	100.2	<b>BF20-../D06LA4</b>	30	7000	-	16.5	104	4.0
12.5	137	3.1	110.2	"	"	7300	-	15	114	3.7
11	156	2.7	123.5	"	"	7600	-	13.5	127	3.3
10	171	2.5	135.9	"	"	7900	-	12	143	2.9
9.6	179	2.3	141.2	<b>BF20Z-../D06LA4</b>	31	7900	-	11.5	149	2.8
8.7	197	2.1	155.4	"	"	7900	-	10.5	163	2.6
8.3	205	2.0	164.3	"	"	7900	-	9.9	173	2.4
7.5	225	1.85	180.8	"	"	7900	-	9.0	191	2.2
6.9	245	1.7	197.1	"	"	7900	-	8.3	205	2.0
6.3	270	1.55	216.9	"	"	7900	-	7.5	225	1.85

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 0.18 kW



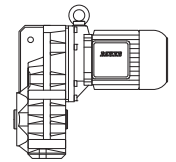
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
5.8	295	1.4	235.9	<b>BF20Z-../D06LA4</b>	"	7900	-	6.9	245	1.7
5.3	320	1.3	259.6	"	"	7900	-	6.3	270	1.55
4.6	370	1.15	295.5	"	"	7900	-	5.5	310	1.35
4.2	405	1.05	325.2	"	"	7900	-	5.0	340	1.25
4.0	425	0.99	339.1	"	"	7900	-	4.8	355	1.2
3.7	460	0.91	373.1	"	"	7900	-	4.4	390	1.1
3.3	520	0.81	418.1	"	"	7900	-	3.9	440	0.95
9.9	173	3.3	137.1	<b>BF30-../D06LA4</b>	40	7400	-	12	143	4.0
9.0	191	3.0	150.7	<b>BF30Z-../D06LA4</b>	42	7400	-	11	156	3.7
8.2	205	2.8	165.8	"	"	7400	-	9.8	175	3.3
7.7	220	2.6	176.6	"	"	7400	-	9.2	186	3.1
7.0	245	2.3	194.3	"	"	7400	-	8.4	200	2.9
6.1	280	2.1	224.8	"	"	7400	-	7.3	235	2.4
5.5	310	1.85	247.3	"	"	7400	-	6.6	260	2.2
5.2	330	1.75	263.5	"	"	7400	-	6.2	275	2.1
4.7	365	1.6	289.8	"	"	7400	-	5.6	305	1.9
4.4	390	1.45	310.7	"	"	7400	-	5.3	320	1.8
4.0	425	1.35	341.8	"	"	7400	-	4.8	355	1.6
3.6	475	1.2	375.1	"	"	7400	-	4.4	390	1.45
3.3	520	1.1	412.6	"	"	7400	-	4.0	425	1.35
3.0	570	1.0	463.3	"	"	7400	-	3.5	490	1.15
2.6	660	0.87	537.0	"	"	7400	-	3.1	550	1.05
2.2	720	0.88	622.4	<b>BF30G06-../D06LA4</b>	45	7400	-	2.7	570	1.1
6.1	280	3.2	222.4	<b>BF40Z-../D06LA4</b>	53	10600	-	7.3	235	3.8
5.4	315	2.9	253.2	"	"	10600	-	6.4	265	3.4
4.9	350	2.6	278.5	"	"	10600	-	5.9	290	3.1
4.6	370	2.4	295.1	"	"	10600	-	5.5	310	2.9
4.2	405	2.2	324.7	"	"	10600	-	5.0	340	2.6
3.9	440	2.0	346.8	"	"	10600	-	4.7	365	2.5
3.6	475	1.9	381.5	"	"	10600	-	4.3	395	2.3
3.3	520	1.75	417.3	"	"	10600	-	3.9	440	2.0
3.0	570	1.6	459.1	"	"	10600	-	3.6	475	1.9
2.7	630	1.45	514.6	"	"	10600	-	3.2	530	1.7
2.4	710	1.25	566.1	"	"	10600	-	2.9	590	1.55
2.3	560	1.8	597.3	<b>BF40G10-../D06LA4</b>	58	10600	-	2.8	425	2.4
1.9	690	1.45	731.6	"	"	10600	-	2.3	540	1.85
1.5	920	1.1	928.9	"	"	10600	-	1.8	730	1.35
1.3	1080	0.93	1106	"	"	10600	-	1.5	900	1.1
4.3	395	3.3	316.6	<b>BF50Z-../D06LA4</b>	82	13600	-	5.2	330	3.9
3.9	440	3.0	354.0	"	"	13600	-	4.6	370	3.5
3.5	490	2.7	392.8	"	"	13600	-	4.2	405	3.2
3.1	550	2.4	439.3	"	"	13600	-	3.7	460	2.8
2.8	610	2.1	496.4	"	"	13600	-	3.3	520	2.5
2.5	680	1.9	555.2	"	"	13600	-	3.0	570	2.3
2.0	660	2.1	680.9	<b>BF50G10-../D06LA4</b>	86	13600	-	2.4	520	2.7
1.6	860	1.65	864.5	"	"	13600	-	1.9	690	2.0
1.4	1000	1.4	1029	"	"	13600	-	1.6	840	1.65
1.2	1220	1.15	1203	"	"	13600	-	1.4	1010	1.4
1.0	1470	0.95	1359	"	"	13600	-	1.2	1190	1.2
1.5	870	2.9	937.6	<b>BF60G20-../D06LA4</b>	134	15300	43300	1.8	670	3.7
1.2	1120	2.2	1211	"	"	15300	43300	1.4	920	2.7
0.95	1430	1.75	1494	"	"	15300	43300	1.1	1180	2.1
0.85	1600	1.55	1658	"	"	15300	43300	1.0	1290	1.95
0.7	2000	1.25	1955	"	"	15300	43300	0.85	1570	1.6
0.65	2150	1.15	2172	"	"	15300	43300	0.75	1830	1.35
0.75	1850	3.1	1912	<b>BF70G20-../D06LA4</b>	212	16100	47700	0.85	1580	3.6
0.6	2350	2.4	2448	"	"	16100	47700	0.7	1970	2.9
0.48	3050	1.85	2849	"	"	16100	47700	0.6	2350	2.4
0.4	3800	1.5	3417	"	"	16100	47700	0.48	3050	1.85
0.34	4550	1.25	4090	"	"	16100	47700	0.4	3800	1.5
0.3	5200	1.1	4542	"	"	16100	47700	0.36	4250	1.35

7

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 0.25 kW



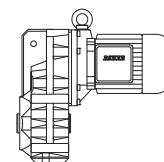
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
177	13.4	5.1	7.66	<b>BF06-../D05LA4</b>	10	1800	-	215	11.1	6.1
147	16.2	4.3	9.21	"	"	1900	-	176	13.5	5.2
112	21	3.6	12.07	"	"	2000	-	135	17.6	4.3
96	24.5	3.5	14.21	"	"	2100	-	115	20.5	4.1
80	29.5	3.2	16.99	"	"	2500	-	96	24.5	3.9
67	35.5	2.7	20.42	"	"	2700	-	80	29.5	3.2
51	46.5	2.0	26.76	"	"	3000	-	61	39	2.4
43	55	1.75	31.50	"	"	3200	-	52	45.5	2.1
36	66	1.45	37.69	"	"	3500	-	43	55	1.75
29.5	80	1.2	46.14	"	"	3800	-	35.5	67	1.4
23.5	101	0.94	58.33	"	"	4000	-	28	85	1.1
20.5	116	0.82	66.82	"	"	4000	-	24.5	97	0.98
31.5	75	3.2	43.06	<b>BF10-../D06LA4</b>	23	4100	-	38	62	3.9
29	82	2.9	47.35	"	"	4250	-	34.5	69	3.5
26.5	90	2.7	51.28	"	"	4400	-	32	74	3.2
24	99	2.4	56.39	"	"	4550	-	29	82	2.9
22	108	2.2	61.55	"	"	4700	-	26.5	90	2.7
20	119	2.0	67.69	"	"	4900	-	24	99	2.4
17.5	136	1.75	77.55	"	"	5100	-	21	113	2.1
16	149	1.6	85.27	"	"	5300	-	19	125	1.9
15	159	1.5	90.91	"	"	5400	-	18	132	1.8
14	170	1.4	99.97	"	"	5600	-	16.5	144	1.65
12.5	191	1.25	112.3	"	"	5900	-	14.5	164	1.45
11	215	1.1	123.5	"	"	6100	-	13.5	176	1.35
10.5	225	1.05	128.9	"	"	6200	-	13	183	1.3
9.6	245	0.98	141.8	"	"	6400	-	11.5	205	1.15
9.0	265	0.91	151.2	<b>BF10Z-../D06LA4</b>	24	6400	-	11	215	1.1
8.2	290	0.83	166.2	"	"	6400	-	9.8	240	1.0
18	132	3.2	76.69	<b>BF20-../D06LA4</b>	30	6300	-	21.5	111	3.8
15.5	154	2.7	87.31	"	"	6600	-	19	125	3.4
14.5	164	2.6	96.08	"	"	6900	-	17	140	3.0
13.5	176	2.4	100.2	"	"	7000	-	16.5	144	2.9
12.5	191	2.2	110.2	"	"	7300	-	15	159	2.6
11	215	1.95	123.5	"	"	7600	-	13.5	176	2.4
10	235	1.8	135.9	"	"	7900	-	12	198	2.1
9.6	245	1.7	141.2	<b>BF20Z-../D06LA4</b>	31	7900	-	11.5	205	2.0
8.7	270	1.55	155.4	"	"	7900	-	10.5	225	1.85
8.3	285	1.45	164.3	"	"	7900	-	9.9	240	1.75
7.5	315	1.35	180.8	"	"	7900	-	9.0	265	1.6
6.9	345	1.2	197.1	"	"	7900	-	8.3	285	1.45
6.3	375	1.1	216.9	"	"	7900	-	7.5	315	1.35
5.8	410	1.0	235.9	"	"	7900	-	6.9	345	1.2
5.3	450	0.93	259.6	"	"	7900	-	6.3	375	1.1
4.6	510	0.82	295.5	"	"	7900	-	5.5	430	0.98
13	183	3.1	107.6	<b>BF30-../D06LA4</b>	40	6700	-	15.5	154	3.7
11.5	205	2.8	118.3	"	"	7000	-	14	170	3.4
11	215	2.7	124.7	"	"	7100	-	13	183	3.1
9.9	240	2.4	137.1	"	"	7400	-	12	198	2.9
9.0	265	2.2	150.7	<b>BF30Z-../D06LA4</b>	42	7400	-	11	215	2.7
8.2	290	2.0	165.8	"	"	7400	-	9.8	240	2.4
7.7	310	1.85	176.6	"	"	7400	-	9.2	255	2.3
7.0	340	1.7	194.3	"	"	7400	-	8.4	280	2.1
6.1	390	1.45	224.8	"	"	7400	-	7.3	325	1.75
5.5	430	1.35	247.3	"	"	7400	-	6.6	360	1.6
5.2	455	1.25	263.5	"	"	7400	-	6.2	385	1.5
4.7	500	1.15	289.8	"	"	7400	-	5.6	425	1.35
4.4	540	1.05	310.7	"	"	7400	-	5.3	450	1.3
4.0	590	0.97	341.8	"	"	7400	-	4.8	495	1.15
3.6	660	0.87	375.1	"	"	7400	-	4.4	540	1.05
3.3	720	0.8	412.6	"	"	7400	-	4.0	590	0.97
8.7	270	3.3	155.6	<b>BF40Z-../D06LA4</b>	53	10600	-	10.5	225	4.0
7.9	300	3.0	171.2	"	"	10600	-	9.5	250	3.6

7

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 0.25 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
7.2	330	2.7	188.3	<b>BF40Z-../D06LA4</b>	"	10600	-	8.7	270	3.3
6.7	355	2.5	202.2	"	"	10600	-	8.1	290	3.1
6.1	390	2.3	222.4	"	"	10600	-	7.3	325	2.8
5.4	440	2.0	253.2	"	"	10600	-	6.4	370	2.4
4.9	485	1.85	278.5	"	"	10600	-	5.9	400	2.3
4.6	510	1.75	295.1	"	"	10600	-	5.5	430	2.1
4.2	560	1.6	324.7	"	"	10600	-	5.0	475	1.9
3.9	610	1.5	346.8	"	"	10600	-	4.7	500	1.8
3.6	660	1.35	381.5	"	"	10600	-	4.3	550	1.65
3.3	720	1.25	417.3	"	"	10600	-	3.9	610	1.5
3.0	790	1.15	459.1	"	"	10600	-	3.6	660	1.35
2.7	880	1.0	514.6	"	"	10600	-	3.2	740	1.2
2.4	990	0.91	566.1	"	"	10600	-	2.9	820	1.1
2.3	850	1.2	597.3	<b>BF40G10-../D06LA4</b>	58	10600	-	2.8	660	1.5
1.9	1050	0.95	731.6	"	"	10600	-	2.3	830	1.2
5.5	430	3.0	247.5	<b>BF50Z-../D06LA4</b>	82	13600	-	6.6	360	3.6
4.9	485	2.7	276.8	"	"	13600	-	5.9	400	3.3
4.3	550	2.4	316.6	"	"	13600	-	5.2	455	2.9
3.9	610	2.1	354.0	"	"	13600	-	4.6	510	2.5
3.5	680	1.9	392.8	"	"	13600	-	4.2	560	2.3
3.1	770	1.7	439.3	"	"	13600	-	3.7	640	2.0
2.8	850	1.55	496.4	"	"	13600	-	3.3	720	1.8
2.5	950	1.35	555.2	"	"	13600	-	3.0	790	1.65
2.0	1000	1.4	680.9	<b>BF50G10-../D06LA4</b>	86	13600	-	2.4	800	1.75
1.6	1280	1.1	864.5	"	"	13600	-	1.9	1050	1.35
1.4	1480	0.95	1029	"	"	13600	-	1.6	1260	1.1
2.4	750	3.3	569.3	<b>BF60G20-../D06LA4</b>	134	15300	43300	2.9	580	4.3
2.0	900	2.8	689.0	"	"	15300	43300	2.4	700	3.6
1.7	1090	2.3	813.2	"	"	15300	43300	2.0	880	2.8
1.5	1310	1.9	937.6	"	"	15300	43300	1.8	1050	2.4
1.2	1680	1.5	1211	"	"	15300	43300	1.4	1390	1.8
0.95	2100	1.2	1494	"	"	15300	43300	1.1	1790	1.4
0.85	2350	1.05	1658	"	"	15300	43300	1.0	1960	1.3
1.0	2000	2.9	1390	<b>BF70G20-../D06LA4</b>	212	16100	47700	1.2	1630	3.5
0.85	2350	2.4	1621	"	"	16100	47700	1.0	1970	2.9
0.75	2700	2.1	1912	"	"	16100	47700	0.85	2350	2.4
0.6	3500	1.65	2448	"	"	16100	47700	0.7	2900	1.95
0.48	4450	1.3	2849	"	"	16100	47700	0.6	3450	1.65
0.4	5400	1.05	3417	"	"	16100	47700	0.48	4450	1.3

**P = 0.3 kW**

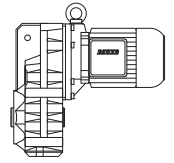
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
177	16.1	4.2	7.66	<b>BF06-../D07LA4</b>	14	1800	-	215	13.3	5.1
147	19.4	3.6	9.21	"	"	1900	-	176	16.2	4.3
112	25.5	2.9	12.07	"	"	2000	-	135	21	3.6
96	29.5	2.9	14.21	"	"	2100	-	115	24.5	3.5
80	35.5	2.7	16.99	"	"	2500	-	96	29.5	3.2
67	42.5	2.2	20.42	"	"	2700	-	80	35.5	2.7
51	56	1.7	26.76	"	"	3000	-	61	46.5	2.0
43	66	1.45	31.50	"	"	3200	-	52	55	1.75
36	79	1.2	37.69	"	"	3500	-	43	66	1.45
29.5	97	0.98	46.14	"	"	3800	-	35.5	80	1.2
37.5	76	3.2	36.15	<b>BF10-../D07LA4</b>	26	3800	-	45	63	3.8
34	84	2.9	39.75	"	"	3950	-	41	69	3.5
31.5	90	2.7	43.06	"	"	4100	-	38	75	3.2
29	98	2.4	47.35	"	"	4250	-	34.5	83	2.9
26.5	108	2.2	51.28	"	"	4400	-	32	89	2.7
24	119	2.0	56.39	"	"	4550	-	29	98	2.4



# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 0.3 kW

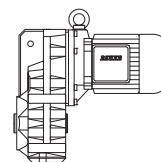


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
22	130	1.85	61.55	<b>BF10-../D07LA4</b>	"	4700	-	26.5	108	2.2
20	143	1.7	67.69	"	"	4900	-	24	119	2.0
17.5	163	1.45	77.55	"	"	5100	-	21	136	1.75
16	179	1.35	85.27	"	"	5300	-	19	150	1.6
15	191	1.25	90.91	"	"	5400	-	18	159	1.5
14	200	1.2	99.97	"	"	5600	-	16.5	173	1.4
12.5	225	1.05	112.3	"	"	5900	-	14.5	197	1.2
11	260	0.92	123.5	"	"	6100	-	13.5	210	1.15
10.5	270	0.89	128.9	"	"	6200	-	13	220	1.1
9.6	295	0.81	141.8	"	"	6400	-	11.5	245	0.98
21.5	133	3.2	64.08	<b>BF20-../D07LA4</b>	32	5900	-	25.5	112	3.8
19.5	146	2.9	69.70	"	"	6100	-	23.5	121	3.5
18	159	2.6	76.69	"	"	6300	-	21.5	133	3.2
15.5	184	2.3	87.31	"	"	6600	-	19	150	2.8
14.5	197	2.1	96.08	"	"	6900	-	17	168	2.5
13.5	210	2.0	100.2	"	"	7000	-	16.5	173	2.4
12.5	225	1.85	110.2	"	"	7300	-	15	191	2.2
11	260	1.6	123.5	"	"	7600	-	13.5	210	2.0
10	285	1.45	135.9	"	"	7900	-	12	235	1.8
9.6	295	1.4	141.2	<b>BF20Z-../D07LA4</b>	34	7900	-	11.5	245	1.7
8.7	325	1.3	155.4	"	"	7900	-	10.5	270	1.55
8.3	345	1.2	164.3	"	"	7900	-	9.9	285	1.45
7.5	380	1.1	180.8	"	"	7900	-	9.0	315	1.35
6.9	415	1.0	197.1	"	"	7900	-	8.3	345	1.2
6.3	450	0.93	216.9	"	"	7900	-	7.5	380	1.1
5.8	490	0.86	235.9	"	"	7900	-	6.9	415	1.0
16	179	3.2	87.08	<b>BF30-../D07LA4</b>	42	6200	-	19	150	3.8
14.5	197	2.9	95.79	"	"	6400	-	17	168	3.4
13	220	2.6	107.6	"	"	6700	-	15.5	184	3.1
11.5	245	2.3	118.3	"	"	7000	-	14	200	2.9
11	260	2.2	124.7	"	"	7100	-	13	220	2.6
9.9	285	2.0	137.1	"	"	7400	-	12	235	2.4
9.0	315	1.85	150.7	<b>BF30Z-../D07LA4</b>	45	7400	-	11	260	2.2
8.2	345	1.65	165.8	"	"	7400	-	9.8	290	2.0
7.7	370	1.55	176.6	"	"	7400	-	9.2	310	1.85
7.0	405	1.4	194.3	"	"	7400	-	8.4	340	1.7
6.1	465	1.25	224.8	"	"	7400	-	7.3	390	1.45
5.5	520	1.1	247.3	"	"	7400	-	6.6	430	1.35
5.2	550	1.05	263.5	"	"	7400	-	6.2	460	1.25
4.7	600	0.96	289.8	"	"	7400	-	5.6	510	1.15
4.4	650	0.88	310.7	"	"	7400	-	5.3	540	1.05
4.0	710	0.81	341.8	"	"	7400	-	4.8	590	0.97
9.6	295	3.1	141.4	<b>BF40Z-../D07LA4</b>	55	10600	-	11.5	245	3.7
8.7	325	2.8	155.6	"	"	10600	-	10.5	270	3.3
7.9	360	2.5	171.2	"	"	10600	-	9.5	300	3.0
7.2	395	2.3	188.3	"	"	10600	-	8.7	325	2.8
6.7	425	2.1	202.2	"	"	10600	-	8.1	350	2.6
6.1	465	1.95	222.4	"	"	10600	-	7.3	390	2.3
5.4	530	1.7	253.2	"	"	10600	-	6.4	445	2.0
4.9	580	1.55	278.5	"	"	10600	-	5.9	485	1.85
4.6	620	1.45	295.1	"	"	10600	-	5.5	520	1.75
4.2	680	1.3	324.7	"	"	10600	-	5.0	570	1.6
3.9	730	1.25	346.8	"	"	10600	-	4.7	600	1.5
3.6	790	1.15	381.5	"	"	10600	-	4.3	660	1.35
3.3	860	1.05	417.3	"	"	10600	-	3.9	730	1.25
3.0	950	0.95	459.1	"	"	10600	-	3.6	790	1.15
2.7	1060	0.85	514.6	"	"	10600	-	3.2	890	1.0
2.3	1050	0.95	597.3	<b>BF40G10-../D07LA4</b>	61	10600	-	2.8	830	1.2

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 0.3 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
6.6	430	3.0	205.2	<b>BF50Z-../D07LA4</b>	85	13600	-	7.9	360	3.6
5.5	520	2.5	247.5	"	"	13600	-	6.6	430	3.0
4.9	580	2.2	276.8	"	"	13600	-	5.9	485	2.7
4.3	660	1.95	316.6	"	"	13600	-	5.2	550	2.4
3.9	730	1.8	354.0	"	"	13600	-	4.6	620	2.1
3.5	810	1.6	392.8	"	"	13600	-	4.2	680	1.9
3.1	920	1.4	439.3	"	"	13600	-	3.7	770	1.7
2.8	1020	1.25	496.4	"	"	13600	-	3.3	860	1.5
2.5	1140	1.15	555.2	"	"	13600	-	3.0	950	1.35
2.0	1240	1.15	680.9	<b>BF50G10-../D07LA4</b>	89	13600	-	2.4	1000	1.4
1.6	1580	0.89	864.5	"	"	13600	-	1.9	1300	1.1
2.4	950	2.6	569.3	<b>BF60G20-../D07LA4</b>	136	15300	43300	2.9	740	3.4
2.0	1140	2.2	689.0	"	"	15300	43300	2.4	900	2.8
1.7	1370	1.8	813.2	"	"	15300	43300	2.0	1120	2.2
1.5	1630	1.55	937.6	"	"	15300	43300	1.8	1310	1.9
1.2	2050	1.2	1211	"	"	15300	43300	1.4	1740	1.45
1.4	1740	3.3	1017	<b>BF70G20-../D07LA4</b>	215	16100	47700	1.6	1490	3.8
1.0	2500	2.3	1390	"	"	16100	47700	1.2	2000	2.9
0.85	2950	1.95	1621	"	"	16100	47700	1.0	2450	2.3
0.75	3350	1.7	1912	"	"	16100	47700	0.85	2900	1.95
0.6	4250	1.35	2448	"	"	16100	47700	0.7	3600	1.6
0.48	5400	1.05	2849	"	"	16100	47700	0.6	4250	1.35

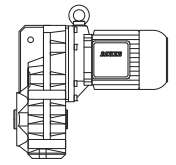
**P = 0.37 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
177	19.9	3.4	7.66	<b>BF06-../D07LA4</b>	14	1800	-	215	16.4	4.1
147	24	2.9	9.21	"	"	1900	-	176	20	3.5
112	31.5	2.4	12.07	"	"	2000	-	135	26	2.9
96	36.5	2.3	14.21	"	"	2100	-	115	30.5	2.8
80	44	2.2	16.99	"	"	2500	-	96	36.5	2.6
67	52	1.85	20.42	"	"	2700	-	80	44	2.2
51	69	1.4	26.76	"	"	3000	-	61	57	1.65
43	82	1.15	31.50	"	"	3200	-	52	67	1.4
36	98	0.97	37.69	"	"	3500	-	43	82	1.15
29.5	119	0.8	46.14	"	"	3800	-	35.5	99	0.96
47.5	74	3.2	28.47	<b>BF10-../D07LA4</b>	26	3450	-	57	61	3.9
43.5	81	3.0	31.31	"	"	3600	-	52	67	3.6
37.5	94	2.6	36.15	"	"	3800	-	45	78	3.1
34	103	2.3	39.75	"	"	3950	-	41	86	2.8
31.5	112	2.1	43.06	"	"	4100	-	38	92	2.6
29	121	2.0	47.35	"	"	4250	-	34.5	102	2.4
26.5	133	1.8	51.28	"	"	4400	-	32	110	2.2
24	147	1.65	56.39	"	"	4550	-	29	121	2.0
22	160	1.5	61.55	"	"	4700	-	26.5	133	1.8
20	176	1.35	67.69	"	"	4900	-	24	147	1.65
17.5	200	1.2	77.55	"	"	5100	-	21	168	1.45
16	220	1.1	85.27	"	"	5300	-	19	185	1.3
15	235	1.0	90.91	"	"	5400	-	18	196	1.2
14	250	0.96	99.97	"	"	5600	-	16.5	210	1.15
12.5	280	0.86	112.3	"	"	5900	-	14.5	240	1.0
28	126	3.3	48.56	<b>BF20-../D07LA4</b>	32	5200	-	33.5	105	4.0
25.5	138	3.0	53.43	"	"	5500	-	30.5	115	3.7
23.5	150	2.8	58.24	"	"	5600	-	28	126	3.3
21.5	164	2.6	64.08	"	"	5900	-	25.5	138	3.0

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 0.37 kW**



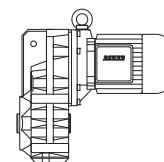
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
19.5	181	2.3	69.70	<b>BF20-../D07LA4</b>	"	6100	-	23.5	150	2.8
18	196	2.1	76.69	"	"	6300	-	21.5	164	2.6
15.5	225	1.85	87.31	"	"	6600	-	19	185	2.3
14.5	240	1.75	96.08	"	"	6900	-	17	205	2.0
13.5	260	1.6	100.2	"	"	7000	-	16.5	210	2.0
12.5	280	1.5	110.2	"	"	7300	-	15	235	1.8
11	320	1.3	123.5	"	"	7600	-	13.5	260	1.6
10	350	1.2	135.9	"	"	7900	-	12	290	1.45
9.6	365	1.15	141.2	<b>BF20Z-../D07LA4</b>	34	7900	-	11.5	305	1.4
8.7	405	1.05	155.4	"	"	7900	-	10.5	335	1.25
8.3	425	0.99	164.3	"	"	7900	-	9.9	355	1.2
7.5	470	0.89	180.8	"	"	7900	-	9.0	390	1.1
6.9	510	0.82	197.1	"	"	7900	-	8.3	425	0.99
20.5	172	3.3	67.28	<b>BF30-../D07LA4</b>	42	5500	-	24.5	144	4.0
19	185	3.1	72.13	"	"	5700	-	22.5	157	3.7
17.5	200	2.9	79.34	"	"	5900	-	20.5	172	3.3
16	220	2.6	87.08	"	"	6200	-	19	185	3.1
14.5	240	2.4	95.79	"	"	6400	-	17	205	2.8
13	270	2.1	107.6	"	"	6700	-	15.5	225	2.6
11.5	305	1.9	118.3	"	"	7000	-	14	250	2.3
11	320	1.8	124.7	"	"	7100	-	13	270	2.1
9.9	355	1.6	137.1	"	"	7400	-	12	290	2.0
9.0	390	1.45	150.7	<b>BF30Z-../D07LA4</b>	45	7400	-	11	320	1.8
8.2	430	1.35	165.8	"	"	7400	-	9.8	360	1.6
7.7	455	1.25	176.6	"	"	7400	-	9.2	380	1.5
7.0	500	1.15	194.3	"	"	7400	-	8.4	420	1.35
6.1	570	1.0	224.8	"	"	7400	-	7.3	480	1.2
5.5	640	0.9	247.3	"	"	7400	-	6.6	530	1.1
5.2	670	0.86	263.5	"	"	7400	-	6.2	560	1.05
9.6	365	2.5	141.4	<b>BF40Z-../D07LA4</b>	55	10600	-	11.5	305	3.0
8.7	405	2.2	155.6	"	"	10600	-	10.5	335	2.7
7.9	445	2.0	171.2	"	"	10600	-	9.5	370	2.4
7.2	490	1.85	188.3	"	"	10600	-	8.7	405	2.2
6.7	520	1.75	202.2	"	"	10600	-	8.1	435	2.1
6.1	570	1.6	222.4	"	"	10600	-	7.3	480	1.9
5.4	650	1.4	253.2	"	"	10600	-	6.4	550	1.65
4.9	720	1.25	278.5	"	"	10600	-	5.9	590	1.55
4.6	760	1.2	295.1	"	"	10600	-	5.5	640	1.4
4.2	840	1.05	324.7	"	"	10600	-	5.0	700	1.3
3.9	900	1.0	346.8	"	"	10600	-	4.7	750	1.2
3.6	980	0.92	381.5	"	"	10600	-	4.3	820	1.1
3.3	1070	0.84	417.3	"	"	10600	-	3.9	900	1.0
8.8	400	3.3	154.5	<b>BF50Z-../D07LA4</b>	85	13600	-	10.5	335	3.9
7.4	475	2.7	183.5	"	"	13600	-	8.9	395	3.3
6.6	530	2.5	205.2	"	"	13600	-	7.9	445	2.9
5.5	640	2.0	247.5	"	"	13600	-	6.6	530	2.5
4.9	720	1.8	276.8	"	"	13600	-	5.9	590	2.2
4.3	820	1.6	316.6	"	"	13600	-	5.2	670	1.95
3.9	900	1.45	354.0	"	"	13600	-	4.6	760	1.7
3.5	1000	1.3	392.8	"	"	13600	-	4.2	840	1.55
3.1	1130	1.15	439.3	"	"	13600	-	3.7	950	1.35
2.8	1260	1.05	496.4	"	"	13600	-	3.3	1070	1.2
2.5	1410	0.92	555.2	"	"	13600	-	3.0	1170	1.1
2.0	1570	0.89	680.9	<b>BF50G10-../D07LA4</b>	89	13600	-	2.4	1280	1.1
2.4	1230	2.0	569.3	<b>BF60G20-../D07LA4</b>	136	15300	43300	2.9	970	2.6
2.0	1470	1.7	689.0	"	"	15300	43300	2.4	1180	2.1
1.7	1770	1.4	813.2	"	"	15300	43300	2.0	1460	1.7
1.5	2050	1.2	937.6	"	"	15300	43300	1.8	1680	1.5
1.2	2600	0.96	1211	"	"	15300	43300	1.4	2200	1.15

7

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 0.37 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
1.6	1950	2.9	872.1	<b>BF70G20-../D07LA4</b>	215	16100	47700	1.9	1600	3.6
1.4	2200	2.6	1017	"	"	16100	47700	1.6	1900	3.0
1.0	3150	1.8	1390	"	"	16100	47700	1.2	2550	2.2
0.85	3700	1.55	1621	"	"	16100	47700	1.0	3100	1.85
0.75	4250	1.35	1912	"	"	16100	47700	0.85	3700	1.55
0.6	5400	1.05	2448	"	"	16100	47700	0.7	4550	1.25

**P = 0.55 kW**

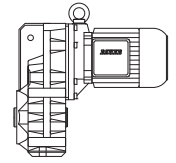
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
245	21	3.0	5.72	<b>BF06-../D08MA4</b>	16	1630	-	295	17.8	3.5
183	28.5	2.4	7.66	"	"	1800	-	220	23.5	2.9
153	34	2.1	9.21	"	"	1900	-	183	28.5	2.5
116	45	1.65	12.07	"	"	2000	-	140	37.5	2.0
99	53	1.6	14.21	"	"	2100	-	119	44	1.95
83	63	1.5	16.99	"	"	2500	-	99	53	1.8
69	76	1.25	20.42	"	"	2700	-	83	63	1.5
53	99	0.96	26.76	"	"	3000	-	63	83	1.15
44.5	118	0.81	31.50	"	"	3200	-	54	97	0.98
94	55	3.3	15.04	<b>BF10-../D08MA4</b>	27	2800	-	112	46.5	3.9
70	75	3.2	20.05	"	"	3000	-	84	62	3.9
61	86	2.8	23.28	"	"	3200	-	73	71	3.4
55	95	2.5	25.60	"	"	3350	-	66	79	3.0
49.5	106	2.3	28.47	"	"	3450	-	60	87	2.8
45	116	2.1	31.31	"	"	3600	-	54	97	2.5
39	134	1.8	36.15	"	"	3800	-	46.5	112	2.1
35.5	147	1.65	39.75	"	"	3950	-	42.5	123	1.95
33	159	1.5	43.06	"	"	4100	-	39.5	132	1.8
30	175	1.35	47.35	"	"	4250	-	35.5	147	1.65
27.5	191	1.25	51.28	"	"	4400	-	33	159	1.5
25	210	1.15	56.39	"	"	4550	-	30	175	1.35
23	225	1.05	61.55	"	"	4700	-	27.5	191	1.25
21	250	0.96	67.69	"	"	4900	-	25	210	1.15
18.5	280	0.86	77.55	"	"	5100	-	22	235	1.0
39.5	132	3.2	35.85	<b>BF20-../D08MA4</b>	33	4650	-	47	111	3.8
34	154	2.7	41.72	"	"	4950	-	40.5	129	3.3
31	169	2.5	45.90	"	"	5100	-	37	141	3.0
29	181	2.3	48.56	"	"	5200	-	35	150	2.8
26.5	198	2.1	53.43	"	"	5500	-	31.5	166	2.5
24.5	210	2.0	58.24	"	"	5600	-	29	181	2.3
22	235	1.8	64.08	"	"	5900	-	26.5	198	2.1
20.5	255	1.65	69.70	"	"	6100	-	24.5	210	2.0
18.5	280	1.5	76.69	"	"	6300	-	22	235	1.8
16.5	315	1.35	87.31	"	"	6600	-	19.5	265	1.6
15	350	1.2	96.08	"	"	6900	-	17.5	300	1.4
14	375	1.1	100.2	"	"	7000	-	17	305	1.4
13	400	1.05	110.2	"	"	7300	-	15.5	335	1.25
11.5	455	0.92	123.5	"	"	7600	-	14	375	1.1
10.5	500	0.84	135.9	"	"	7900	-	12.5	420	1.0
10	520	0.81	141.2	<b>BF20Z-../D08MA4</b>	35	7900	-	12	435	0.97
27	194	3.0	52.20	<b>BF30-../D08MA4</b>	43	5000	-	32.5	161	3.6
24.5	210	2.7	57.41	"	"	5200	-	29.5	178	3.2
23	225	2.6	61.17	"	"	5300	-	27.5	191	3.0
21	250	2.3	67.28	"	"	5500	-	25	210	2.7
19.5	265	2.2	72.13	"	"	5700	-	23.5	220	2.6

7

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 0.55 kW



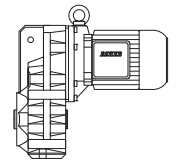
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
18	290	2.0	79.34	<b>BF30-../D08MA4</b>	"	5900	-	21.5	240	2.4
16.5	315	1.85	87.08	"	"	6200	-	19.5	265	2.2
15	350	1.65	95.79	"	"	6400	-	18	290	2.0
13.5	385	1.5	107.6	"	"	6700	-	16	325	1.75
12	435	1.3	118.3	"	"	7000	-	14.5	360	1.6
11.5	455	1.25	124.7	"	"	7100	-	13.5	385	1.5
10.5	500	1.15	137.1	"	"	7400	-	12.5	420	1.35
9.3	560	1.05	150.7	<b>BF30Z-../D08MA4</b>	46	7400	-	11.5	455	1.25
8.5	610	0.94	165.8	"	"	7400	-	10.5	500	1.15
8.0	650	0.88	176.6	"	"	7400	-	9.6	540	1.05
7.3	710	0.81	194.3	"	"	7400	-	8.7	600	0.96
18	290	3.1	78.55	<b>BF40-../D08MA4</b>	53	8500	-	21.5	240	3.8
17	305	3.0	83.91	"	"	8700	-	20.5	255	3.5
15.5	335	2.7	92.31	"	"	9100	-	18.5	280	3.2
14	375	2.4	101.0	"	"	9400	-	17	305	3.0
13	400	2.3	111.1	"	"	9800	-	15.5	335	2.7
11.5	455	2.0	124.5	"	"	10200	-	13.5	385	2.3
10.5	500	1.8	137.0	"	"	10600	-	12.5	420	2.1
10	520	1.75	141.4	<b>BF40Z-../D08MA4</b>	56	10600	-	12	435	2.1
9.0	580	1.55	155.6	"	"	10600	-	11	475	1.9
8.2	640	1.4	171.2	"	"	10600	-	9.9	530	1.7
7.5	700	1.3	188.3	"	"	10600	-	9.0	580	1.55
7.0	750	1.2	202.2	"	"	10600	-	8.4	620	1.45
6.3	830	1.1	222.4	"	"	10600	-	7.6	690	1.3
5.6	930	0.97	253.2	"	"	10600	-	6.7	780	1.15
5.1	1020	0.88	278.5	"	"	10600	-	6.1	860	1.05
4.8	1090	0.83	295.1	"	"	10600	-	5.7	920	0.98
12.5	420	3.1	114.0	<b>BF50-../D08MA4</b>	81	12900	-	15	350	3.7
11	475	2.7	127.5	"	"	13600	-	13.5	385	3.4
10.5	500	2.6	138.1	<b>BF50Z-../D08MA4</b>	86	13600	-	12.5	420	3.1
9.1	570	2.3	154.5	"	"	13600	-	11	475	2.7
7.7	680	1.9	183.5	"	"	13600	-	9.2	570	2.3
6.9	760	1.7	205.2	"	"	13600	-	8.2	640	2.0
5.7	920	1.4	247.5	"	"	13600	-	6.8	770	1.7
5.1	1020	1.25	276.8	"	"	13600	-	6.1	860	1.5
4.5	1160	1.1	316.6	"	"	13600	-	5.4	970	1.35
4.0	1310	0.99	354.0	"	"	13600	-	4.8	1090	1.2
3.6	1450	0.9	392.8	"	"	13600	-	4.3	1220	1.05
7.5	700	3.3	187.7	<b>BF60Z-../D08MA4</b>	130	15300	43300	9.0	580	4.0
6.4	820	2.8	221.4	"	"	15300	43300	7.6	690	3.3
5.8	900	2.6	245.6	"	"	15300	43300	6.9	760	3.0
4.8	1090	2.1	293.4	"	"	15300	43300	5.8	900	2.6
4.3	1220	1.9	325.6	"	"	15300	43300	5.2	1010	2.3
3.7	1410	1.65	380.0	"	"	15300	43300	4.5	1160	2.0
3.4	1540	1.5	421.6	"	"	15300	43300	4.0	1310	1.75
3.1	1690	1.35	459.9	"	"	15300	43300	3.7	1410	1.65
2.8	1870	1.25	510.3	"	"	15300	43300	3.3	1590	1.45
2.5	1860	1.35	569.3	<b>BF60G20-../D08MA4</b>	137	15300	43300	3.0	1510	1.65
2.1	2200	1.15	689.0	"	"	15300	43300	2.5	1810	1.4
1.8	2600	0.96	813.2	"	"	15300	43300	2.1	2150	1.15
3.2	1640	3.2	439.2	<b>BF70Z-../D08MA4</b>	218	16100	47700	3.9	1340	3.9
2.8	1870	2.8	512.4	"	"	16100	47700	3.3	1590	3.3
2.7	1720	3.3	524.1	<b>BF70G20-../D08MA4</b>	216	16100	47700	3.3	1370	4.2
2.5	1850	3.1	577.5	"	"	16100	47700	3.0	1500	3.8
2.1	2200	2.6	673.6	"	"	16100	47700	2.5	1810	3.1
1.7	2800	2.0	872.1	"	"	16100	47700	2.0	2350	2.4
1.4	3450	1.65	1017	"	"	16100	47700	1.7	2750	2.1
1.1	4400	1.3	1390	"	"	16100	47700	1.3	3650	1.55
0.9	5400	1.05	1621	"	"	16100	47700	1.1	4350	1.3

7

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 0.55 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
1.5	3500	3.0	990.4	<b>BF80Z-../D08MA4</b>	334	39600	75000	1.7	3050	3.4
1.3	4000	2.6	1124	"	"	39600	75000	1.5	3500	3.0
1.1	3300	3.2	1329	<b>BF80G40-../D08MA4</b>	340	39600	75000	1.3	2550	4.1
0.95	4100	2.6	1491	"	"	39600	75000	1.2	2950	3.6
0.85	4550	2.3	1693	"	"	39600	75000	1.0	3650	2.9
0.7	5900	1.8	2051	"	"	39600	75000	0.85	4550	2.3
0.6	7100	1.5	2422	"	"	39600	75000	0.7	5900	1.8
0.55	7500	1.4	2785	"	"	39600	75000	0.65	6000	1.75
0.46	9300	1.15	3092	"	"	39600	75000	0.55	7400	1.4
0.65	6000	3.1	2154	<b>BF90G50-../D08MA4</b>	610	42800	120000	0.8	4500	4.1
0.55	7100	2.6	2656	"	"	42800	120000	0.65	5700	3.2
0.48	8600	2.2	2952	"	"	42800	120000	0.6	6500	2.8
0.43	9700	1.9	3286	"	"	42800	120000	0.55	7000	2.6
0.39	10900	1.7	3644	"	"	42800	120000	0.47	8600	2.2
0.33	13400	1.4	4366	"	"	42800	120000	0.39	10900	1.7
0.29	15600	1.2	4839	"	"	42800	120000	0.35	12500	1.5

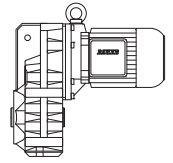
**P = 0.75 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
250	28.5	2.2	5.72	<b>BF06-../DHE08XA4</b>	18	1630	-	300	23.5	2.6
186	38.5	1.75	7.66	"	"	1800	-	225	31.5	2.2
155	46	1.5	9.21	"	"	1900	-	186	38.5	1.8
118	60	1.25	12.07	"	"	2000	-	142	50	1.5
100	71	1.2	14.21	"	"	2100	-	121	59	1.45
84	85	1.1	16.99	"	"	2500	-	101	70	1.35
70	102	0.93	20.42	"	"	2700	-	84	85	1.1
120	59	3.1	11.84	<b>BF10-../DHE08XA4</b>	30	2500	-	145	49	3.7
95	75	2.4	15.04	"	"	2800	-	114	62	3.0
78	91	2.6	18.23	"	"	2900	-	94	76	3.2
71	100	2.4	20.05	"	"	3000	-	86	83	2.9
61	117	2.1	23.28	"	"	3200	-	74	96	2.5
56	127	1.9	25.60	"	"	3350	-	67	106	2.3
50	143	1.7	28.47	"	"	3450	-	61	117	2.1
45.5	157	1.55	31.31	"	"	3600	-	55	130	1.85
39.5	181	1.35	36.15	"	"	3800	-	47.5	150	1.6
36	198	1.2	39.75	"	"	3950	-	43.5	164	1.45
33	215	1.1	43.06	"	"	4100	-	40	179	1.35
30	235	1.0	47.35	"	"	4250	-	36.5	196	1.2
28	255	0.94	51.28	"	"	4400	-	33.5	210	1.15
25.5	280	0.86	56.39	"	"	4550	-	30.5	230	1.05
23.5	300	0.8	61.55	"	"	4700	-	28	255	0.94
59	121	3.3	24.25	<b>BF20-../DHE08XA4</b>	36	3950	-	71	100	4.0
52	137	3.1	27.62	"	"	4150	-	62	115	3.7
47	152	2.8	30.40	"	"	4400	-	57	125	3.4
44	162	2.6	32.58	"	"	4450	-	53	135	3.1
40	179	2.3	35.85	"	"	4650	-	48	149	2.8
34.5	205	2.0	41.72	"	"	4950	-	41	174	2.4
31	230	1.85	45.90	"	"	5100	-	37.5	191	2.2
29.5	240	1.75	48.56	"	"	5200	-	35.5	200	2.1
27	265	1.6	53.43	"	"	5500	-	32.5	220	1.9
24.5	290	1.45	58.24	"	"	5600	-	29.5	240	1.75
22.5	315	1.35	64.08	"	"	5900	-	27	265	1.6
20.5	345	1.2	69.70	"	"	6100	-	25	285	1.45
19	375	1.1	76.69	"	"	6300	-	22.5	315	1.35
16.5	430	0.98	87.31	"	"	6600	-	20	355	1.2

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 0.75 kW**

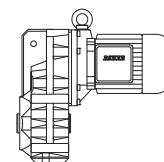


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
14.5	490	0.86	100.2	<b>BF20-../DHE08XA4</b>	"	7000	-	17.5	405	1.05
41	174	3.3	35.00	<b>BF30-../DHE08XA4</b>	46	4200	-	49	146	3.9
37	193	3.0	38.49	"	"	4400	-	44.5	160	3.6
35	200	2.9	41.01	"	"	4500	-	42	170	3.4
31.5	225	2.6	45.10	"	"	4700	-	38	188	3.1
27.5	260	2.2	52.20	"	"	5000	-	33	215	2.7
25	285	2.0	57.41	"	"	5200	-	30	235	2.4
23.5	300	1.9	61.17	"	"	5300	-	28	255	2.3
21.5	330	1.75	67.28	"	"	5500	-	25.5	280	2.1
20	355	1.6	72.13	"	"	5700	-	24	295	1.95
18	395	1.45	79.34	"	"	5900	-	22	325	1.75
16.5	430	1.35	87.08	"	"	6200	-	20	355	1.6
15	475	1.2	95.79	"	"	6400	-	18	395	1.45
13.5	530	1.1	107.6	"	"	6700	-	16	445	1.3
12.5	570	1.0	118.3	"	"	7000	-	14.5	490	1.15
11.5	620	0.93	124.7	"	"	7100	-	14	510	1.15
10.5	680	0.85	137.1	"	"	7400	-	12.5	570	1.0
26.5	270	3.3	53.82	<b>BF40-../DHE08XA4</b>	55	7200	-	32	220	4.1
23.5	300	3.0	61.25	"	"	7600	-	28	255	3.5
21.5	330	2.7	67.38	"	"	8000	-	25.5	280	3.2
20	355	2.5	71.40	"	"	8100	-	24	295	3.1
18.5	385	2.3	78.55	"	"	8500	-	22	325	2.8
17	420	2.1	83.91	"	"	8700	-	20.5	345	2.6
15.5	460	1.95	92.31	"	"	9100	-	19	375	2.4
14.5	490	1.85	101.0	"	"	9400	-	17	420	2.1
13	550	1.65	111.1	"	"	9800	-	15.5	460	1.95
11.5	620	1.45	124.5	"	"	10200	-	14	510	1.75
10.5	680	1.3	137.0	"	"	10600	-	12.5	570	1.6
9.2	770	1.15	155.6	<b>BF40Z-../DHE08XA4</b>	59	10600	-	11	650	1.4
8.3	860	1.05	171.2	"	"	10600	-	10	710	1.25
7.6	940	0.96	188.3	"	"	10600	-	9.1	780	1.15
7.1	1000	0.9	202.2	"	"	10600	-	8.5	840	1.05
6.4	1110	0.81	222.4	"	"	10600	-	7.7	930	0.97
17.5	405	3.2	81.33	<b>BF50-../DHE08XA4</b>	84	11300	-	21.5	330	3.9
16	445	2.9	90.24	"	"	11800	-	19	375	3.5
14.5	490	2.7	100.9	"	"	12300	-	17	420	3.1
12.5	570	2.3	114.0	"	"	12900	-	15	475	2.7
11.5	620	2.1	127.5	"	"	13600	-	13.5	530	2.5
10.5	680	1.9	138.1	<b>BF50Z-../DHE08XA4</b>	88	13600	-	12.5	570	2.3
9.2	770	1.7	154.5	"	"	13600	-	11.5	620	2.1
7.8	910	1.45	183.5	"	"	13600	-	9.4	760	1.7
7.0	1020	1.25	205.2	"	"	13600	-	8.4	850	1.55
5.8	1230	1.05	247.5	"	"	13600	-	7.0	1020	1.25
5.2	1370	0.95	276.8	"	"	13600	-	6.2	1150	1.15
4.5	1590	0.82	316.6	"	"	13600	-	5.5	1300	1.0
8.4	850	2.7	169.2	<b>BF60Z-../DHE08XA4</b>	132	15300	43300	10.5	680	3.4
7.6	940	2.4	187.7	"	"	15300	43300	9.2	770	3.0
6.5	1100	2.1	221.4	"	"	15300	43300	7.8	910	2.5
5.8	1230	1.85	245.6	"	"	15300	43300	7.0	1020	2.3
4.9	1460	1.6	293.4	"	"	15300	43300	5.9	1210	1.9
4.4	1620	1.4	325.6	"	"	15300	43300	5.3	1350	1.7
3.8	1880	1.2	380.0	"	"	15300	43300	4.5	1590	1.45
3.4	2100	1.1	421.6	"	"	15300	43300	4.1	1740	1.3
3.1	2300	1.0	459.9	"	"	15300	43300	3.8	1880	1.2
2.8	2550	0.9	510.3	"	"	15300	43300	3.4	2100	1.1
2.5	2600	0.96	569.3	<b>BF60G20-../DHE08XA4</b>	140	15300	43300	3.1	2050	1.2
2.1	3100	0.81	689.0	"	"	15300	43300	2.5	2550	0.98

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 0.75 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
4.2	1700	3.1	341.7	<b>BF70Z-../DHE08XA4</b>	220	16100	47700	5.1	1400	3.7
3.6	1980	2.6	398.7	"	"	16100	47700	4.3	1660	3.1
3.3	2150	2.4	439.2	"	"	16100	47700	3.9	1830	2.8
2.8	2550	2.0	512.4	"	"	16100	47700	3.4	2100	2.5
2.5	2600	2.2	577.5	<b>BF70G20-../DHE08XA4</b>	218	16100	47700	3.0	2100	2.7
2.2	2950	1.95	673.6	"	"	16100	47700	2.6	2450	2.3
1.7	3950	1.45	872.1	"	"	16100	47700	2.0	3300	1.75
1.4	4800	1.2	1017	"	"	16100	47700	1.7	3900	1.45
1.1	6100	0.93	1390	"	"	16100	47700	1.3	5100	1.1
2.2	3250	3.2	662.1	<b>BF80Z-../DHE08XA4</b>	337	39600	75000	2.6	2750	3.8
1.9	3750	2.8	770.6	"	"	39600	75000	2.3	3100	3.4
1.7	4200	2.5	874.6	"	"	39600	75000	2.0	3550	3.0
1.5	4750	2.2	990.4	"	"	39600	75000	1.8	3950	2.7
1.3	5500	1.9	1124	"	"	39600	75000	1.6	4450	2.4
1.1	5000	2.1	1329	<b>BF80G40-../DHE08XA4</b>	342	39600	75000	1.3	4050	2.6
1.0	5700	1.85	1491	"	"	39600	75000	1.2	4550	2.3
0.85	6800	1.55	1693	"	"	39600	75000	1.1	4900	2.1
0.7	8600	1.2	2051	"	"	39600	75000	0.85	6800	1.55
0.6	10300	1.0	2422	"	"	39600	75000	0.75	7900	1.35
1.0	5700	3.2	1444	<b>BF90G50-../DHE08XA4</b>	613	42800	120000	1.2	4550	4.1
0.85	6800	2.7	1678	"	"	42800	120000	1.1	4900	3.8
0.8	7100	2.6	1867	"	"	42800	120000	0.95	5700	3.2
0.7	8100	2.3	2154	"	"	42800	120000	0.8	6800	2.7
0.55	10600	1.75	2656	"	"	42800	120000	0.65	8600	2.2
0.49	12300	1.5	2952	"	"	42800	120000	0.6	9600	1.95
0.44	13700	1.35	3286	"	"	42800	120000	0.55	10500	1.75
0.39	15800	1.15	3644	"	"	42800	120000	0.47	12700	1.45

**P = 1.1 kW**

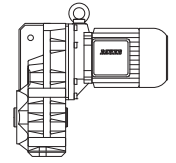
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
260	40	3.5	5.60	<b>BF10-../DHE09LA4</b>	36	1980	-	315	33	4.2
190	55	2.8	7.58	"	"	2200	-	230	45.5	3.4
149	70	2.5	9.69	"	"	2350	-	180	58	3.1
122	86	2.1	11.84	"	"	2500	-	147	71	2.6
96	109	1.7	15.04	"	"	2800	-	116	90	2.0
79	132	1.8	18.23	"	"	2900	-	96	109	2.2
72	145	1.65	20.05	"	"	3000	-	87	120	2.0
62	169	1.4	23.28	"	"	3200	-	75	140	1.7
57	184	1.3	25.60	"	"	3350	-	68	154	1.55
51	205	1.15	28.47	"	"	3450	-	62	169	1.4
46	225	1.05	31.31	"	"	3600	-	56	187	1.3
40	260	0.92	36.15	"	"	3800	-	48.5	215	1.1
36.5	285	0.84	39.75	"	"	3950	-	44	235	1.0
110	95	3.0	13.18	<b>BF20-../DHE09LA4</b>	42	3300	-	133	78	3.7
93	112	2.8	15.54	"	"	3450	-	112	93	3.3
86	122	3.0	16.77	"	"	3500	-	104	101	3.6
79	132	2.8	18.45	"	"	3600	-	95	110	3.4
66	159	2.5	22.04	"	"	3800	-	79	132	3.0
60	175	2.3	24.25	"	"	3950	-	72	145	2.8
53	198	2.1	27.62	"	"	4150	-	63	166	2.5
47.5	220	1.9	30.40	"	"	4400	-	58	181	2.3
44.5	235	1.8	32.58	"	"	4450	-	54	194	2.2
40.5	255	1.65	35.85	"	"	4650	-	49	210	2.0
35	300	1.4	41.72	"	"	4950	-	42	250	1.7
31.5	330	1.25	45.90	"	"	5100	-	38	275	1.55



# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 1.1 kW



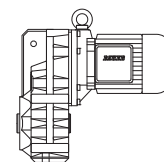
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
30	350	1.2	48.56	<b>BF20-../DHE09LA4</b>	"	5200	-	36	290	1.45
27	385	1.1	53.43	"	"	5500	-	33	315	1.35
25	420	1.0	58.24	"	"	5600	-	30	350	1.2
22.5	465	0.9	64.08	"	"	5900	-	27.5	380	1.1
21	500	0.84	69.70	"	"	6100	-	25	420	1.0
66	159	3.3	21.85	<b>BF30-../DHE09LA4</b>	53	3500	-	80	131	4.0
60	175	3.2	24.03	"	"	3600	-	73	143	3.9
52	200	2.9	28.23	"	"	3800	-	62	169	3.4
46.5	225	2.6	31.05	"	"	4000	-	57	184	3.1
41.5	250	2.3	35.00	"	"	4200	-	50	210	2.7
37.5	280	2.1	38.49	"	"	4400	-	45.5	230	2.5
35.5	295	1.95	41.01	"	"	4500	-	42.5	245	2.3
32	325	1.75	45.10	"	"	4700	-	39	265	2.2
28	375	1.55	52.20	"	"	5000	-	33.5	310	1.85
25.5	410	1.4	57.41	"	"	5200	-	30.5	340	1.7
24	435	1.3	61.17	"	"	5300	-	28.5	365	1.6
21.5	485	1.2	67.28	"	"	5500	-	26	400	1.45
20	520	1.1	72.13	"	"	5700	-	24.5	425	1.35
18.5	560	1.05	79.34	"	"	5900	-	22	475	1.2
17	610	0.94	87.08	"	"	6200	-	20	520	1.1
15.5	670	0.86	95.79	"	"	6400	-	18.5	560	1.05
38.5	270	3.3	37.64	<b>BF40-../DHE09LA4</b>	62	6200	-	46.5	225	4.0
35	300	3.0	41.42	"	"	6500	-	42.5	245	3.7
32	325	2.8	45.56	"	"	6800	-	38.5	270	3.3
29.5	355	2.5	48.92	"	"	7000	-	36	290	3.1
27	385	2.3	53.82	"	"	7200	-	32.5	320	2.8
24	435	2.1	61.25	"	"	7600	-	28.5	365	2.5
21.5	485	1.85	67.38	"	"	8000	-	26	400	2.3
20.5	510	1.75	71.40	"	"	8100	-	24.5	425	2.1
18.5	560	1.6	78.55	"	"	8500	-	22.5	465	1.95
17.5	600	1.5	83.91	"	"	8700	-	21	500	1.8
16	650	1.4	92.31	"	"	9100	-	19	550	1.65
14.5	720	1.25	101.0	"	"	9400	-	17.5	600	1.5
13	800	1.15	111.1	"	"	9800	-	16	650	1.4
12	870	1.05	124.5	"	"	10200	-	14	750	1.2
11	950	0.95	137.0	"	"	10600	-	13	800	1.15
10.5	1000	0.9	141.4	<b>BF40Z-../DHE09LA4</b>	66	10600	-	12.5	840	1.05
9.3	1120	0.8	155.6	"	"	10600	-	11.5	910	0.99
25.5	410	3.2	56.86	<b>BF50-../DHE09LA4</b>	90	9300	-	31	335	3.9
23	455	2.9	63.59	"	"	9800	-	27.5	380	3.4
20	520	2.5	72.72	"	"	10700	-	24	435	3.0
18	580	2.2	81.33	"	"	11300	-	21.5	485	2.7
16	650	2.0	90.24	"	"	11800	-	19.5	530	2.5
14.5	720	1.8	100.9	"	"	12300	-	17.5	600	2.2
13	800	1.65	114.0	"	"	12900	-	15.5	670	1.95
11.5	910	1.45	127.5	"	"	13600	-	14	750	1.75
10.5	1000	1.3	138.1	<b>BF50Z-../DHE09LA4</b>	95	13600	-	13	800	1.65
9.4	1110	1.15	154.5	"	"	13600	-	11.5	910	1.45
7.9	1320	0.98	183.5	"	"	13600	-	9.5	1100	1.2
7.1	1470	0.88	205.2	"	"	13600	-	8.5	1230	1.05
14	750	3.1	103.7	<b>BF60-../DHE09LA4</b>	120	14100	39900	17	610	3.8
13	800	2.9	113.1	"	"	14600	41300	15.5	670	3.4
11.5	910	2.5	125.5	"	"	15300	43300	14	750	3.1
10.5	1000	2.3	140.8	<b>BF60Z-../DHE09LA4</b>	139	15300	43300	12.5	840	2.7
8.6	1220	1.9	169.2	"	"	15300	43300	10.5	1000	2.3
7.7	1360	1.7	187.7	"	"	15300	43300	9.3	1120	2.1
6.6	1590	1.45	221.4	"	"	15300	43300	7.9	1320	1.75
5.9	1780	1.3	245.6	"	"	15300	43300	7.1	1470	1.55

7

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 1.1 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
5.0	2100	1.1	293.4	<b>BF60Z-../DHE09LA4</b>	"	15300	43300	6.0	1750	1.3
4.5	2300	1.0	325.6	"	"	15300	43300	5.4	1940	1.2
3.8	2750	0.84	380.0	"	"	15300	43300	4.6	2250	1.0
6.2	1690	3.1	233.0	<b>BF70Z-../DHE09LA4</b>	227	16100	47700	7.5	1400	3.7
5.6	1870	2.8	258.7	"	"	16100	47700	6.8	1540	3.4
4.8	2150	2.4	301.8	"	"	16100	47700	5.8	1810	2.9
4.3	2400	2.2	341.7	"	"	16100	47700	5.1	2050	2.5
3.7	2800	1.85	398.7	"	"	16100	47700	4.4	2350	2.2
3.3	3150	1.65	439.2	"	"	16100	47700	4.0	2600	2.0
2.9	3600	1.45	512.4	"	"	16100	47700	3.4	3050	1.7
2.8	3500	1.65	524.1	<b>BF70G20-../DHE09LA4</b>	225	16100	47700	3.4	2850	2.0
2.5	3950	1.45	577.5	"	"	16100	47700	3.1	3100	1.85
2.2	4450	1.3	673.6	"	"	16100	47700	2.6	3750	1.5
1.7	5900	0.97	872.1	"	"	16100	47700	2.0	4950	1.15
1.5	6700	0.85	1017	"	"	16100	47700	1.8	5500	1.05
3.2	3250	3.2	450.4	<b>BF80Z-../DHE09LA4</b>	344	39600	75000	3.9	2650	4.0
2.9	3600	2.9	511.2	"	"	39600	75000	3.5	3000	3.5
2.5	4200	2.5	583.4	"	"	39600	75000	3.0	3500	3.0
2.2	4750	2.2	662.1	"	"	39600	75000	2.7	3850	2.7
1.9	5500	1.9	770.6	"	"	39600	75000	2.3	4550	2.3
1.7	6100	1.7	874.6	"	"	39600	75000	2.0	5200	2.0
1.5	7000	1.5	990.4	"	"	39600	75000	1.8	5800	1.8
1.3	8000	1.3	1124	"	"	39600	75000	1.6	6500	1.6
1.1	8100	1.3	1329	<b>BF80G40-../DHE09LA4</b>	349	39600	75000	1.4	6000	1.75
1.0	9100	1.15	1491	"	"	39600	75000	1.2	7300	1.45
0.9	10000	1.05	1693	"	"	39600	75000	1.1	7900	1.35
1.8	5800	3.2	845.1	<b>BF90Z-../DHE09LA4</b>	608	42800	120000	2.1	5000	3.7
1.4	6100	3.0	1043	<b>BF90G50-../DHE09LA4</b>	620	42800	120000	1.7	4750	3.9
1.2	7100	2.6	1204	"	"	42800	120000	1.5	5300	3.5
1.0	9100	2.0	1444	"	"	42800	120000	1.3	6700	2.8
0.9	10000	1.85	1678	"	"	42800	120000	1.1	7900	2.3
0.8	11300	1.65	1867	"	"	42800	120000	0.95	9200	2.0
0.7	12900	1.45	2154	"	"	42800	120000	0.85	10300	1.8
0.55	16700	1.1	2656	"	"	42800	120000	0.7	12600	1.45

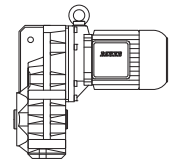
P = 1.5 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
260	55	2.5	5.60	<b>BF10-../DHE09XA4</b>	40	1980	-	315	45	3.1
190	75	2.0	7.58	"	"	2200	-	230	62	2.5
149	96	1.85	9.69	"	"	2350	-	180	79	2.2
122	117	1.55	11.84	"	"	2500	-	147	97	1.9
96	149	1.25	15.04	"	"	2800	-	116	123	1.5
79	181	1.35	18.23	"	"	2900	-	96	149	1.6
72	198	1.2	20.05	"	"	3000	-	87	164	1.45
62	230	1.05	23.28	"	"	3200	-	75	191	1.25
57	250	0.96	25.60	"	"	3350	-	68	210	1.15
51	280	0.86	28.47	"	"	3450	-	62	230	1.05
180	79	2.8	8.00	<b>BF20-../DHE09XA4</b>	46	2850	-	220	65	3.4
138	103	2.5	10.51	"	"	3100	-	166	86	3.0
110	130	2.2	13.18	"	"	3300	-	133	107	2.7
93	154	2.0	15.54	"	"	3450	-	112	127	2.4
86	166	2.2	16.77	"	"	3500	-	104	137	2.6
79	181	2.0	18.45	"	"	3600	-	95	150	2.5
66	215	1.85	22.04	"	"	3800	-	79	181	2.2

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 1.5 kW

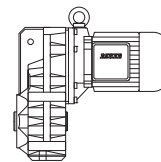


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
60	235	1.7	24.25	<b>BF20-../DHE09XA4</b>	"	3950	-	72	198	2.0
53	270	1.55	27.62	"	"	4150	-	63	225	1.85
47.5	300	1.4	30.40	"	"	4400	-	58	245	1.7
44.5	320	1.3	32.58	"	"	4450	-	54	265	1.6
40.5	350	1.2	35.85	"	"	4650	-	49	290	1.45
35	405	1.05	41.72	"	"	4950	-	42	340	1.25
31.5	450	0.93	45.90	"	"	5100	-	38	375	1.1
30	475	0.88	48.56	"	"	5200	-	36	395	1.05
145	98	3.3	9.99	<b>BF30-../DHE09XA4</b>	57	2850	-	175	81	4.0
112	127	2.9	12.91	"	"	3050	-	135	106	3.5
90	159	2.6	16.00	"	"	3250	-	109	131	3.1
82	174	2.8	17.65	"	"	3300	-	99	144	3.3
75	191	2.6	19.41	"	"	3400	-	90	159	3.2
66	215	2.5	21.85	"	"	3500	-	80	179	3.0
60	235	2.4	24.03	"	"	3600	-	73	196	2.8
52	275	2.1	28.23	"	"	3800	-	62	230	2.5
46.5	305	1.9	31.05	"	"	4000	-	57	250	2.3
41.5	345	1.65	35.00	"	"	4200	-	50	285	2.0
37.5	380	1.5	38.49	"	"	4400	-	45.5	310	1.85
35.5	400	1.45	41.01	"	"	4500	-	42.5	335	1.7
32	445	1.3	45.10	"	"	4700	-	39	365	1.6
28	510	1.15	52.20	"	"	5000	-	33.5	425	1.35
25.5	560	1.05	57.41	"	"	5200	-	30.5	465	1.25
24	590	0.97	61.17	"	"	5300	-	28.5	500	1.15
21.5	660	0.87	67.28	"	"	5500	-	26	550	1.05
20	710	0.81	72.13	"	"	5700	-	24.5	580	0.99
67	210	3.3	21.60	<b>BF40-../DHE09XA4</b>	66	5200	-	81	176	4.0
61	230	3.2	23.77	"	"	5400	-	74	193	3.8
54	265	2.9	26.86	"	"	5600	-	65	220	3.5
49	290	2.8	29.55	"	"	5800	-	59	240	3.4
42.5	335	2.6	34.21	"	"	6000	-	51	280	3.1
38.5	370	2.4	37.64	"	"	6200	-	46.5	305	2.9
35	405	2.2	41.42	"	"	6500	-	42.5	335	2.7
32	445	2.0	45.56	"	"	6800	-	38.5	370	2.4
29.5	485	1.85	48.92	"	"	7000	-	36	395	2.3
27	530	1.7	53.82	"	"	7200	-	32.5	440	2.0
24	590	1.55	61.25	"	"	7600	-	28.5	500	1.8
21.5	660	1.35	67.38	"	"	8000	-	26	550	1.65
20.5	690	1.3	71.40	"	"	8100	-	24.5	580	1.55
18.5	770	1.15	78.55	"	"	8500	-	22.5	630	1.45
17.5	810	1.1	83.91	"	"	8700	-	21	680	1.3
16	890	1.0	92.31	"	"	9100	-	19	750	1.2
14.5	980	0.92	101.0	"	"	9400	-	17.5	810	1.1
13	1100	0.82	111.1	"	"	9800	-	16	890	1.0
34.5	415	3.1	42.15	<b>BF50-../DHE09XA4</b>	94	8500	-	41.5	345	3.8
31	460	2.8	47.14	"	"	8900	-	37	385	3.4
25.5	560	2.3	56.86	"	"	9300	-	31	460	2.8
23	620	2.1	63.59	"	"	9800	-	27.5	520	2.5
20	710	1.85	72.72	"	"	10700	-	24	590	2.2
18	790	1.65	81.33	"	"	11300	-	21.5	660	1.95
16	890	1.45	90.24	"	"	11800	-	19.5	730	1.8
14.5	980	1.35	100.9	"	"	12300	-	17.5	810	1.6
13	1100	1.2	114.0	"	"	12900	-	15.5	920	1.4
11.5	1240	1.05	127.5	"	"	13600	-	14	1020	1.25
10.5	1360	0.96	138.1	<b>BF50Z-../DHE09XA4</b>	99	13600	-	13	1100	1.2
9.4	1520	0.86	154.5	"	"	13600	-	11.5	1240	1.05

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 1.5 kW

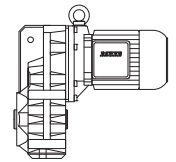


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
20	710	3.2	72.15	<b>BF60-../DHE09XA4</b>	124	12000	34000	24.5	580	4.0
18	790	2.9	80.05	"	"	12600	35600	22	650	3.5
15.5	920	2.5	93.44	"	"	13500	38200	19	750	3.1
14	1020	2.3	103.7	"	"	14100	39900	17	840	2.7
13	1100	2.1	113.1	"	"	14600	41300	15.5	920	2.5
11.5	1240	1.85	125.5	"	"	15300	43300	14	1020	2.3
10.5	1360	1.7	140.8	<b>BF60Z-../DHE09XA4</b>	143	15300	43300	12.5	1140	2.0
8.6	1660	1.4	169.2	"	"	15300	43300	10.5	1360	1.7
7.7	1860	1.25	187.7	"	"	15300	43300	9.3	1540	1.5
6.6	2150	1.05	221.4	"	"	15300	43300	7.9	1810	1.25
5.9	2400	0.96	245.6	"	"	15300	43300	7.1	2000	1.15
5.0	2850	0.81	293.4	"	"	15300	43300	6.0	2350	0.98
8.1	1760	3.0	179.7	<b>BF70Z-../DHE09XA4</b>	231	16100	47700	9.7	1470	3.5
7.3	1960	2.7	199.7	"	"	16100	47700	8.8	1620	3.2
6.2	2300	2.3	233.0	"	"	16100	47700	7.5	1910	2.7
5.6	2550	2.0	258.7	"	"	16100	47700	6.8	2100	2.5
4.8	2950	1.75	301.8	"	"	16100	47700	5.8	2450	2.1
4.3	3300	1.6	341.7	"	"	16100	47700	5.1	2800	1.85
3.7	3850	1.35	398.7	"	"	16100	47700	4.4	3250	1.6
3.3	4300	1.2	439.2	"	"	16100	47700	4.0	3550	1.45
2.9	4900	1.05	512.4	"	"	16100	47700	3.4	4200	1.25
2.8	4850	1.2	524.1	<b>BF70G20-../DHE09XA4</b>	229	16100	47700	3.4	3950	1.45
2.5	5400	1.05	577.5	"	"	16100	47700	3.1	4350	1.3
2.2	6200	0.92	673.6	"	"	16100	47700	2.6	5200	1.1
4.2	3400	3.1	347.3	<b>BF80Z-../DHE09XA4</b>	348	39600	75000	5.1	2800	3.8
3.7	3850	2.7	394.2	"	"	39600	75000	4.5	3150	3.3
3.2	4450	2.4	450.4	"	"	39600	75000	3.9	3650	2.9
2.9	4900	2.1	511.2	"	"	39600	75000	3.5	4050	2.6
2.5	5700	1.85	583.4	"	"	39600	75000	3.0	4750	2.2
2.2	6500	1.6	662.1	"	"	39600	75000	2.7	5300	2.0
1.9	7500	1.4	770.6	"	"	39600	75000	2.3	6200	1.7
1.7	8400	1.25	874.6	"	"	39600	75000	2.0	7100	1.5
1.5	9500	1.1	990.4	"	"	39600	75000	1.8	7900	1.35
1.3	11000	0.95	1124	"	"	39600	75000	1.6	8900	1.2
1.1	11500	0.91	1329	<b>BF80G40-../DHE09XA4</b>	353	39600	75000	1.4	8700	1.2
1.0	12900	0.81	1491	"	"	39600	75000	1.2	10500	1.0
2.5	5700	3.2	591.1	<b>BF90Z-../DHE09XA4</b>	612	42800	120000	3.0	4750	3.9
2.2	6500	2.8	658.1	"	"	42800	120000	2.7	5300	3.5
1.9	7500	2.5	759.0	"	"	42800	120000	2.3	6200	3.0
1.8	7900	2.3	845.1	"	"	42800	120000	2.1	6800	2.7
1.5	7900	2.3	976.1	<b>BF90G50-../DHE09XA4</b>	624	42800	120000	1.8	6300	2.9
1.4	8800	2.1	1043	"	"	42800	120000	1.7	7000	2.6
1.2	10300	1.8	1204	"	"	42800	120000	1.5	7900	2.3
1.0	12900	1.45	1444	"	"	42800	120000	1.3	9600	1.95
0.9	14300	1.3	1678	"	"	42800	120000	1.1	11400	1.6
0.8	16100	1.15	1867	"	"	42800	120000	0.95	13200	1.4
0.7	18400	1.0	2154	"	"	42800	120000	0.85	14700	1.25

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 2.2 kW

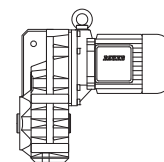


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
260	80	1.75	5.60	<b>BF10-../DHE09XA4C</b>	43	1980	-	315	66	2.1
190	110	1.4	7.58	"	"	2200	-	230	91	1.7
149	141	1.25	9.69	"	"	2350	-	180	116	1.55
122	172	1.05	11.84	"	"	2500	-	147	142	1.3
96	215	0.85	15.04	"	"	2800	-	116	181	1.0
79	265	0.91	18.23	"	"	2900	-	96	215	1.1
72	290	0.83	20.05	"	"	3000	-	87	240	1.0
240	87	2.3	6.04	<b>BF20-../DHE09XA4C</b>	49	2550	-	290	72	2.8
180	116	1.9	8.00	"	"	2850	-	220	95	2.3
138	152	1.7	10.51	"	"	3100	-	166	126	2.0
110	191	1.5	13.18	"	"	3300	-	133	157	1.8
93	225	1.35	15.54	"	"	3450	-	112	187	1.65
86	240	1.5	16.77	"	"	3500	-	104	200	1.8
79	265	1.4	18.45	"	"	3600	-	95	220	1.7
66	315	1.25	22.04	"	"	3800	-	79	265	1.5
60	350	1.15	24.25	"	"	3950	-	72	290	1.4
53	395	1.05	27.62	"	"	4150	-	63	330	1.25
47.5	440	0.95	30.40	"	"	4400	-	58	360	1.15
44.5	470	0.89	32.58	"	"	4450	-	54	385	1.1
40.5	510	0.82	35.85	"	"	4650	-	49	425	0.99
230	91	2.9	6.34	<b>BF30-../DHE09XA4C</b>	59	2400	-	275	76	3.5
179	117	2.4	8.07	"	"	2650	-	220	95	3.0
145	144	2.2	9.99	"	"	2850	-	175	120	2.7
112	187	1.95	12.91	"	"	3050	-	135	155	2.4
90	230	1.75	16.00	"	"	3250	-	109	192	2.1
82	255	1.9	17.65	"	"	3300	-	99	210	2.3
75	280	1.8	19.41	"	"	3400	-	90	230	2.2
66	315	1.7	21.85	"	"	3500	-	80	260	2.0
60	350	1.6	24.03	"	"	3600	-	73	285	1.95
52	400	1.45	28.23	"	"	3800	-	62	335	1.7
46.5	450	1.3	31.05	"	"	4000	-	57	365	1.6
41.5	500	1.15	35.00	"	"	4200	-	50	420	1.35
37.5	560	1.05	38.49	"	"	4400	-	45.5	460	1.25
35.5	590	0.97	41.01	"	"	4500	-	42.5	490	1.15
32	650	0.88	45.10	"	"	4700	-	39	530	1.1
189	111	3.3	7.62	<b>BF40-../DHE09XA4C</b>	69	3900	-	230	91	4.0
152	138	3.0	9.48	"	"	4150	-	184	114	3.6
123	170	2.7	11.79	"	"	4450	-	148	141	3.3
96	215	2.4	15.02	"	"	4800	-	116	181	2.9
83	250	2.5	17.35	"	"	4950	-	101	205	3.1
76	275	2.4	19.09	"	"	5100	-	92	225	3.0
67	310	2.3	21.60	"	"	5200	-	81	255	2.8
61	340	2.2	23.77	"	"	5400	-	74	280	2.6
54	385	2.0	26.86	"	"	5600	-	65	320	2.4
49	425	1.9	29.55	"	"	5800	-	59	355	2.3
42.5	490	1.75	34.21	"	"	6000	-	51	410	2.1
38.5	540	1.65	37.64	"	"	6200	-	46.5	450	2.0
35	600	1.5	41.42	"	"	6500	-	42.5	490	1.85
32	650	1.4	45.56	"	"	6800	-	38.5	540	1.65
29.5	710	1.25	48.92	"	"	7000	-	36	580	1.55
27	770	1.15	53.82	"	"	7200	-	32.5	640	1.4
24	870	1.05	61.25	"	"	7600	-	28.5	730	1.25
21.5	970	0.93	67.38	"	"	8000	-	26	800	1.15
20.5	1020	0.88	71.40	"	"	8100	-	24.5	850	1.05
18.5	1130	0.8	78.55	"	"	8500	-	22.5	930	0.97
56	375	3.1	25.88	<b>BF50-../DHE09XA4C</b>	97	7100	-	68	305	3.8
45.5	460	2.8	31.73	"	"	7500	-	55	380	3.3

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 2.2 kW

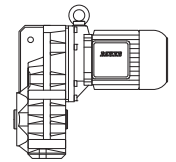


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
41	510	2.5	35.49	<b>BF50-../DHE09XA4C</b>	"	7800	-	49.5	420	3.1
34.5	600	2.2	42.15	"	"	8500	-	41.5	500	2.6
31	670	1.95	47.14	"	"	8900	-	37	560	2.3
25.5	820	1.6	56.86	"	"	9300	-	31	670	1.95
23	910	1.45	63.59	"	"	9800	-	27.5	760	1.7
20	1050	1.25	72.72	"	"	10700	-	24	870	1.5
18	1160	1.1	81.33	"	"	11300	-	21.5	970	1.35
16	1310	0.99	90.24	"	"	11800	-	19.5	1070	1.2
14.5	1440	0.9	100.9	"	"	12300	-	17.5	1200	1.1
13	1610	0.81	114.0	"	"	12900	-	15.5	1350	0.96
26.5	790	2.9	54.44	<b>BF60-../DHE09XA4C</b>	126	10500	29700	32	650	3.5
24	870	2.6	60.40	"	"	11100	31400	29	720	3.2
20	1050	2.2	72.15	"	"	12000	34000	24.5	850	2.7
18	1160	2.0	80.05	"	"	12600	35600	22	950	2.4
15.5	1350	1.7	93.44	"	"	13500	38200	19	1100	2.1
14	1500	1.55	103.7	"	"	14100	39900	17	1230	1.85
13	1610	1.45	113.1	"	"	14600	41300	15.5	1350	1.7
11.5	1820	1.25	125.5	"	"	15300	43300	14	1500	1.55
10.5	2000	1.15	140.8	<b>BF60Z-../DHE09XA4C</b>	146	15300	43300	12.5	1680	1.35
8.6	2400	0.96	169.2	"	"	15300	43300	10.5	2000	1.15
7.7	2700	0.85	187.7	"	"	15300	43300	9.3	2250	1.0
12	1750	3.0	122.7	<b>BF70-../DHE09XA4C</b>	213	16100	47700	14.5	1440	3.6
11	1910	2.7	133.0	<b>BF70Z-../DHE09XA4C</b>	234	16100	47700	13.5	1550	3.4
9.4	2200	2.4	154.0	"	"	16100	47700	11.5	1820	2.9
8.1	2550	2.0	179.7	"	"	16100	47700	9.7	2150	2.4
7.3	2850	1.8	199.7	"	"	16100	47700	8.8	2350	2.2
6.2	3350	1.55	233.0	"	"	16100	47700	7.5	2800	1.85
5.6	3750	1.4	258.7	"	"	16100	47700	6.8	3050	1.7
4.8	4350	1.2	301.8	"	"	16100	47700	5.8	3600	1.45
4.3	4850	1.05	341.7	"	"	16100	47700	5.1	4100	1.25
3.7	5600	0.93	398.7	"	"	16100	47700	4.4	4750	1.1
3.3	6300	0.83	439.2	"	"	16100	47700	4.0	5200	1.0
6.9	3000	3.2	209.4	<b>BF80-../DHE09XA4C</b>	309	34300	75000	8.4	2500	3.8
6.1	3400	2.8	237.1	"	"	36900	75000	7.4	2800	3.4
5.4	3850	2.5	269.1	"	"	39600	75000	6.5	3200	3.0
5.0	4200	2.5	291.7	<b>BF80Z-../DHE09XA4C</b>	350	39600	75000	6.0	3500	3.0
4.2	5000	2.1	347.3	"	"	39600	75000	5.1	4100	2.6
3.7	5600	1.9	394.2	"	"	39600	75000	4.5	4650	2.3
3.2	6500	1.6	450.4	"	"	39600	75000	3.9	5300	2.0
2.9	7200	1.45	511.2	"	"	39600	75000	3.5	6000	1.75
2.5	8400	1.25	583.4	"	"	39600	75000	3.0	7000	1.5
2.2	9500	1.1	662.1	"	"	39600	75000	2.7	7700	1.35
1.9	11000	0.95	770.6	"	"	39600	75000	2.3	9100	1.15
1.7	12300	0.85	874.6	"	"	39600	75000	2.0	10500	1.0
3.2	6500	2.8	456.7	<b>BF90Z-../DHE09XA4C</b>	614	42800	120000	3.9	5300	3.5
2.9	7200	2.6	508.5	"	"	42800	120000	3.5	6000	3.1
2.5	8400	2.2	591.1	"	"	42800	120000	3.0	7000	2.6
2.2	9500	1.95	658.1	"	"	42800	120000	2.7	7700	2.4
1.9	11000	1.7	759.0	"	"	42800	120000	2.3	9100	2.0
1.8	11600	1.6	845.1	"	"	42800	120000	2.1	10000	1.85
1.5	12400	1.5	976.1	<b>BF90G50-../DHE09XA4C</b>	626	42800	120000	1.8	10000	1.85
1.4	13600	1.35	1043	"	"	42800	120000	1.7	10900	1.7
1.2	15800	1.15	1204	"	"	42800	120000	1.5	12300	1.5
1.0	19600	0.94	1444	"	"	42800	120000	1.3	14700	1.25

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 3 kW

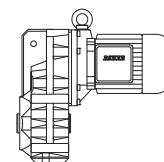


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
230	124	2.1	6.34	<b>BF30-../DHE11MA4</b>	66	2400	-	275	104	2.5
179	160	1.8	8.07	"	"	2650	-	220	130	2.2
145	197	1.6	9.99	"	"	2850	-	175	163	1.95
112	255	1.45	12.91	"	"	3050	-	135	210	1.75
90	315	1.3	16.00	"	"	3250	-	109	260	1.55
82	345	1.4	17.65	"	"	3300	-	99	285	1.7
75	380	1.3	19.41	"	"	3400	-	90	315	1.6
66	430	1.25	21.85	"	"	3500	-	80	355	1.5
60	475	1.15	24.03	"	"	3600	-	73	390	1.4
52	550	1.05	28.23	"	"	3800	-	62	460	1.25
46.5	610	0.94	31.05	"	"	4000	-	57	500	1.15
41.5	690	0.83	35.00	"	"	4200	-	50	570	1.0
250	114	2.9	5.87	<b>BF40-../DHE11MA4</b>	80	3550	-	300	95	3.5
189	151	2.4	7.62	"	"	3900	-	230	124	3.0
152	188	2.2	9.48	"	"	4150	-	184	155	2.7
123	230	2.0	11.79	"	"	4450	-	148	193	2.4
96	295	1.75	15.02	"	"	4800	-	116	245	2.1
83	345	1.85	17.35	"	"	4950	-	101	280	2.3
76	375	1.75	19.09	"	"	5100	-	92	310	2.1
67	425	1.65	21.60	"	"	5200	-	81	350	2.0
61	465	1.6	23.77	"	"	5400	-	74	385	1.9
54	530	1.45	26.86	"	"	5600	-	65	440	1.75
49	580	1.4	29.55	"	"	5800	-	59	485	1.65
42.5	670	1.3	34.21	"	"	6000	-	51	560	1.55
38.5	740	1.2	37.64	"	"	6200	-	46.5	610	1.45
35	810	1.1	41.42	"	"	6500	-	42.5	670	1.35
32	890	1.0	45.56	"	"	6800	-	38.5	740	1.2
29.5	970	0.93	48.92	"	"	7000	-	36	790	1.15
27	1060	0.85	53.82	"	"	7200	-	32.5	880	1.0
135	210	3.2	10.68	<b>BF50-../DHE11MA4</b>	110	5600	-	163	175	3.9
99	285	2.8	14.65	"	"	6100	-	119	240	3.3
87	325	2.9	16.70	"	"	6200	-	105	270	3.5
78	365	2.7	18.68	"	"	6400	-	94	300	3.3
63	450	2.5	23.14	"	"	6800	-	76	375	3.0
56	510	2.3	25.88	"	"	7100	-	68	420	2.8
45.5	620	2.0	31.73	"	"	7500	-	55	520	2.4
41	690	1.9	35.49	"	"	7800	-	49.5	570	2.3
34.5	830	1.55	42.15	"	"	8500	-	41.5	690	1.9
31	920	1.4	47.14	"	"	8900	-	37	770	1.7
25.5	1120	1.15	56.86	"	"	9300	-	31	920	1.4
23	1240	1.05	63.59	"	"	9800	-	27.5	1040	1.25
20	1430	0.91	72.72	"	"	10700	-	24	1190	1.1
18	1590	0.82	81.33	"	"	11300	-	21.5	1330	0.98
46.5	610	3.1	31.20	<b>BF60-../DHE11MA4</b>	141	8800	24900	56	510	3.7
42	680	2.9	34.62	"	"	9100	25700	51	560	3.5
35	810	2.6	41.60	"	"	9600	27100	42	680	3.1
31.5	900	2.5	46.16	"	"	9900	28000	38	750	3.0
26.5	1080	2.1	54.44	"	"	10500	29700	32	890	2.6
24	1190	1.95	60.40	"	"	11100	31400	29	980	2.3
20	1430	1.6	72.15	"	"	12000	34000	24.5	1160	2.0
18	1590	1.45	80.05	"	"	12600	35600	22	1300	1.75
15.5	1840	1.25	93.44	"	"	13500	38200	19	1500	1.55
14	2000	1.15	103.7	"	"	14100	39900	17	1680	1.35
13	2200	1.05	113.1	"	"	14600	41300	15.5	1840	1.25
11.5	2450	0.94	125.5	"	"	15300	43300	14	2000	1.15
10.5	2700	0.85	140.8	<b>BF60Z-../DHE11MA4</b>	157	15300	43300	12.5	2250	1.0
18	1590	3.3	81.82	<b>BF70-../DHE11MA4</b>	220	12800	41300	21.5	1330	3.9
15.5	1840	2.8	95.46	"	"	14000	43700	18.5	1540	3.4
14	2000	2.6	105.2	"	"	14700	45100	17	1680	3.1
12	2350	2.2	122.7	"	"	16100	47700	14.5	1970	2.6

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 3 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
11	2600	2.0	133.0	<b>BF70Z-../DHE11MA4</b>	247	16100	47700	13.5	2100	2.5
9.4	3000	1.75	154.0	"	"	16100	47700	11.5	2450	2.1
8.1	3500	1.5	179.7	"	"	16100	47700	9.7	2950	1.75
7.3	3900	1.35	199.7	"	"	16100	47700	8.8	3250	1.6
6.2	4600	1.15	233.0	"	"	16100	47700	7.5	3800	1.35
5.6	5100	1.0	258.7	"	"	16100	47700	6.8	4200	1.25
4.8	5900	0.88	301.8	"	"	16100	47700	5.8	4900	1.05
9.1	3100	3.1	158.5	<b>BF80-../DHE11MA4</b>	316	29000	75000	11	2600	3.7
7.9	3600	2.6	184.5	"	"	31800	75000	9.5	3000	3.2
6.9	4150	2.3	209.4	"	"	34300	75000	8.4	3400	2.8
6.1	4650	2.0	237.1	"	"	36900	75000	7.4	3850	2.5
5.4	5300	1.8	269.1	"	"	39600	75000	6.5	4400	2.2
5.0	5700	1.85	291.7	<b>BF80Z-../DHE11MA4</b>	363	39600	75000	6.0	4750	2.2
4.2	6800	1.55	347.3	"	"	39600	75000	5.1	5600	1.9
3.7	7700	1.35	394.2	"	"	39600	75000	4.5	6300	1.65
3.2	8900	1.2	450.4	"	"	39600	75000	3.9	7300	1.45
2.9	9800	1.05	511.2	"	"	39600	75000	3.5	8100	1.3
2.5	11400	0.92	583.4	"	"	39600	75000	3.0	9500	1.1
2.2	13000	0.81	662.1	"	"	39600	75000	2.7	10600	0.99
5.6	5100	3.3	259.0	<b>BF90-../DHE11MA4</b>	569	42800	120000	6.8	4200	4.0
4.8	5900	3.1	300.4	<b>BF90Z-../DHE11MA4</b>	629	42800	120000	5.8	4900	3.8
4.2	6800	2.7	343.6	"	"	42800	120000	5.1	5600	3.3
3.8	7500	2.5	382.6	"	"	42800	120000	4.6	6200	3.0
3.2	8900	2.1	456.7	"	"	42800	120000	3.9	7300	2.5
2.9	9800	1.9	508.5	"	"	42800	120000	3.5	8100	2.3
2.5	11400	1.6	591.1	"	"	42800	120000	3.0	9500	1.95
2.2	13000	1.4	658.1	"	"	42800	120000	2.7	10600	1.75
1.9	15000	1.25	759.0	"	"	42800	120000	2.3	12400	1.5
1.8	15900	1.15	845.1	"	"	42800	120000	2.1	13600	1.35
1.5	17500	1.05	976.1	<b>BF90G50-../DHE11MA4</b>	639	42800	120000	1.8	14300	1.3
1.4	19000	0.97	1043	"	"	42800	120000	1.7	15400	1.2
1.2	22200	0.83	1204	"	"	42800	120000	1.5	17400	1.05

P = 4 kW

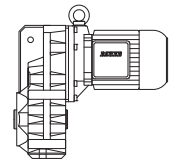
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
230	166	1.6	6.34	<b>BF30-../DHE11LA4</b>	78	2400	-	275	138	1.9
179	210	1.35	8.07	"	"	2650	-	220	173	1.65
145	260	1.25	9.99	"	"	2850	-	175	215	1.5
112	340	1.1	12.91	"	"	3050	-	135	280	1.3
90	420	0.97	16.00	"	"	3250	-	109	350	1.15
82	465	1.05	17.65	"	"	3300	-	99	385	1.25
75	500	1.0	19.41	"	"	3400	-	90	420	1.2
66	570	0.93	21.85	"	"	3500	-	80	475	1.1
60	630	0.88	24.03	"	"	3600	-	73	520	1.05
250	152	2.2	5.87	<b>BF40-../DHE11LA4</b>	92	3550	-	300	127	2.6
189	200	1.85	7.62	"	"	3900	-	230	166	2.2
152	250	1.65	9.48	"	"	4150	-	184	205	2.0
123	310	1.5	11.79	"	"	4450	-	148	255	1.8
96	395	1.3	15.02	"	"	4800	-	116	325	1.6
83	460	1.4	17.35	"	"	4950	-	101	375	1.7
76	500	1.35	19.09	"	"	5100	-	92	415	1.6
67	570	1.25	21.60	"	"	5200	-	81	470	1.5
61	620	1.2	23.77	"	"	5400	-	74	510	1.45
54	700	1.1	26.86	"	"	5600	-	65	580	1.35



# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 4 kW**

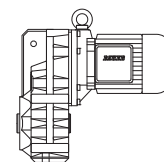


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
49	770	1.05	29.55	<b>BF40-../DHE11LA4</b>	"	5800	-	59	640	1.25
42.5	890	0.96	34.21	"	"	6000	-	51	740	1.15
38.5	990	0.9	37.64	"	"	6200	-	46.5	820	1.1
35	1090	0.83	41.42	"	"	6500	-	42.5	890	1.0
187	200	2.8	7.71	<b>BF50-../DHE11LA4</b>	122	5100	-	230	166	3.4
135	280	2.4	10.68	"	"	5600	-	163	230	2.9
99	385	2.1	14.65	"	"	6100	-	119	320	2.5
87	435	2.2	16.70	"	"	6200	-	105	360	2.6
78	485	2.1	18.68	"	"	6400	-	94	405	2.5
63	600	1.85	23.14	"	"	6800	-	76	500	2.2
56	680	1.7	25.88	"	"	7100	-	68	560	2.1
45.5	830	1.55	31.73	"	"	7500	-	55	690	1.85
41	930	1.4	35.49	"	"	7800	-	49.5	770	1.7
34.5	1100	1.2	42.15	"	"	8500	-	41.5	920	1.4
31	1230	1.05	47.14	"	"	8900	-	37	1030	1.25
25.5	1490	0.87	56.86	"	"	9300	-	31	1230	1.05
102	370	3.2	14.24	<b>BF60-../DHE11LA4</b>	153	7100	20000	123	310	3.8
85	445	3.3	16.96	"	"	7300	20600	103	370	3.9
77	495	3.1	18.81	"	"	7600	21500	93	410	3.7
64	590	2.8	22.58	"	"	8000	22600	78	485	3.4
58	650	2.7	25.05	"	"	8200	23200	70	540	3.2
46.5	820	2.3	31.20	"	"	8800	24900	56	680	2.8
42	900	2.2	34.62	"	"	9100	25700	51	740	2.7
35	1090	1.95	41.60	"	"	9600	27100	42	900	2.4
31.5	1210	1.85	46.16	"	"	9900	28000	38	1000	2.2
26.5	1440	1.6	54.44	"	"	10500	29700	32	1190	1.95
24	1590	1.45	60.40	"	"	11100	31400	29	1310	1.75
20	1910	1.2	72.15	"	"	12000	34000	24.5	1550	1.5
18	2100	1.1	80.05	"	"	12600	35600	22	1730	1.35
15.5	2450	0.94	93.44	"	"	13500	38200	19	2000	1.15
14	2700	0.85	103.7	"	"	14100	39900	17	2200	1.05
23.5	1620	3.2	61.94	<b>BF70-../DHE11LA4</b>	232	10800	37400	28.5	1340	3.9
20	1910	2.7	72.26	"	"	12000	39600	24.5	1550	3.4
18	2100	2.5	81.82	"	"	12800	41300	21.5	1770	2.9
15.5	2450	2.1	95.46	"	"	14000	43700	18.5	2050	2.5
14	2700	1.95	105.2	"	"	14700	45100	17	2200	2.4
12	3150	1.65	122.7	"	"	16100	47700	14.5	2600	2.0
11	3450	1.5	133.0	<b>BF70Z-../DHE11LA4</b>	258	16100	47700	13.5	2800	1.85
9.4	4050	1.3	154.0	"	"	16100	47700	11.5	3300	1.6
8.1	4700	1.1	179.7	"	"	16100	47700	9.7	3900	1.35
7.3	5200	1.0	199.7	"	"	16100	47700	8.8	4300	1.2
6.2	6100	0.85	233.0	"	"	16100	47700	7.5	5000	1.05
12	3150	3.0	122.4	<b>BF80-../DHE11LA4</b>	328	24500	75000	14.5	2600	3.7
10.5	3600	2.6	139.7	"	"	26700	75000	12.5	3050	3.1
9.1	4150	2.3	158.5	"	"	29000	75000	11	3450	2.8
7.9	4800	2.0	184.5	"	"	31800	75000	9.5	4000	2.4
6.9	5500	1.75	209.4	"	"	34300	75000	8.4	4500	2.1
6.1	6200	1.55	237.1	"	"	36900	75000	7.4	5100	1.85
5.4	7000	1.35	269.1	"	"	39600	75000	6.5	5800	1.65
5.0	7600	1.4	291.7	<b>BF80Z-../DHE11LA4</b>	375	39600	75000	6.0	6300	1.65
4.2	9000	1.15	347.3	"	"	39600	75000	5.1	7400	1.4
3.7	10300	1.0	394.2	"	"	39600	75000	4.5	8400	1.25
3.2	11900	0.88	450.4	"	"	39600	75000	3.9	9700	1.1
2.9	13100	0.8	511.2	"	"	39600	75000	3.5	10900	0.96
7.3	5200	3.2	198.8	<b>BF90-../DHE11LA4</b>	581	36000	111300	8.8	4300	3.9
6.2	6100	2.8	232.6	"	"	39900	118300	7.5	5000	3.4
5.6	6800	2.5	259.0	"	"	42800	120000	6.8	5600	3.0

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 4 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
5.4	7000	2.6	269.8	BF90Z-../DHE11LA4	641	42800	120000	6.5	5800	3.2
4.8	7900	2.3	300.4	"	"	42800	120000	5.8	6500	2.8
4.2	9000	2.1	343.6	"	"	42800	120000	5.1	7400	2.5
3.8	10000	1.85	382.6	"	"	42800	120000	4.6	8300	2.2
3.2	11900	1.55	456.7	"	"	42800	120000	3.9	9700	1.9
2.9	13100	1.4	508.5	"	"	42800	120000	3.5	10900	1.7
2.5	15200	1.2	591.1	"	"	42800	120000	3.0	12700	1.45
2.2	17300	1.05	658.1	"	"	42800	120000	2.7	14100	1.3
1.9	20100	0.92	759.0	"	"	42800	120000	2.3	16600	1.1
1.8	21200	0.87	845.1	"	"	42800	120000	2.1	18100	1.0

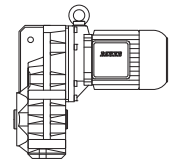
**P = 5.5 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
235	220	1.2	6.34	BF30-../DHE11LA4C	82	2400	-	280	187	1.4
181	290	0.99	8.07	"	"	2650	-	220	235	1.2
147	355	0.9	9.99	"	"	2850	-	177	295	1.1
114	460	0.8	12.91	"	"	3050	-	137	380	0.96
250	210	1.6	5.87	BF40-../DHE11LA4C	96	3550	-	300	175	1.9
192	270	1.35	7.62	"	"	3900	-	235	220	1.65
155	335	1.25	9.48	"	"	4150	-	186	280	1.5
124	420	1.1	11.79	"	"	4450	-	150	350	1.35
98	530	0.98	15.02	"	"	4800	-	118	445	1.15
85	610	1.05	17.35	"	"	4950	-	102	510	1.25
77	680	0.98	19.09	"	"	5100	-	93	560	1.2
68	770	0.91	21.60	"	"	5200	-	82	640	1.1
62	840	0.88	23.77	"	"	5400	-	75	700	1.05
55	950	0.82	26.86	"	"	5600	-	66	790	0.98
275	191	2.6	5.38	BF50-../DHE11LA4C	126	4500	-	330	159	3.1
190	275	2.1	7.71	"	"	5100	-	230	225	2.5
137	380	1.8	10.68	"	"	5600	-	165	315	2.1
100	520	1.5	14.65	"	"	6100	-	121	430	1.85
88	590	1.6	16.70	"	"	6200	-	106	495	1.9
79	660	1.5	18.68	"	"	6400	-	95	550	1.8
64	820	1.35	23.14	"	"	6800	-	77	680	1.65
57	920	1.25	25.88	"	"	7100	-	69	760	1.55
46.5	1120	1.15	31.73	"	"	7500	-	56	930	1.35
41.5	1260	1.05	35.49	"	"	7800	-	50	1050	1.25
35	1500	0.87	42.15	"	"	8500	-	42	1250	1.05
189	275	3.2	7.74	BF60-../DHE11LA4C	157	6000	16900	230	225	3.9
142	365	2.8	10.31	"	"	6500	18400	171	305	3.3
103	500	2.4	14.24	"	"	7100	20000	124	420	2.8
87	600	2.4	16.96	"	"	7300	20600	104	500	2.9
78	670	2.3	18.81	"	"	7600	21500	94	550	2.8
65	800	2.1	22.58	"	"	8000	22600	78	670	2.5
59	890	1.95	25.05	"	"	8200	23200	71	730	2.4
47	1110	1.7	31.20	"	"	8800	24900	57	920	2.1
42.5	1230	1.6	34.62	"	"	9100	25700	51	1020	1.95
35.5	1470	1.45	41.60	"	"	9600	27100	42.5	1230	1.75
32	1640	1.35	46.16	"	"	9900	28000	38.5	1360	1.65
27	1940	1.2	54.44	"	"	10500	29700	32.5	1610	1.45
24.5	2100	1.1	60.40	"	"	11100	31400	29.5	1780	1.3
20.5	2550	0.9	72.15	"	"	12000	34000	24.5	2100	1.1
18.5	2800	0.82	80.05	"	"	12600	35600	22	2350	0.98

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 5.5 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
31	1690	3.1	47.82	BF70-../DHE11LA4C	236	9100	34000	37	1410	3.7
26.5	1980	2.6	55.79	"	"	10200	36000	32	1640	3.2
24	2150	2.4	61.94	"	"	10800	37400	28.5	1840	2.8
20.5	2550	2.0	72.26	"	"	12000	39600	24.5	2100	2.5
18	2900	1.8	81.82	"	"	12800	41300	22	2350	2.2
15.5	3350	1.55	95.46	"	"	14000	43700	18.5	2800	1.85
14	3750	1.4	105.2	"	"	14700	45100	17	3050	1.7
12	4350	1.2	122.7	"	"	16100	47700	14.5	3600	1.45
11	4750	1.1	133.0	BF70Z-../DHE11LA4C	262	16100	47700	13.5	3850	1.35
9.5	5500	0.95	154.0	"	"	16100	47700	11.5	4550	1.15
8.2	6400	0.81	179.7	"	"	16100	47700	9.8	5300	0.98
18	2900	3.3	83.16	BF80-../DHE11LA4C	332	18400	65100	21.5	2400	4.0
15.5	3350	2.8	94.38	"	"	20300	68500	19	2750	3.5
14	3750	2.5	107.9	"	"	22400	72300	16.5	3150	3.0
12	4350	2.2	122.4	"	"	24500	75000	14.5	3600	2.6
10.5	5000	1.9	139.7	"	"	26700	75000	13	4000	2.4
9.3	5600	1.7	158.5	"	"	29000	75000	11.5	4550	2.1
8.0	6500	1.45	184.5	"	"	31800	75000	9.6	5400	1.75
7.0	7500	1.25	209.4	"	"	34300	75000	8.5	6100	1.55
6.2	8400	1.15	237.1	"	"	36900	75000	7.5	7000	1.35
5.5	9500	1.0	269.1	"	"	39600	75000	6.6	7900	1.2
5.1	10200	1.05	291.7	BF80Z-../DHE11LA4C	379	39600	75000	6.1	8600	1.2
4.3	12200	0.86	347.3	"	"	39600	75000	5.1	10200	1.05
9.5	5500	3.1	154.8	BF90-../DHE11LA4C	585	30100	100800	11.5	4550	3.7
8.2	6400	2.6	178.6	"	"	33400	106700	9.9	5300	3.2
7.4	7000	2.4	198.8	"	"	36000	111300	8.9	5900	2.8
6.3	8300	2.0	232.6	"	"	39900	118300	7.6	6900	2.4
5.7	9200	1.85	259.0	"	"	42800	120000	6.8	7700	2.2
5.5	9500	1.95	269.8	BF90Z-../DHE11LA4C	645	42800	120000	6.6	7900	2.3
4.9	10700	1.75	300.4	"	"	42800	120000	5.9	8900	2.1
4.3	12200	1.5	343.6	"	"	42800	120000	5.2	10100	1.85
3.9	13400	1.4	382.6	"	"	42800	120000	4.7	11100	1.65
3.2	16400	1.15	456.7	"	"	42800	120000	3.9	13400	1.4
2.9	18100	1.0	508.5	"	"	42800	120000	3.5	15000	1.25
2.5	21000	0.88	591.1	"	"	42800	120000	3.0	17500	1.05
2.3	22800	0.81	658.1	"	"	42800	120000	2.7	19400	0.95

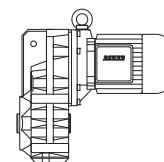
**P = 7.5 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
275	260	1.9	5.38	BF50-../DHE13LA4	136	4500	-	330	215	2.3
190	375	1.5	7.71	"	"	5100	-	230	310	1.8
137	520	1.3	10.68	"	"	5600	-	165	430	1.55
100	710	1.1	14.65	"	"	6100	-	121	590	1.35
88	810	1.15	16.70	"	"	6200	-	106	670	1.4
79	900	1.1	18.68	"	"	6400	-	95	750	1.35
64	1110	1.0	23.14	"	"	6800	-	77	930	1.2
57	1250	0.93	25.88	"	"	7100	-	69	1030	1.15
46.5	1540	0.82	31.73	"	"	7500	-	56	1270	1.0
280	255	3.0	5.22	BF60-../DHE13LA4	169	5200	14800	340	210	3.6
189	375	2.3	7.74	"	"	6000	16900	230	310	2.8
142	500	2.0	10.31	"	"	6500	18400	171	415	2.4
103	690	1.75	14.24	"	"	7100	20000	124	570	2.1
87	820	1.75	16.96	"	"	7300	20600	104	680	2.1
78	910	1.65	18.81	"	"	7600	21500	94	760	2.0
65	1100	1.5	22.58	"	"	8000	22600	78	910	1.8

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 7.5 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
59	1210	1.45	25.05	<b>BF60-../DHE13LA4</b>	"	8200	23200	71	1000	1.75
47	1520	1.25	31.20	"	"	8800	24900	57	1250	1.5
42.5	1680	1.2	34.62	"	"	9100	25700	51	1400	1.4
35.5	2000	1.05	41.60	"	"	9600	27100	42.5	1680	1.25
32	2200	1.0	46.16	"	"	9900	28000	38.5	1860	1.2
27	2650	0.87	54.44	"	"	10500	29700	32.5	2200	1.05
40	1790	2.9	36.88	<b>BF70-../DHE13LA4</b>	248	7900	31100	48	1490	3.5
34	2100	2.5	43.02	"	"	8700	32800	41	1740	3.0
31	2300	2.3	47.82	"	"	9100	34000	37	1930	2.7
26.5	2700	1.95	55.79	"	"	10200	36000	32	2200	2.4
24	2950	1.75	61.94	"	"	10800	37400	28.5	2500	2.1
20.5	3450	1.5	72.26	"	"	12000	39600	24.5	2900	1.8
18	3950	1.3	81.82	"	"	12800	41300	22	3250	1.6
15.5	4600	1.15	95.46	"	"	14000	43700	18.5	3850	1.35
14	5100	1.0	105.2	"	"	14700	45100	17	4200	1.25
12	5900	0.88	122.7	"	"	16100	47700	14.5	4900	1.05
11	6500	0.8	133.0	<b>BF70Z-../DHE13LA4</b>	273	16100	47700	13.5	5300	0.98
24	2950	3.2	61.55	<b>BF80-../DHE13LA4</b>	344	14800	58100	29	2450	3.8
21	3400	2.8	69.86	"	"	15900	60600	25.5	2800	3.4
18	3950	2.4	83.16	"	"	18400	65100	21.5	3300	2.9
15.5	4600	2.1	94.38	"	"	20300	68500	19	3750	2.5
14	5100	1.85	107.9	"	"	22400	72300	16.5	4300	2.2
12	5900	1.6	122.4	"	"	24500	75000	14.5	4900	1.95
10.5	6800	1.4	139.7	"	"	26700	75000	13	5500	1.75
9.3	7700	1.25	158.5	"	"	29000	75000	11.5	6200	1.55
8.0	8900	1.05	184.5	"	"	31800	75000	9.6	7400	1.3
7.0	10200	0.93	209.4	"	"	34300	75000	8.5	8400	1.15
6.2	11500	0.83	237.1	"	"	36900	75000	7.5	9500	1.0
14	5100	3.3	107.5	<b>BF90-../DHE13LA4</b>	596	22300	86900	16.5	4300	3.9
12.5	5700	2.9	119.7	"	"	24500	90800	15	4750	3.5
10.5	6800	2.5	139.1	"	"	27700	96300	13	5500	3.1
9.5	7500	2.2	154.8	"	"	30100	100800	11.5	6200	2.7
8.2	8700	1.95	178.6	"	"	33400	106700	9.9	7200	2.3
7.4	9600	1.75	198.8	"	"	36000	111300	8.9	8000	2.1
6.3	11300	1.5	232.6	"	"	39900	118300	7.6	9400	1.8
5.7	12500	1.35	259.0	"	"	42800	120000	6.8	10500	1.6
5.5	13000	1.4	269.8	<b>BF90Z-../DHE13LA4</b>	657	42800	120000	6.6	10800	1.7
4.9	14600	1.25	300.4	"	"	42800	120000	5.9	12100	1.55
4.3	16600	1.1	343.6	"	"	42800	120000	5.2	13700	1.35
3.9	18300	1.0	382.6	"	"	42800	120000	4.7	15200	1.2
3.2	22300	0.83	456.7	"	"	42800	120000	3.9	18300	1.0

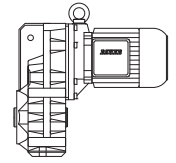
P = 9.5 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
275	325	1.55	5.38	<b>BF50-../DHE16MA4</b>	181	4500	-	330	270	1.85
191	475	1.2	7.71	"	"	5100	-	230	390	1.45
138	650	1.05	10.68	"	"	5600	-	166	540	1.25
101	890	0.89	14.65	"	"	6100	-	121	740	1.05
89	1010	0.94	16.70	"	"	6200	-	106	850	1.1
79	1140	0.88	18.68	"	"	6400	-	95	950	1.05
285	315	2.4	5.22	<b>BF60-../DHE16MA4</b>	214	5200	14800	340	265	2.8
190	475	1.85	7.74	"	"	6000	16900	230	390	2.2
143	630	1.6	10.31	"	"	6500	18400	172	520	1.95
104	870	1.35	14.24	"	"	7100	20000	125	720	1.65

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 9.5 kW**



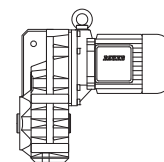
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
104	870	1.35	14.24	<b>BF60-../DHE16MA4</b>	"	7100	20000	125	720	1.65
87	1040	1.4	16.96	"	"	7300	20600	105	860	1.7
79	1140	1.35	18.81	"	"	7600	21500	95	950	1.6
66	1370	1.2	22.58	"	"	8000	22600	79	1140	1.45
59	1530	1.15	25.05	"	"	8200	23200	71	1270	1.35
47.5	1910	0.99	31.20	"	"	8800	24900	57	1590	1.2
42.5	2100	0.95	34.62	"	"	9100	25700	52	1740	1.15
35.5	2550	0.84	41.60	"	"	9600	27100	43	2100	1.0
32	2800	0.8	46.16	"	"	9900	28000	38.5	2350	0.95
60	1510	3.3	24.55	<b>BF70-../DHE16MA4</b>	297	7000	27700	73	1240	4.1
54	1680	3.1	27.29	"	"	7000	28400	65	1390	3.7
46.5	1950	2.7	31.84	"	"	7700	30000	56	1620	3.2
40	2250	2.3	36.88	"	"	7900	31100	48	1890	2.8
34.5	2600	2.0	43.02	"	"	8700	32800	41.5	2150	2.4
31	2900	1.8	47.82	"	"	9100	34000	37.5	2400	2.2
26.5	3400	1.55	55.79	"	"	10200	36000	32	2800	1.85
24	3750	1.4	61.94	"	"	10800	37400	29	3100	1.7
20.5	4400	1.2	72.26	"	"	12000	39600	24.5	3700	1.4
18	5000	1.05	81.82	"	"	12800	41300	22	4100	1.25
15.5	5800	0.9	95.46	"	"	14000	43700	19	4750	1.1
14	6400	0.81	105.2	"	"	14700	45100	17	5300	0.98
31	2900	3.0	47.46	<b>BF80-../DHE16MA4</b>	393	13400	53700	37.5	2400	3.6
27.5	3250	2.8	53.86	"	"	14000	55800	33	2700	3.3
24	3750	2.5	61.55	"	"	14800	58100	29	3100	3.0
21.5	4200	2.3	69.86	"	"	15900	60600	25.5	3550	2.7
18	5000	1.9	83.16	"	"	18400	65100	21.5	4200	2.3
16	5600	1.7	94.38	"	"	20300	68500	19	4750	2.0
14	6400	1.5	107.9	"	"	22400	72300	16.5	5400	1.75
12.5	7200	1.3	122.4	"	"	24500	75000	14.5	6200	1.55
11	8200	1.15	139.7	"	"	26700	75000	13	6900	1.4
9.3	9700	0.98	158.5	"	"	29000	75000	11.5	7800	1.2
8.0	11300	0.84	184.5	"	"	31800	75000	9.6	9400	1.0
16.5	5400	3.1	90.02	<b>BF90-../DHE16MA4</b>	640	18900	80600	20	4500	3.7
14	6400	2.6	107.5	"	"	22300	86900	16.5	5400	3.1
12.5	7200	2.3	119.7	"	"	24500	90800	15	6000	2.8
11	8200	2.0	139.1	"	"	27700	96300	13	6900	2.4
9.5	9500	1.75	154.8	"	"	30100	100800	11.5	7800	2.2
8.3	10900	1.55	178.6	"	"	33400	106700	10	9000	1.85
7.4	12200	1.4	198.8	"	"	36000	111300	9.0	10000	1.7
6.4	14100	1.2	232.6	"	"	39900	118300	7.7	11700	1.45
5.7	15900	1.05	259.0	"	"	42800	120000	6.9	13100	1.3
5.5	16400	1.15	269.8	<b>BF90Z-../DHE16MA4</b>	702	42800	120000	6.6	13700	1.35
4.9	18500	1.0	300.4	"	"	42800	120000	5.9	15300	1.2
4.3	21000	0.88	343.6	"	"	42800	120000	5.2	17400	1.05
3.9	23200	0.8	382.6	"	"	42800	120000	4.7	19300	0.96

7

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

P = 11 kW

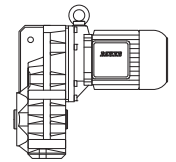


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
275	380	1.3	5.38	<b>BF50-../DHE16LA4</b>	194	4500	-	330	315	1.6
191	550	1.05	7.71	"	"	5100	-	230	455	1.25
138	760	0.89	10.68	"	"	5600	-	166	630	1.05
89	1180	0.81	16.70	"	"	6200	-	106	990	0.96
285	365	2.1	5.22	<b>BF60-../DHE16LA4</b>	227	5200	14800	340	305	2.5
190	550	1.6	7.74	"	"	6000	16900	230	455	1.9
143	730	1.4	10.31	"	"	6500	18400	172	610	1.65
104	1010	1.2	14.24	"	"	7100	20000	125	840	1.4
87	1200	1.2	16.96	"	"	7300	20600	105	1000	1.45
79	1320	1.15	18.81	"	"	7600	21500	95	1100	1.4
66	1590	1.05	22.58	"	"	8000	22600	79	1320	1.25
59	1780	0.97	25.05	"	"	8200	23200	71	1470	1.2
47.5	2200	0.86	31.20	"	"	8800	24900	57	1840	1.05
42.5	2450	0.81	34.62	"	"	9100	25700	52	2000	0.99
70	1500	3.1	21.04	<b>BF70-../DHE16LA4</b>	310	6400	26300	85	1230	3.7
60	1750	2.9	24.55	"	"	7000	27700	73	1430	3.5
54	1940	2.7	27.29	"	"	7000	28400	65	1610	3.2
46.5	2250	2.3	31.84	"	"	7700	30000	56	1870	2.8
40	2600	2.0	36.88	"	"	7900	31100	48	2150	2.4
34.5	3000	1.75	43.02	"	"	8700	32800	41.5	2500	2.1
31	3350	1.55	47.82	"	"	9100	34000	37.5	2800	1.85
26.5	3950	1.3	55.79	"	"	10200	36000	32	3250	1.6
24	4350	1.2	61.94	"	"	10800	37400	29	3600	1.45
20.5	5100	1.0	72.26	"	"	12000	39600	24.5	4250	1.2
18	5800	0.9	81.82	"	"	12800	41300	22	4750	1.1
44	2350	3.3	33.61	<b>BF80-../DHE16LA4</b>	406	11700	48400	53	1980	3.9
39	2650	3.0	38.14	"	"	12200	50300	46.5	2250	3.6
31	3350	2.6	47.46	"	"	13400	53700	37.5	2800	3.1
27.5	3800	2.4	53.86	"	"	14000	55800	33	3150	2.8
24	4350	2.1	61.55	"	"	14800	58100	29	3600	2.6
21.5	4850	1.95	69.86	"	"	15900	60600	25.5	4100	2.3
18	5800	1.65	83.16	"	"	18400	65100	21.5	4850	1.95
16	6500	1.45	94.38	"	"	20300	68500	19	5500	1.75
14	7500	1.25	107.9	"	"	22400	72300	16.5	6300	1.5
12.5	8400	1.15	122.4	"	"	24500	75000	14.5	7200	1.3
11	9500	1.0	139.7	"	"	26700	75000	13	8000	1.2
9.3	11200	0.85	158.5	"	"	29000	75000	11.5	9100	1.05
21	5000	3.2	70.69	<b>BF90-../DHE16LA4</b>	654	16800	74700	25.5	4100	3.9
18.5	5600	3.0	80.85	"	"	17500	77500	22	4750	3.5
16.5	6300	2.7	90.02	"	"	18900	80600	20	5200	3.2
14	7500	2.2	107.5	"	"	22300	86900	16.5	6300	2.7
12.5	8400	2.0	119.7	"	"	24500	90800	15	7000	2.4
11	9500	1.75	139.1	"	"	27700	96300	13	8000	2.1
9.5	11000	1.55	154.8	"	"	30100	100800	11.5	9100	1.85
8.3	12600	1.35	178.6	"	"	33400	106700	10	10500	1.6
7.4	14100	1.2	198.8	"	"	36000	111300	9.0	11600	1.45
6.4	16400	1.0	232.6	"	"	39900	118300	7.7	13600	1.25
5.7	18400	0.91	259.0	"	"	42800	120000	6.9	15200	1.1
5.5	19100	0.97	269.8	<b>BF90Z-../DHE16LA4</b>	715	42800	120000	6.6	15900	1.15
4.9	21400	0.86	300.4	"	"	42800	120000	5.9	17800	1.05

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 15 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
275	520	0.96	5.38	<b>BF50-../DHE16XA4</b>	204	4500	-	330	430	1.15
285	500	1.5	5.22	<b>BF60-../DHE16XA4</b>	237	5200	14800	340	420	1.8
190	750	1.15	7.74	"	"	6000	16900	230	620	1.4
143	1000	1.0	10.31	"	"	6500	18400	172	830	1.2
104	1370	0.87	14.24	"	"	7100	20000	125	1140	1.05
87	1640	0.88	16.96	"	"	7300	20600	105	1360	1.05
79	1810	0.84	18.81	"	"	7600	21500	95	1500	1.0
99	1440	2.5	14.90	<b>BF70-../DHE16XA4</b>	320	5900	24000	119	1200	3.0
85	1680	2.5	17.39	"	"	6200	25000	102	1400	3.0
70	2000	2.3	21.04	"	"	6400	26300	85	1680	2.7
60	2350	2.1	24.55	"	"	7000	27700	73	1960	2.6
54	2650	1.95	27.29	"	"	7000	28400	65	2200	2.4
46.5	3050	1.7	31.84	"	"	7700	30000	56	2550	2.0
40	3550	1.45	36.88	"	"	7900	31100	48	2950	1.75
34.5	4150	1.25	43.02	"	"	8700	32800	41.5	3450	1.5
31	4600	1.15	47.82	"	"	9100	34000	37.5	3800	1.35
26.5	5400	0.96	55.79	"	"	10200	36000	32	4450	1.15
24	5900	0.88	61.94	"	"	10800	37400	29	4900	1.05
90	1590	3.3	16.49	<b>BF80-../DHE16XA4</b>	416	11400	41400	108	1320	4.0
64	2200	2.9	23.29	"	"	11800	44900	76	1880	3.4
49	2900	2.5	30.21	"	"	12300	47900	59	2400	3.0
44	3250	2.4	33.61	"	"	11700	48400	53	2700	2.9
39	3650	2.2	38.14	"	"	12200	50300	46.5	3050	2.6
31	4600	1.85	47.46	"	"	13400	53700	37.5	3800	2.3
27.5	5200	1.7	53.86	"	"	14000	55800	33	4300	2.1
24	5900	1.6	61.55	"	"	14800	58100	29	4900	1.9
21.5	6600	1.45	69.86	"	"	15900	60600	25.5	5600	1.7
18	7900	1.2	83.16	"	"	18400	65100	21.5	6600	1.45
16	8900	1.05	94.38	"	"	20300	68500	19	7500	1.25
14	10200	0.93	107.9	"	"	22400	72300	16.5	8600	1.1
12.5	11400	0.83	122.4	"	"	24500	75000	14.5	9800	0.97
32	4450	3.2	46.43	<b>BF90-../DHE16XA4</b>	664	13800	65500	38.5	3700	3.8
28.5	5000	2.9	51.70	"	"	14600	67800	34.5	4150	3.5
23.5	6000	2.6	63.49	"	"	15800	72000	28	5100	3.0
21	6800	2.3	70.69	"	"	16800	74700	25.5	5600	2.8
18.5	7700	2.1	80.85	"	"	17500	77500	22	6500	2.5
16.5	8600	1.95	90.02	"	"	18900	80600	20	7100	2.4
14	10200	1.65	107.5	"	"	22300	86900	16.5	8600	1.95
12.5	11400	1.45	119.7	"	"	24500	90800	15	9500	1.75
11	13000	1.3	139.1	"	"	27700	96300	13	11000	1.55
9.5	15000	1.1	154.8	"	"	30100	100800	11.5	12400	1.35
8.3	17200	0.98	178.6	"	"	33400	106700	10	14300	1.15
7.4	19300	0.87	198.8	"	"	36000	111300	9.0	15900	1.05

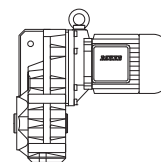
**P = 18.5 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
285	610	1.25	5.22	<b>BF60-../DHE18LA4</b>	300	5200	14800	340	510	1.5
190	920	0.94	7.74	"	"	6000	16900	230	760	1.15
143	1230	0.82	10.31	"	"	6500	18400	172	1020	0.99
143	1230	2.0	10.32	<b>BF70-../DHE18LA4</b>	377	4600	18700	172	1020	2.5
123	1430	2.1	12.04	"	"	4900	19700	148	1190	2.5

# Flach-Getriebemotoren Reihe BF

## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 18.5 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
99	1780	2.1	14.90	<b>BF70-../DHE18LA4</b>	"	5900	24000	119	1480	2.5
85	2050	2.1	17.39	"	"	6200	25000	102	1730	2.5
70	2500	1.85	21.04	"	"	6400	26300	85	2050	2.2
60	2900	1.75	24.55	"	"	7000	27700	73	2400	2.1
54	3250	1.6	27.29	"	"	7000	28400	65	2700	1.95
46.5	3750	1.4	31.84	"	"	7700	30000	56	3150	1.65
40	4400	1.2	36.88	"	"	7900	31100	48	3650	1.4
34.5	5100	1.0	43.02	"	"	8700	32800	41.5	4250	1.2
31	5600	0.93	47.82	"	"	9100	34000	37.5	4700	1.1
129	1360	2.7	11.42	<b>BF80-../DHE18LA4</b>	473	8900	32200	155	1130	3.2
90	1960	2.7	16.49	"	"	11400	41400	108	1630	3.3
64	2750	2.3	23.29	"	"	11800	44900	76	2300	2.7
49	3600	2.0	30.21	"	"	12300	47900	59	2950	2.4
44	4000	1.95	33.61	"	"	11700	48400	53	3300	2.4
39	4500	1.8	38.14	"	"	12200	50300	46.5	3750	2.2
31	5600	1.55	47.46	"	"	13400	53700	37.5	4700	1.85
27.5	6400	1.4	53.86	"	"	14000	55800	33	5300	1.7
24	7300	1.25	61.55	"	"	14800	58100	29	6000	1.55
21.5	8200	1.15	69.86	"	"	15900	60600	25.5	6900	1.4
18	9800	0.97	83.16	"	"	18400	65100	21.5	8200	1.15
16	11000	0.86	94.38	"	"	20300	68500	19	9200	1.05
44	4000	3.2	33.71	<b>BF90-../DHE18LA4</b>	725	11900	59300	53	3300	3.9
39.5	4450	3.0	37.54	"	"	12700	61500	47.5	3700	3.6
32	5500	2.6	46.43	"	"	13800	65500	38.5	4550	3.1
28.5	6100	2.4	51.70	"	"	14600	67800	34.5	5100	2.8
23.5	7500	2.1	63.49	"	"	15800	72000	28	6300	2.4
21	8400	1.9	70.69	"	"	16800	74700	25.5	6900	2.3
18.5	9500	1.75	80.85	"	"	17500	77500	22	8000	2.1
16.5	10700	1.55	90.02	"	"	18900	80600	20	8800	1.9
14	12600	1.35	107.5	"	"	22300	86900	16.5	10700	1.55
12.5	14100	1.2	119.7	"	"	24500	90800	15	11700	1.45
11	16000	1.05	139.1	"	"	27700	96300	13	13500	1.25
9.5	18500	0.91	154.8	"	"	30100	100800	11.5	15300	1.1

**P = 22 kW**

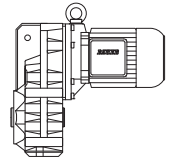
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
143	1460	1.7	10.32	<b>BF70-../DHE18XA4</b>	395	4600	18700	172	1220	2.1
123	1700	1.75	12.04	"	"	4900	19700	148	1410	2.1
99	2100	1.75	14.90	"	"	5900	24000	119	1760	2.1
85	2450	1.75	17.39	"	"	6200	25000	102	2050	2.1
70	3000	1.55	21.04	"	"	6400	26300	85	2450	1.9
60	3500	1.45	24.55	"	"	7000	27700	73	2850	1.75
54	3850	1.35	27.29	"	"	7000	28400	65	3200	1.65
46.5	4500	1.15	31.84	"	"	7700	30000	56	3750	1.4
40	5200	1.0	36.88	"	"	7900	31100	48	4350	1.2
34.5	6000	0.87	43.02	"	"	8700	32800	41.5	5000	1.05
129	1620	2.3	11.42	<b>BF80-../DHE18XA4</b>	491	8900	32200	155	1350	2.7
90	2300	2.3	16.49	"	"	11400	41400	108	1940	2.7
64	3250	1.95	23.29	"	"	11800	44900	76	2750	2.3
49	4250	1.65	30.21	"	"	12300	47900	59	3550	2.0
44	4750	1.65	33.61	"	"	11700	48400	53	3950	1.95
39	5300	1.5	38.14	"	"	12200	50300	46.5	4500	1.8
31	6700	1.3	47.46	"	"	13400	53700	37.5	5600	1.55



# Flach-Getriebemotoren Reihe BF

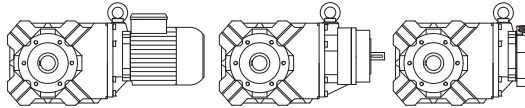
## Auswahl - Flachgetriebemotoren DHE - IE2

**P = 22 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
27.5	7600	1.2	53.86	<b>BF80-../DHE18XA4</b>	"	14000	55800	33	6300	1.4
24	8700	1.05	61.55	"	"	14800	58100	29	7200	1.3
21.5	9700	0.98	69.86	"	"	15900	60600	25.5	8200	1.15
18	11600	0.82	83.16	"	"	18400	65100	21.5	9700	0.98
44	4750	2.7	33.71	<b>BF90-../DHE18XA4</b>	743	11900	59300	53	3950	3.3
39.5	5300	2.5	37.54	"	"	12700	61500	47.5	4400	3.0
32	6500	2.2	46.43	"	"	13800	65500	38.5	5400	2.6
28.5	7300	2.0	51.70	"	"	14600	67800	34.5	6000	2.4
23.5	8900	1.75	63.49	"	"	15800	72000	28	7500	2.1
21	10000	1.6	70.69	"	"	16800	74700	25.5	8200	1.95
18.5	11300	1.45	80.85	"	"	17500	77500	22	9500	1.75
16.5	12700	1.3	90.02	"	"	18900	80600	20	10500	1.6
14	15000	1.1	107.5	"	"	22300	86900	16.5	12700	1.3
12.5	16800	1.0	119.7	"	"	24500	90800	15	14000	1.2
11	19100	0.88	139.1	"	"	27700	96300	13	16100	1.05





Seite

239-298

## Kegelrad Getriebemotoren Reihe BK Auswahl

### Beschreibung der Kegelradgetriebe

- Baugrößen
- Bauer-Betriebsfaktoren ( $f_b$ ) für Kegelrad-Getriebemotoren
- Durchlaufbetrieb ohne Schaltheufigkeit  $Z \leq 1/h$
- Schaltbetrieb
- Bauer-Betriebsfaktor
- Erklärung der Stoßgrade
- Erklärung der Kurzzeichen
- Auswahltabellen der Kegelrad-Getriebemotoren

### Auswahl - Kegelradgetriebemotoren IE1

### Auswahl - Kegelradgetriebemotoren IE2

# Kegelrad-Getriebemotoren Reihe BK

## Beschreibung der Kegelradgetriebe

### Baugrößen

Bauer-Kegelrad-Getriebemotoren der Reihe BK werden listenmäßig in 10 Baugrößen und mit Drehmomenten von 80 Nm bis 18.500 Nm geliefert. Höhere Drehmomente auf Anfrage. Die Getriebe haben ein kräftiges Guss-Gehäuse.

### Bauer-Betriebsfaktoren ( $f_B$ ) für Kegelrad-Getriebemotoren

Für die Gesamtbeanspruchung eines Getriebes sind zahlreiche Einflussgrößen maßgebend; zu den wichtigsten gehören:

- mittleres Drehmoment (Bemessungsdrehmoment)
- tägliche Betriebszeit
- Stärke von Drehmomentstößen (Stoßgrad)
- Häufigkeit von Drehmomentstößen (Schaltbetrieb)

Diese Einflüsse können vereinfachend und praxisnah durch **Betriebsfaktoren** beschrieben werden. In den nachfolgenden Tabellen und Erläuterungen wird versucht, statt einer Klassifizierung von Arbeitsmaschinen eine objektive Beschreibung des **Stoßgrades** zu geben. Erfahrungsgemäß spielen dabei neben den von der Arbeitsmaschine verursachten Drehmomentstößen ( $M_x/M_N$ ) vor allem die Übertragungsmittel (Kupplungen, Ketten usw.) sowie die Massenverhältnisse eine entscheidende Rolle.

Weitere Informationen siehe Bauer-Sonderdruck SD32...

Durchlaufbetrieb ohne Schalthäufigkeit  $Z \leq 1/h$

#### Faktor $f_1$ für Stoßgrad und Betriebszeit

Stoßgrad	Betriebszeit pro Tag $t_d$	>4 h	>8 h	>16 h
		$\leq 8$ h	$\leq 16$ h	$\leq 24$ h
I		0,8	1,0	1,2
II		1,05	1,25	1,45
III		1,45	1,55	1,7

Schaltbetrieb

#### Faktor $f_2$ für Stoßgrad und Schalthäufigkeit

Schalthäufigkeit im Einschicht-Betrieb  $t_d \leq 8$  h/d

Stoßgrad	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	0,95	1,1	1,15
II	1,2	1,35	1,4
III	1,55	1,6	1,6

Schalthäufigkeit im Mehrschicht-Betrieb  $t_d > 8$  h/d

Stoßgrad	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	1,3	1,45	1,5
II	1,5	1,6	1,65
III	1,75	1,8	1,8

Bauer-Betriebsfaktor

Bauer-Betriebsfaktor  $f_B = f_1$  oder  $f_B = f_2$

Beispiel: Stoßgrad II bei  $Z = 100$  Schaltungen pro Stunde und Mehrschichtbetrieb ergibt den Betriebsfaktor  $f_B = f_2 = 1,5$

Erklärung der Stoßgrade

#### Stoßgrad I:

Gleichförmig ohne Stöße. Alle folgenden Bedingungen müssen erfüllt werden:

- $Fl \leq 1,3$

- $M_x/M_N \leq 1,0$
- Übertragungsmittel stoßdämpfend (z.B. hochelastische, spielfreie Kupplung,  $\varphi_N \geq 5^\circ$ )

### Stoßgrad II:

Mäßige Stöße. Mindestens eine der folgenden Bedingungen trifft zu:

- $1,3 < FI \leq 4$
- $1 < M_x/M_N \leq 1,6$
- Übertragungsmittel stoßneutral (z.B. Zahnräder, spielfreie starre Kupplung oder elastische Kupplung mit  $\varphi_N < 5^\circ$ )

### Stoßgrad III:

Heftige Stöße. Mindestens eine der folgenden Bedingungen trifft zu:

- $FI > 4$
- $1,6 < M_x/M_N \leq 2,0$
- Übertragungsmittel stoßverstärkend (z.B. spielbehaftete Kupplung oder Kettenantrieb)

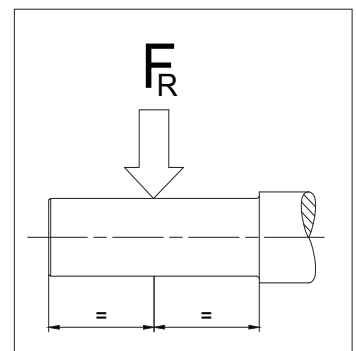
### Erklärung der Kurzzeichen

Z	Schaltbetrieb: Schaltungen pro Stunde
$t_d$	Tägliche Betriebszeit in Stunden (h/d)
FI	Trägheitsfaktor $FI = (J_{ext} + J_{rot}) / J_{rot}$
$J_{ext}$	Massenträgheitsmoment der anzutreibenden Maschine, bezogen auf die Läuferwelle des Motors ( $kgm^2$ )
$J_{rot}$	Massenträgheitsmoment des Motorläufers ( $kgm^2$ )
$M_x$	Höchstes Stoßmoment, das betriebsbedingt oder im Störfall über das statische Lastmoment hinaus eintreten kann
$M_N$	Erforderliches statisches Lastmoment für die Anwendung
$M_x/M_N$	Relatives Stoßmoment - Faktor
$\varphi_N$	Verdrehwinkel der elastischen Kupplung bei Bemessungsmoment

### Auswahltabellen der Kegelrad-Getriebemotoren

#### Erläuterungen zu den Abkürzungen

P	Bemessungsleistung
$n_2$	Bemessungsdrehzahl der Arbeitswelle
i	Getriebe-Untersetzung
$M_2$	Bemessungsmoment an der Arbeitswelle
$f_B$	Bauer-Betriebsfaktor
$F_{RN}$	Maximal zulässige Radialkraft bei normaler Lagerung
$F_{RV}$	Maximal zulässige Radialkraft bei verstärkter Lagerung jeweils bei Standard-Zapfenwelle (Code -.1 und -.2)



Mit den Auswahltabellen kann die Größe des Getriebemotors festgelegt werden. Die Ausführung des Getriebes und der Arbeitswelle kann mittels Codezahlen eindeutig definiert werden (siehe Kapitel 12 „Maßbilder der Kegelrad-Getriebemotoren“).

Die mit (\*) gekennzeichneten Drehmomente sind maximal zulässige Werte bei Betriebsfaktor  $f_B = 1,0$ .

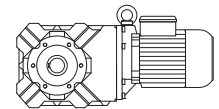
#### Motorleistung-Überlastungsschutz

Die Nennleistung der Motoren, vor allem in Verbindung mit den vier- und mehrstufigen Getrieben, sind z. T. reichlich bemessen. Der Bemessungsstrom stellt aus diesem Grunde wie auch bei kleinen Motorleistungen keinen Maßstab für die Getriebeauslastung dar und kann nicht als Überlastungsschutz für das Getriebe genutzt werden. Bei Gefahr von zu hoher Belastung oder Blockierung ist es sinnvoll, das Getriebe durch mechanische Einrichtung (z. B. Rutschkupplung, Rutschnabe, Scherstift o. ä.) zu schützen.

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 0.03 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
28.5	8.9	9.0	47.78	BK06-../D04LA4	7.6	1500	-	34	7.4	11
25	10.1	6.7	54.38	"	"	1600	-	30	8.4	8.1
21.5	11.8	5.4	63.33	"	"	1700	-	26	9.8	6.5
3.7	62	2.7	373.4	BK10Z-../D04LA4	21	7000	-	4.4	52	3.2
3.2	71	2.1	428.8	"	"	7000	-	3.8	60	2.5
2.5	66	3.3	552.3	BK10G06-../D04LA4	25	7000	-	3.0	51	4.3
2.2	77	2.9	635.5	"	"	7000	-	2.6	62	3.5
1.8	98	2.2	789.7	"	"	7000	-	2.1	80	2.8
1.5	118	1.85	929.3	"	"	7000	-	1.8	94	2.3
1.3	139	1.6	1112	"	"	7000	-	1.5	116	1.9
1.0	184	1.2	1361	"	"	7000	-	1.2	149	1.5
0.9	205	1.05	1577	"	"	7000	-	1.1	167	1.3
0.7	220*	1.0	1971	"	"	7000	-	0.85	220	1.0
0.6	220*	1.0	2261	"	"	7000	-	0.75	220	1.0
0.55	220*	1.0	2467	"	"	7000	-	0.7	220	1.0
0.48	220*	1.0	2849	"	"	7000	-	0.6	220	1.0
0.44	220*	1.0	3107	"	"	7000	-	0.55	220	1.0
0.39	220*	1.0	3537	"	"	7000	-	0.46	220	1.0
0.33	220*	1.0	4120	"	"	7000	-	0.4	220	1.0
1.6	110	3.3	891.2	BK20G06-../D04LA4	34	8700	9000	1.9	88	4.1
1.3	138	2.6	1066	"	"	8700	9000	1.6	108	3.3
1.1	165	2.2	1305	"	"	8700	9000	1.3	135	2.7
0.95	193	1.85	1424	"	"	8700	9000	1.2	149	2.4
0.85	220	1.65	1650	"	"	8700	9000	1.0	183	1.95
0.7	270	1.35	2062	"	"	8700	9000	0.8	235	1.55
0.6	320	1.15	2366	"	"	8700	9000	0.7	270	1.35
0.55	350	1.05	2580	"	"	8700	9000	0.65	295	1.2
0.48	360*	1.0	2831	"	"	8700	9000	0.6	360	1.0
0.44	360*	1.0	3088	"	"	8700	9000	0.55	360	1.0
0.39	360*	1.0	3515	"	"	8700	9000	0.47	360	1.0
0.33	360*	1.0	4094	"	"	8700	9000	0.4	360	1.0
1.2	150	3.3	1142	BK30G06-../D04LA4	40	11200	12000	1.5	116	4.2
1.1	165	3.0	1281	"	"	11200	12000	1.3	135	3.6
0.85	220	2.2	1620	"	"	11200	12000	1.0	183	2.7
0.8	235	2.1	1767	"	"	11200	12000	0.95	195	2.5
0.7	270	1.8	2024	"	"	11200	12000	0.85	220	2.2
0.55	350	1.4	2533	"	"	11200	12000	0.65	295	1.65
0.5	380	1.3	2738	"	"	11200	12000	0.6	315	1.55
0.46	415	1.2	2986	"	"	11200	12000	0.55	345	1.4
0.4	480	1.0	3399	"	"	11200	12000	0.48	400	1.25
0.35	490*	1.0	3959	"	"	11200	12000	0.41	490	1.0

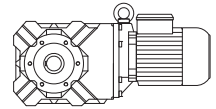
P = 0.04 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
41	8.3	9.6	33.33	BK06-../D04LA4	7.6	1320	-	49	7.0	11
35.5	9.6	8.3	38.18	"	"	1380	-	42.5	8.0	10
28.5	11.9	6.7	47.78	"	"	1500	-	34	9.9	8.1
25	13.5	5.0	54.38	"	"	1600	-	30	11.3	6.0
21.5	15.8	4.0	63.33	"	"	1700	-	26	13	4.9
4.5	68	2.7	302.4	BK10Z-../D04LA4	21	7000	-	5.4	57	3.2
3.7	83	2.0	373.4	"	"	7000	-	4.4	70	2.4
3.2	95	1.55	428.8	"	"	7000	-	3.8	80	1.85
3.0	78	2.8	459.2	BK10G06-../D04LA4	25	7000	-	3.6	62	3.5
2.7	88	2.5	501.4	"	"	7000	-	3.3	68	3.2
2.5	96	2.3	552.3	"	"	7000	-	3.0	77	2.9
2.2	112	1.95	635.5	"	"	7000	-	2.6	91	2.4
1.8	140	1.55	789.7	"	"	7000	-	2.1	116	1.9
1.5	167	1.3	929.3	"	"	7000	-	1.8	135	1.65

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

**P = 0.04 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
1.3	195	1.15	1112	BK10G06-../D04LA4	"	7000	-	1.5	165	1.35
1.0	255	0.86	1361	"	"	7000	-	1.2	210	1.05
2.2	110	3.3	630.0	BK20G06-../D04LA4	34	8700	9000	2.6	89	4.0
1.8	138	2.6	757.0	"	"	8700	9000	2.2	109	3.3
1.6	156	2.3	891.2	"	"	8700	9000	1.9	128	2.8
1.3	195	1.85	1066	"	"	8700	9000	1.6	155	2.3
1.1	230	1.55	1305	"	"	8700	9000	1.3	192	1.9
0.95	270	1.35	1424	"	"	8700	9000	1.2	210	1.7
0.85	305	1.2	1650	"	"	8700	9000	1.0	255	1.4
1.7	147	3.3	810.9	BK30G06-../D04LA4	40	11200	12000	2.0	122	4.0
1.5	167	2.9	954.1	"	"	11200	12000	1.7	143	3.4
1.2	210	2.3	1142	"	"	11200	12000	1.5	165	3.0
1.1	230	2.1	1281	"	"	11200	12000	1.3	192	2.6
0.85	305	1.6	1620	"	"	11200	12000	1.0	255	1.9
0.8	325	1.5	1767	"	"	11200	12000	0.95	270	1.8
0.7	375	1.3	2024	"	"	11200	12000	0.85	305	1.6
0.55	480	1.0	2533	"	"	11200	12000	0.65	405	1.2

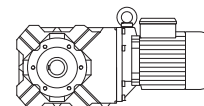
**P = 0.06 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
63	8.1	9.9	21.54	BK06-../D04LA4	7.6	1150	-	76	6.7	12
52	9.9	8.1	26.36	"	"	1230	-	62	8.3	9.6
41	12.5	6.4	33.33	"	"	1320	-	49	10.5	7.6
35.5	14.5	5.5	38.18	"	"	1380	-	42.5	12.1	6.6
28.5	17.8	4.5	47.78	"	"	1500	-	34	14.9	5.4
25	20	3.4	54.38	"	"	1600	-	30	16.9	4.0
21.5	23.5	2.7	63.33	"	"	1700	-	26	19.6	3.2
11.5	42	3.3	120.3	BK10Z-../D06LA4	24	7000	-	13.5	36	3.8
9.5	50	3.3	143.2	"	"	7000	-	11.5	41.5	3.9
6.6	71	2.8	204.7	"	"	7000	-	8.0	58	3.4
5.3	88	2.3	257.9	"	"	7000	-	6.3	74	2.7
4.5	103	1.8	302.4	"	"	7000	-	5.4	85	2.2
3.7	125	1.3	373.4	"	"	7000	-	4.4	105	1.55
3.2	143	1.05	428.8	"	"	7000	-	3.8	120	1.25
3.0	129	1.7	459.2	BK10G06-../D06LA4	28	7000	-	3.6	104	2.1
2.7	144	1.55	501.4	"	"	7000	-	3.3	115	1.9
2.5	157	1.4	552.3	"	"	7000	-	3.0	127	1.75
2.2	180	1.2	635.5	"	"	7000	-	2.6	149	1.5
1.8	220	1.0	789.7	"	"	7000	-	2.1	187	1.2
1.5	265	0.83	929.3	"	"	7000	-	1.8	215	1.0
4.6	100	3.1	298.2	BK20Z-../D06LA4	34	8700	9000	5.5	84	3.7
3.7	123	2.4	367.7	"	"	8700	9000	4.5	101	2.9
3.2	120	3.0	429.7	BK20G06-../D06LA4	38	8700	9000	3.8	98	3.7
2.9	133	2.7	480.4	"	"	8700	9000	3.4	110	3.3
2.6	149	2.4	524.5	"	"	8700	9000	3.1	122	3.0
2.2	178	2.0	630.0	"	"	8700	9000	2.6	148	2.4
1.8	220	1.65	757.0	"	"	8700	9000	2.2	178	2.0
1.6	245	1.45	891.2	"	"	8700	9000	1.9	205	1.75
1.3	305	1.2	1066	"	"	8700	9000	1.6	245	1.45
1.1	360	1.0	1305	"	"	8700	9000	1.3	305	1.2
3.6	128	3.1	380.7	BK30Z-../D06LA4	41	11200	12000	4.3	107	3.8
3.1	147	2.6	441.3	"	"	11200	12000	3.7	123	3.1
2.4	163	3.0	567.0	BK30G06-../D06LA4	44	11200	12000	2.9	132	3.7
2.1	188	2.6	652.5	"	"	11200	12000	2.5	155	3.2
1.9	210	2.3	743.0	"	"	11200	12000	2.2	178	2.8

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 0.06 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
1.7	235	2.1	810.9	BK30G06-../D06LA4	"	11200	12000	2.0	196	2.5
1.5	265	1.85	954.1	"	"	11200	12000	1.7	230	2.1
1.2	330	1.5	1142	"	"	11200	12000	1.5	260	1.9
1.1	360	1.35	1281	"	"	11200	12000	1.3	305	1.6
0.85	475	1.05	1620	"	"	11200	12000	1.0	400	1.25
1.2	290	2.9	1189	BK40G10-../D06LA4	68	11700	17000	1.4	240	3.5
0.95	380	2.2	1428	"	"	11700	17000	1.2	290	2.9
0.8	465	1.85	1798	"	"	11700	17000	0.95	385	2.2
0.65	580	1.45	2108	"	"	11700	17000	0.8	465	1.85
0.6	640	1.35	2350	"	"	11700	17000	0.7	540	1.55
0.55	700	1.2	2604	"	"	11700	17000	0.65	580	1.45
1.0	370	3.1	1398	BK50G10-../D06LA4	96	14100	26000	1.2	300	3.8
0.9	415	2.8	1549	"	"	14100	26000	1.1	335	3.4
0.75	510	2.3	1816	"	"	14100	26000	0.9	415	2.8
0.7	550	2.1	2024	"	"	14100	26000	0.85	445	2.6
0.6	630	1.85	2450	"	"	14100	26000	0.7	530	2.2
0.5	760	1.5	2730	"	"	14100	26000	0.6	620	1.85
0.45	850	1.35	3025	"	"	14100	26000	0.55	680	1.7
0.39	960	1.2	3492	"	"	14100	26000	0.47	790	1.45
0.35	1080	1.05	3870	"	"	14100	26000	0.42	890	1.3
0.39	920	2.7	3533	BK60G20-../D06LA4	123	16600	34000	0.46	690	3.6
0.32	1240	2.0	4239	"	"	16600	34000	0.39	920	2.7
0.27	1570	1.6	5072	"	"	16600	34000	0.32	1240	2.0
0.24	1830	1.35	5721	"	"	16600	34000	0.29	1420	1.75
0.21	2150	1.15	6565	"	"	16600	34000	0.25	1740	1.45
0.19	2450	1.0	7291	"	"	16600	34000	0.23	1940	1.3
0.21	2000	2.9	6504	BK70G20-../D06LA4	201	24100	50000	0.25	1580	3.6
0.17	2650	2.2	8149	"	"	24100	50000	0.2	2150	2.7
0.15	3100	1.85	9351	"	"	24100	50000	0.18	2450	2.3

P = 0.09 kW

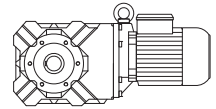
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
89	8.7	9.2	15.29	BK06-../D04LA4	7.6	1020	-	106	7.3	11
75	10.3	7.8	18.00	"	"	1080	-	90	8.5	9.4
63	12.2	6.6	21.54	"	"	1150	-	76	10.1	7.9
52	14.8	5.4	26.36	"	"	1230	-	62	12.4	6.5
41	18.8	4.3	33.33	"	"	1320	-	49	15.7	5.1
35.5	21.5	3.7	38.18	"	"	1380	-	42.5	18.2	4.4
28.5	26.5	3.0	47.78	"	"	1500	-	34	22	3.6
25	30.5	2.2	54.38	"	"	1600	-	30	25	2.7
21.5	35.5	1.8	63.33	"	"	1700	-	26	29	2.2
13.5	54	2.9	102.5	BK10-../D06LA4	23	7000	-	16	45.5	3.5
11.5	63	2.2	120.3	BK10Z-../D06LA4	24	7000	-	13.5	54	2.5
9.5	75	2.2	143.2	"	"	7000	-	11.5	62	2.6
8.0	89	2.2	170.6	"	"	7000	-	9.5	75	2.7
6.6	106	1.9	204.7	"	"	7000	-	8.0	88	2.3
5.3	132	1.5	257.9	"	"	7000	-	6.3	111	1.8
4.5	154	1.2	302.4	"	"	7000	-	5.4	128	1.45
3.7	188	0.88	373.4	"	"	7000	-	4.4	158	1.05
3.3	186	1.2	410.8	BK10G06-../D06LA4	28	7000	-	4.0	151	1.45
3.0	205	1.05	459.2	"	"	7000	-	3.6	168	1.3
2.7	225	0.98	501.4	"	"	7000	-	3.3	184	1.2
2.5	245	0.9	552.3	"	"	7000	-	3.0	200	1.1
6.6	106	3.1	207.5	BK20Z-../D06LA4	34	8700	9000	7.9	89	3.7
5.2	135	2.4	259.9	"	"	8700	9000	6.3	111	3.0
4.6	151	2.1	298.2	"	"	8700	9000	5.5	126	2.5
3.7	185	1.6	367.7	"	"	8700	9000	4.5	152	1.9



# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

**P = 0.09 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
3.2	192	1.9	429.7	BK20G06-../D06LA4	38	8700	9000	3.8	159	2.3
2.9	210	1.7	480.4	"	"	8700	9000	3.4	178	2.0
2.6	235	1.55	524.5	"	"	8700	9000	3.1	196	1.85
2.2	280	1.3	630.0	"	"	8700	9000	2.6	235	1.55
1.8	345	1.05	757.0	"	"	8700	9000	2.2	280	1.3
1.6	385	0.94	891.2	"	"	8700	9000	1.9	320	1.15
4.4	160	2.4	308.3	BK30Z-../D06LA4	41	11200	12000	5.3	132	2.9
3.6	193	2.1	380.7	"	"	11200	12000	4.3	161	2.5
3.1	220	1.75	441.3	"	"	11200	12000	3.7	185	2.1
2.9	210	2.3	471.5	BK30G06-../D06LA4	44	11200	12000	3.5	173	2.8
2.4	255	1.9	567.0	"	"	11200	12000	2.9	210	2.3
2.1	295	1.65	652.5	"	"	11200	12000	2.5	245	2.0
1.9	325	1.5	743.0	"	"	11200	12000	2.2	280	1.75
1.7	365	1.35	810.9	"	"	11200	12000	2.0	305	1.6
1.5	410	1.2	954.1	"	"	11200	12000	1.7	360	1.35
1.2	510	0.96	1142	"	"	11200	12000	1.5	410	1.2
1.1	560	0.88	1281	"	"	11200	12000	1.3	470	1.05
3.9	178	3.3	348.7	BK40Z-../D06LA4	64	11700	17000	4.7	148	3.9
3.2	210	2.7	430.0	"	"	11700	17000	3.8	180	3.2
1.8	295	2.9	756.7	BK40G10-../D06LA4	68	11700	17000	2.2	230	3.7
1.7	320	2.7	838.4	"	"	11700	17000	2.0	260	3.3
1.4	400	2.1	998.3	"	"	11700	17000	1.7	320	2.7
1.2	475	1.8	1189	"	"	11700	17000	1.4	395	2.2
0.95	610	1.4	1428	"	"	11700	17000	1.2	475	1.8
0.8	730	1.15	1798	"	"	11700	17000	0.95	610	1.4
1.6	350	3.3	859.8	BK50G10-../D06LA4	96	14100	26000	1.9	285	4.0
1.4	410	2.8	1024	"	"	14100	26000	1.6	350	3.3
1.1	530	2.2	1230	"	"	14100	26000	1.4	410	2.8
1.0	590	1.95	1398	"	"	14100	26000	1.2	485	2.4
0.9	660	1.75	1549	"	"	14100	26000	1.1	530	2.2
0.75	790	1.45	1816	"	"	14100	26000	0.9	650	1.75
0.7	850	1.35	2024	"	"	14100	26000	0.85	700	1.65
0.6	980	1.15	2450	"	"	14100	26000	0.7	830	1.4
0.7	750	3.3	2010	BK60G20-../D06LA4	123	16600	34000	0.85	530	4.7
0.6	930	2.7	2371	"	"	16600	34000	0.7	720	3.5
0.5	1180	2.1	2733	"	"	16600	34000	0.6	890	2.8
0.45	1360	1.85	3036	"	"	16600	34000	0.55	1010	2.5
0.39	1650	1.5	3533	"	"	16600	34000	0.46	1320	1.9
0.32	2100	1.2	4239	"	"	16600	34000	0.39	1650	1.5
0.35	1750	3.3	3894	BK70G20-../D06LA4	201	24100	50000	0.42	1340	4.3
0.3	2150	2.7	4531	"	"	24100	50000	0.36	1680	3.4
0.25	2700	2.1	5436	"	"	24100	50000	0.3	2150	2.7
0.21	3350	1.7	6504	"	"	24100	50000	0.25	2700	2.1
0.17	4350	1.3	8149	"	"	24100	50000	0.2	3550	1.6
0.15	5000	1.15	9351	"	"	24100	50000	0.18	4050	1.4

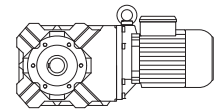
**P = 0.12 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
116	9.0	8.9	11.67	BK06-../D04LA4	7.6	930	-	139	7.5	11
89	11.7	6.8	15.29	"	"	1020	-	106	9.8	8.2
75	13.7	5.8	18.00	"	"	1080	-	90	11.4	7.0
63	16.3	4.9	21.54	"	"	1150	-	76	13.5	5.9
52	19.8	4.0	26.36	"	"	1230	-	62	16.6	4.8
41	25	3.2	33.33	"	"	1320	-	49	21	3.8
35.5	29	2.8	38.18	"	"	1380	-	42.5	24	3.3
28.5	35.5	2.3	47.78	"	"	1500	-	34	29.5	2.7
25	40.5	1.7	54.38	"	"	1600	-	30	33.5	2.0
21.5	47	1.35	63.33	"	"	1700	-	26	39	1.65

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 0.12 kW

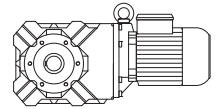


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
15.5	64	2.8	89.30	BK10-../D06LA4	23	7000	-	18.5	53	3.4
13.5	72	2.2	102.5	"	"	7000	-	16	60	2.6
11.5	84	1.65	120.3	BK10Z-../D06LA4	24	7000	-	13.5	72	1.9
9.5	101	1.6	143.2	"	"	7000	-	11.5	83	1.95
8.0	118	1.7	170.6	"	"	7000	-	9.5	100	2.0
6.6	142	1.4	204.7	"	"	7000	-	8.0	117	1.7
5.3	177	1.15	257.9	"	"	7000	-	6.3	149	1.35
4.5	205	0.9	302.4	"	"	7000	-	5.4	171	1.1
4.0	210	1.05	343.2	BK10G06-../D06LA4	28	7000	-	4.8	173	1.25
3.3	255	0.86	410.8	"	"	7000	-	4.0	205	1.05
14	70	3.3	96.99	BK20Z-../D06LA4	34	8700	9000	17	57	4.1
9.4	102	3.2	144.5	"	"	8700	9000	11.5	83	4.0
7.8	121	2.7	173.4	"	"	8700	9000	9.4	101	3.3
6.6	142	2.3	207.5	"	"	8700	9000	7.9	118	2.8
5.2	180	1.85	259.9	"	"	8700	9000	6.3	149	2.2
4.6	200	1.55	298.2	"	"	8700	9000	5.5	168	1.85
3.7	245	1.2	367.7	"	"	8700	9000	4.5	200	1.45
3.2	260	1.4	429.7	BK20G06-../D06LA4	38	8700	9000	3.8	215	1.65
2.9	290	1.25	480.4	"	"	8700	9000	3.4	245	1.45
2.6	320	1.15	524.5	"	"	8700	9000	3.1	265	1.35
2.2	380	0.95	630.0	"	"	8700	9000	2.6	320	1.15
6.3	149	3.0	216.5	BK30Z-../D06LA4	41	11200	12000	7.5	125	3.6
5.3	177	2.5	255.3	"	"	11200	12000	6.4	146	3.1
4.4	210	1.85	308.3	"	"	11200	12000	5.3	177	2.2
3.6	255	1.6	380.7	"	"	11200	12000	4.3	215	1.85
3.1	295	1.3	441.3	"	"	11200	12000	3.7	245	1.55
2.9	290	1.7	471.5	BK30G06-../D06LA4	44	11200	12000	3.5	235	2.1
2.4	350	1.4	567.0	"	"	11200	12000	2.9	285	1.7
2.1	400	1.25	652.5	"	"	11200	12000	2.5	335	1.45
1.9	445	1.1	743.0	"	"	11200	12000	2.2	380	1.3
1.7	495	0.99	810.9	"	"	11200	12000	2.0	420	1.15
1.5	560	0.88	954.1	"	"	11200	12000	1.7	490	1.0
3.9	235	2.5	348.7	BK40Z-../D06LA4	64	11700	17000	4.7	197	2.9
3.2	285	2.0	430.0	"	"	11700	17000	3.8	240	2.4
2.8	255	3.3	487.3	BK40G10-../D06LA4	68	11700	17000	3.4	200	4.3
2.5	290	2.9	540.0	"	"	11700	17000	3.0	230	3.7
2.1	355	2.4	660.2	"	"	11700	17000	2.5	285	3.0
1.8	420	2.0	756.7	"	"	11700	17000	2.2	330	2.6
1.7	450	1.9	838.4	"	"	11700	17000	2.0	370	2.3
1.4	550	1.55	998.3	"	"	11700	17000	1.7	450	1.9
1.2	660	1.3	1189	"	"	11700	17000	1.4	550	1.55
0.95	840	1.0	1428	"	"	11700	17000	1.2	660	1.3
3.3	275	3.1	414.8	BK50Z-../D06LA4	92	14100	26000	4.0	225	3.8
2.1	360	3.2	651.7	BK50G10-../D06LA4	96	14100	26000	2.5	295	3.9
1.9	405	2.8	722.2	"	"	14100	26000	2.3	325	3.5
1.6	490	2.3	859.8	"	"	14100	26000	1.9	405	2.8
1.4	560	2.1	1024	"	"	14100	26000	1.6	490	2.3
1.1	730	1.6	1230	"	"	14100	26000	1.4	570	2.0
1.0	800	1.45	1398	"	"	14100	26000	1.2	660	1.75
0.9	900	1.3	1549	"	"	14100	26000	1.1	730	1.6
0.75	1080	1.05	1816	"	"	14100	26000	0.9	900	1.3
0.85	930	2.7	1618	BK60G20-../D06LA4	123	16600	34000	1.1	630	4.0
0.75	1070	2.3	1810	"	"	16600	34000	0.9	810	3.1
0.7	1160	2.2	2010	"	"	16600	34000	0.85	870	2.9
0.6	1400	1.8	2371	"	"	16600	34000	0.7	1130	2.2
0.5	1750	1.45	2733	"	"	16600	34000	0.6	1370	1.8
0.45	1990	1.25	3036	"	"	16600	34000	0.55	1530	1.65
0.39	2350	1.05	3533	"	"	16600	34000	0.46	1940	1.3
0.45	1900	3.0	3041	BK70G20-../D06LA4	201	24100	50000	0.55	1440	4.0
0.39	2250	2.5	3505	"	"	24100	50000	0.47	1750	3.3

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

**P = 0.12 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
0.35	2550	2.2	3894	BK70G20-../D06LA4	"	24100	50000	0.42	2000	2.9
0.3	3100	1.85	4531	"	"	24100	50000	0.36	2450	2.3
0.25	3850	1.5	5436	"	"	24100	50000	0.3	3100	1.85
0.21	4750	1.2	6504	"	"	24100	50000	0.25	3850	1.5

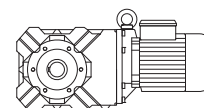
**P = 0.18 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
140	11.2	7.1	9.71	BK06-../D05LA4	9.5	880	-	167	9.4	8.5
116	13.6	5.9	11.67	"	"	930	-	139	11.3	7.1
89	17.5	4.6	15.29	"	"	1020	-	106	14.7	5.4
75	20.5	3.9	18.00	"	"	1080	-	90	17.1	4.7
63	24.5	3.3	21.54	"	"	1150	-	76	20	4.0
52	29.5	2.7	26.36	"	"	1230	-	62	24.5	3.3
41	37.5	2.1	33.33	"	"	1320	-	49	31.5	2.5
35.5	43.5	1.85	38.18	"	"	1380	-	42.5	36	2.2
28.5	53	1.5	47.78	"	"	1500	-	34	44.5	1.8
25	61	1.1	54.38	"	"	1600	-	30	50	1.35
21.5	71	0.89	63.33	"	"	1700	-	26	58	1.1
22	69	2.9	61.68	BK10-../D06LA4	23	7000	-	26.5	57	3.5
19	79	2.5	72.31	"	"	7000	-	22.5	67	3.0
15.5	96	1.85	89.30	"	"	7000	-	18.5	80	2.2
13.5	108	1.45	102.5	"	"	7000	-	16	91	1.75
11.5	127	1.1	120.3	BK10Z-../D06LA4	24	7000	-	13.5	108	1.25
9.5	151	1.1	143.2	"	"	7000	-	11.5	125	1.3
8.0	178	1.1	170.6	"	"	7000	-	9.5	150	1.35
6.6	210	0.95	204.7	"	"	7000	-	8.0	176	1.15
12.5	118	2.7	108.6	BK20-../D06LA4	33	8700	9000	15	98	3.2
11	132	2.5	124.2	BK20Z-../D06LA4	34	8700	9000	13.5	108	3.1
9.4	153	2.2	144.5	"	"	8700	9000	11.5	125	2.6
7.8	182	1.8	173.4	"	"	8700	9000	9.4	151	2.2
6.6	210	1.55	207.5	"	"	8700	9000	7.9	178	1.85
5.2	270	1.2	259.9	"	"	8700	9000	6.3	220	1.5
4.6	300	1.05	298.2	"	"	8700	9000	5.5	250	1.25
3.8	340	1.05	359.1	BK20G06-../D06LA4	38	8700	9000	4.6	280	1.3
3.2	405	0.89	429.7	"	"	8700	9000	3.8	340	1.05
2.9	445	0.81	480.4	"	"	8700	9000	3.4	380	0.95
9.4	153	2.9	145.1	BK30Z-../D06LA4	41	11200	12000	11.5	125	3.6
7.4	192	2.3	184.8	"	"	11200	12000	8.8	162	2.8
6.3	220	2.0	216.5	"	"	11200	12000	7.5	187	2.4
5.3	265	1.7	255.3	"	"	11200	12000	6.4	220	2.0
4.4	320	1.2	308.3	"	"	11200	12000	5.3	265	1.45
3.6	385	1.05	380.7	"	"	11200	12000	4.3	320	1.25
3.1	440	0.87	441.3	"	"	11200	12000	3.7	370	1.05
2.9	445	1.1	471.5	BK30G06-../D06LA4	44	11200	12000	3.5	370	1.3
2.4	540	0.91	567.0	"	"	11200	12000	2.9	445	1.1
2.1	610	0.8	652.5	"	"	11200	12000	2.5	510	0.96
5.5	250	3.1	246.6	BK40Z-../D06LA4	64	11700	17000	6.6	210	3.7
4.7	295	2.3	289.8	"	"	11700	17000	5.6	245	2.8
3.9	355	1.65	348.7	"	"	11700	17000	4.7	295	1.95
3.2	425	1.35	430.0	"	"	11700	17000	3.8	360	1.6
2.8	420	2.0	487.3	BK40G10-../D06LA4	68	11700	17000	3.4	335	2.5
2.5	470	1.8	540.0	"	"	11700	17000	3.0	385	2.2
2.1	560	1.5	660.2	"	"	11700	17000	2.5	465	1.85
1.8	660	1.3	756.7	"	"	11700	17000	2.2	530	1.6
1.7	710	1.2	838.4	"	"	11700	17000	2.0	590	1.45
1.4	870	0.98	998.3	"	"	11700	17000	1.7	710	1.2
1.2	1020	0.83	1189	"	"	11700	17000	1.4	870	0.98

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 0.18 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
4.2	330	3.1	328.2	BK50Z-../D06LA4	92	14100	26000	5.0	275	3.7
3.3	415	2.0	414.8	"	"	14100	26000	4.0	340	2.5
3.0	395	2.9	465.1	BK50G10-../D06LA4	96	14100	26000	3.5	330	3.5
2.7	440	2.6	513.4	"	"	14100	26000	3.2	365	3.2
2.4	500	2.3	568.6	"	"	14100	26000	2.9	405	2.8
2.1	570	2.0	651.7	"	"	14100	26000	2.5	475	2.4
1.9	640	1.8	722.2	"	"	14100	26000	2.3	520	2.2
1.6	760	1.5	859.8	"	"	14100	26000	1.9	640	1.8
1.4	880	1.3	1024	"	"	14100	26000	1.6	760	1.5
1.1	1120	1.05	1230	"	"	14100	26000	1.4	880	1.3
1.0	1240	0.93	1398	"	"	14100	26000	1.2	1030	1.1
1.4	920	2.7	1016	BK60G20-../D06LA4	123	16600	34000	1.6	770	3.2
1.1	1220	2.0	1322	"	"	16600	34000	1.3	980	2.6
0.85	1610	1.55	1618	"	"	16600	34000	1.1	1150	2.2
0.75	1830	1.35	1810	"	"	16600	34000	0.9	1450	1.7
0.7	1980	1.25	2010	"	"	16600	34000	0.85	1550	1.6
0.6	2350	1.05	2371	"	"	16600	34000	0.7	1950	1.3
0.8	1720	3.3	1696	BK70G20-../D06LA4	201	24100	50000	1.0	1290	4.4
0.7	1940	2.9	2040	"	"	24100	50000	0.8	1630	3.5
0.55	2500	2.3	2578	"	"	24100	50000	0.65	2000	2.9
0.45	3150	1.8	3041	"	"	24100	50000	0.55	2450	2.3
0.39	3700	1.55	3505	"	"	24100	50000	0.47	2950	1.95
0.35	4200	1.35	3894	"	"	24100	50000	0.42	3350	1.7
0.3	5000	1.15	4531	"	"	24100	50000	0.36	4050	1.4

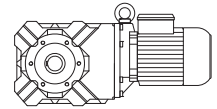
P = 0.25 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
140	15.6	5.1	9.71	BK06-../D05LA4	9.5	880	-	167	13.1	6.1
116	18.9	4.2	11.67	"	"	930	-	139	15.8	5.1
89	24	3.3	15.29	"	"	1020	-	106	20	4.0
75	28.5	2.8	18.00	"	"	1080	-	90	23.5	3.4
63	34	2.4	21.54	"	"	1150	-	76	28	2.9
52	41	1.95	26.36	"	"	1230	-	62	34.5	2.3
41	52	1.55	33.33	"	"	1320	-	49	43.5	1.85
35.5	60	1.35	38.18	"	"	1380	-	42.5	50	1.6
28.5	74	1.1	47.78	"	"	1500	-	34	62	1.3
25	84	0.81	54.38	"	"	1600	-	30	70	0.97
33.5	64	3.1	40.79	BK10-../D06LA4	23	6000	-	40	53	3.8
28	75	2.7	48.96	"	"	6400	-	33.5	63	3.2
22	96	2.1	61.68	"	"	7000	-	26.5	80	2.5
19	110	1.8	72.31	"	"	7000	-	22.5	93	2.2
15.5	134	1.35	89.30	"	"	7000	-	18.5	112	1.6
13.5	150	1.05	102.5	"	"	7000	-	16	126	1.25
8.0	245	0.82	170.6	BK10Z-../D06LA4	24	7000	-	9.5	205	0.98
18	116	2.8	76.79	BK20-../D06LA4	33	7500	9000	21.5	97	3.4
15.5	134	2.5	88.12	"	"	8000	9000	18.5	112	2.9
12.5	164	1.9	108.6	"	"	8700	9000	15	136	2.3
11	184	1.8	124.2	BK20Z-../D06LA4	34	8700	9000	13.5	150	2.2
9.4	210	1.55	144.5	"	"	8700	9000	11.5	174	1.9
7.8	250	1.3	173.4	"	"	8700	9000	9.4	210	1.55
6.6	295	1.1	207.5	"	"	8700	9000	7.9	245	1.35
5.2	375	0.88	259.9	"	"	8700	9000	6.3	310	1.05
13.5	150	3.0	102.4	BK30-../D06LA4	39	11200	12000	16	126	3.6
11	184	2.4	123.9	BK30Z-../D06LA4	41	11200	12000	13.5	150	3.0
9.4	210	2.1	145.1	"	"	11200	12000	11.5	174	2.6
7.4	265	1.7	184.8	"	"	11200	12000	8.8	225	2.0
6.3	310	1.45	216.5	"	"	11200	12000	7.5	260	1.75

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

**P = 0.25 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
5.3	365	1.25	255.3	BK30Z-../D06LA4	"	11200	12000	6.4	305	1.5
4.4	440	0.88	308.3	"	"	11200	12000	5.3	365	1.05
8.0	245	3.2	169.0	BK40Z-../D06LA4	64	11700	17000	9.6	205	3.8
6.4	305	2.6	211.5	"	"	11700	17000	7.7	250	3.1
5.5	350	2.2	246.6	"	"	11700	17000	6.6	290	2.7
4.7	410	1.65	289.8	"	"	11700	17000	5.6	345	2.0
3.9	495	1.15	348.7	"	"	11700	17000	4.7	410	1.4
3.2	590	0.97	430.0	"	"	11700	17000	3.8	500	1.15
2.8	610	1.4	487.3	BK40G10-../D06LA4	68	11700	17000	3.4	495	1.7
2.5	680	1.25	540.0	"	"	11700	17000	3.0	560	1.5
2.1	810	1.05	660.2	"	"	11700	17000	2.5	680	1.25
1.8	950	0.89	756.7	"	"	11700	17000	2.2	770	1.1
1.7	1020	0.83	838.4	"	"	11700	17000	2.0	860	0.99
5.2	370	2.8	264.5	BK50Z-../D06LA4	92	14100	26000	6.2	310	3.4
4.2	460	2.2	328.2	"	"	14100	26000	5.0	385	2.6
3.3	570	1.5	414.8	"	"	14100	26000	4.0	475	1.8
3.0	570	2.0	465.1	BK50G10-../D06LA4	96	14100	26000	3.5	485	2.4
2.7	630	1.85	513.4	"	"	14100	26000	3.2	530	2.2
2.4	720	1.6	568.6	"	"	14100	26000	2.9	590	1.95
2.1	820	1.4	651.7	"	"	14100	26000	2.5	680	1.7
1.9	910	1.25	722.2	"	"	14100	26000	2.3	750	1.55
1.6	1090	1.05	859.8	"	"	14100	26000	1.9	910	1.25
1.4	1250	0.92	1024	"	"	14100	26000	1.6	1090	1.05
2.2	820	3.0	621.5	BK60G20-../D06LA4	123	16600	34000	2.7	620	4.0
1.8	1010	2.5	752.1	"	"	16600	34000	2.2	770	3.2
1.6	1150	2.2	887.8	"	"	16600	34000	1.9	920	2.7
1.4	1400	1.8	1016	"	"	16600	34000	1.6	1190	2.1
1.1	1830	1.35	1322	"	"	16600	34000	1.3	1500	1.65
0.85	2350	1.05	1618	"	"	16600	34000	1.1	1760	1.4
1.1	1790	3.2	1280	BK70G20-../D06LA4	201	24100	50000	1.3	1450	3.9
0.95	2050	2.8	1457	"	"	24100	50000	1.2	1560	3.7
0.8	2550	2.2	1696	"	"	24100	50000	1.0	1950	2.9
0.7	2850	2.0	2040	"	"	24100	50000	0.8	2450	2.3
0.55	3700	1.55	2578	"	"	24100	50000	0.65	3050	1.85
0.45	4650	1.25	3041	"	"	24100	50000	0.55	3650	1.55
0.39	5400	1.05	3505	"	"	24100	50000	0.47	4350	1.3

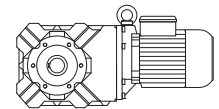
**P = 0.3 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
140	18.8	4.3	9.71	BK06-../D07LA4	14	880	-	167	15.7	5.1
116	22.5	3.6	11.67	"	"	930	-	139	18.9	4.2
89	29	2.8	15.29	"	"	1020	-	106	24.5	3.3
75	34	2.4	18.00	"	"	1080	-	90	28.5	2.8
63	40.5	2.0	21.54	"	"	1150	-	76	33.5	2.4
52	49.5	1.6	26.36	"	"	1230	-	62	41.5	1.95
41	62	1.3	33.33	"	"	1320	-	49	52	1.55
35.5	72	1.1	38.18	"	"	1380	-	42.5	60	1.35
28.5	89	0.9	47.78	"	"	1500	-	34	74	1.1
39.5	65	3.1	34.25	BK10-../D07LA4	26	5600	-	47.5	54	3.7
33.5	76	2.6	40.79	"	"	6000	-	40	64	3.1
28	91	2.2	48.96	"	"	6400	-	33.5	76	2.6
22	115	1.75	61.68	"	"	7000	-	26.5	96	2.1
19	132	1.5	72.31	"	"	7000	-	22.5	112	1.8
15.5	160	1.1	89.30	"	"	7000	-	18.5	134	1.35
13.5	180	0.87	102.5	"	"	7000	-	16	152	1.05
22.5	113	2.9	61.30	BK20-../D07LA4	35	6500	9000	26.5	96	3.4
18	140	2.4	76.79	"	"	7500	9000	21.5	117	2.8
15.5	160	2.1	88.12	"	"	8000	9000	18.5	134	2.5

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 0.3 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
12.5	197	1.6	108.6	BK20-../D07LA4	"	8700	9000	15	164	1.9
11	220	1.5	124.2	BK20Z-../D07LA4	37	8700	9000	13.5	180	1.85
9.4	255	1.3	144.5	"	"	8700	9000	11.5	205	1.6
7.8	300	1.1	173.4	"	"	8700	9000	9.4	250	1.3
6.6	355	0.93	207.5	"	"	8700	9000	7.9	295	1.1
15.5	158	2.8	88.38	BK30-../D07LA4	41	10600	12000	18.5	133	3.4
13.5	180	2.5	102.4	"	"	11200	12000	16	152	3.0
11	220	2.0	123.9	BK30Z-../D07LA4	44	11200	12000	13.5	180	2.5
9.4	255	1.75	145.1	"	"	11200	12000	11.5	205	2.2
7.4	320	1.4	184.8	"	"	11200	12000	8.8	270	1.65
6.3	370	1.2	216.5	"	"	11200	12000	7.5	310	1.45
5.3	440	1.0	255.3	"	"	11200	12000	6.4	365	1.25
9.5	250	3.1	143.0	BK40Z-../D07LA4	66	11700	17000	11.5	205	3.8
8.0	295	2.6	169.0	"	"	11700	17000	9.6	245	3.2
6.4	365	2.1	211.5	"	"	11700	17000	7.7	305	2.6
5.5	420	1.85	246.6	"	"	11700	17000	6.6	350	2.2
4.7	490	1.4	289.8	"	"	11700	17000	5.6	410	1.65
3.9	590	0.98	348.7	"	"	11700	17000	4.7	490	1.2
3.2	710	0.81	430.0	"	"	11700	17000	3.8	600	0.96
2.8	740	1.15	487.3	BK40G10-../D07LA4	71	11700	17000	3.4	600	1.4
2.5	830	1.0	540.0	"	"	11700	17000	3.0	680	1.25
2.1	990	0.86	660.2	"	"	11700	17000	2.5	830	1.0
6.6	355	3.0	206.8	BK50Z-../D07LA4	95	14100	26000	7.9	295	3.6
5.2	445	2.4	264.5	"	"	14100	26000	6.2	370	2.8
4.2	550	1.85	328.2	"	"	14100	26000	5.0	460	2.2
3.3	690	1.2	414.8	"	"	14100	26000	4.0	570	1.5
3.0	700	1.65	465.1	BK50G10-../D07LA4	99	14100	26000	3.5	590	1.95
2.7	780	1.45	513.4	"	"	14100	26000	3.2	650	1.75
2.4	870	1.3	568.6	"	"	14100	26000	2.9	720	1.6
2.1	1000	1.15	651.7	"	"	14100	26000	2.5	830	1.4
1.9	1110	1.05	722.2	"	"	14100	26000	2.3	910	1.25
1.6	1320	0.87	859.8	"	"	14100	26000	1.9	1110	1.05
2.2	1040	2.4	621.5	BK60G20-../D07LA4	125	16600	34000	2.7	800	3.1
1.8	1270	1.95	752.1	"	"	16600	34000	2.2	980	2.6
1.6	1450	1.7	887.8	"	"	16600	34000	1.9	1170	2.1
1.4	1740	1.45	1016	"	"	16600	34000	1.6	1490	1.7
1.1	2250	1.1	1322	"	"	16600	34000	1.3	1860	1.35
1.2	1950	2.9	1139	BK70G20-../D07LA4	204	24100	50000	1.5	1480	3.9
1.1	2200	2.6	1280	"	"	24100	50000	1.3	1820	3.1
0.95	2550	2.2	1457	"	"	24100	50000	1.2	1950	2.9
0.8	3150	1.8	1696	"	"	24100	50000	1.0	2400	2.4
0.7	3550	1.6	2040	"	"	24100	50000	0.8	3050	1.85
0.55	4600	1.25	2578	"	"	24100	50000	0.65	3800	1.5

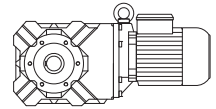
P = 0.37 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
140	23	3.5	9.71	BK06-../D07LA4	14	880	-	167	19.4	4.1
116	28	2.9	11.67	"	"	930	-	139	23	3.5
89	36	2.2	15.29	"	"	1020	-	106	30	2.7
75	42	1.9	18.00	"	"	1080	-	90	35	2.3
63	50	1.6	21.54	"	"	1150	-	76	41.5	1.95
52	61	1.3	26.36	"	"	1230	-	62	51	1.55
41	77	1.05	33.33	"	"	1320	-	49	64	1.25
35.5	89	0.9	38.18	"	"	1380	-	42.5	74	1.1

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

**P = 0.37 kW**

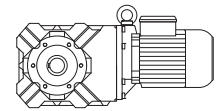


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
47	67	3.0	28.76	BK10-../D07LA4	26	5200	-	57	55	3.6
39.5	80	2.5	34.25	"	"	5600	-	47.5	66	3.0
33.5	94	2.1	40.79	"	"	6000	-	40	79	2.5
28	112	1.8	48.96	"	"	6400	-	33.5	93	2.2
22	142	1.4	61.68	"	"	7000	-	26.5	118	1.7
19	163	1.25	72.31	"	"	7000	-	22.5	138	1.45
15.5	198	0.9	89.30	"	"	7000	-	18.5	166	1.05
32	99	3.3	42.70	BK20-../D07LA4	35	5800	9000	38	83	4.0
26.5	118	2.8	51.22	"	"	6300	9000	32	98	3.4
22.5	139	2.4	61.30	"	"	6500	9000	26.5	118	2.8
18	172	1.9	76.79	"	"	7500	9000	21.5	144	2.3
15.5	198	1.65	88.12	"	"	8000	9000	18.5	166	2.0
12.5	240	1.3	108.6	"	"	8700	9000	15	200	1.6
11	270	1.2	124.2	BK20Z-../D07LA4	37	8700	9000	13.5	220	1.5
9.4	315	1.05	144.5	"	"	8700	9000	11.5	255	1.3
7.8	375	0.88	173.4	"	"	8700	9000	9.4	310	1.05
23	135	3.3	59.27	BK30-../D07LA4	41	8900	12000	27.5	113	4.0
19	161	2.8	71.56	"	"	9700	12000	23	133	3.4
15.5	196	2.3	88.38	"	"	10600	12000	18.5	164	2.7
13.5	220	2.0	102.4	"	"	11200	12000	16	187	2.4
11	270	1.65	123.9	BK30Z-../D07LA4	44	11200	12000	13.5	220	2.0
9.4	315	1.45	145.1	"	"	11200	12000	11.5	255	1.75
7.4	395	1.15	184.8	"	"	11200	12000	8.8	330	1.35
6.3	455	0.99	216.5	"	"	11200	12000	7.5	385	1.15
5.3	540	0.83	255.3	"	"	11200	12000	6.4	450	1.0
11.5	260	3.0	118.2	BK40Z-../D07LA4	66	11700	17000	14	210	3.7
9.5	310	2.5	143.0	"	"	11700	17000	11.5	255	3.1
8.0	365	2.1	169.0	"	"	11700	17000	9.6	305	2.6
6.4	450	1.75	211.5	"	"	11700	17000	7.7	375	2.1
5.5	520	1.5	246.6	"	"	11700	17000	6.6	430	1.8
4.7	600	1.15	289.8	"	"	11700	17000	5.6	510	1.35
3.9	730	0.8	348.7	"	"	11700	17000	4.7	600	0.97
2.8	930	0.91	487.3	BK40G10-../D07LA4	71	11700	17000	3.4	760	1.1
2.5	1040	0.82	540.0	"	"	11700	17000	3.0	860	0.99
8.9	325	3.2	153.3	BK50Z-../D07LA4	95	14100	26000	11	265	4.0
6.6	435	2.4	206.8	"	"	14100	26000	7.9	365	2.9
5.2	550	1.9	264.5	"	"	14100	26000	6.2	460	2.3
4.2	680	1.5	328.2	"	"	14100	26000	5.0	570	1.75
3.3	850	0.99	414.8	"	"	14100	26000	4.0	700	1.2
3.0	870	1.3	465.1	BK50G10-../D07LA4	99	14100	26000	3.5	740	1.55
2.7	970	1.2	513.4	"	"	14100	26000	3.2	810	1.4
2.4	1090	1.05	568.6	"	"	14100	26000	2.9	900	1.3
2.1	1250	0.92	651.7	"	"	14100	26000	2.5	1050	1.1
1.9	1380	0.83	722.2	"	"	14100	26000	2.3	1140	1.0
2.2	1340	1.85	621.5	BK60G20-../D07LA4	125	16600	34000	2.7	1040	2.4
1.8	1640	1.5	752.1	"	"	16600	34000	2.2	1290	1.95
1.6	1870	1.35	887.8	"	"	16600	34000	1.9	1520	1.65
1.4	2200	1.15	1016	"	"	16600	34000	1.6	1900	1.3
1.1	2850	0.88	1322	"	"	16600	34000	1.3	2350	1.05
1.6	1850	3.1	847.7	BK70G20-../D07LA4	204	24100	50000	2.0	1410	4.0
1.4	2100	2.7	964.6	"	"	24100	50000	1.7	1670	3.4
1.2	2500	2.3	1139	"	"	24100	50000	1.5	1920	3.0
1.1	2800	2.0	1280	"	"	24100	50000	1.3	2300	2.5
0.95	3250	1.75	1457	"	"	24100	50000	1.2	2500	2.3
0.8	3950	1.45	1696	"	"	24100	50000	1.0	3100	1.85
0.7	4500	1.25	2040	"	"	24100	50000	0.8	3900	1.45

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 0.55 kW



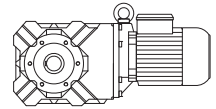
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
194	24.5	3.0	7.25	BK06-../D08MA4	15	790	-	235	20.5	3.6
145	33	2.4	9.71	"	"	880	-	174	27.5	2.9
120	40	2.0	11.67	"	"	930	-	144	33.5	2.4
92	51	1.55	15.29	"	"	1020	-	110	43	1.85
78	60	1.35	18.00	"	"	1080	-	94	50	1.6
65	72	1.1	21.54	"	"	1150	-	78	60	1.35
54	87	0.92	26.36	"	"	1230	-	64	73	1.1
118	40.5	2.8	11.93	BK10-../D08MA4	27	3100	-	141	34	3.4
83	56	2.4	16.92	"	"	3700	-	100	47	2.9
76	62	3.2	18.52	"	"	4300	-	91	51	3.9
62	76	2.6	22.65	"	"	4650	-	75	63	3.2
49	96	2.1	28.76	"	"	5200	-	59	80	2.5
41	115	1.75	34.25	"	"	5600	-	49.5	95	2.1
34.5	137	1.45	40.79	"	"	6000	-	41.5	113	1.75
29	161	1.25	48.96	"	"	6400	-	34.5	135	1.5
23	200	1.0	61.68	"	"	7000	-	27.5	169	1.2
19.5	235	0.85	72.31	"	"	7000	-	23.5	196	1.0
38.5	122	2.7	36.69	BK20-../D08MA4	36	5400	9000	46	102	3.2
33	143	2.3	42.70	"	"	5800	9000	39.5	119	2.8
27.5	169	1.95	51.22	"	"	6300	9000	33	141	2.3
23	200	1.65	61.30	"	"	6500	9000	27.5	169	1.95
18.5	245	1.35	76.79	"	"	7500	9000	22	210	1.55
16	285	1.15	88.12	"	"	8000	9000	19.5	230	1.45
13	345	0.91	108.6	"	"	8700	9000	15.5	290	1.1
11.5	385	0.86	124.2	BK20Z-../D08MA4	38	8700	9000	14	315	1.05
33	141	3.2	42.89	BK30-../D08MA4	42	7800	12000	39.5	118	3.8
28	165	2.7	50.27	"	"	8300	12000	33.5	137	3.3
24	192	2.3	59.27	"	"	8900	12000	28.5	162	2.8
20	225	2.0	71.56	"	"	9700	12000	23.5	194	2.3
16	280	1.6	88.38	"	"	10600	12000	19.5	230	1.95
14	315	1.45	102.4	"	"	11200	12000	16.5	270	1.65
11.5	385	1.15	123.9	BK30Z-../D08MA4	45	11200	12000	14	315	1.45
9.7	450	1.0	145.1	"	"	11200	12000	12	365	1.25
17	265	2.9	84.36	BK40-../D08MA4	63	10700	17000	20	225	3.5
13.5	330	2.4	104.0	"	"	11700	17000	16.5	270	2.9
12	370	2.1	118.2	BK40Z-../D08MA4	67	11700	17000	14.5	305	2.6
9.8	450	1.75	143.0	"	"	11700	17000	12	365	2.1
8.3	520	1.5	169.0	"	"	11700	17000	10	435	1.8
6.7	640	1.2	211.5	"	"	11700	17000	8.0	530	1.45
5.7	740	1.05	246.6	"	"	11700	17000	6.9	610	1.3
4.9	860	0.8	289.8	"	"	11700	17000	5.8	730	0.94
12.5	355	3.0	115.4	BK50Z-../D08MA4	96	14100	26000	15	295	3.6
9.2	470	2.2	153.3	"	"	14100	26000	11	395	2.7
6.8	630	1.65	206.8	"	"	14100	26000	8.2	520	2.0
5.3	800	1.3	264.5	"	"	14100	26000	6.4	660	1.6
4.3	980	1.05	328.2	"	"	14100	26000	5.2	810	1.25
3.1	1290	0.89	465.1	BK50G10-../D08MA4	100	14100	26000	3.7	1080	1.05
2.8	1420	0.81	513.4	"	"	14100	26000	3.3	1210	0.95
6.9	760	3.0	205.0	BK60Z-../D08MA4	119	16600	34000	8.2	640	3.6
5.9	890	2.6	239.7	"	"	16600	34000	7.1	730	3.2
5.3	990	2.3	268.2	"	"	16600	34000	6.3	830	2.8
4.5	1160	2.0	317.7	"	"	16600	34000	5.3	990	2.3
4.0	1310	1.75	355.5	"	"	16600	34000	4.8	1090	2.1
3.5	1500	1.55	411.5	"	"	16600	34000	4.1	1280	1.8
3.1	1690	1.35	460.4	"	"	16600	34000	3.7	1410	1.65
2.9	1810	1.25	498.0	"	"	16600	34000	3.4	1540	1.5
2.6	2000	1.15	557.2	"	"	16600	34000	3.1	1690	1.35
2.3	2000	1.25	621.5	BK60G20-../D08MA4	126	16600	34000	2.8	1610	1.55
1.9	2400	1.05	752.1	"	"	16600	34000	2.3	1960	1.3
1.6	2900	0.86	887.8	"	"	16600	34000	1.9	2400	1.05



# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

**P = 0.55 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
3.3	1590	3.3	432.1	<b>BK70Z-../D08MA4</b>	207	24100	50000	3.9	1340	3.9
2.8	1870	2.8	501.8	"	"	24100	50000	3.4	1540	3.4
2.5	2100	2.5	570.8	"	"	24100	50000	3.0	1750	3.0
2.2	2350	2.2	644.9	"	"	24100	50000	2.7	1940	2.7
2.0	2600	2.0	733.6	"	"	24100	50000	2.3	2250	2.3
1.7	2700	2.1	847.7	<b>BK70G20-../D08MA4</b>	205	24100	50000	2.0	2250	2.5
1.5	3050	1.85	964.6	"	"	24100	50000	1.8	2500	2.3
1.3	3600	1.6	1139	"	"	24100	50000	1.5	3050	1.85
1.1	4350	1.3	1280	"	"	24100	50000	1.4	3350	1.7
1.0	4800	1.2	1457	"	"	24100	50000	1.2	3900	1.45
1.1	3750	3.1	1307	<b>BK80G40-../D08MA4</b>	347	30000	75000	1.3	3000	3.8
1.0	4050	2.8	1425	"	"	30000	75000	1.2	3150	3.7
0.9	4600	2.5	1583	"	"	30000	75000	1.1	3550	3.2
0.8	5200	2.2	1775	"	"	30000	75000	0.95	4200	2.7
0.65	6600	1.75	2205	"	"	30000	75000	0.8	5100	2.3
0.6	7300	1.6	2449	"	"	30000	75000	0.7	6000	1.9
0.5	9000	1.3	2811	"	"	30000	75000	0.6	7200	1.6
0.45	10200	1.15	3120	"	"	30000	75000	0.55	8000	1.45
0.55	7400	2.5	2764	<b>BK90G50-../D08MA4</b>	620	49400	120000	0.65	5900	3.1
0.46	9300	2.0	3065	"	"	49400	120000	0.55	7400	2.5
0.39	11300	1.65	3672	"	"	49400	120000	0.46	9300	2.0
0.35	12900	1.45	4070	"	"	49400	120000	0.42	10300	1.8
0.29	16000	1.15	4952	"	"	49400	120000	0.34	13300	1.4
0.26	18000	1.05	5491	"	"	49400	120000	0.31	14800	1.25

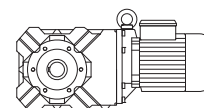
**P = 0.75 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
194	33.5	2.2	7.25	<b>BK06-../DSE08LA4</b>	16	790	-	235	28	2.6
145	45	1.8	9.71	"	"	880	-	174	37.5	2.1
120	54	1.5	11.67	"	"	930	-	144	45.5	1.75
92	70	1.15	15.29	"	"	1020	-	110	59	1.35
78	82	0.98	18.00	"	"	1080	-	94	68	1.2
65	99	0.81	21.54	"	"	1150	-	78	82	0.98
183	36	3.2	7.68	<b>BK10-../DSE08LA4</b>	28	2400	-	220	29.5	3.9
149	44	2.6	9.40	"	"	2700	-	179	36.5	3.2
118	55	2.1	11.93	"	"	3100	-	141	46.5	2.5
97	66	3.0	14.50	"	"	3900	-	116	55	3.6
83	77	1.75	16.92	"	"	3700	-	100	64	2.1
76	84	2.4	18.52	"	"	4300	-	91	70	2.9
62	103	1.95	22.65	"	"	4650	-	75	85	2.4
49	131	1.55	28.76	"	"	5200	-	59	109	1.85
41	157	1.25	34.25	"	"	5600	-	49.5	130	1.55
34.5	186	1.1	40.79	"	"	6000	-	41.5	155	1.3
29	215	0.93	48.96	"	"	6400	-	34.5	184	1.1
81	80	2.9	17.42	<b>BK20-../DSE08LA4</b>	38	3250	9000	97	67	3.4
58	111	3.0	24.29	"	"	4500	9000	70	92	3.6
49	131	2.5	28.66	"	"	4850	9000	59	109	3.0
38.5	167	2.0	36.69	"	"	5400	9000	46	140	2.4
33	195	1.7	42.70	"	"	5800	9000	39.5	163	2.0
27.5	230	1.45	51.22	"	"	6300	9000	33	193	1.7
23	275	1.2	61.30	"	"	6500	9000	27.5	230	1.45
18.5	340	0.97	76.79	"	"	7500	9000	22	285	1.15
16	385	0.86	88.12	"	"	8000	9000	19.5	315	1.05
42	153	2.9	33.70	<b>BK30-../DSE08LA4</b>	44	7000	12000	50	128	3.5
33	193	2.3	42.89	"	"	7800	12000	39.5	161	2.8
28	225	2.0	50.27	"	"	8300	12000	33.5	188	2.4
24	260	1.75	59.27	"	"	8900	12000	28.5	220	2.0
20	310	1.45	71.56	"	"	9700	12000	23.5	265	1.7

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 0.75 kW

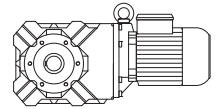


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
16	380	1.2	88.38	BK30-../DSE08LA4	"	10600	12000	19.5	315	1.45
14	430	1.05	102.4	"	"	11200	12000	16.5	365	1.25
11.5	520	0.87	123.9	BK30Z-../DSE08LA4	46	11200	12000	14	430	1.05
23.5	265	2.9	59.66	BK40-../DSE08LA4	64	9100	17000	28.5	220	3.5
20	310	2.5	70.11	"	"	9800	17000	24	255	3.1
17	365	2.1	84.36	"	"	10700	17000	20	310	2.5
13.5	450	1.75	104.0	"	"	11700	17000	16.5	365	2.1
12	500	1.55	118.2	BK40Z-../DSE08LA4	69	11700	17000	14.5	415	1.9
9.8	610	1.3	143.0	"	"	11700	17000	12	500	1.55
8.3	710	1.1	169.0	"	"	11700	17000	10	590	1.3
6.7	870	0.9	211.5	"	"	11700	17000	8.0	730	1.05
19	325	3.2	75.40	BK50-../DSE08LA4	93	12600	26000	22.5	275	3.8
15	410	2.6	95.29	"	"	14100	26000	18	340	3.1
12.5	485	2.2	115.4	BK50Z-../DSE08LA4	98	14100	26000	15	405	2.6
9.2	640	1.65	153.3	"	"	14100	26000	11	540	1.95
6.8	860	1.2	206.8	"	"	14100	26000	8.2	710	1.5
5.3	1090	0.96	264.5	"	"	14100	26000	6.4	900	1.15
9.2	770	3.0	153.7	BK60Z-../DSE08LA4	120	16600	34000	11	650	3.5
7.7	930	2.5	183.2	"	"	16600	34000	9.2	770	3.0
6.9	1030	2.2	205.0	"	"	16600	34000	8.2	870	2.6
5.9	1210	1.9	239.7	"	"	16600	34000	7.1	1000	2.3
5.3	1350	1.7	268.2	"	"	16600	34000	6.3	1130	2.0
4.5	1590	1.45	317.7	"	"	16600	34000	5.3	1350	1.7
4.0	1790	1.3	355.5	"	"	16600	34000	4.8	1490	1.55
3.5	2000	1.15	411.5	"	"	16600	34000	4.1	1740	1.3
3.1	2300	1.0	460.4	"	"	16600	34000	3.7	1930	1.2
2.9	2450	0.94	498.0	"	"	16600	34000	3.4	2100	1.1
2.6	2750	0.84	557.2	"	"	16600	34000	3.1	2300	1.0
2.3	2850	0.88	621.5	BK60G20-../DSE08LA4	128	16600	34000	2.8	2250	1.1
4.2	1700	3.1	333.6	BK70Z-../DSE08LA4	208	24100	50000	5.1	1400	3.7
3.7	1930	2.7	379.9	"	"	24100	50000	4.5	1590	3.3
3.3	2150	2.4	432.1	"	"	24100	50000	3.9	1830	2.8
2.8	2550	2.0	501.8	"	"	24100	50000	3.4	2100	2.5
2.5	2850	1.8	570.8	"	"	24100	50000	3.0	2350	2.2
2.2	3250	1.6	644.9	"	"	24100	50000	2.7	2650	1.95
2.0	3550	1.45	733.6	"	"	24100	50000	2.3	3100	1.7
1.7	3850	1.5	847.7	BK70G20-../DSE08LA4	206	24100	50000	2.0	3200	1.8
1.5	4350	1.3	964.6	"	"	24100	50000	1.8	3550	1.6
1.3	5000	1.15	1139	"	"	24100	50000	1.5	4300	1.35
1.1	6100	0.93	1280	"	"	24100	50000	1.4	4700	1.2
1.0	6700	0.85	1457	"	"	24100	50000	1.2	5500	1.05
1.5	3850	3.0	963.0	BK80G40-../DSE08LA4	348	30000	75000	1.8	3050	3.8
1.3	4450	2.6	1079	"	"	30000	75000	1.6	3450	3.3
1.1	5400	2.1	1307	"	"	30000	75000	1.3	4450	2.6
1.0	5900	1.95	1425	"	"	30000	75000	1.2	4750	2.4
0.9	6700	1.7	1583	"	"	30000	75000	1.1	5200	2.2
0.8	7600	1.5	1775	"	"	30000	75000	0.95	6200	1.85
0.65	9600	1.2	2205	"	"	30000	75000	0.8	7500	1.55
0.6	10400	1.1	2449	"	"	30000	75000	0.7	8700	1.3
0.9	6400	2.9	1579	BK90G50-../DSE08LA4	621	49400	120000	1.1	5000	3.7
0.8	7200	2.6	1803	"	"	49400	120000	0.95	5800	3.2
0.7	8300	2.2	2016	"	"	49400	120000	0.85	6500	2.8
0.55	10900	1.7	2764	"	"	49400	120000	0.65	8900	2.1
0.46	13400	1.4	3065	"	"	49400	120000	0.55	10900	1.7
0.39	16200	1.15	3672	"	"	49400	120000	0.46	13400	1.4
0.35	18300	1.0	4070	"	"	49400	120000	0.42	14900	1.25

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 1.1 kW

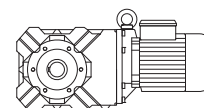


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
194	49.5	1.45	7.25	BK06-../DSE08XA4	18	790	-	235	41	1.8
145	66	1.2	9.71	"	"	880	-	174	55	1.45
120	80	1.0	11.67	"	"	930	-	144	67	1.2
320	30	3.2	4.44	BK10-../DSE08XA4	30	1890	-	380	25	3.8
235	41	2.6	6.02	"	"	2100	-	280	34.5	3.0
183	52	2.2	7.68	"	"	2400	-	220	43.5	2.6
149	64	1.8	9.40	"	"	2700	-	179	53	2.2
131	72	2.5	10.70	"	"	3500	-	158	59	3.1
118	81	1.4	11.93	"	"	3100	-	141	68	1.7
97	97	2.1	14.50	"	"	3900	-	116	81	2.5
83	113	1.2	16.92	"	"	3700	-	100	94	1.45
76	124	1.6	18.52	"	"	4300	-	91	103	1.95
62	152	1.3	22.65	"	"	4650	-	75	126	1.6
49	192	1.05	28.76	"	"	5200	-	59	160	1.25
41	230	0.87	34.25	"	"	5600	-	49.5	191	1.05
120	80	2.9	11.69	BK20-../DSE08XA4	39	2400	8800	144	67	3.4
95	99	3.3	14.75	"	"	3650	9000	114	82	4.0
81	118	1.95	17.42	"	"	3250	9000	97	98	2.4
73	129	2.6	19.39	"	"	4050	9000	87	108	3.1
58	163	2.0	24.29	"	"	4500	9000	70	135	2.4
49	192	1.7	28.66	"	"	4850	9000	59	160	2.1
38.5	245	1.35	36.69	"	"	5400	9000	46	205	1.6
33	285	1.15	42.70	"	"	5800	9000	39.5	235	1.4
27.5	335	0.99	51.22	"	"	6300	9000	33	280	1.2
23	405	0.81	61.30	"	"	6500	9000	27.5	335	0.99
68	140	2.3	20.85	BK30-../DSE08XA4	45	5000	12000	81	118	2.7
61	154	2.9	23.20	"	"	5900	12000	73	129	3.5
49	192	2.3	28.76	"	"	6500	12000	59	160	2.8
42	225	2.0	33.70	"	"	7000	12000	50	189	2.4
33	280	1.6	42.89	"	"	7800	12000	39.5	235	1.9
28	330	1.35	50.27	"	"	8300	12000	33.5	275	1.65
24	385	1.15	59.27	"	"	8900	12000	28.5	320	1.4
20	455	0.99	71.56	"	"	9700	12000	23.5	385	1.15
16	560	0.8	88.38	"	"	10600	12000	19.5	460	0.98
34.5	270	2.9	40.88	BK40-../DSE08XA4	65	7600	17000	41.5	225	3.5
27.5	335	2.3	51.18	"	"	8400	17000	33	280	2.8
23.5	390	2.0	59.66	"	"	9100	17000	28.5	320	2.4
20	455	1.7	70.11	"	"	9800	17000	24	380	2.1
17	530	1.45	84.36	"	"	10700	17000	20	455	1.7
13.5	660	1.2	104.0	"	"	11700	17000	16.5	540	1.45
12	740	1.05	118.2	BK40Z-../DSE08XA4	70	11700	17000	14.5	610	1.3
9.8	900	0.87	143.0	"	"	11700	17000	12	730	1.05
29.5	315	3.3	47.50	BK50-../DSE08XA4	94	10100	25700	35.5	260	4.0
23.5	390	2.7	60.76	"	"	11400	26000	28	330	3.2
19	480	2.2	75.40	"	"	12600	26000	22.5	405	2.6
15	600	1.75	95.29	"	"	14100	26000	18	500	2.1
12.5	710	1.5	115.4	BK50Z-../DSE08XA4	98	14100	26000	15	590	1.8
9.2	940	1.1	153.3	"	"	14100	26000	11	790	1.35
6.8	1260	0.83	206.8	"	"	14100	26000	8.2	1050	1.0
9.2	1140	2.0	153.7	BK60Z-../DSE08XA4	121	16600	34000	11	950	2.4
7.7	1360	1.7	183.2	"	"	16600	34000	9.2	1140	2.0
6.9	1520	1.5	205.0	"	"	16600	34000	8.2	1280	1.8
5.9	1780	1.3	239.7	"	"	16600	34000	7.1	1470	1.55
5.3	1980	1.15	268.2	"	"	16600	34000	6.3	1660	1.4
4.5	2300	1.0	317.7	"	"	16600	34000	5.3	1980	1.15
4.0	2600	0.88	355.5	"	"	16600	34000	4.8	2150	1.05
6.2	1690	3.1	226.2	BK70Z-../DSE08XA4	210	24100	50000	7.5	1400	3.7
5.5	1910	2.7	257.3	"	"	24100	50000	6.6	1590	3.3
4.8	2150	2.4	293.3	"	"	24100	50000	5.8	1810	2.9

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 1.1 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
4.2	2500	2.1	333.6	BK70Z-../DSE08XA4	"	24100	50000	5.1	2050	2.5
3.7	2800	1.85	379.9	"	"	24100	50000	4.5	2300	2.3
3.3	3150	1.65	432.1	"	"	24100	50000	3.9	2650	1.95
2.8	3750	1.4	501.8	"	"	24100	50000	3.4	3050	1.7
2.5	4200	1.25	570.8	"	"	24100	50000	3.0	3500	1.5
2.2	4750	1.1	644.9	"	"	24100	50000	2.7	3850	1.35
2.0	5200	1.0	733.6	"	"	24100	50000	2.3	4550	1.15
1.7	5800	0.98	847.7	BK70G20-../DSE08XA4	207	24100	50000	2.0	4850	1.2
1.5	6500	0.88	964.6	"	"	24100	50000	1.8	5400	1.05
2.4	3600	3.2	607.8	BK80G40-../DSE08XA4	349	30000	75000	2.8	3000	3.8
2.1	4150	2.8	680.9	"	"	30000	75000	2.5	3350	3.4
1.9	4700	2.4	756.3	"	"	30000	75000	2.3	3700	3.1
1.7	5200	2.2	847.2	"	"	30000	75000	2.0	4300	2.7
1.5	6100	1.9	963.0	"	"	30000	75000	1.8	4900	2.3
1.3	7000	1.65	1079	"	"	30000	75000	1.6	5500	2.1
1.1	8500	1.35	1307	"	"	30000	75000	1.3	7000	1.65
1.0	9300	1.25	1425	"	"	30000	75000	1.2	7500	1.55
0.9	10400	1.1	1583	"	"	30000	75000	1.1	8300	1.4
1.4	6100	3.0	1008	BK90G50-../DSE08XA4	622	49400	120000	1.7	4800	3.9
1.3	6500	2.8	1127	"	"	49400	120000	1.5	5400	3.4
1.1	8300	2.2	1363	"	"	49400	120000	1.3	6800	2.7
0.9	10100	1.85	1579	"	"	49400	120000	1.1	8000	2.3
0.8	11400	1.6	1803	"	"	49400	120000	0.95	9300	2.0
0.7	13000	1.4	2016	"	"	49400	120000	0.85	10400	1.8
0.55	16900	1.1	2764	"	"	49400	120000	0.65	14000	1.3

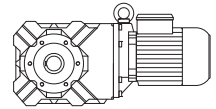
P = 1.5 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
320	41	2.3	4.44	BK10-../DSE09LA4	36	1890	-	390	33.5	2.8
240	54	1.95	6.02	"	"	2100	-	285	46	2.3
185	71	1.6	7.68	"	"	2400	-	225	58	2.0
152	86	1.35	9.40	"	"	2700	-	182	72	1.6
133	96	1.9	10.70	"	"	3500	-	160	80	2.3
120	109	1.05	11.93	"	"	3100	-	144	91	1.25
98	131	1.55	14.50	"	"	3900	-	118	109	1.85
84	153	0.89	16.92	"	"	3700	-	102	126	1.1
77	167	1.2	18.52	"	"	4300	-	93	138	1.45
63	200	1.0	22.65	"	"	4650	-	76	169	1.2
180	73	3.2	7.91	BK20-../DSE09LA4	46	1330	7600	220	59	3.9
144	91	2.5	9.91	"	"	1910	8300	173	76	3.0
128	100	3.0	11.14	"	"	3300	8100	154	83	3.6
122	108	2.1	11.69	"	"	2400	8800	147	89	2.6
97	132	2.5	14.75	"	"	3650	9000	116	111	3.0
82	158	1.45	17.42	"	"	3250	9000	99	131	1.75
74	174	1.9	19.39	"	"	4050	9000	89	144	2.3
59	215	1.55	24.29	"	"	4500	9000	71	181	1.8
50	255	1.3	28.66	"	"	4850	9000	60	210	1.55
39	330	1.0	36.69	"	"	5400	9000	47	270	1.2
33.5	380	0.87	42.70	"	"	5800	9000	40.5	315	1.05
120	109	2.9	11.93	BK30-../DSE09LA4	52	3650	12000	144	91	3.5
102	127	2.5	13.98	"	"	4050	12000	123	105	3.0
80	161	2.8	17.95	"	"	5300	12000	96	134	3.4
69	188	1.7	20.85	"	"	5000	12000	83	157	2.0
62	205	2.2	23.20	"	"	5900	12000	74	174	2.6
49.5	260	1.75	28.76	"	"	6500	12000	60	210	2.1
42.5	300	1.5	33.70	"	"	7000	12000	51	250	1.8
33.5	380	1.2	42.89	"	"	7800	12000	40	315	1.45
28.5	440	1.0	50.27	"	"	8300	12000	34.5	365	1.25
24	520	0.87	59.27	"	"	8900	12000	29	430	1.05

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 1.5 kW

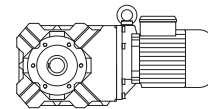


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
50	255	3.1	28.59	BK40-../DSE09LA4	72	6300	17000	60	210	3.7
41.5	310	2.5	34.61	"	"	6900	17000	49.5	260	3.0
35	365	2.1	40.88	"	"	7600	17000	42	305	2.6
28	450	1.75	51.18	"	"	8400	17000	33.5	375	2.1
24	520	1.5	59.66	"	"	9100	17000	29	430	1.8
20.5	600	1.3	70.11	"	"	9800	17000	24.5	500	1.55
17	730	1.05	84.36	"	"	10700	17000	20.5	600	1.3
14	860	0.91	104.0	"	"	11700	17000	16.5	730	1.05
12.5	970	0.8	118.2	BK40Z-../DSE09LA4	76	11700	17000	14.5	830	0.94
40.5	315	3.3	35.21	BK50-../DSE09LA4	100	8700	23100	49	260	4.0
30	420	2.5	47.50	"	"	10100	25700	36	350	3.0
23.5	530	2.0	60.76	"	"	11400	26000	28.5	440	2.4
19	650	1.6	75.40	"	"	12600	26000	23	540	1.95
15	820	1.3	95.29	"	"	14100	26000	18	680	1.55
12.5	970	1.1	115.4	BK50Z-../DSE09LA4	105	14100	26000	15	810	1.3
9.3	1270	0.83	153.3	"	"	14100	26000	11.5	1030	1.0
18.5	770	3.0	78.13	BK60-../DSE09LA4	109	11900	34000	22	650	3.5
16.5	860	2.7	87.41	"	"	12900	34000	20	710	3.2
14.5	980	2.3	101.2	"	"	13900	34000	17	840	2.7
13	1100	2.1	113.2	"	"	15000	34000	15.5	920	2.5
12	1190	1.95	122.5	"	"	15500	34000	14	1020	2.3
10.5	1360	1.7	137.0	"	"	16600	34000	12.5	1140	2.0
9.3	1540	1.5	153.7	BK60Z-../DSE09LA4	128	16600	34000	11.5	1240	1.85
7.8	1830	1.25	183.2	"	"	16600	34000	9.4	1520	1.5
7.0	2000	1.15	205.0	"	"	16600	34000	8.4	1700	1.35
6.0	2350	0.98	239.7	"	"	16600	34000	7.2	1980	1.15
5.3	2700	0.85	268.2	"	"	16600	34000	6.4	2200	1.05
8.1	1760	3.0	175.7	BK70-../DSE09LA4	195	24100	50000	9.8	1460	3.6
7.5	1910	2.7	190.4	BK70Z-../DSE09LA4	216	24100	50000	9.0	1590	3.3
6.3	2250	2.3	226.2	"	"	24100	50000	7.6	1880	2.8
5.6	2550	2.0	257.3	"	"	24100	50000	6.7	2100	2.5
4.9	2900	1.8	293.3	"	"	24100	50000	5.9	2400	2.2
4.3	3300	1.6	333.6	"	"	24100	50000	5.2	2750	1.9
3.8	3750	1.4	379.9	"	"	24100	50000	4.6	3100	1.7
3.3	4300	1.2	432.1	"	"	24100	50000	4.0	3550	1.45
2.9	4900	1.05	501.8	"	"	24100	50000	3.5	4050	1.3
2.5	5700	0.91	570.8	"	"	24100	50000	3.0	4750	1.1
2.3	6200	0.84	644.9	"	"	24100	50000	2.7	5300	0.98
3.7	3850	3.0	389.0	BK80Z-../DSE09LA4	345	30000	75000	4.4	3250	3.5
3.3	4300	2.7	435.7	"	"	30000	75000	4.0	3550	3.2
2.9	4900	2.3	499.5	"	"	30000	75000	3.5	4050	2.8
2.6	5500	2.1	559.5	"	"	30000	75000	3.1	4600	2.5
2.4	5200	2.2	607.8	BK80G40-../DSE09LA4	356	30000	75000	2.9	4150	2.8
2.1	5900	1.95	680.9	"	"	30000	75000	2.6	4650	2.5
1.9	6700	1.7	756.3	"	"	30000	75000	2.3	5400	2.1
1.7	7500	1.55	847.2	"	"	30000	75000	2.1	5900	1.95
1.5	8600	1.35	963.0	"	"	30000	75000	1.8	7000	1.65
1.4	9200	1.25	1079	"	"	30000	75000	1.6	7900	1.45
1.1	12000	0.96	1307	"	"	30000	75000	1.4	9200	1.25
1.0	13100	0.88	1425	"	"	30000	75000	1.2	10700	1.05
2.3	6200	3.0	637.7	BK90Z-../DSE09LA4	618	49400	120000	2.7	5300	3.5
2.0	7100	2.6	713.5	"	"	49400	120000	2.4	5900	3.1
1.8	6600	2.8	821.0	BK90G50-../DSE09LA4	629	49400	120000	2.1	5400	3.4
1.7	7200	2.6	882.3	"	"	49400	120000	2.0	5900	3.1
1.5	8100	2.3	1008	"	"	49400	120000	1.7	7000	2.6
1.3	9500	1.95	1127	"	"	49400	120000	1.6	7400	2.5
1.1	11800	1.55	1363	"	"	49400	120000	1.3	9800	1.9
0.9	14400	1.3	1579	"	"	49400	120000	1.1	11500	1.6
0.8	16100	1.15	1803	"	"	49400	120000	0.95	13300	1.4
0.75	17100	1.1	2016	"	"	49400	120000	0.85	14900	1.25

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 2.2 kW

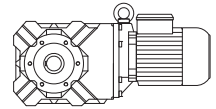


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
320	60	1.6	4.44	BK10-../DSE09XA4	40	1890	-	390	49.5	1.9
240	80	1.3	6.02	"	"	2100	-	285	67	1.55
185	104	1.1	7.68	"	"	2400	-	225	85	1.35
152	127	0.91	9.40	"	"	2700	-	182	106	1.1
133	142	1.25	10.70	"	"	3500	-	160	118	1.55
98	192	1.05	14.50	"	"	3900	-	118	160	1.25
77	245	0.82	18.52	"	"	4300	-	93	200	1.0
315	61	3.2	4.54	BK20-../DSE09XA4	50	520	6100	380	50	3.9
240	80	2.7	6.02	"	"	580	6800	285	67	3.3
180	107	2.2	7.91	"	"	1330	7600	220	87	2.7
144	134	1.7	9.91	"	"	1910	8300	173	111	2.1
128	147	2.0	11.14	"	"	3300	8100	154	122	2.5
122	158	1.45	11.69	"	"	2400	8800	147	131	1.75
97	194	1.7	14.75	"	"	3650	9000	116	163	2.0
82	230	1.0	17.42	"	"	3250	9000	99	193	1.2
74	255	1.3	19.39	"	"	4050	9000	89	210	1.55
59	320	1.05	24.29	"	"	4500	9000	71	265	1.25
50	375	0.88	28.66	"	"	4850	9000	60	315	1.05
305	63	3.1	4.73	BK30-../DSE09XA4	56	1550	8800	365	52	3.7
240	80	2.7	6.02	"	"	1690	9600	285	67	3.2
191	101	2.7	7.45	"	"	2200	10400	230	84	3.2
148	130	2.5	9.63	"	"	3150	11500	178	108	3.0
125	151	2.7	11.39	"	"	4150	11000	151	125	3.3
120	161	2.0	11.93	"	"	3650	12000	144	134	2.4
102	187	1.7	13.98	"	"	4050	12000	123	155	2.1
98	192	2.3	14.50	"	"	4900	12000	118	160	2.8
80	235	1.9	17.95	"	"	5300	12000	96	196	2.3
69	275	1.15	20.85	"	"	5000	12000	83	230	1.4
62	300	1.5	23.20	"	"	5900	12000	74	255	1.75
49.5	380	1.2	28.76	"	"	6500	12000	60	315	1.45
42.5	440	1.0	33.70	"	"	7000	12000	51	370	1.2
33.5	550	0.82	42.89	"	"	7800	12000	40	465	0.97
120	161	3.1	11.86	BK40-../DSE09XA4	76	1770	12200	145	133	3.7
79	235	3.3	18.05	"	"	4900	15300	95	199	3.9
64	295	2.6	22.44	"	"	5500	16500	77	245	3.2
50	375	2.1	28.59	"	"	6300	17000	60	315	2.5
41.5	455	1.7	34.61	"	"	6900	17000	49.5	380	2.1
35	540	1.45	40.88	"	"	7600	17000	42	450	1.75
28	660	1.2	51.18	"	"	8400	17000	33.5	550	1.4
24	770	1.0	59.66	"	"	9100	17000	29	630	1.25
20.5	890	0.88	70.11	"	"	9800	17000	24.5	740	1.05
80	235	3.1	17.92	BK50-../DSE09XA4	104	4600	16800	96	199	3.6
54	350	3.0	26.51	"	"	7800	21200	65	290	3.6
40.5	465	2.3	35.21	"	"	8700	23100	49	385	2.7
30	620	1.7	47.50	"	"	10100	25700	36	510	2.1
23.5	780	1.35	60.76	"	"	11400	26000	28.5	640	1.65
19	960	1.1	75.40	"	"	12600	26000	23	790	1.35
15	1200	0.88	95.29	"	"	14100	26000	18	1000	1.05
28.5	730	3.2	50.40	BK60-../DSE09XA4	113	9100	29800	34	610	3.8
24.5	850	2.7	58.95	"	"	9900	31500	29.5	710	3.2
22	950	2.4	65.95	"	"	10900	33000	26	800	2.9
18.5	1130	2.0	78.13	"	"	11900	34000	22	950	2.4
16.5	1270	1.8	87.41	"	"	12900	34000	20	1050	2.2
14.5	1440	1.6	101.2	"	"	13900	34000	17	1230	1.85
13	1610	1.45	113.2	"	"	15000	34000	15.5	1350	1.7
12	1750	1.3	122.5	"	"	15500	34000	14	1500	1.55
10.5	2000	1.15	137.0	"	"	16600	34000	12.5	1680	1.35
9.3	2250	1.0	153.7	BK60Z-../DSE09XA4	132	16600	34000	11.5	1820	1.25
7.8	2650	0.87	183.2	"	"	16600	34000	9.4	2200	1.05
12	1750	3.0	120.2	BK70-../DSE09XA4	199	18600	50000	14.5	1440	3.6
10.5	2000	2.6	136.7	"	"	20700	50000	13	1610	3.2

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

**P = 2.2 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.2	2250	2.3	154.4	BK70-../DSE09XA4	"	21900	50000	11.5	1820	2.9
8.1	2550	2.0	175.7	"	"	24100	50000	9.8	2100	2.5
7.5	2800	1.85	190.4	BK70Z-../DSE09XA4	220	24100	50000	9.0	2300	2.3
6.3	3300	1.6	226.2	"	"	24100	50000	7.6	2750	1.9
5.6	3750	1.4	257.3	"	"	24100	50000	6.7	3100	1.7
4.9	4250	1.2	293.3	"	"	24100	50000	5.9	3550	1.45
4.3	4850	1.05	333.6	"	"	24100	50000	5.2	4000	1.3
3.8	5500	0.95	379.9	"	"	24100	50000	4.6	4550	1.15
3.3	6300	0.83	432.1	"	"	24100	50000	4.0	5200	1.0
5.7	3650	3.2	253.3	BK80Z-../DSE09XA4	349	30000	75000	6.8	3050	3.8
4.8	4350	2.6	300.6	"	"	30000	75000	5.7	3650	3.2
4.3	4850	2.4	336.7	"	"	30000	75000	5.1	4100	2.8
3.7	5600	2.1	389.0	"	"	30000	75000	4.4	4750	2.4
3.3	6300	1.85	435.7	"	"	30000	75000	4.0	5200	2.2
2.9	7200	1.6	499.5	"	"	30000	75000	3.5	6000	1.9
2.6	8000	1.45	559.5	"	"	30000	75000	3.1	6700	1.7
2.4	8000	1.45	607.8	BK80G40-../DSE09XA4	360	30000	75000	2.9	6400	1.8
2.1	9100	1.25	680.9	"	"	30000	75000	2.6	7200	1.6
1.9	10200	1.15	756.3	"	"	30000	75000	2.3	8300	1.4
1.7	11400	1.0	847.2	"	"	30000	75000	2.1	9000	1.3
1.5	13100	0.88	963.0	"	"	30000	75000	1.8	10700	1.05
1.4	13900	0.83	1079	"	"	30000	75000	1.6	12100	0.95
3.7	5600	3.3	389.1	BK90Z-../DSE09XA4	622	49400	120000	4.4	4750	3.9
3.3	6300	2.9	435.3	"	"	49400	120000	4.0	5200	3.6
2.9	7200	2.6	499.2	"	"	49400	120000	3.5	6000	3.1
2.6	8000	2.3	558.5	"	"	49400	120000	3.1	6700	2.8
2.3	9100	2.0	637.7	"	"	49400	120000	2.7	7700	2.4
2.0	10500	1.75	713.5	"	"	49400	120000	2.4	8700	2.1
1.8	10300	1.8	821.0	BK90G50-../DSE09XA4	633	49400	120000	2.1	8600	2.2
1.7	11100	1.65	882.3	"	"	49400	120000	2.0	9300	2.0
1.5	12600	1.45	1008	"	"	49400	120000	1.7	11000	1.7
1.3	14600	1.25	1127	"	"	49400	120000	1.6	11600	1.6
1.1	17800	1.05	1363	"	"	49400	120000	1.3	14900	1.25

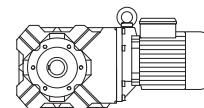
**P = 3 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
305	86	2.3	4.73	BK30-../DSE11SA4	59	1550	8800	365	72	2.7
240	109	1.95	6.02	"	"	1690	9600	285	92	2.3
191	138	1.95	7.45	"	"	2200	10400	230	114	2.4
148	178	1.8	9.63	"	"	3150	11500	178	148	2.2
125	205	2.0	11.39	"	"	4150	11000	151	170	2.4
120	215	1.5	11.93	"	"	3650	12000	144	183	1.75
102	255	1.25	13.98	"	"	4050	12000	123	210	1.5
98	260	1.75	14.50	"	"	4900	12000	118	215	2.1
80	320	1.4	17.95	"	"	5300	12000	96	265	1.7
62	415	1.1	23.20	"	"	5900	12000	74	345	1.3
49.5	520	0.87	28.76	"	"	6500	12000	60	425	1.05
153	172	2.9	9.31	BK40-../DSE11SA4	84	1040	11200	184	143	3.4
120	215	2.3	11.86	"	"	1770	12200	145	181	2.7
98	260	3.0	14.50	"	"	4500	14300	118	215	3.6
79	325	2.4	18.05	"	"	4900	15300	95	270	2.9
64	400	1.95	22.44	"	"	5500	16500	77	330	2.4
50	510	1.55	28.59	"	"	6300	17000	60	425	1.85
41.5	620	1.25	34.61	"	"	6900	17000	49.5	520	1.5
35	730	1.05	40.88	"	"	7600	17000	42	610	1.3
80	325	2.2	17.92	BK50-../DSE11SA4	114	4600	16800	96	270	2.7
74	345	3.0	19.33	"	"	6900	19200	89	285	3.7
54	475	2.2	26.51	"	"	7800	21200	65	395	2.7
40.5	630	1.65	35.21	"	"	8700	23100	49	520	2.0

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 3 kW



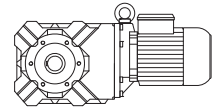
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
30	840	1.25	47.50	<b>BK50-../DSE11SA4</b>	"	10100	25700	36	700	1.5
23.5	1070	0.98	60.76	"	"	11400	26000	28.5	880	1.2
19	1310	0.8	75.40	"	"	12600	26000	23	1080	0.97
38	750	3.1	37.80	<b>BK60-../DSE11SA4</b>	124	7300	26500	45.5	620	3.7
32	890	2.6	45.05	"	"	8200	28300	38	750	3.1
28.5	1000	2.3	50.40	"	"	9100	29800	34	840	2.7
24.5	1160	2.0	58.95	"	"	9900	31500	29.5	970	2.4
22	1300	1.75	65.95	"	"	10900	33000	26	1100	2.1
18.5	1540	1.5	78.13	"	"	11900	34000	22	1300	1.75
16.5	1730	1.35	87.41	"	"	12900	34000	20	1430	1.6
14.5	1970	1.15	101.2	"	"	13900	34000	17	1680	1.35
13	2200	1.05	113.2	"	"	15000	34000	15.5	1840	1.25
12	2350	0.98	122.5	"	"	15500	34000	14	2000	1.15
10.5	2700	0.85	137.0	"	"	16600	34000	12.5	2250	1.0
18	1590	3.3	79.89	<b>BK70-../DSE11SA4</b>	203	14300	47600	21.5	1330	3.9
16	1790	2.9	90.96	"	"	15300	49900	19	1500	3.5
14	2000	2.6	103.5	"	"	17200	50000	17	1680	3.1
12	2350	2.2	120.2	"	"	18600	50000	14.5	1970	2.6
10.5	2700	1.95	136.7	"	"	20700	50000	13	2200	2.4
9.2	3100	1.7	154.4	"	"	21900	50000	11.5	2450	2.1
8.1	3500	1.5	175.7	"	"	24100	50000	9.8	2900	1.8
7.5	3800	1.35	190.4	<b>BK70Z-../DSE11SA4</b>	230	24100	50000	9.0	3150	1.65
6.3	4500	1.15	226.2	"	"	24100	50000	7.6	3750	1.4
5.6	5100	1.0	257.3	"	"	24100	50000	6.7	4250	1.2
4.9	5800	0.9	293.3	"	"	24100	50000	5.9	4850	1.05
8.3	3450	3.0	171.5	<b>BK80-../DSE11SA4</b>	318	30000	75000	10	2850	3.7
8.0	3550	3.2	177.6	<b>BK80Z-../DSE11SA4</b>	360	30000	75000	9.7	2950	3.9
7.2	3950	2.9	198.9	"	"	30000	75000	8.6	3300	3.5
6.3	4500	2.6	226.1	"	"	30000	75000	7.6	3750	3.1
5.7	5000	2.3	253.3	"	"	30000	75000	6.8	4200	2.7
4.8	5900	1.95	300.6	"	"	30000	75000	5.7	5000	2.3
4.3	6600	1.75	336.7	"	"	30000	75000	5.1	5600	2.1
3.7	7700	1.5	389.0	"	"	30000	75000	4.4	6500	1.75
3.3	8600	1.35	435.7	"	"	30000	75000	4.0	7100	1.6
2.9	9800	1.15	499.5	"	"	30000	75000	3.5	8100	1.4
2.6	11000	1.05	559.5	"	"	30000	75000	3.1	9200	1.25
2.4	11100	1.05	607.8	<b>BK80G40-../DSE11SA4</b>	368	30000	75000	2.9	9100	1.25
2.1	12800	0.9	680.9	"	"	30000	75000	2.6	10100	1.15
1.9	14200	0.81	756.3	"	"	30000	75000	2.3	11600	0.99
4.9	5800	3.2	295.6	<b>BK90Z-../DSE11SA4</b>	626	49400	120000	5.8	4900	3.8
4.3	6600	2.8	330.7	"	"	49400	120000	5.2	5500	3.4
3.7	7700	2.4	389.1	"	"	49400	120000	4.4	6500	2.8
3.3	8600	2.2	435.3	"	"	49400	120000	4.0	7100	2.6
2.9	9800	1.9	499.2	"	"	49400	120000	3.5	8100	2.3
2.6	11000	1.7	558.5	"	"	49400	120000	3.1	9200	2.0
2.3	12400	1.5	637.7	"	"	49400	120000	2.7	10600	1.75
2.0	14300	1.3	713.5	"	"	49400	120000	2.4	11900	1.55
1.8	14500	1.3	821.0	<b>BK90G50-../DSE11SA4</b>	642	49400	120000	2.1	12300	1.5
1.7	15600	1.2	882.3	"	"	49400	120000	2.0	13100	1.4
1.5	17700	1.05	1008	"	"	49400	120000	1.7	15500	1.2
1.3	20500	0.9	1127	"	"	49400	120000	1.6	16300	1.15



# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 4 kW

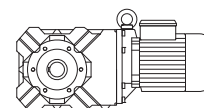


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
305	115	1.7	4.73	BK30-../DSE11MA4	65	1550	8800	365	96	2.0
240	146	1.45	6.02	"	"	1690	9600	285	123	1.7
191	184	1.45	7.45	"	"	2200	10400	230	152	1.75
148	235	1.35	9.63	"	"	3150	11500	178	197	1.6
125	275	1.5	11.39	"	"	4150	11000	151	225	1.85
120	290	1.1	11.93	"	"	3650	12000	144	240	1.35
102	340	0.94	13.98	"	"	4050	12000	123	280	1.15
98	350	1.3	14.50	"	"	4900	12000	118	290	1.55
80	425	1.05	17.95	"	"	5300	12000	96	355	1.25
62	550	0.82	23.20	"	"	5900	12000	74	460	0.98
240	146	3.2	6.02	BK40-../DSE11MA4	90	470	9800	285	123	3.9
190	184	2.7	7.49	"	"	750	10500	230	152	3.2
153	225	2.2	9.31	"	"	1040	11200	184	191	2.6
128	265	2.7	11.17	"	"	4100	13100	154	220	3.3
120	290	1.7	11.86	"	"	1770	12200	145	240	2.1
98	350	2.2	14.50	"	"	4500	14300	118	290	2.7
79	435	1.8	18.05	"	"	4900	15300	95	360	2.2
64	530	1.45	22.44	"	"	5500	16500	77	445	1.75
50	680	1.15	28.59	"	"	6300	17000	60	570	1.35
41.5	820	0.95	34.61	"	"	6900	17000	49.5	690	1.15
35	980	0.8	40.88	"	"	7600	17000	42	810	0.96
142	245	3.3	10.00	BK50-../DSE11MA4	120	1220	13200	171	205	4.0
102	335	3.1	13.95	"	"	6100	17400	123	275	3.8
94	365	2.9	15.19	"	"	6300	18000	113	300	3.5
80	430	1.7	17.92	"	"	4600	16800	96	360	2.0
74	460	2.3	19.33	"	"	6900	19200	89	385	2.7
54	630	1.65	26.51	"	"	7800	21200	65	520	2.0
40.5	840	1.25	35.21	"	"	8700	23100	49	700	1.5
30	1130	0.93	47.50	"	"	10100	25700	36	940	1.1
52	730	3.2	27.36	BK60-../DSE11MA4	130	5600	23200	63	600	3.8
42.5	890	2.6	33.78	"	"	6500	25200	51	740	3.1
38	1000	2.3	37.80	"	"	7300	26500	45.5	830	2.8
32	1190	1.95	45.05	"	"	8200	28300	38	1000	2.3
28.5	1340	1.7	50.40	"	"	9100	29800	34	1120	2.1
24.5	1550	1.5	58.95	"	"	9900	31500	29.5	1290	1.8
22	1730	1.35	65.95	"	"	10900	33000	26	1460	1.6
18.5	2050	1.1	78.13	"	"	11900	34000	22	1730	1.35
16.5	2300	1.0	87.41	"	"	12900	34000	20	1910	1.2
14.5	2600	0.88	101.2	"	"	13900	34000	17	2200	1.05
23.5	1620	3.2	61.60	BK70-../DSE11MA4	209	11500	42800	28	1360	3.8
20.5	1860	2.8	70.23	"	"	12500	44800	24.5	1550	3.4
18	2100	2.5	79.89	"	"	14300	47600	21.5	1770	2.9
16	2350	2.2	90.96	"	"	15300	49900	19	2000	2.6
14	2700	1.95	103.5	"	"	17200	50000	17	2200	2.4
12	3150	1.65	120.2	"	"	18600	50000	14.5	2600	2.0
10.5	3600	1.45	136.7	"	"	20700	50000	13	2900	1.8
9.2	4150	1.25	154.4	"	"	21900	50000	11.5	3300	1.6
8.1	4700	1.1	175.7	"	"	24100	50000	9.8	3850	1.35
7.5	5000	1.05	190.4	BK70Z-../DSE11MA4	236	24100	50000	9.0	4200	1.25
6.3	6000	0.87	226.2	"	"	24100	50000	7.6	5000	1.05
11	3450	3.0	131.6	BK80-../DSE11MA4	324	24900	75000	13	2900	3.6
9.3	4100	2.6	153.1	"	"	27200	75000	11.5	3300	3.2
8.3	4600	2.3	171.5	"	"	30000	75000	10	3800	2.8
8.0	4750	2.4	177.6	BK80Z-../DSE11MA4	366	30000	75000	9.7	3900	2.9
7.2	5300	2.2	198.9	"	"	30000	75000	8.6	4400	2.6
6.3	6000	1.9	226.1	"	"	30000	75000	7.6	5000	2.3
5.7	6700	1.7	253.3	"	"	30000	75000	6.8	5600	2.1
4.8	7900	1.45	300.6	"	"	30000	75000	5.7	6700	1.7
4.3	8800	1.3	336.7	"	"	30000	75000	5.1	7400	1.55
3.7	10300	1.1	389.0	"	"	30000	75000	4.4	8600	1.35
3.3	11500	1.0	435.7	"	"	30000	75000	4.0	9500	1.2
2.9	13100	0.88	499.5	"	"	30000	75000	3.5	10900	1.05

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

**P = 4 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
6.1	6200	3.0	234.6	BK90Z-../DSE11MA4	632	49400	120000	7.3	5200	3.6
5.5	6900	2.7	262.5	"	"	49400	120000	6.6	5700	3.2
4.9	7700	2.4	295.6	"	"	49400	120000	5.8	6500	2.8
4.3	8800	2.1	330.7	"	"	49400	120000	5.2	7300	2.5
3.7	10300	1.8	389.1	"	"	49400	120000	4.4	8600	2.2
3.3	11500	1.6	435.3	"	"	49400	120000	4.0	9500	1.95
2.9	13100	1.4	499.2	"	"	49400	120000	3.5	10900	1.7
2.6	14600	1.25	558.5	"	"	49400	120000	3.1	12300	1.5
2.3	16600	1.1	637.7	"	"	49400	120000	2.7	14100	1.3
2.0	19100	0.97	713.5	"	"	49400	120000	2.4	15900	1.15
1.8	19800	0.93	821.0	BK90G50-../DSE11MA4	648	49400	120000	2.1	16800	1.1
1.7	21200	0.87	882.3	"	"	49400	120000	2.0	17900	1.05

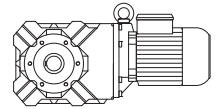
**P = 5.5 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
305	158	1.25	4.73	BK30-../DSE11LA4	76	1550	8800	365	132	1.45
240	200	1.05	6.02	"	"	1690	9600	285	169	1.25
191	250	1.05	7.45	"	"	2200	10400	230	210	1.3
148	325	0.98	9.63	"	"	3150	11500	178	270	1.2
125	375	1.1	11.39	"	"	4150	11000	151	310	1.35
120	400	0.8	11.93	"	"	3650	12000	144	335	0.96
98	480	0.94	14.50	"	"	4900	12000	118	400	1.15
310	155	2.8	4.63	BK40-../DSE11LA4	102	430	8900	370	130	3.3
240	200	2.4	6.02	"	"	470	9800	285	169	2.8
190	250	1.95	7.49	"	"	750	10500	230	210	2.3
153	315	1.55	9.31	"	"	1040	11200	184	260	1.9
128	365	1.95	11.17	"	"	4100	13100	154	305	2.3
120	400	1.25	11.86	"	"	1770	12200	145	330	1.5
98	480	1.65	14.50	"	"	4500	14300	118	400	1.95
79	590	1.3	18.05	"	"	4900	15300	95	495	1.6
64	730	1.05	22.44	"	"	5500	16500	77	610	1.3
50	940	0.83	28.59	"	"	6300	17000	60	780	1.0
195	245	3.3	7.29	BK50-../DSE11LA4	132	620	11900	235	205	4.0
146	320	2.9	9.73	"	"	5400	15400	176	265	3.5
142	340	2.4	10.00	"	"	1220	13200	171	280	2.9
102	460	2.3	13.95	"	"	6100	17400	123	380	2.8
94	500	2.1	15.19	"	"	6300	18000	113	415	2.5
80	590	1.25	17.92	"	"	4600	16800	96	495	1.45
74	630	1.65	19.33	"	"	6900	19200	89	530	2.0
54	870	1.2	26.51	"	"	7800	21200	65	720	1.45
40.5	1160	0.91	35.21	"	"	8700	23100	49	960	1.1
89	590	3.3	16.05	BK60-../DSE11LA4	142	4050	18800	107	490	4.0
78	670	3.3	18.36	"	"	4000	19900	94	550	4.0
70	750	3.0	20.54	"	"	4400	20600	84	620	3.6
59	890	2.6	24.45	"	"	4850	22000	70	750	3.1
52	1010	2.3	27.36	"	"	5600	23200	63	830	2.8
42.5	1230	1.85	33.78	"	"	6500	25200	51	1020	2.3
38	1380	1.65	37.80	"	"	7300	26500	45.5	1150	2.0
32	1640	1.4	45.05	"	"	8200	28300	38	1380	1.65
28.5	1840	1.25	50.40	"	"	9100	29800	34	1540	1.5
24.5	2100	1.1	58.95	"	"	9900	31500	29.5	1780	1.3
22	2350	0.98	65.95	"	"	10900	33000	26	2000	1.15
18.5	2800	0.82	78.13	"	"	11900	34000	22	2350	0.98
35.5	1470	3.3	40.08	BK70-../DSE11LA4	221	8300	36300	43	1220	4.0
31.5	1660	3.1	45.59	"	"	9000	37900	38	1380	3.7
26.5	1980	2.6	54.15	"	"	9900	40200	32	1640	3.2
23.5	2200	2.4	61.60	"	"	11500	42800	28	1870	2.8
20.5	2550	2.0	70.23	"	"	12500	44800	24.5	2100	2.5
18	2900	1.8	79.89	"	"	14300	47600	21.5	2400	2.2

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

**P = 5.5 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
16	3250	1.6	90.96	<b>BK70-../DSE11LA4</b>	"	15300	49900	19	2750	1.9
14	3750	1.4	103.5	"	"	17200	50000	17	3050	1.7
12	4350	1.2	120.2	"	"	18600	50000	14.5	3600	1.45
10.5	5000	1.05	136.7	"	"	20700	50000	13	4000	1.3
9.2	5700	0.91	154.4	"	"	21900	50000	11.5	4550	1.15
8.1	6400	0.81	175.7	"	"	24100	50000	9.8	5300	0.98
16	3250	3.2	91.53	<b>BK80-../DSE11LA4</b>	336	18300	74200	19	2750	3.8
14	3750	2.8	102.5	"	"	20500	75000	17	3050	3.4
12.5	4200	2.5	117.5	"	"	22300	75000	15	3500	3.0
11	4750	2.2	131.6	"	"	24900	75000	13	4000	2.6
9.3	5600	1.9	153.1	"	"	27200	75000	11.5	4550	2.3
8.3	6300	1.65	171.5	"	"	30000	75000	10	5200	2.0
8.0	6500	1.75	177.6	<b>BK80Z-../DSE11LA4</b>	378	30000	75000	9.7	5400	2.1
7.2	7200	1.6	198.9	"	"	30000	75000	8.6	6100	1.9
6.3	8300	1.4	226.1	"	"	30000	75000	7.6	6900	1.65
5.7	9200	1.25	253.3	"	"	30000	75000	6.8	7700	1.5
4.8	10900	1.05	300.6	"	"	30000	75000	5.7	9200	1.25
4.3	12200	0.94	336.7	"	"	30000	75000	5.1	10200	1.15
3.7	14100	0.82	389.0	"	"	30000	75000	4.4	11900	0.97
8.2	6400	2.9	174.7	<b>BK90Z-../DSE11LA4</b>	643	49400	120000	9.8	5300	3.5
7.3	7100	2.6	195.4	"	"	49400	120000	8.8	5900	3.1
6.1	8600	2.2	234.6	"	"	49400	120000	7.3	7100	2.6
5.5	9500	1.95	262.5	"	"	49400	120000	6.6	7900	2.3
4.9	10700	1.75	295.6	"	"	49400	120000	5.8	9000	2.1
4.3	12200	1.5	330.7	"	"	49400	120000	5.2	10100	1.85
3.7	14100	1.3	389.1	"	"	49400	120000	4.4	11900	1.55
3.3	15900	1.15	435.3	"	"	49400	120000	4.0	13100	1.4
2.9	18100	1.0	499.2	"	"	49400	120000	3.5	15000	1.25
2.6	20200	0.92	558.5	"	"	49400	120000	3.1	16900	1.1
2.3	22800	0.81	637.7	"	"	49400	120000	2.7	19400	0.95

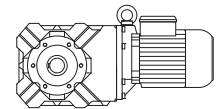
**P = 7.5 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
395	166	4.3	3.67	<b>BK50-../DSE13MA4</b>	143	115	9400	475	138	5.2
275	235	3.5	5.26	"	"	130	10700	335	196	4.1
198	330	2.5	7.29	"	"	620	11900	240	270	3.0
148	435	2.1	9.73	"	"	5400	15400	179	360	2.6
144	455	1.8	10.00	"	"	1220	13200	174	375	2.2
104	610	1.7	13.95	"	"	6100	17400	125	510	2.1
95	670	1.55	15.19	"	"	6300	18000	115	560	1.9
81	800	0.91	17.92	"	"	4600	16800	98	660	1.1
75	850	1.25	19.33	"	"	6900	19200	91	700	1.5
55	1170	0.9	26.51	"	"	7800	21200	66	970	1.1
134	530	3.2	10.82	<b>BK60-../DSE13MA4</b>	155	3200	17000	161	440	3.8
104	680	2.9	13.85	"	"	3850	18000	126	560	3.5
100	710	2.7	14.41	"	"	3650	18600	121	590	3.3
90	790	2.5	16.05	"	"	4050	18800	109	650	3.0
79	900	2.4	18.36	"	"	4000	19900	95	750	2.9
71	1000	2.3	20.54	"	"	4400	20600	85	840	2.7
59	1210	1.9	24.45	"	"	4850	22000	72	990	2.3
53	1350	1.7	27.36	"	"	5600	23200	64	1110	2.1
43	1660	1.4	33.78	"	"	6500	25200	52	1370	1.7
38.5	1860	1.25	37.80	"	"	7300	26500	46.5	1540	1.5
32	2200	1.05	45.05	"	"	8200	28300	39	1830	1.25
29	2450	0.94	50.40	"	"	9100	29800	35	2000	1.15
47	1520	3.0	30.90	<b>BK70-../DSE13MA4</b>	234	7500	33600	57	1250	3.6
41	1740	2.7	35.15	"	"	8000	35000	50	1430	3.3
36	1980	2.5	40.08	"	"	8300	36300	43.5	1640	3.0

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 7.5 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
32	2200	2.3	45.59	BK70-../DSE13MA4	"	9000	37900	38.5	1860	2.8
27	2650	1.95	54.15	"	"	9900	40200	32.5	2200	2.4
23.5	3000	1.75	61.60	"	"	11500	42800	28.5	2500	2.1
21	3400	1.55	70.23	"	"	12500	44800	25	2850	1.8
18.5	3850	1.35	79.89	"	"	14300	47600	22	3250	1.6
16	4450	1.15	90.96	"	"	15300	49900	19.5	3650	1.4
14	5100	1.0	103.5	"	"	17200	50000	17	4200	1.25
12	5900	0.88	120.2	"	"	18600	50000	14.5	4900	1.05
11	6500	0.8	136.7	"	"	20700	50000	13	5500	0.95
24.5	2900	3.2	59.60	BK80-../DSE13MA4	348	15700	65500	29.5	2400	3.8
20.5	3450	2.8	70.72	"	"	16600	68700	25	2850	3.4
18.5	3850	2.6	79.22	"	"	17600	71300	22	3250	3.1
16	4450	2.3	91.53	"	"	18300	74200	19.5	3650	2.8
14.5	4900	2.1	102.5	"	"	20500	75000	17	4200	2.5
12.5	5700	1.85	117.5	"	"	22300	75000	15	4750	2.2
11	6500	1.6	131.6	"	"	24900	75000	13.5	5300	2.0
9.5	7500	1.4	153.1	"	"	27200	75000	11.5	6200	1.7
8.4	8500	1.25	171.5	"	"	30000	75000	10.5	6800	1.55
8.2	8700	1.3	177.6	BK80Z-../DSE13MA4	391	30000	75000	9.8	7300	1.6
7.3	9800	1.15	198.9	"	"	30000	75000	8.8	8100	1.4
6.4	11100	1.05	226.1	"	"	30000	75000	7.7	9300	1.25
5.7	12500	0.92	253.3	"	"	30000	75000	6.9	10300	1.1
12.5	5700	2.9	117.0	BK90-../DSE13MA4	600	39200	113000	15	4750	3.5
11.5	6200	2.7	130.9	"	"	42700	119400	13.5	5300	3.2
9.7	7300	2.3	149.5	"	"	45600	120000	12	5900	2.8
8.7	8200	2.0	167.2	"	"	49400	120000	10.5	6800	2.5
8.3	8600	2.2	174.7	BK90Z-../DSE13MA4	656	49400	120000	10	7100	2.6
7.4	9600	1.95	195.4	"	"	49400	120000	9.0	7900	2.3
6.2	11500	1.6	234.6	"	"	49400	120000	7.5	9500	1.95
5.5	13000	1.4	262.5	"	"	49400	120000	6.7	10600	1.75
4.9	14600	1.25	295.6	"	"	49400	120000	5.9	12100	1.55
4.4	16200	1.15	330.7	"	"	49400	120000	5.3	13500	1.35
3.8	18800	0.98	389.1	"	"	49400	120000	4.5	15900	1.15
3.4	21000	0.88	435.3	"	"	49400	120000	4.0	17900	1.05

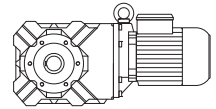
P = 9.5 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
395	210	3.4	3.67	BK50-../DSE13LA4	146	115	9400	475	175	4.1
275	300	2.7	5.26	"	"	130	10700	335	245	3.3
198	420	1.95	7.29	"	"	620	11900	240	345	2.4
148	550	1.7	9.73	"	"	5400	15400	179	455	2.0
144	570	1.4	10.00	"	"	1220	13200	174	475	1.7
104	780	1.35	13.95	"	"	6100	17400	125	650	1.6
95	850	1.25	15.19	"	"	6300	18000	115	710	1.5
75	1080	0.97	19.33	"	"	6900	19200	91	890	1.2
198	455	3.2	7.29	BK60-../DSE13LA4	158	2800	14900	240	375	3.9
134	670	2.5	10.82	"	"	3200	17000	161	560	3.0
104	870	2.3	13.85	"	"	3850	18000	126	720	2.7
100	900	2.1	14.41	"	"	3650	18600	121	740	2.6
90	1000	1.95	16.05	"	"	4050	18800	109	830	2.4
79	1140	1.9	18.36	"	"	4000	19900	95	950	2.3
71	1270	1.75	20.54	"	"	4400	20600	85	1060	2.1
59	1530	1.5	24.45	"	"	4850	22000	72	1260	1.85
53	1710	1.35	27.36	"	"	5600	23200	64	1410	1.65
43	2100	1.1	33.78	"	"	6500	25200	52	1740	1.3
38.5	2350	0.98	37.80	"	"	7300	26500	46.5	1950	1.2
32	2800	0.82	45.05	"	"	8200	28300	39	2300	1.0
95	950	3.2	15.16	BK70-../DSE13LA4	237	5600	25800	115	780	3.9
84	1080	3.2	17.24	"	"	6500	29200	101	890	3.9

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

**P = 9.5 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
66	1370	3.0	21.88	<b>BK70-../DSE13LA4</b>	"	6500	30200	80	1130	3.6
58	1560	2.7	24.89	"	"	7000	31500	70	1290	3.3
47	1930	2.3	30.90	"	"	7500	33600	57	1590	2.8
41	2200	2.2	35.15	"	"	8000	35000	50	1810	2.6
36	2500	1.95	40.08	"	"	8300	36300	43.5	2050	2.4
32	2800	1.85	45.59	"	"	9000	37900	38.5	2350	2.2
27	3350	1.55	54.15	"	"	9900	40200	32.5	2750	1.9
23.5	3850	1.35	61.60	"	"	11500	42800	28.5	3150	1.65
21	4300	1.2	70.23	"	"	12500	44800	25	3600	1.45
18.5	4900	1.05	79.89	"	"	14300	47600	22	4100	1.25
16	5600	0.93	90.96	"	"	15300	49900	19.5	4650	1.1
14	6400	0.81	103.5	"	"	17200	50000	17	5300	0.98
34.5	2600	3.2	41.78	<b>BK80-../DSE13LA4</b>	351	13500	58700	42	2150	3.8
31	2900	3.0	46.80	"	"	14300	60900	37.5	2400	3.6
27.5	3250	2.7	53.21	"	"	14800	63100	33	2700	3.3
24.5	3700	2.5	59.60	"	"	15700	65500	29.5	3050	3.0
20.5	4400	2.2	70.72	"	"	16600	68700	25	3600	2.7
18.5	4900	2.1	79.22	"	"	17600	71300	22	4100	2.5
16	5600	1.85	91.53	"	"	18300	74200	19.5	4650	2.2
14.5	6200	1.7	102.5	"	"	20500	75000	17	5300	2.0
12.5	7200	1.45	117.5	"	"	22300	75000	15	6000	1.75
11	8200	1.3	131.6	"	"	24900	75000	13.5	6700	1.55
9.5	9500	1.1	153.1	"	"	27200	75000	11.5	7800	1.35
8.4	10800	0.97	171.5	"	"	30000	75000	10.5	8600	1.2
8.2	11000	1.05	177.6	<b>BK80Z-../DSE13LA4</b>	394	30000	75000	9.8	9200	1.25
7.3	12400	0.93	198.9	"	"	30000	75000	8.8	10300	1.1
6.4	14100	0.82	226.1	"	"	30000	75000	7.7	11700	0.98
16	5600	3.0	91.19	<b>BK90-../DSE13LA4</b>	603	33300	101000	19.5	4650	3.6
14.5	6200	2.7	102.0	"	"	36600	107000	17.5	5100	3.3
12.5	7200	2.3	117.0	"	"	39200	113000	15	6000	2.8
11.5	7800	2.2	130.9	"	"	42700	119400	13.5	6700	2.5
9.7	9300	1.8	149.5	"	"	45600	120000	12	7500	2.2
8.7	10400	1.6	167.2	"	"	49400	120000	10.5	8600	1.95
8.3	10900	1.7	174.7	<b>BK90Z-../DSE13LA4</b>	659	49400	120000	10	9000	2.1
7.4	12200	1.5	195.4	"	"	49400	120000	9.0	10000	1.85
6.2	14600	1.25	234.6	"	"	49400	120000	7.5	12000	1.55
5.5	16400	1.15	262.5	"	"	49400	120000	6.7	13500	1.35
4.9	18500	1.0	295.6	"	"	49400	120000	5.9	15300	1.2
4.4	20600	0.9	330.7	"	"	49400	120000	5.3	17100	1.1

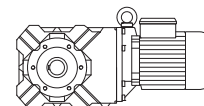
**P = 11 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
400	240	3.0	3.67	<b>BK50-../DSE16MA4</b>	191	115	9400	480	200	3.6
280	345	2.4	5.26	"	"	130	10700	335	285	2.8
205	470	1.75	7.29	"	"	620	11900	245	390	2.1
151	620	1.5	9.73	"	"	5400	15400	181	520	1.8
146	660	1.25	10.00	"	"	1220	13200	176	540	1.5
105	900	1.15	13.95	"	"	6100	17400	127	740	1.4
97	970	1.1	15.19	"	"	6300	18000	116	810	1.3
76	1240	0.85	19.33	"	"	6900	19200	92	1020	1.05
205	510	2.9	7.29	<b>BK60-../DSE16MA4</b>	203	2800	14900	245	425	3.4
135	770	2.2	10.82	"	"	3200	17000	163	640	2.6
106	990	2.0	13.85	"	"	3850	18000	128	820	2.4
102	1020	1.9	14.41	"	"	3650	18600	123	850	2.3
91	1150	1.7	16.05	"	"	4050	18800	110	950	2.1
80	1310	1.65	18.36	"	"	4000	19900	96	1090	2.0
72	1450	1.55	20.54	"	"	4400	20600	86	1220	1.85
60	1750	1.3	24.45	"	"	4850	22000	72	1450	1.6
54	1940	1.2	27.36	"	"	5600	23200	65	1610	1.45

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 11 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
43.5	2400	0.96	33.78	BK60-../DSE16MA4	"	6500	25200	53	1980	1.15
39	2650	0.87	37.80	"	"	7300	26500	47	2200	1.05
107	980	3.1	13.70	BK70-../DSE16MA4	286	5400	24800	129	810	3.8
97	1080	2.8	15.16	"	"	5600	25800	117	890	3.4
85	1230	2.8	17.24	"	"	6500	29200	103	1010	3.5
67	1560	2.6	21.88	"	"	6500	30200	81	1290	3.2
59	1780	2.4	24.89	"	"	7000	31500	71	1470	2.9
47.5	2200	2.1	30.90	"	"	7500	33600	57	1840	2.5
42	2500	1.9	35.15	"	"	8000	35000	51	2050	2.3
36.5	2850	1.7	40.08	"	"	8300	36300	44	2350	2.1
32.5	3200	1.6	45.59	"	"	9000	37900	39	2650	1.95
27	3850	1.35	54.15	"	"	9900	40200	33	3150	1.65
24	4350	1.2	61.60	"	"	11500	42800	29	3600	1.45
21	5000	1.05	70.23	"	"	12500	44800	25.5	4100	1.25
18.5	5600	0.93	79.89	"	"	14300	47600	22.5	4650	1.1
16.5	6300	0.83	90.96	"	"	15300	49900	19.5	5300	0.98
43	2400	3.3	34.22	BK80-../DSE16MA4	396	12600	55400	52	2000	3.9
35	3000	2.7	41.78	"	"	13500	58700	42.5	2450	3.4
31.5	3300	2.6	46.80	"	"	14300	60900	38	2750	3.1
27.5	3800	2.3	53.21	"	"	14800	63100	33.5	3100	2.9
24.5	4250	2.2	59.60	"	"	15700	65500	30	3500	2.6
21	5000	1.95	70.72	"	"	16600	68700	25	4200	2.3
18.5	5600	1.8	79.22	"	"	17600	71300	22.5	4650	2.2
16	6500	1.6	91.53	"	"	18300	74200	19.5	5300	1.95
14.5	7200	1.45	102.5	"	"	20500	75000	17.5	6000	1.75
12.5	8400	1.25	117.5	"	"	22300	75000	15	7000	1.5
11.5	9100	1.15	131.6	"	"	24900	75000	13.5	7700	1.35
9.6	10900	0.96	153.1	"	"	27200	75000	11.5	9100	1.15
8.6	12200	0.86	171.5	"	"	30000	75000	10.5	10000	1.05
8.3	12600	0.91	177.6	BK80Z-../DSE16MA4	439	30000	75000	10	10500	1.1
7.4	14100	0.82	198.9	"	"	30000	75000	8.9	11800	0.97
19	5500	3.1	77.51	BK90-../DSE16MA4	649	30300	94400	23	4550	3.7
16.5	6300	2.7	91.19	"	"	33300	101000	19.5	5300	3.2
14.5	7200	2.3	102.0	"	"	36600	107000	17.5	6000	2.8
12.5	8400	2.0	117.0	"	"	39200	113000	15.5	6700	2.5
11.5	9100	1.85	130.9	"	"	42700	119400	13.5	7700	2.2
9.8	10700	1.55	149.5	"	"	45600	120000	12	8700	1.95
8.8	11900	1.4	167.2	"	"	49400	120000	11	9500	1.75
8.4	12500	1.5	174.7	BK90Z-../DSE16MA4	708	49400	120000	10.5	10000	1.85
7.5	14000	1.3	195.4	"	"	49400	120000	9.1	11500	1.6
6.3	16600	1.1	234.6	"	"	49400	120000	7.6	13800	1.35
5.6	18700	0.99	262.5	"	"	49400	120000	6.8	15400	1.2
5.0	21000	0.88	295.6	"	"	49400	120000	6.0	17500	1.05

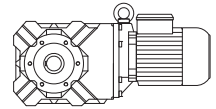
P = 15 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
400	325	2.2	3.67	BK50-../DSE16LA4	204	115	9400	480	270	2.7
280	470	1.75	5.26	"	"	130	10700	335	390	2.1
205	640	1.25	7.29	"	"	620	11900	245	530	1.55
151	850	1.1	9.73	"	"	5400	15400	181	710	1.3
146	900	0.9	10.00	"	"	1220	13200	176	740	1.1
105	1220	0.86	13.95	"	"	6100	17400	127	1010	1.05
97	1320	0.8	15.19	"	"	6300	18000	116	1110	0.95
205	690	2.1	7.29	BK60-../DSE16LA4	216	2800	14900	245	580	2.5
135	1060	1.6	10.82	"	"	3200	17000	163	870	1.95
106	1350	1.45	13.85	"	"	3850	18000	128	1110	1.8
102	1400	1.4	14.41	"	"	3650	18600	123	1160	1.65
91	1570	1.25	16.05	"	"	4050	18800	110	1300	1.5
80	1790	1.2	18.36	"	"	4000	19900	96	1490	1.45
72	1980	1.15	20.54	"	"	4400	20600	86	1660	1.35

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 15 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
60	2350	0.98	24.45	BK60-../DSE16LA4	"	4850	22000	72	1980	1.15
54	2650	0.87	27.36	"	"	5600	23200	65	2200	1.05
107	1330	2.3	13.70	BK70-../DSE16LA4	299	5400	24800	129	1110	2.7
97	1470	2.1	15.16	"	"	5600	25800	117	1220	2.5
85	1680	2.1	17.24	"	"	6500	29200	103	1390	2.5
67	2100	1.95	21.88	"	"	6500	30200	81	1760	2.3
59	2400	1.8	24.89	"	"	7000	31500	71	2000	2.1
47.5	3000	1.5	30.90	"	"	7500	33600	57	2500	1.8
42	3400	1.4	35.15	"	"	8000	35000	51	2800	1.7
36.5	3900	1.25	40.08	"	"	8300	36300	44	3250	1.5
32.5	4400	1.15	45.59	"	"	9000	37900	39	3650	1.4
27	5300	0.98	54.15	"	"	9900	40200	33	4300	1.2
24	5900	0.88	61.60	"	"	11500	42800	29	4900	1.05
48	2950	2.5	30.56	BK80-../DSE16LA4	408	11900	53400	58	2450	3.1
43	3300	2.4	34.22	"	"	12600	55400	52	2750	2.8
35	4050	2.0	41.78	"	"	13500	58700	42.5	3350	2.5
31.5	4500	1.9	46.80	"	"	14300	60900	38	3750	2.3
27.5	5200	1.7	53.21	"	"	14800	63100	33.5	4250	2.1
24.5	5800	1.6	59.60	"	"	15700	65500	30	4750	1.95
21	6800	1.4	70.72	"	"	16600	68700	25	5700	1.7
18.5	7700	1.3	79.22	"	"	17600	71300	22.5	6300	1.6
16	8900	1.15	91.53	"	"	18300	74200	19.5	7300	1.4
14.5	9800	1.05	102.5	"	"	20500	75000	17.5	8100	1.3
12.5	11400	0.92	117.5	"	"	22300	75000	15	9500	1.1
11.5	12400	0.85	131.6	"	"	24900	75000	13.5	10600	0.99
27	5300	3.0	54.98	BK90-../DSE16LA4	662	24000	81000	32.5	4400	3.7
24	5900	2.8	61.52	"	"	25500	84600	29	4900	3.4
21.5	6600	2.5	69.27	"	"	27200	88900	25.5	5600	3.0
19	7500	2.2	77.51	"	"	30300	94400	23	6200	2.7
16.5	8600	1.95	91.19	"	"	33300	101000	19.5	7300	2.3
14.5	9800	1.7	102.0	"	"	36600	107000	17.5	8100	2.1
12.5	11400	1.45	117.0	"	"	39200	113000	15.5	9200	1.85
11.5	12400	1.35	130.9	"	"	42700	119400	13.5	10600	1.6
9.8	14600	1.15	149.5	"	"	45600	120000	12	11900	1.4
8.8	16200	1.05	167.2	"	"	49400	120000	11	13000	1.3
8.4	17000	1.1	174.7	BK90Z-../DSE16LA4	721	49400	120000	10.5	13600	1.35
7.5	19100	0.97	195.4	"	"	49400	120000	9.1	15700	1.2
6.3	22700	0.81	234.6	"	"	49400	120000	7.6	18800	0.98

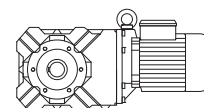
P = 18.5 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
400	405	1.75	3.67	BK50-../DSE16XA4	214	115	9400	480	335	2.1
280	580	1.4	5.26	"	"	130	10700	335	485	1.65
205	790	1.05	7.29	"	"	620	11900	245	660	1.25
151	1050	0.89	9.73	"	"	5400	15400	181	870	1.05
205	860	1.7	7.29	BK60-../DSE16XA4	226	2800	14900	245	720	2.0
135	1300	1.3	10.82	"	"	3200	17000	163	1080	1.55
106	1660	1.2	13.85	"	"	3850	18000	128	1380	1.45
102	1730	1.1	14.41	"	"	3650	18600	123	1430	1.35
91	1940	1.0	16.05	"	"	4050	18800	110	1600	1.25
80	2200	0.99	18.36	"	"	4000	19900	96	1840	1.2
72	2450	0.92	20.54	"	"	4400	20600	86	2050	1.1
107	1650	1.85	13.70	BK70-../DSE16XA4	309	5400	24800	129	1360	2.2
97	1820	1.7	15.16	"	"	5600	25800	117	1510	2.0
85	2050	1.7	17.24	"	"	6500	29200	103	1710	2.0
67	2600	1.55	21.88	"	"	6500	30200	81	2150	1.9
59	2950	1.45	24.89	"	"	7000	31500	71	2450	1.75

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

P = 18.5 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
47.5	3700	1.2	30.90	<b>BK70-../DSE16XA4</b>	"	7500	33600	57	3050	1.5
42	4200	1.15	35.15	"	"	8000	35000	51	3450	1.35
36.5	4800	1.0	40.08	"	"	8300	36300	44	4000	1.2
32.5	5400	0.95	45.59	"	"	9000	37900	39	4500	1.15
27	6500	0.8	54.15	"	"	9900	40200	33	5300	0.98
48	3650	2.1	30.56	<b>BK80-../DSE16XA4</b>	418	11900	53400	58	3000	2.5
43	4100	1.9	34.22	"	"	12600	55400	52	3350	2.3
35	5000	1.65	41.78	"	"	13500	58700	42.5	4150	2.0
31.5	5600	1.55	46.80	"	"	14300	60900	38	4600	1.85
27.5	6400	1.4	53.21	"	"	14800	63100	33.5	5200	1.7
24.5	7200	1.3	59.60	"	"	15700	65500	30	5800	1.6
21	8400	1.15	70.72	"	"	16600	68700	25	7000	1.4
18.5	9500	1.05	79.22	"	"	17600	71300	22.5	7800	1.3
16	11000	0.95	91.53	"	"	18300	74200	19.5	9000	1.15
14.5	12100	0.87	102.5	"	"	20500	75000	17.5	10000	1.05
36	4900	3.0	40.94	<b>BK90-../DSE16XA4</b>	672	21400	73100	43	4100	3.6
32	5500	2.8	45.80	"	"	22700	76300	38.5	4550	3.4
27	6500	2.5	54.98	"	"	24000	81000	32.5	5400	3.0
24	7300	2.3	61.52	"	"	25500	84600	29	6000	2.8
21.5	8200	2.0	69.27	"	"	27200	88900	25.5	6900	2.4
19	9200	1.85	77.51	"	"	30300	94400	23	7600	2.2
16.5	10700	1.55	91.19	"	"	33300	101000	19.5	9000	1.85
14.5	12100	1.4	102.0	"	"	36600	107000	17.5	10000	1.7
12.5	14100	1.2	117.0	"	"	39200	113000	15.5	11300	1.5
11.5	15300	1.1	130.9	"	"	42700	119400	13.5	13000	1.3
9.8	18000	0.93	149.5	"	"	45600	120000	12	14700	1.15
8.8	20000	0.84	167.2	"	"	49400	120000	11	16000	1.05
8.4	21000	0.88	174.7	<b>BK90Z-../DSE16XA4</b>	731	49400	120000	10.5	16800	1.1

P = 22 kW

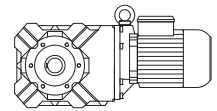
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
97	2150	1.45	15.16	<b>BK70-../DSE18LA4</b>	366	5600	25800	117	1790	1.7
85	2450	1.45	17.24	"	"	6500	29200	103	2000	1.75
67	3100	1.3	21.88	"	"	6500	30200	81	2550	1.6
59	3550	1.2	24.89	"	"	7000	31500	71	2950	1.45
47.5	4400	1.05	30.90	"	"	7500	33600	57	3650	1.25
42	5000	0.95	35.15	"	"	8000	35000	51	4100	1.15
36.5	5700	0.86	40.08	"	"	8300	36300	44	4750	1.05
32.5	6400	0.8	45.59	"	"	9000	37900	39	5300	0.97
102	2050	2.1	14.34	<b>BK80-../DSE18LA4</b>	480	7900	36200	123	1700	2.5
92	2250	2.1	15.88	"	"	8400	38600	111	1890	2.5
83	2500	2.1	17.79	"	"	9400	42100	99	2100	2.5
76	2750	2.1	19.35	"	"	9500	44000	91	2300	2.5
66	3150	2.2	22.19	"	"	10500	48500	80	2600	2.6
59	3550	2.0	24.85	"	"	11200	50400	71	2950	2.4
48	4350	1.7	30.56	"	"	11900	53400	58	3600	2.1
43	4850	1.6	34.22	"	"	12600	55400	52	4000	1.95
35	6000	1.35	41.78	"	"	13500	58700	42.5	4900	1.7
31.5	6600	1.3	46.80	"	"	14300	60900	38	5500	1.55
27.5	7600	1.15	53.21	"	"	14800	63100	33.5	6200	1.45
24.5	8500	1.1	59.60	"	"	15700	65500	30	7000	1.3
21	10000	0.96	70.72	"	"	16600	68700	25	8400	1.15
18.5	11300	0.89	79.22	"	"	17600	71300	22.5	9300	1.1
48	4350	3.1	30.47	<b>BK90-../DSE18LA4</b>	734	19100	65900	58	3600	3.8
43	4850	2.9	34.09	"	"	20300	68800	52	4000	3.5
36	5800	2.5	40.94	"	"	21400	73100	43	4850	3.0



# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DSE - IE1

**P = 22 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
32	6500	2.4	45.80	<b>BK90-../DSE18LA4</b>	kg	22700	76300	38.5	5400	2.9
27	7700	2.1	54.98	"	"	24000	81000	32.5	6400	2.5
24	8700	1.95	61.52	"	"	25500	84600	29	7200	2.3
21.5	9700	1.75	69.27	"	"	27200	88900	25.5	8200	2.0
19	11000	1.55	77.51	"	"	30300	94400	23	9100	1.85
16.5	12700	1.3	91.19	"	"	33300	101000	19.5	10700	1.55
14.5	14400	1.15	102.0	"	"	36600	107000	17.5	12000	1.4
12.5	16800	1.0	117.0	"	"	39200	113000	15.5	13500	1.25
11.5	18200	0.92	130.9	"	"	42700	119400	13.5	15500	1.1

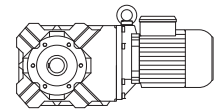
**P = 30 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
97	2950	1.05	15.16	<b>BK70-../DSE18XA4</b>	384	5600	25800	117	2400	1.3
85	3350	1.05	17.24	"	"	6500	29200	103	2750	1.25
67	4250	0.96	21.88	"	"	6500	30200	81	3500	1.15
59	4850	0.88	24.89	"	"	7000	31500	71	4000	1.05
102	2800	1.55	14.34	<b>BK80-../DSE18XA4</b>	498	7900	36200	123	2300	1.85
92	3100	1.55	15.88	"	"	8400	38600	111	2550	1.9
83	3450	1.5	17.79	"	"	9400	42100	99	2850	1.85
76	3750	1.55	19.35	"	"	9500	44000	91	3100	1.85
66	4300	1.6	22.19	"	"	10500	48500	80	3550	1.9
59	4850	1.45	24.85	"	"	11200	50400	71	4000	1.75
48	5900	1.25	30.56	"	"	11900	53400	58	4900	1.55
43	6600	1.2	34.22	"	"	12600	55400	52	5500	1.4
35	8100	1.0	41.78	"	"	13500	58700	42.5	6700	1.25
31.5	9000	0.95	46.80	"	"	14300	60900	38	7500	1.15
27.5	10400	0.85	53.21	"	"	14800	63100	33.5	8500	1.05
24.5	11600	0.8	59.60	"	"	15700	65500	30	9500	0.97
101	2800	3.3	14.49	<b>BK90-../DSE18XA4</b>	752	14500	50400	122	2300	4.0
91	3100	3.3	16.21	"	"	15400	52400	109	2600	4.0
81	3500	3.3	18.07	"	"	15600	54400	98	2900	4.0
73	3900	3.1	20.21	"	"	16600	56700	88	3250	3.7
66	4300	2.9	22.29	"	"	16900	59100	79	3600	3.4
59	4850	2.6	24.94	"	"	18000	61700	71	4000	3.2
48	5900	2.3	30.47	"	"	19100	65900	58	4900	2.8
43	6600	2.1	34.09	"	"	20300	68800	52	5500	2.6
36	7900	1.85	40.94	"	"	21400	73100	43	6600	2.2
32	8900	1.75	45.80	"	"	22700	76300	38.5	7400	2.1
27	10600	1.5	54.98	"	"	24000	81000	32.5	8800	1.85
24	11900	1.4	61.52	"	"	25500	84600	29	9800	1.7
21.5	13300	1.25	69.27	"	"	27200	88900	25.5	11200	1.5
19	15000	1.1	77.51	"	"	30300	94400	23	12400	1.35
16.5	17300	0.97	91.19	"	"	33300	101000	19.5	14600	1.15
14.5	19700	0.85	102.0	"	"	36600	107000	17.5	16300	1.05

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 0.03 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
28.5	8.9	9.0	47.78	BK06-../D04LA4	7.6	1500	-	34	7.4	11
25	10.1	6.7	54.38	"	"	1600	-	30	8.4	8.1
21.5	11.8	5.4	63.33	"	"	1700	-	26	9.8	6.5
3.7	62	2.7	373.4	BK10Z-../D04LA4	21	7000	-	4.4	52	3.2
3.2	71	2.1	428.8	"	"	7000	-	3.8	60	2.5
2.5	66	3.3	552.3	BK10G06-../D04LA4	25	7000	-	3.0	51	4.3
2.2	77	2.9	635.5	"	"	7000	-	2.6	62	3.5
1.8	98	2.2	789.7	"	"	7000	-	2.1	80	2.8
1.5	118	1.85	929.3	"	"	7000	-	1.8	94	2.3
1.3	139	1.6	1112	"	"	7000	-	1.5	116	1.9
1.0	184	1.2	1361	"	"	7000	-	1.2	149	1.5
0.9	205	1.05	1577	"	"	7000	-	1.1	167	1.3
0.7	220*	1.0	1971	"	"	7000	-	0.85	220	1.0
0.6	220*	1.0	2261	"	"	7000	-	0.75	220	1.0
0.55	220*	1.0	2467	"	"	7000	-	0.7	220	1.0
0.48	220*	1.0	2849	"	"	7000	-	0.6	220	1.0
0.44	220*	1.0	3107	"	"	7000	-	0.55	220	1.0
0.39	220*	1.0	3537	"	"	7000	-	0.46	220	1.0
0.33	220*	1.0	4120	"	"	7000	-	0.4	220	1.0
1.6	110	3.3	891.2	BK20G06-../D04LA4	34	8700	9000	1.9	88	4.1
1.3	138	2.6	1066	"	"	8700	9000	1.6	108	3.3
1.1	165	2.2	1305	"	"	8700	9000	1.3	135	2.7
0.95	193	1.85	1424	"	"	8700	9000	1.2	149	2.4
0.85	220	1.65	1650	"	"	8700	9000	1.0	183	1.95
0.7	270	1.35	2062	"	"	8700	9000	0.8	235	1.55
0.6	320	1.15	2366	"	"	8700	9000	0.7	270	1.35
0.55	350	1.05	2580	"	"	8700	9000	0.65	295	1.2
0.48	360*	1.0	2831	"	"	8700	9000	0.6	360	1.0
0.44	360*	1.0	3088	"	"	8700	9000	0.55	360	1.0
0.39	360*	1.0	3515	"	"	8700	9000	0.47	360	1.0
0.33	360*	1.0	4094	"	"	8700	9000	0.4	360	1.0
1.2	150	3.3	1142	BK30G06-../D04LA4	40	11200	12000	1.5	116	4.2
1.1	165	3.0	1281	"	"	11200	12000	1.3	135	3.6
0.85	220	2.2	1620	"	"	11200	12000	1.0	183	2.7
0.8	235	2.1	1767	"	"	11200	12000	0.95	195	2.5
0.7	270	1.8	2024	"	"	11200	12000	0.85	220	2.2
0.55	350	1.4	2533	"	"	11200	12000	0.65	295	1.65
0.5	380	1.3	2738	"	"	11200	12000	0.6	315	1.55
0.46	415	1.2	2986	"	"	11200	12000	0.55	345	1.4
0.4	480	1.0	3399	"	"	11200	12000	0.48	400	1.25
0.35	490*	1.0	3959	"	"	11200	12000	0.41	490	1.0

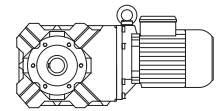
P = 0.04 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
41	8.3	9.6	33.33	BK06-../D04LA4	7.6	1320	-	49	7.0	11
35.5	9.6	8.3	38.18	"	"	1380	-	42.5	8.0	10
28.5	11.9	6.7	47.78	"	"	1500	-	34	9.9	8.1
25	13.5	5.0	54.38	"	"	1600	-	30	11.3	6.0
21.5	15.8	4.0	63.33	"	"	1700	-	26	13	4.9
4.5	68	2.7	302.4	BK10Z-../D04LA4	21	7000	-	5.4	57	3.2
3.7	83	2.0	373.4	"	"	7000	-	4.4	70	2.4
3.2	95	1.55	428.8	"	"	7000	-	3.8	80	1.85
3.0	78	2.8	459.2	BK10G06-../D04LA4	25	7000	-	3.6	62	3.5
2.7	88	2.5	501.4	"	"	7000	-	3.3	68	3.2
2.5	96	2.3	552.3	"	"	7000	-	3.0	77	2.9
2.2	112	1.95	635.5	"	"	7000	-	2.6	91	2.4
1.8	140	1.55	789.7	"	"	7000	-	2.1	116	1.9
1.5	167	1.3	929.3	"	"	7000	-	1.8	135	1.65

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

**P = 0.04 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
1.3	195	1.15	1112	BK10G06-../D04LA4	"	7000	-	1.5	165	1.35
1.0	255	0.86	1361	"	"	7000	-	1.2	210	1.05
2.2	110	3.3	630.0	BK20G06-../D04LA4	34	8700	9000	2.6	89	4.0
1.8	138	2.6	757.0	"	"	8700	9000	2.2	109	3.3
1.6	156	2.3	891.2	"	"	8700	9000	1.9	128	2.8
1.3	195	1.85	1066	"	"	8700	9000	1.6	155	2.3
1.1	230	1.55	1305	"	"	8700	9000	1.3	192	1.9
0.95	270	1.35	1424	"	"	8700	9000	1.2	210	1.7
0.85	305	1.2	1650	"	"	8700	9000	1.0	255	1.4
1.7	147	3.3	810.9	BK30G06-../D04LA4	40	11200	12000	2.0	122	4.0
1.5	167	2.9	954.1	"	"	11200	12000	1.7	143	3.4
1.2	210	2.3	1142	"	"	11200	12000	1.5	165	3.0
1.1	230	2.1	1281	"	"	11200	12000	1.3	192	2.6
0.85	305	1.6	1620	"	"	11200	12000	1.0	255	1.9
0.8	325	1.5	1767	"	"	11200	12000	0.95	270	1.8
0.7	375	1.3	2024	"	"	11200	12000	0.85	305	1.6
0.55	480	1.0	2533	"	"	11200	12000	0.65	405	1.2

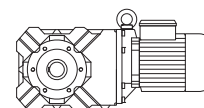
**P = 0.06 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
63	8.1	9.9	21.54	BK06-../D04LA4	7.6	1150	-	76	6.7	12
52	9.9	8.1	26.36	"	"	1230	-	62	8.3	9.6
41	12.5	6.4	33.33	"	"	1320	-	49	10.5	7.6
35.5	14.5	5.5	38.18	"	"	1380	-	42.5	12.1	6.6
28.5	17.8	4.5	47.78	"	"	1500	-	34	14.9	5.4
25	20	3.4	54.38	"	"	1600	-	30	16.9	4.0
21.5	23.5	2.7	63.33	"	"	1700	-	26	19.6	3.2
11.5	42	3.3	120.3	BK10Z-../D06LA4	24	7000	-	13.5	36	3.8
9.5	50	3.3	143.2	"	"	7000	-	11.5	41.5	3.9
6.6	71	2.8	204.7	"	"	7000	-	8.0	58	3.4
5.3	88	2.3	257.9	"	"	7000	-	6.3	74	2.7
4.5	103	1.8	302.4	"	"	7000	-	5.4	85	2.2
3.7	125	1.3	373.4	"	"	7000	-	4.4	105	1.55
3.2	143	1.05	428.8	"	"	7000	-	3.8	120	1.25
3.0	129	1.7	459.2	BK10G06-../D06LA4	28	7000	-	3.6	104	2.1
2.7	144	1.55	501.4	"	"	7000	-	3.3	115	1.9
2.5	157	1.4	552.3	"	"	7000	-	3.0	127	1.75
2.2	180	1.2	635.5	"	"	7000	-	2.6	149	1.5
1.8	220	1.0	789.7	"	"	7000	-	2.1	187	1.2
1.5	265	0.83	929.3	"	"	7000	-	1.8	215	1.0
4.6	100	3.1	298.2	BK20Z-../D06LA4	34	8700	9000	5.5	84	3.7
3.7	123	2.4	367.7	"	"	8700	9000	4.5	101	2.9
3.2	120	3.0	429.7	BK20G06-../D06LA4	38	8700	9000	3.8	98	3.7
2.9	133	2.7	480.4	"	"	8700	9000	3.4	110	3.3
2.6	149	2.4	524.5	"	"	8700	9000	3.1	122	3.0
2.2	178	2.0	630.0	"	"	8700	9000	2.6	148	2.4
1.8	220	1.65	757.0	"	"	8700	9000	2.2	178	2.0
1.6	245	1.45	891.2	"	"	8700	9000	1.9	205	1.75
1.3	305	1.2	1066	"	"	8700	9000	1.6	245	1.45
1.1	360	1.0	1305	"	"	8700	9000	1.3	305	1.2
3.6	128	3.1	380.7	BK30Z-../D06LA4	41	11200	12000	4.3	107	3.8
3.1	147	2.6	441.3	"	"	11200	12000	3.7	123	3.1
2.4	163	3.0	567.0	BK30G06-../D06LA4	44	11200	12000	2.9	132	3.7
2.1	188	2.6	652.5	"	"	11200	12000	2.5	155	3.2
1.9	210	2.3	743.0	"	"	11200	12000	2.2	178	2.8
1.7	235	2.1	810.9	"	"	11200	12000	2.0	196	2.5

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 0.06 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
1.5	265	1.85	954.1	BK30G06-../D06LA4	"	11200	12000	1.7	230	2.1
1.2	330	1.5	1142	"	"	11200	12000	1.5	260	1.9
1.1	360	1.35	1281	"	"	11200	12000	1.3	305	1.6
0.85	475	1.05	1620	"	"	11200	12000	1.0	400	1.25
1.2	290	2.9	1189	BK40G10-../D06LA4	68	11700	17000	1.4	240	3.5
0.95	380	2.2	1428	"	"	11700	17000	1.2	290	2.9
0.8	465	1.85	1798	"	"	11700	17000	0.95	385	2.2
0.65	580	1.45	2108	"	"	11700	17000	0.8	465	1.85
0.6	640	1.35	2350	"	"	11700	17000	0.7	540	1.55
0.55	700	1.2	2604	"	"	11700	17000	0.65	580	1.45
1.0	370	3.1	1398	BK50G10-../D06LA4	96	14100	26000	1.2	300	3.8
0.9	415	2.8	1549	"	"	14100	26000	1.1	335	3.4
0.75	510	2.3	1816	"	"	14100	26000	0.9	415	2.8
0.7	550	2.1	2024	"	"	14100	26000	0.85	445	2.6
0.6	630	1.85	2450	"	"	14100	26000	0.7	530	2.2
0.5	760	1.5	2730	"	"	14100	26000	0.6	620	1.85
0.45	850	1.35	3025	"	"	14100	26000	0.55	680	1.7
0.39	960	1.2	3492	"	"	14100	26000	0.47	790	1.45
0.35	1080	1.05	3870	"	"	14100	26000	0.42	890	1.3
0.39	920	2.7	3533	BK60G20-../D06LA4	123	16600	34000	0.46	690	3.6
0.32	1240	2.0	4239	"	"	16600	34000	0.39	920	2.7
0.27	1570	1.6	5072	"	"	16600	34000	0.32	1240	2.0
0.24	1830	1.35	5721	"	"	16600	34000	0.29	1420	1.75
0.21	2150	1.15	6565	"	"	16600	34000	0.25	1740	1.45
0.19	2450	1.0	7291	"	"	16600	34000	0.23	1940	1.3
0.21	2000	2.9	6504	BK70G20-../D06LA4	201	24100	50000	0.25	1580	3.6
0.17	2650	2.2	8149	"	"	24100	50000	0.2	2150	2.7
0.15	3100	1.85	9351	"	"	24100	50000	0.18	2450	2.3

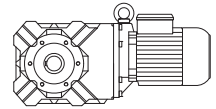
P = 0.09 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
89	8.7	9.2	15.29	BK06-../D04LA4	7.6	1020	-	106	7.3	11
75	10.3	7.8	18.00	"	"	1080	-	90	8.5	9.4
63	12.2	6.6	21.54	"	"	1150	-	76	10.1	7.9
52	14.8	5.4	26.36	"	"	1230	-	62	12.4	6.5
41	18.8	4.3	33.33	"	"	1320	-	49	15.7	5.1
35.5	21.5	3.7	38.18	"	"	1380	-	42.5	18.2	4.4
28.5	26.5	3.0	47.78	"	"	1500	-	34	22	3.6
25	30.5	2.2	54.38	"	"	1600	-	30	25	2.7
21.5	35.5	1.8	63.33	"	"	1700	-	26	29	2.2
13.5	54	2.9	102.5	BK10-../D06LA4	23	7000	-	16	45.5	3.5
11.5	63	2.2	120.3	BK10Z-../D06LA4	24	7000	-	13.5	54	2.5
9.5	75	2.2	143.2	"	"	7000	-	11.5	62	2.6
8.0	89	2.2	170.6	"	"	7000	-	9.5	75	2.7
6.6	106	1.9	204.7	"	"	7000	-	8.0	88	2.3
5.3	132	1.5	257.9	"	"	7000	-	6.3	111	1.8
4.5	154	1.2	302.4	"	"	7000	-	5.4	128	1.45
3.7	188	0.88	373.4	"	"	7000	-	4.4	158	1.05
3.3	186	1.2	410.8	BK10G06-../D06LA4	28	7000	-	4.0	151	1.45
3.0	205	1.05	459.2	"	"	7000	-	3.6	168	1.3
2.7	225	0.98	501.4	"	"	7000	-	3.3	184	1.2
2.5	245	0.9	552.3	"	"	7000	-	3.0	200	1.1
6.6	106	3.1	207.5	BK20Z-../D06LA4	34	8700	9000	7.9	89	3.7
5.2	135	2.4	259.9	"	"	8700	9000	6.3	111	3.0
4.6	151	2.1	298.2	"	"	8700	9000	5.5	126	2.5
3.7	185	1.6	367.7	"	"	8700	9000	4.5	152	1.9

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

**P = 0.09 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
3.2	192	1.9	429.7	BK20G06-../D06LA4	38	8700	9000	3.8	159	2.3
2.9	210	1.7	480.4	"	"	8700	9000	3.4	178	2.0
2.6	235	1.55	524.5	"	"	8700	9000	3.1	196	1.85
2.2	280	1.3	630.0	"	"	8700	9000	2.6	235	1.55
1.8	345	1.05	757.0	"	"	8700	9000	2.2	280	1.3
1.6	385	0.94	891.2	"	"	8700	9000	1.9	320	1.15
4.4	160	2.4	308.3	BK30Z-../D06LA4	41	11200	12000	5.3	132	2.9
3.6	193	2.1	380.7	"	"	11200	12000	4.3	161	2.5
3.1	220	1.75	441.3	"	"	11200	12000	3.7	185	2.1
2.9	210	2.3	471.5	BK30G06-../D06LA4	44	11200	12000	3.5	173	2.8
2.4	255	1.9	567.0	"	"	11200	12000	2.9	210	2.3
2.1	295	1.65	652.5	"	"	11200	12000	2.5	245	2.0
1.9	325	1.5	743.0	"	"	11200	12000	2.2	280	1.75
1.7	365	1.35	810.9	"	"	11200	12000	2.0	305	1.6
1.5	410	1.2	954.1	"	"	11200	12000	1.7	360	1.35
1.2	510	0.96	1142	"	"	11200	12000	1.5	410	1.2
1.1	560	0.88	1281	"	"	11200	12000	1.3	470	1.05
3.9	178	3.3	348.7	BK40Z-../D06LA4	64	11700	17000	4.7	148	3.9
3.2	210	2.7	430.0	"	"	11700	17000	3.8	180	3.2
1.8	295	2.9	756.7	BK40G10-../D06LA4	68	11700	17000	2.2	230	3.7
1.7	320	2.7	838.4	"	"	11700	17000	2.0	260	3.3
1.4	400	2.1	998.3	"	"	11700	17000	1.7	320	2.7
1.2	475	1.8	1189	"	"	11700	17000	1.4	395	2.2
0.95	610	1.4	1428	"	"	11700	17000	1.2	475	1.8
0.8	730	1.15	1798	"	"	11700	17000	0.95	610	1.4
1.6	350	3.3	859.8	BK50G10-../D06LA4	96	14100	26000	1.9	285	4.0
1.4	410	2.8	1024	"	"	14100	26000	1.6	350	3.3
1.1	530	2.2	1230	"	"	14100	26000	1.4	410	2.8
1.0	590	1.95	1398	"	"	14100	26000	1.2	485	2.4
0.9	660	1.75	1549	"	"	14100	26000	1.1	530	2.2
0.75	790	1.45	1816	"	"	14100	26000	0.9	650	1.75
0.7	850	1.35	2024	"	"	14100	26000	0.85	700	1.65
0.6	980	1.15	2450	"	"	14100	26000	0.7	830	1.4
0.7	750	3.3	2010	BK60G20-../D06LA4	123	16600	34000	0.85	530	4.7
0.6	930	2.7	2371	"	"	16600	34000	0.7	720	3.5
0.5	1180	2.1	2733	"	"	16600	34000	0.6	890	2.8
0.45	1360	1.85	3036	"	"	16600	34000	0.55	1010	2.5
0.39	1650	1.5	3533	"	"	16600	34000	0.46	1320	1.9
0.32	2100	1.2	4239	"	"	16600	34000	0.39	1650	1.5
0.35	1750	3.3	3894	BK70G20-../D06LA4	201	24100	50000	0.42	1340	4.3
0.3	2150	2.7	4531	"	"	24100	50000	0.36	1680	3.4
0.25	2700	2.1	5436	"	"	24100	50000	0.3	2150	2.7
0.21	3350	1.7	6504	"	"	24100	50000	0.25	2700	2.1
0.17	4350	1.3	8149	"	"	24100	50000	0.2	3550	1.6
0.15	5000	1.15	9351	"	"	24100	50000	0.18	4050	1.4

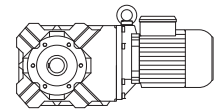
**P = 0.12 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
116	9.0	8.9	11.67	BK06-../D04LA4	7.6	930	-	139	7.5	11
89	11.7	6.8	15.29	"	"	1020	-	106	9.8	8.2
75	13.7	5.8	18.00	"	"	1080	-	90	11.4	7.0
63	16.3	4.9	21.54	"	"	1150	-	76	13.5	5.9
52	19.8	4.0	26.36	"	"	1230	-	62	16.6	4.8
41	25	3.2	33.33	"	"	1320	-	49	21	3.8
35.5	29	2.8	38.18	"	"	1380	-	42.5	24	3.3
28.5	35.5	2.3	47.78	"	"	1500	-	34	29.5	2.7
25	40.5	1.7	54.38	"	"	1600	-	30	33.5	2.0
21.5	47	1.35	63.33	"	"	1700	-	26	39	1.65

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 0.12 kW

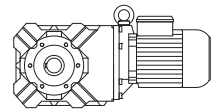


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
15.5	64	2.8	89.30	BK10-../D06LA4	23	7000	-	18.5	53	3.4
13.5	72	2.2	102.5	"	"	7000	-	16	60	2.6
11.5	84	1.65	120.3	BK10Z-../D06LA4	24	7000	-	13.5	72	1.9
9.5	101	1.6	143.2	"	"	7000	-	11.5	83	1.95
8.0	118	1.7	170.6	"	"	7000	-	9.5	100	2.0
6.6	142	1.4	204.7	"	"	7000	-	8.0	117	1.7
5.3	177	1.15	257.9	"	"	7000	-	6.3	149	1.35
4.5	205	0.9	302.4	"	"	7000	-	5.4	171	1.1
4.0	210	1.05	343.2	BK10G06-../D06LA4	28	7000	-	4.8	173	1.25
3.3	255	0.86	410.8	"	"	7000	-	4.0	205	1.05
14	70	3.3	96.99	BK20Z-../D06LA4	34	8700	9000	17	57	4.1
9.4	102	3.2	144.5	"	"	8700	9000	11.5	83	4.0
7.8	121	2.7	173.4	"	"	8700	9000	9.4	101	3.3
6.6	142	2.3	207.5	"	"	8700	9000	7.9	118	2.8
5.2	180	1.85	259.9	"	"	8700	9000	6.3	149	2.2
4.6	200	1.55	298.2	"	"	8700	9000	5.5	168	1.85
3.7	245	1.2	367.7	"	"	8700	9000	4.5	200	1.45
3.2	260	1.4	429.7	BK20G06-../D06LA4	38	8700	9000	3.8	215	1.65
2.9	290	1.25	480.4	"	"	8700	9000	3.4	245	1.45
2.6	320	1.15	524.5	"	"	8700	9000	3.1	265	1.35
2.2	380	0.95	630.0	"	"	8700	9000	2.6	320	1.15
6.3	149	3.0	216.5	BK30Z-../D06LA4	41	11200	12000	7.5	125	3.6
5.3	177	2.5	255.3	"	"	11200	12000	6.4	146	3.1
4.4	210	1.85	308.3	"	"	11200	12000	5.3	177	2.2
3.6	255	1.6	380.7	"	"	11200	12000	4.3	215	1.85
3.1	295	1.3	441.3	"	"	11200	12000	3.7	245	1.55
2.9	290	1.7	471.5	BK30G06-../D06LA4	44	11200	12000	3.5	235	2.1
2.4	350	1.4	567.0	"	"	11200	12000	2.9	285	1.7
2.1	400	1.25	652.5	"	"	11200	12000	2.5	335	1.45
1.9	445	1.1	743.0	"	"	11200	12000	2.2	380	1.3
1.7	495	0.99	810.9	"	"	11200	12000	2.0	420	1.15
1.5	560	0.88	954.1	"	"	11200	12000	1.7	490	1.0
3.9	235	2.5	348.7	BK40Z-../D06LA4	64	11700	17000	4.7	197	2.9
3.2	285	2.0	430.0	"	"	11700	17000	3.8	240	2.4
2.8	255	3.3	487.3	BK40G10-../D06LA4	68	11700	17000	3.4	200	4.3
2.5	290	2.9	540.0	"	"	11700	17000	3.0	230	3.7
2.1	355	2.4	660.2	"	"	11700	17000	2.5	285	3.0
1.8	420	2.0	756.7	"	"	11700	17000	2.2	330	2.6
1.7	450	1.9	838.4	"	"	11700	17000	2.0	370	2.3
1.4	550	1.55	998.3	"	"	11700	17000	1.7	450	1.9
1.2	660	1.3	1189	"	"	11700	17000	1.4	550	1.55
0.95	840	1.0	1428	"	"	11700	17000	1.2	660	1.3
3.3	275	3.1	414.8	BK50Z-../D06LA4	92	14100	26000	4.0	225	3.8
2.1	360	3.2	651.7	BK50G10-../D06LA4	96	14100	26000	2.5	295	3.9
1.9	405	2.8	722.2	"	"	14100	26000	2.3	325	3.5
1.6	490	2.3	859.8	"	"	14100	26000	1.9	405	2.8
1.4	560	2.1	1024	"	"	14100	26000	1.6	490	2.3
1.1	730	1.6	1230	"	"	14100	26000	1.4	570	2.0
1.0	800	1.45	1398	"	"	14100	26000	1.2	660	1.75
0.9	900	1.3	1549	"	"	14100	26000	1.1	730	1.6
0.75	1080	1.05	1816	"	"	14100	26000	0.9	900	1.3
0.85	930	2.7	1618	BK60G20-../D06LA4	123	16600	34000	1.1	630	4.0
0.75	1070	2.3	1810	"	"	16600	34000	0.9	810	3.1
0.7	1160	2.2	2010	"	"	16600	34000	0.85	870	2.9
0.6	1400	1.8	2371	"	"	16600	34000	0.7	1130	2.2
0.5	1750	1.45	2733	"	"	16600	34000	0.6	1370	1.8
0.45	1990	1.25	3036	"	"	16600	34000	0.55	1530	1.65
0.39	2350	1.05	3533	"	"	16600	34000	0.46	1940	1.3
0.45	1900	3.0	3041	BK70G20-../D06LA4	201	24100	50000	0.55	1440	4.0
0.39	2250	2.5	3505	"	"	24100	50000	0.47	1750	3.3

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

**P = 0.12 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
0.35	2550	2.2	3894	BK70G20-../D06LA4	"	24100	50000	0.42	2000	2.9
0.3	3100	1.85	4531	"	"	24100	50000	0.36	2450	2.3
0.25	3850	1.5	5436	"	"	24100	50000	0.3	3100	1.85
0.21	4750	1.2	6504	"	"	24100	50000	0.25	3850	1.5

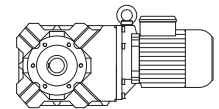
**P = 0.18 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
140	11.2	7.1	9.71	BK06-../D05LA4	9.5	880	-	167	9.4	8.5
116	13.6	5.9	11.67	"	"	930	-	139	11.3	7.1
89	17.5	4.6	15.29	"	"	1020	-	106	14.7	5.4
75	20.5	3.9	18.00	"	"	1080	-	90	17.1	4.7
63	24.5	3.3	21.54	"	"	1150	-	76	20	4.0
52	29.5	2.7	26.36	"	"	1230	-	62	24.5	3.3
41	37.5	2.1	33.33	"	"	1320	-	49	31.5	2.5
35.5	43.5	1.85	38.18	"	"	1380	-	42.5	36	2.2
28.5	53	1.5	47.78	"	"	1500	-	34	44.5	1.8
25	61	1.1	54.38	"	"	1600	-	30	50	1.35
21.5	71	0.89	63.33	"	"	1700	-	26	58	1.1
22	69	2.9	61.68	BK10-../D06LA4	23	7000	-	26.5	57	3.5
19	79	2.5	72.31	"	"	7000	-	22.5	67	3.0
15.5	96	1.85	89.30	"	"	7000	-	18.5	80	2.2
13.5	108	1.45	102.5	"	"	7000	-	16	91	1.75
11.5	127	1.1	120.3	BK10Z-../D06LA4	24	7000	-	13.5	108	1.25
9.5	151	1.1	143.2	"	"	7000	-	11.5	125	1.3
8.0	178	1.1	170.6	"	"	7000	-	9.5	150	1.35
6.6	210	0.95	204.7	"	"	7000	-	8.0	176	1.15
12.5	118	2.7	108.6	BK20-../D06LA4	33	8700	9000	15	98	3.2
11	132	2.5	124.2	BK20Z-../D06LA4	34	8700	9000	13.5	108	3.1
9.4	153	2.2	144.5	"	"	8700	9000	11.5	125	2.6
7.8	182	1.8	173.4	"	"	8700	9000	9.4	151	2.2
6.6	210	1.55	207.5	"	"	8700	9000	7.9	178	1.85
5.2	270	1.2	259.9	"	"	8700	9000	6.3	220	1.5
4.6	300	1.05	298.2	"	"	8700	9000	5.5	250	1.25
3.8	340	1.05	359.1	BK20G06-../D06LA4	38	8700	9000	4.6	280	1.3
3.2	405	0.89	429.7	"	"	8700	9000	3.8	340	1.05
2.9	445	0.81	480.4	"	"	8700	9000	3.4	380	0.95
9.4	153	2.9	145.1	BK30Z-../D06LA4	41	11200	12000	11.5	125	3.6
7.4	192	2.3	184.8	"	"	11200	12000	8.8	162	2.8
6.3	220	2.0	216.5	"	"	11200	12000	7.5	187	2.4
5.3	265	1.7	255.3	"	"	11200	12000	6.4	220	2.0
4.4	320	1.2	308.3	"	"	11200	12000	5.3	265	1.45
3.6	385	1.05	380.7	"	"	11200	12000	4.3	320	1.25
3.1	440	0.87	441.3	"	"	11200	12000	3.7	370	1.05
2.9	445	1.1	471.5	BK30G06-../D06LA4	44	11200	12000	3.5	370	1.3
2.4	540	0.91	567.0	"	"	11200	12000	2.9	445	1.1
2.1	610	0.8	652.5	"	"	11200	12000	2.5	510	0.96
5.5	250	3.1	246.6	BK40Z-../D06LA4	64	11700	17000	6.6	210	3.7
4.7	295	2.3	289.8	"	"	11700	17000	5.6	245	2.8
3.9	355	1.65	348.7	"	"	11700	17000	4.7	295	1.95
3.2	425	1.35	430.0	"	"	11700	17000	3.8	360	1.6
2.8	420	2.0	487.3	BK40G10-../D06LA4	68	11700	17000	3.4	335	2.5
2.5	470	1.8	540.0	"	"	11700	17000	3.0	385	2.2
2.1	560	1.5	660.2	"	"	11700	17000	2.5	465	1.85
1.8	660	1.3	756.7	"	"	11700	17000	2.2	530	1.6
1.7	710	1.2	838.4	"	"	11700	17000	2.0	590	1.45
1.4	870	0.98	998.3	"	"	11700	17000	1.7	710	1.2
1.2	1020	0.83	1189	"	"	11700	17000	1.4	870	0.98

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 0.18 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
4.2	330	3.1	328.2	BK50Z-../D06LA4	92	14100	26000	5.0	275	3.7
3.3	415	2.0	414.8	"	"	14100	26000	4.0	340	2.5
3.0	395	2.9	465.1	BK50G10-../D06LA4	96	14100	26000	3.5	330	3.5
2.7	440	2.6	513.4	"	"	14100	26000	3.2	365	3.2
2.4	500	2.3	568.6	"	"	14100	26000	2.9	405	2.8
2.1	570	2.0	651.7	"	"	14100	26000	2.5	475	2.4
1.9	640	1.8	722.2	"	"	14100	26000	2.3	520	2.2
1.6	760	1.5	859.8	"	"	14100	26000	1.9	640	1.8
1.4	880	1.3	1024	"	"	14100	26000	1.6	760	1.5
1.1	1120	1.05	1230	"	"	14100	26000	1.4	880	1.3
1.0	1240	0.93	1398	"	"	14100	26000	1.2	1030	1.1
1.4	920	2.7	1016	BK60G20-../D06LA4	123	16600	34000	1.6	770	3.2
1.1	1220	2.0	1322	"	"	16600	34000	1.3	980	2.6
0.85	1610	1.55	1618	"	"	16600	34000	1.1	1150	2.2
0.75	1830	1.35	1810	"	"	16600	34000	0.9	1450	1.7
0.7	1980	1.25	2010	"	"	16600	34000	0.85	1550	1.6
0.6	2350	1.05	2371	"	"	16600	34000	0.7	1950	1.3
0.8	1720	3.3	1696	BK70G20-../D06LA4	201	24100	50000	1.0	1290	4.4
0.7	1940	2.9	2040	"	"	24100	50000	0.8	1630	3.5
0.55	2500	2.3	2578	"	"	24100	50000	0.65	2000	2.9
0.45	3150	1.8	3041	"	"	24100	50000	0.55	2450	2.3
0.39	3700	1.55	3505	"	"	24100	50000	0.47	2950	1.95
0.35	4200	1.35	3894	"	"	24100	50000	0.42	3350	1.7
0.3	5000	1.15	4531	"	"	24100	50000	0.36	4050	1.4

P = 0.25 kW

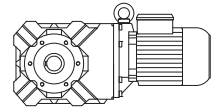
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
140	15.6	5.1	9.71	BK06-../D05LA4	9.5	880	-	167	13.1	6.1
116	18.9	4.2	11.67	"	"	930	-	139	15.8	5.1
89	24	3.3	15.29	"	"	1020	-	106	20	4.0
75	28.5	2.8	18.00	"	"	1080	-	90	23.5	3.4
63	34	2.4	21.54	"	"	1150	-	76	28	2.9
52	41	1.95	26.36	"	"	1230	-	62	34.5	2.3
41	52	1.55	33.33	"	"	1320	-	49	43.5	1.85
35.5	60	1.35	38.18	"	"	1380	-	42.5	50	1.6
28.5	74	1.1	47.78	"	"	1500	-	34	62	1.3
25	84	0.81	54.38	"	"	1600	-	30	70	0.97
33.5	64	3.1	40.79	BK10-../D06LA4	23	6000	-	40	53	3.8
28	75	2.7	48.96	"	"	6400	-	33.5	63	3.2
22	96	2.1	61.68	"	"	7000	-	26.5	80	2.5
19	110	1.8	72.31	"	"	7000	-	22.5	93	2.2
15.5	134	1.35	89.30	"	"	7000	-	18.5	112	1.6
13.5	150	1.05	102.5	"	"	7000	-	16	126	1.25
8.0	245	0.82	170.6	BK10Z-../D06LA4	24	7000	-	9.5	205	0.98
18	116	2.8	76.79	BK20-../D06LA4	33	7500	9000	21.5	97	3.4
15.5	134	2.5	88.12	"	"	8000	9000	18.5	112	2.9
12.5	164	1.9	108.6	"	"	8700	9000	15	136	2.3
11	184	1.8	124.2	BK20Z-../D06LA4	34	8700	9000	13.5	150	2.2
9.4	210	1.55	144.5	"	"	8700	9000	11.5	174	1.9
7.8	250	1.3	173.4	"	"	8700	9000	9.4	210	1.55
6.6	295	1.1	207.5	"	"	8700	9000	7.9	245	1.35
5.2	375	0.88	259.9	"	"	8700	9000	6.3	310	1.05
13.5	150	3.0	102.4	BK30-../D06LA4	39	11200	12000	16	126	3.6
11	184	2.4	123.9	BK30Z-../D06LA4	41	11200	12000	13.5	150	3.0
9.4	210	2.1	145.1	"	"	11200	12000	11.5	174	2.6
7.4	265	1.7	184.8	"	"	11200	12000	8.8	225	2.0
6.3	310	1.45	216.5	"	"	11200	12000	7.5	260	1.75



# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 0.25 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
5.3	365	1.25	255.3	BK30Z-../D06LA4	"	11200	12000	6.4	305	1.5
4.4	440	0.88	308.3	"	"	11200	12000	5.3	365	1.05
8.0	245	3.2	169.0	BK40Z-../D06LA4	64	11700	17000	9.6	205	3.8
6.4	305	2.6	211.5	"	"	11700	17000	7.7	250	3.1
5.5	350	2.2	246.6	"	"	11700	17000	6.6	290	2.7
4.7	410	1.65	289.8	"	"	11700	17000	5.6	345	2.0
3.9	495	1.15	348.7	"	"	11700	17000	4.7	410	1.4
3.2	590	0.97	430.0	"	"	11700	17000	3.8	500	1.15
2.8	610	1.4	487.3	BK40G10-../D06LA4	68	11700	17000	3.4	495	1.7
2.5	680	1.25	540.0	"	"	11700	17000	3.0	560	1.5
2.1	810	1.05	660.2	"	"	11700	17000	2.5	680	1.25
1.8	950	0.89	756.7	"	"	11700	17000	2.2	770	1.1
1.7	1020	0.83	838.4	"	"	11700	17000	2.0	860	0.99
5.2	370	2.8	264.5	BK50Z-../D06LA4	92	14100	26000	6.2	310	3.4
4.2	460	2.2	328.2	"	"	14100	26000	5.0	385	2.6
3.3	570	1.5	414.8	"	"	14100	26000	4.0	475	1.8
3.0	570	2.0	465.1	BK50G10-../D06LA4	96	14100	26000	3.5	485	2.4
2.7	630	1.85	513.4	"	"	14100	26000	3.2	530	2.2
2.4	720	1.6	568.6	"	"	14100	26000	2.9	590	1.95
2.1	820	1.4	651.7	"	"	14100	26000	2.5	680	1.7
1.9	910	1.25	722.2	"	"	14100	26000	2.3	750	1.55
1.6	1090	1.05	859.8	"	"	14100	26000	1.9	910	1.25
1.4	1250	0.92	1024	"	"	14100	26000	1.6	1090	1.05
2.2	820	3.0	621.5	BK60G20-../D06LA4	123	16600	34000	2.7	620	4.0
1.8	1010	2.5	752.1	"	"	16600	34000	2.2	770	3.2
1.6	1150	2.2	887.8	"	"	16600	34000	1.9	920	2.7
1.4	1400	1.8	1016	"	"	16600	34000	1.6	1190	2.1
1.1	1830	1.35	1322	"	"	16600	34000	1.3	1500	1.65
0.85	2350	1.05	1618	"	"	16600	34000	1.1	1760	1.4
1.1	1790	3.2	1280	BK70G20-../D06LA4	201	24100	50000	1.3	1450	3.9
0.95	2050	2.8	1457	"	"	24100	50000	1.2	1560	3.7
0.8	2550	2.2	1696	"	"	24100	50000	1.0	1950	2.9
0.7	2850	2.0	2040	"	"	24100	50000	0.8	2450	2.3
0.55	3700	1.55	2578	"	"	24100	50000	0.65	3050	1.85
0.45	4650	1.25	3041	"	"	24100	50000	0.55	3650	1.55
0.39	5400	1.05	3505	"	"	24100	50000	0.47	4350	1.3

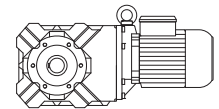
P = 0.3 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
140	18.8	4.3	9.71	BK06-../D07LA4	14	880	-	167	15.7	5.1
116	22.5	3.6	11.67	"	"	930	-	139	18.9	4.2
89	29	2.8	15.29	"	"	1020	-	106	24.5	3.3
75	34	2.4	18.00	"	"	1080	-	90	28.5	2.8
63	40.5	2.0	21.54	"	"	1150	-	76	33.5	2.4
52	49.5	1.6	26.36	"	"	1230	-	62	41.5	1.95
41	62	1.3	33.33	"	"	1320	-	49	52	1.55
35.5	72	1.1	38.18	"	"	1380	-	42.5	60	1.35
28.5	89	0.9	47.78	"	"	1500	-	34	74	1.1
39.5	65	3.1	34.25	BK10-../D07LA4	26	5600	-	47.5	54	3.7
33.5	76	2.6	40.79	"	"	6000	-	40	64	3.1
28	91	2.2	48.96	"	"	6400	-	33.5	76	2.6
22	115	1.75	61.68	"	"	7000	-	26.5	96	2.1
19	132	1.5	72.31	"	"	7000	-	22.5	112	1.8
15.5	160	1.1	89.30	"	"	7000	-	18.5	134	1.35
13.5	180	0.87	102.5	"	"	7000	-	16	152	1.05
22.5	113	2.9	61.30	BK20-../D07LA4	35	6500	9000	26.5	96	3.4
18	140	2.4	76.79	"	"	7500	9000	21.5	117	2.8

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 0.3 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
15.5	160	2.1	88.12	BK20-../D07LA4	"	8000	9000	18.5	134	2.5
12.5	197	1.6	108.6	"	"	8700	9000	15	164	1.9
11	220	1.5	124.2	BK20Z-../D07LA4	37	8700	9000	13.5	180	1.85
9.4	255	1.3	144.5	"	"	8700	9000	11.5	205	1.6
7.8	300	1.1	173.4	"	"	8700	9000	9.4	250	1.3
6.6	355	0.93	207.5	"	"	8700	9000	7.9	295	1.1
15.5	158	2.8	88.38	BK30-../D07LA4	41	10600	12000	18.5	133	3.4
13.5	180	2.5	102.4	"	"	11200	12000	16	152	3.0
11	220	2.0	123.9	BK30Z-../D07LA4	44	11200	12000	13.5	180	2.5
9.4	255	1.75	145.1	"	"	11200	12000	11.5	205	2.2
7.4	320	1.4	184.8	"	"	11200	12000	8.8	270	1.65
6.3	370	1.2	216.5	"	"	11200	12000	7.5	310	1.45
5.3	440	1.0	255.3	"	"	11200	12000	6.4	365	1.25
9.5	250	3.1	143.0	BK40Z-../D07LA4	66	11700	17000	11.5	205	3.8
8.0	295	2.6	169.0	"	"	11700	17000	9.6	245	3.2
6.4	365	2.1	211.5	"	"	11700	17000	7.7	305	2.6
5.5	420	1.85	246.6	"	"	11700	17000	6.6	350	2.2
4.7	490	1.4	289.8	"	"	11700	17000	5.6	410	1.65
3.9	590	0.98	348.7	"	"	11700	17000	4.7	490	1.2
3.2	710	0.81	430.0	"	"	11700	17000	3.8	600	0.96
2.8	740	1.15	487.3	BK40G10-../D07LA4	71	11700	17000	3.4	600	1.4
2.5	830	1.0	540.0	"	"	11700	17000	3.0	680	1.25
2.1	990	0.86	660.2	"	"	11700	17000	2.5	830	1.0
6.6	355	3.0	206.8	BK50Z-../D07LA4	95	14100	26000	7.9	295	3.6
5.2	445	2.4	264.5	"	"	14100	26000	6.2	370	2.8
4.2	550	1.85	328.2	"	"	14100	26000	5.0	460	2.2
3.3	690	1.2	414.8	"	"	14100	26000	4.0	570	1.5
3.0	700	1.65	465.1	BK50G10-../D07LA4	99	14100	26000	3.5	590	1.95
2.7	780	1.45	513.4	"	"	14100	26000	3.2	650	1.75
2.4	870	1.3	568.6	"	"	14100	26000	2.9	720	1.6
2.1	1000	1.15	651.7	"	"	14100	26000	2.5	830	1.4
1.9	1110	1.05	722.2	"	"	14100	26000	2.3	910	1.25
1.6	1320	0.87	859.8	"	"	14100	26000	1.9	1110	1.05
2.2	1040	2.4	621.5	BK60G20-../D07LA4	125	16600	34000	2.7	800	3.1
1.8	1270	1.95	752.1	"	"	16600	34000	2.2	980	2.6
1.6	1450	1.7	887.8	"	"	16600	34000	1.9	1170	2.1
1.4	1740	1.45	1016	"	"	16600	34000	1.6	1490	1.7
1.1	2250	1.1	1322	"	"	16600	34000	1.3	1860	1.35
1.2	1950	2.9	1139	BK70G20-../D07LA4	204	24100	50000	1.5	1480	3.9
1.1	2200	2.6	1280	"	"	24100	50000	1.3	1820	3.1
0.95	2550	2.2	1457	"	"	24100	50000	1.2	1950	2.9
0.8	3150	1.8	1696	"	"	24100	50000	1.0	2400	2.4
0.7	3550	1.6	2040	"	"	24100	50000	0.8	3050	1.85
0.55	4600	1.25	2578	"	"	24100	50000	0.65	3800	1.5

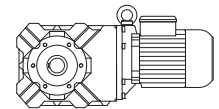
P = 0.37 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
140	23	3.5	9.71	BK06-../D07LA4	14	880	-	167	19.4	4.1
116	28	2.9	11.67	"	"	930	-	139	23	3.5
89	36	2.2	15.29	"	"	1020	-	106	30	2.7
75	42	1.9	18.00	"	"	1080	-	90	35	2.3
63	50	1.6	21.54	"	"	1150	-	76	41.5	1.95
52	61	1.3	26.36	"	"	1230	-	62	51	1.55
41	77	1.05	33.33	"	"	1320	-	49	64	1.25
35.5	89	0.9	38.18	"	"	1380	-	42.5	74	1.1

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

**P = 0.37 kW**

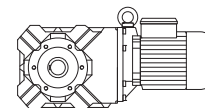


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
47	67	3.0	28.76	<b>BK10-../D07LA4</b>	26	5200	-	57	55	3.6
39.5	80	2.5	34.25	"	"	5600	-	47.5	66	3.0
33.5	94	2.1	40.79	"	"	6000	-	40	79	2.5
28	112	1.8	48.96	"	"	6400	-	33.5	93	2.2
22	142	1.4	61.68	"	"	7000	-	26.5	118	1.7
19	163	1.25	72.31	"	"	7000	-	22.5	138	1.45
15.5	198	0.9	89.30	"	"	7000	-	18.5	166	1.05
32	99	3.3	42.70	<b>BK20-../D07LA4</b>	35	5800	9000	38	83	4.0
26.5	118	2.8	51.22	"	"	6300	9000	32	98	3.4
22.5	139	2.4	61.30	"	"	6500	9000	26.5	118	2.8
18	172	1.9	76.79	"	"	7500	9000	21.5	144	2.3
15.5	198	1.65	88.12	"	"	8000	9000	18.5	166	2.0
12.5	240	1.3	108.6	"	"	8700	9000	15	200	1.6
11	270	1.2	124.2	<b>BK20Z-../D07LA4</b>	37	8700	9000	13.5	220	1.5
9.4	315	1.05	144.5	"	"	8700	9000	11.5	255	1.3
7.8	375	0.88	173.4	"	"	8700	9000	9.4	310	1.05
23	135	3.3	59.27	<b>BK30-../D07LA4</b>	41	8900	12000	27.5	113	4.0
19	161	2.8	71.56	"	"	9700	12000	23	133	3.4
15.5	196	2.3	88.38	"	"	10600	12000	18.5	164	2.7
13.5	220	2.0	102.4	"	"	11200	12000	16	187	2.4
11	270	1.65	123.9	<b>BK30Z-../D07LA4</b>	44	11200	12000	13.5	220	2.0
9.4	315	1.45	145.1	"	"	11200	12000	11.5	255	1.75
7.4	395	1.15	184.8	"	"	11200	12000	8.8	330	1.35
6.3	455	0.99	216.5	"	"	11200	12000	7.5	385	1.15
5.3	540	0.83	255.3	"	"	11200	12000	6.4	450	1.0
11.5	260	3.0	118.2	<b>BK40Z-../D07LA4</b>	66	11700	17000	14	210	3.7
9.5	310	2.5	143.0	"	"	11700	17000	11.5	255	3.1
8.0	365	2.1	169.0	"	"	11700	17000	9.6	305	2.6
6.4	450	1.75	211.5	"	"	11700	17000	7.7	375	2.1
5.5	520	1.5	246.6	"	"	11700	17000	6.6	430	1.8
4.7	600	1.15	289.8	"	"	11700	17000	5.6	510	1.35
3.9	730	0.8	348.7	"	"	11700	17000	4.7	600	0.97
2.8	930	0.91	487.3	<b>BK40G10-../D07LA4</b>	71	11700	17000	3.4	760	1.1
2.5	1040	0.82	540.0	"	"	11700	17000	3.0	860	0.99
8.9	325	3.2	153.3	<b>BK50Z-../D07LA4</b>	95	14100	26000	11	265	4.0
6.6	435	2.4	206.8	"	"	14100	26000	7.9	365	2.9
5.2	550	1.9	264.5	"	"	14100	26000	6.2	460	2.3
4.2	680	1.5	328.2	"	"	14100	26000	5.0	570	1.75
3.3	850	0.99	414.8	"	"	14100	26000	4.0	700	1.2
3.0	870	1.3	465.1	<b>BK50G10-../D07LA4</b>	99	14100	26000	3.5	740	1.55
2.7	970	1.2	513.4	"	"	14100	26000	3.2	810	1.4
2.4	1090	1.05	568.6	"	"	14100	26000	2.9	900	1.3
2.1	1250	0.92	651.7	"	"	14100	26000	2.5	1050	1.1
1.9	1380	0.83	722.2	"	"	14100	26000	2.3	1140	1.0
2.2	1340	1.85	621.5	<b>BK60G20-../D07LA4</b>	125	16600	34000	2.7	1040	2.4
1.8	1640	1.5	752.1	"	"	16600	34000	2.2	1290	1.95
1.6	1870	1.35	887.8	"	"	16600	34000	1.9	1520	1.65
1.4	2200	1.15	1016	"	"	16600	34000	1.6	1900	1.3
1.1	2850	0.88	1322	"	"	16600	34000	1.3	2350	1.05
1.6	1850	3.1	847.7	<b>BK70G20-../D07LA4</b>	204	24100	50000	2.0	1410	4.0
1.4	2100	2.7	964.6	"	"	24100	50000	1.7	1670	3.4
1.2	2500	2.3	1139	"	"	24100	50000	1.5	1920	3.0
1.1	2800	2.0	1280	"	"	24100	50000	1.3	2300	2.5
0.95	3250	1.75	1457	"	"	24100	50000	1.2	2500	2.3
0.8	3950	1.45	1696	"	"	24100	50000	1.0	3100	1.85
0.7	4500	1.25	2040	"	"	24100	50000	0.8	3900	1.45

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 0.55 kW

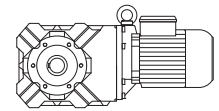


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
194	24.5	3.0	7.25	BK06-../D08MA4	15	790	-	235	20.5	3.6
145	33	2.4	9.71	"	"	880	-	174	27.5	2.9
120	40	2.0	11.67	"	"	930	-	144	33.5	2.4
92	51	1.55	15.29	"	"	1020	-	110	43	1.85
78	60	1.35	18.00	"	"	1080	-	94	50	1.6
65	72	1.1	21.54	"	"	1150	-	78	60	1.35
54	87	0.92	26.36	"	"	1230	-	64	73	1.1
118	40.5	2.8	11.93	BK10-../D08MA4	27	3100	-	141	34	3.4
83	56	2.4	16.92	"	"	3700	-	100	47	2.9
76	62	3.2	18.52	"	"	4300	-	91	51	3.9
62	76	2.6	22.65	"	"	4650	-	75	63	3.2
49	96	2.1	28.76	"	"	5200	-	59	80	2.5
41	115	1.75	34.25	"	"	5600	-	49.5	95	2.1
34.5	137	1.45	40.79	"	"	6000	-	41.5	113	1.75
29	161	1.25	48.96	"	"	6400	-	34.5	135	1.5
23	200	1.0	61.68	"	"	7000	-	27.5	169	1.2
19.5	235	0.85	72.31	"	"	7000	-	23.5	196	1.0
38.5	122	2.7	36.69	BK20-../D08MA4	36	5400	9000	46	102	3.2
33	143	2.3	42.70	"	"	5800	9000	39.5	119	2.8
27.5	169	1.95	51.22	"	"	6300	9000	33	141	2.3
23	200	1.65	61.30	"	"	6500	9000	27.5	169	1.95
18.5	245	1.35	76.79	"	"	7500	9000	22	210	1.55
16	285	1.15	88.12	"	"	8000	9000	19.5	230	1.45
13	345	0.91	108.6	"	"	8700	9000	15.5	290	1.1
11.5	385	0.86	124.2	BK20Z-../D08MA4	38	8700	9000	14	315	1.05
33	141	3.2	42.89	BK30-../D08MA4	42	7800	12000	39.5	118	3.8
28	165	2.7	50.27	"	"	8300	12000	33.5	137	3.3
24	192	2.3	59.27	"	"	8900	12000	28.5	162	2.8
20	225	2.0	71.56	"	"	9700	12000	23.5	194	2.3
16	280	1.6	88.38	"	"	10600	12000	19.5	230	1.95
14	315	1.45	102.4	"	"	11200	12000	16.5	270	1.65
11.5	385	1.15	123.9	BK30Z-../D08MA4	45	11200	12000	14	315	1.45
9.7	450	1.0	145.1	"	"	11200	12000	12	365	1.25
17	265	2.9	84.36	BK40-../D08MA4	63	10700	17000	20	225	3.5
13.5	330	2.4	104.0	"	"	11700	17000	16.5	270	2.9
12	370	2.1	118.2	BK40Z-../D08MA4	67	11700	17000	14.5	305	2.6
9.8	450	1.75	143.0	"	"	11700	17000	12	365	2.1
8.3	520	1.5	169.0	"	"	11700	17000	10	435	1.8
6.7	640	1.2	211.5	"	"	11700	17000	8.0	530	1.45
5.7	740	1.05	246.6	"	"	11700	17000	6.9	610	1.3
4.9	860	0.8	289.8	"	"	11700	17000	5.8	730	0.94
12.5	355	3.0	115.4	BK50Z-../D08MA4	96	14100	26000	15	295	3.6
9.2	470	2.2	153.3	"	"	14100	26000	11	395	2.7
6.8	630	1.65	206.8	"	"	14100	26000	8.2	520	2.0
5.3	800	1.3	264.5	"	"	14100	26000	6.4	660	1.6
4.3	980	1.05	328.2	"	"	14100	26000	5.2	810	1.25
3.1	1290	0.89	465.1	BK50G10-../D08MA4	100	14100	26000	3.7	1080	1.05
2.8	1420	0.81	513.4	"	"	14100	26000	3.3	1210	0.95
6.9	760	3.0	205.0	BK60Z-../D08MA4	119	16600	34000	8.2	640	3.6
5.9	890	2.6	239.7	"	"	16600	34000	7.1	730	3.2
5.3	990	2.3	268.2	"	"	16600	34000	6.3	830	2.8
4.5	1160	2.0	317.7	"	"	16600	34000	5.3	990	2.3
4.0	1310	1.75	355.5	"	"	16600	34000	4.8	1090	2.1
3.5	1500	1.55	411.5	"	"	16600	34000	4.1	1280	1.8
3.1	1690	1.35	460.4	"	"	16600	34000	3.7	1410	1.65
2.9	1810	1.25	498.0	"	"	16600	34000	3.4	1540	1.5
2.6	2000	1.15	557.2	"	"	16600	34000	3.1	1690	1.35
2.3	2000	1.25	621.5	BK60G20-../D08MA4	126	16600	34000	2.8	1610	1.55
1.9	2400	1.05	752.1	"	"	16600	34000	2.3	1960	1.3
1.6	2900	0.86	887.8	"	"	16600	34000	1.9	2400	1.05

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

**P = 0.55 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
3.3	1590	3.3	432.1	<b>BK70Z-../D08MA4</b>	207	24100	50000	3.9	1340	3.9
2.8	1870	2.8	501.8	"	"	24100	50000	3.4	1540	3.4
2.5	2100	2.5	570.8	"	"	24100	50000	3.0	1750	3.0
2.2	2350	2.2	644.9	"	"	24100	50000	2.7	1940	2.7
2.0	2600	2.0	733.6	"	"	24100	50000	2.3	2250	2.3
1.7	2700	2.1	847.7	<b>BK70G20-../D08MA4</b>	205	24100	50000	2.0	2250	2.5
1.5	3050	1.85	964.6	"	"	24100	50000	1.8	2500	2.3
1.3	3600	1.6	1139	"	"	24100	50000	1.5	3050	1.85
1.1	4350	1.3	1280	"	"	24100	50000	1.4	3350	1.7
1.0	4800	1.2	1457	"	"	24100	50000	1.2	3900	1.45
1.1	3750	3.1	1307	<b>BK80G40-../D08MA4</b>	347	30000	75000	1.3	3000	3.8
1.0	4050	2.8	1425	"	"	30000	75000	1.2	3150	3.7
0.9	4600	2.5	1583	"	"	30000	75000	1.1	3550	3.2
0.8	5200	2.2	1775	"	"	30000	75000	0.95	4200	2.7
0.65	6600	1.75	2205	"	"	30000	75000	0.8	5100	2.3
0.6	7300	1.6	2449	"	"	30000	75000	0.7	6000	1.9
0.5	9000	1.3	2811	"	"	30000	75000	0.6	7200	1.6
0.45	10200	1.15	3120	"	"	30000	75000	0.55	8000	1.45
0.55	7400	2.5	2764	<b>BK90G50-../D08MA4</b>	620	49400	120000	0.65	5900	3.1
0.46	9300	2.0	3065	"	"	49400	120000	0.55	7400	2.5
0.39	11300	1.65	3672	"	"	49400	120000	0.46	9300	2.0
0.35	12900	1.45	4070	"	"	49400	120000	0.42	10300	1.8
0.29	16000	1.15	4952	"	"	49400	120000	0.34	13300	1.4
0.26	18000	1.05	5491	"	"	49400	120000	0.31	14800	1.25

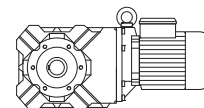
**P = 0.75 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
196	33.5	2.2	7.25	<b>BK06-../DHE08XA4</b>	18	790	-	240	27	2.7
147	44.5	1.8	9.71	"	"	880	-	177	37	2.2
122	54	1.5	11.67	"	"	930	-	147	44.5	1.8
93	70	1.15	15.29	"	"	1020	-	112	58	1.4
79	81	0.99	18.00	"	"	1080	-	95	67	1.2
66	97	0.82	21.54	"	"	1150	-	80	80	1.0
185	35.5	3.2	7.68	<b>BK10-../DHE08XA4</b>	30	2400	-	225	29	4.0
152	43	2.7	9.40	"	"	2700	-	182	36	3.2
120	54	2.1	11.93	"	"	3100	-	144	45.5	2.5
98	65	3.1	14.50	"	"	3900	-	118	54	3.7
84	76	1.8	16.92	"	"	3700	-	102	63	2.2
77	83	2.4	18.52	"	"	4300	-	93	69	2.9
63	102	1.95	22.65	"	"	4650	-	76	84	2.4
49.5	130	1.55	28.76	"	"	5200	-	60	107	1.85
41.5	155	1.3	34.25	"	"	5600	-	50	128	1.55
35	184	1.1	40.79	"	"	6000	-	42	153	1.3
29.5	215	0.93	48.96	"	"	6400	-	35	182	1.1
82	79	2.9	17.42	<b>BK20-../DHE08XA4</b>	39	3250	9000	99	65	3.6
59	109	3.0	24.29	"	"	4500	9000	71	90	3.7
50	128	2.6	28.66	"	"	4850	9000	60	107	3.1
39	165	2.0	36.69	"	"	5400	9000	47	137	2.4
33.5	192	1.7	42.70	"	"	5800	9000	40.5	159	2.1
28	225	1.45	51.22	"	"	6300	9000	33.5	190	1.75
23.5	270	1.2	61.30	"	"	6500	9000	28	225	1.45
18.5	340	0.97	76.79	"	"	7500	9000	22.5	280	1.2
16.5	375	0.88	88.12	"	"	8000	9000	19.5	315	1.05
42.5	151	3.0	33.70	<b>BK30-../DHE08XA4</b>	45	7000	12000	51	126	3.6
33.5	190	2.4	42.89	"	"	7800	12000	40	159	2.8
28.5	220	2.0	50.27	"	"	8300	12000	34.5	182	2.5
24	260	1.75	59.27	"	"	8900	12000	29	215	2.1

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 0.75 kW

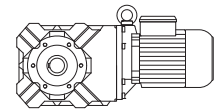


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
20	310	1.45	71.56	<b>BK30-../DHE08XA4</b>	"	9700	12000	24	255	1.75
16.5	370	1.2	88.38	"	"	10600	12000	19.5	315	1.45
14	430	1.05	102.4	"	"	11200	12000	17	355	1.25
11.5	520	0.87	123.9	<b>BK30Z-../DHE08XA4</b>	48	11200	12000	14	430	1.05
24	260	3.0	59.66	<b>BK40-../DHE08XA4</b>	65	9100	17000	29	215	3.6
20.5	300	2.6	70.11	"	"	9800	17000	24.5	250	3.1
17	365	2.1	84.36	"	"	10700	17000	20.5	300	2.6
14	430	1.8	104.0	"	"	11700	17000	16.5	365	2.1
12.5	485	1.6	118.2	<b>BK40Z-../DHE08XA4</b>	70	11700	17000	14.5	415	1.9
10	600	1.3	143.0	"	"	11700	17000	12	500	1.55
8.5	690	1.15	169.0	"	"	11700	17000	10.5	560	1.4
6.8	860	0.91	211.5	"	"	11700	17000	8.1	720	1.1
19	325	3.2	75.40	<b>BK50-../DHE08XA4</b>	94	12600	26000	23	270	3.9
15	410	2.6	95.29	"	"	14100	26000	18	340	3.1
12.5	485	2.2	115.4	<b>BK50Z-../DHE08XA4</b>	98	14100	26000	15	405	2.6
9.3	630	1.65	153.3	"	"	14100	26000	11.5	510	2.1
6.9	850	1.25	206.8	"	"	14100	26000	8.3	700	1.5
5.4	1070	0.98	264.5	"	"	14100	26000	6.5	890	1.2
9.3	770	3.0	153.7	<b>BK60Z-../DHE08XA4</b>	121	16600	34000	11.5	620	3.7
7.8	910	2.5	183.2	"	"	16600	34000	9.4	760	3.0
7.0	1020	2.3	205.0	"	"	16600	34000	8.4	850	2.7
6.0	1190	1.95	239.7	"	"	16600	34000	7.2	990	2.3
5.3	1350	1.7	268.2	"	"	16600	34000	6.4	1110	2.1
4.5	1590	1.45	317.7	"	"	16600	34000	5.4	1320	1.75
4.0	1790	1.3	355.5	"	"	16600	34000	4.9	1460	1.6
3.5	2000	1.15	411.5	"	"	16600	34000	4.2	1700	1.35
3.1	2300	1.0	460.4	"	"	16600	34000	3.8	1880	1.2
2.9	2450	0.94	498.0	"	"	16600	34000	3.5	2000	1.15
2.6	2750	0.84	557.2	"	"	16600	34000	3.1	2300	1.0
2.3	2850	0.88	621.5	<b>BK60G20-../DHE08XA4</b>	129	16600	34000	2.8	2250	1.1
4.3	1660	3.1	333.6	<b>BK70Z-../DHE08XA4</b>	210	24100	50000	5.2	1370	3.8
3.8	1880	2.8	379.9	"	"	24100	50000	4.6	1550	3.4
3.3	2150	2.4	432.1	"	"	24100	50000	4.0	1790	2.9
2.9	2450	2.1	501.8	"	"	24100	50000	3.5	2000	2.6
2.5	2850	1.8	570.8	"	"	24100	50000	3.0	2350	2.2
2.3	3100	1.7	644.9	"	"	24100	50000	2.7	2650	1.95
2.0	3550	1.45	733.6	"	"	24100	50000	2.4	2950	1.75
1.7	3850	1.5	847.7	<b>BK70G20-../DHE08XA4</b>	207	24100	50000	2.1	3050	1.85
1.5	4350	1.3	964.6	"	"	24100	50000	1.8	3550	1.6
1.3	5000	1.15	1139	"	"	24100	50000	1.6	4000	1.45
1.2	5500	1.05	1280	"	"	24100	50000	1.4	4700	1.2
1.0	6700	0.85	1457	"	"	24100	50000	1.2	5500	1.05
1.5	3850	3.0	963.0	<b>BK80G40-../DHE08XA4</b>	349	30000	75000	1.8	3050	3.8
1.4	4100	2.8	1079	"	"	30000	75000	1.6	3450	3.3
1.1	5400	2.1	1307	"	"	30000	75000	1.4	4100	2.8
1.0	5900	1.95	1425	"	"	30000	75000	1.2	4750	2.4
0.9	6700	1.7	1583	"	"	30000	75000	1.1	5200	2.2
0.8	7600	1.5	1775	"	"	30000	75000	1.0	5800	2.0
0.65	9600	1.2	2205	"	"	30000	75000	0.8	7500	1.55
0.6	10400	1.1	2449	"	"	30000	75000	0.7	8700	1.3
0.9	6400	2.9	1579	<b>BK90G50-../DHE08XA4</b>	622	49400	120000	1.1	5000	3.7
0.8	7200	2.6	1803	"	"	49400	120000	0.95	5800	3.2
0.75	7600	2.4	2016	"	"	49400	120000	0.85	6500	2.8
0.55	10900	1.7	2764	"	"	49400	120000	0.65	8900	2.1
0.47	13100	1.4	3065	"	"	49400	120000	0.6	9800	1.9
0.39	16200	1.15	3672	"	"	49400	120000	0.47	13100	1.4
0.35	18300	1.0	4070	"	"	49400	120000	0.43	14500	1.3

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 1.1 kW

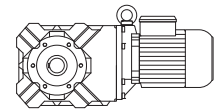


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
325	29.5	3.2	4.44	BK10-../DHE09LA4	36	1890	-	395	24	4.0
240	40	2.6	6.02	"	"	2100	-	290	33	3.2
188	51	2.3	7.68	"	"	2400	-	230	42	2.7
154	62	1.85	9.40	"	"	2700	-	186	51	2.3
135	70	2.6	10.70	"	"	3500	-	163	58	3.1
121	79	1.45	11.93	"	"	3100	-	146	66	1.75
100	94	2.1	14.50	"	"	3900	-	120	78	2.6
86	109	1.25	16.92	"	"	3700	-	103	91	1.5
78	121	1.65	18.52	"	"	4300	-	94	100	2.0
64	147	1.35	22.65	"	"	4650	-	77	122	1.65
51	185	1.1	28.76	"	"	5200	-	61	154	1.3
42.5	220	0.91	34.25	"	"	5600	-	51	185	1.1
124	77	3.0	11.69	BK20-../DHE09LA4	46	2400	8800	149	64	3.6
83	115	2.0	17.42	"	"	3250	9000	100	95	2.4
75	126	2.6	19.39	"	"	4050	9000	90	105	3.1
60	157	2.1	24.29	"	"	4500	9000	72	131	2.5
51	185	1.8	28.66	"	"	4850	9000	61	154	2.1
39.5	235	1.4	36.69	"	"	5400	9000	47.5	199	1.65
34	275	1.2	42.70	"	"	5800	9000	41	230	1.45
28.5	325	1.0	51.22	"	"	6300	9000	34	270	1.2
23.5	395	0.84	61.30	"	"	6500	9000	28.5	325	1.0
70	136	2.4	20.85	BK30-../DHE09LA4	52	5000	12000	84	113	2.8
63	150	3.0	23.20	"	"	5900	12000	75	126	3.6
51	185	2.4	28.76	"	"	6500	12000	61	154	2.9
43	215	2.1	33.70	"	"	7000	12000	52	181	2.5
34	270	1.65	42.89	"	"	7800	12000	41	225	2.0
29	315	1.45	50.27	"	"	8300	12000	35	260	1.75
24.5	375	1.2	59.27	"	"	8900	12000	29.5	310	1.45
20.5	445	1.0	71.56	"	"	9700	12000	24.5	370	1.2
16.5	540	0.83	88.38	"	"	10600	12000	20	450	1.0
35.5	265	2.9	40.88	BK40-../DHE09LA4	72	7600	17000	43	215	3.6
28.5	320	2.4	51.18	"	"	8400	17000	34	270	2.9
24.5	375	2.1	59.66	"	"	9100	17000	29.5	310	2.5
21	435	1.8	70.11	"	"	9800	17000	25	365	2.1
17.5	520	1.5	84.36	"	"	10700	17000	21	435	1.8
14	630	1.25	104.0	"	"	11700	17000	17	520	1.5
12.5	710	1.1	118.2	BK40Z-../DHE09LA4	76	11700	17000	15	590	1.3
10.5	840	0.93	143.0	"	"	11700	17000	12.5	700	1.1
24	385	2.7	60.76	BK50-../DHE09LA4	100	11400	26000	29	315	3.3
19.5	465	2.3	75.40	"	"	12600	26000	23.5	385	2.7
15.5	580	1.8	95.29	"	"	14100	26000	18.5	485	2.2
12.5	710	1.5	115.4	BK50Z-../DHE09LA4	105	14100	26000	15.5	570	1.85
9.4	920	1.15	153.3	"	"	14100	26000	11.5	750	1.4
7.0	1230	0.85	206.8	"	"	14100	26000	8.5	1010	1.05
14.5	720	3.2	101.2	BK60-../DHE09LA4	109	13900	34000	17.5	600	3.8
13	800	2.9	113.2	"	"	15000	34000	15.5	670	3.4
12	870	2.6	122.5	"	"	15500	34000	14.5	720	3.2
11	950	2.4	137.0	"	"	16600	34000	13	800	2.9
9.4	1110	2.1	153.7	BK60Z-../DHE09LA4	128	16600	34000	11.5	910	2.5
7.9	1320	1.75	183.2	"	"	16600	34000	9.5	1100	2.1
7.1	1470	1.55	205.0	"	"	16600	34000	8.5	1230	1.85
6.1	1720	1.35	239.7	"	"	16600	34000	7.3	1430	1.6
5.4	1940	1.2	268.2	"	"	16600	34000	6.5	1610	1.45
4.6	2250	1.0	317.7	"	"	16600	34000	5.5	1910	1.2
4.1	2550	0.9	355.5	"	"	16600	34000	4.9	2100	1.1
6.4	1640	3.2	226.2	BK70Z-../DHE09LA4	216	24100	50000	7.7	1360	3.8
5.6	1870	2.8	257.3	"	"	24100	50000	6.8	1540	3.4
5.0	2100	2.5	293.3	"	"	24100	50000	6.0	1750	3.0
4.4	2350	2.2	333.6	"	"	24100	50000	5.3	1980	2.6
3.8	2750	1.9	379.9	"	"	24100	50000	4.6	2250	2.3

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 1.1 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
3.4	3050	1.7	432.1	BK70Z-../DHE09LA4	"	24100	50000	4.1	2550	2.0
2.9	3600	1.45	501.8	"	"	24100	50000	3.5	3000	1.75
2.6	4000	1.3	570.8	"	"	24100	50000	3.1	3350	1.55
2.3	4550	1.15	644.9	"	"	24100	50000	2.7	3850	1.35
2.0	5200	1.0	733.6	"	"	24100	50000	2.4	4350	1.2
1.7	5800	0.98	847.7	BK70G20-../DHE09LA4	214	24100	50000	2.1	4600	1.25
1.5	6500	0.88	964.6	"	"	24100	50000	1.9	5100	1.1
2.9	3600	3.2	499.5	BK80Z-../DHE09LA4	345	30000	75000	3.5	3000	3.8
2.6	4000	2.9	559.5	"	"	30000	75000	3.2	3250	3.5
2.4	3600	3.2	607.8	BK80G40-../DHE09LA4	356	30000	75000	2.9	2850	4.0
2.2	3900	2.9	680.9	"	"	30000	75000	2.6	3200	3.6
2.0	4400	2.6	756.3	"	"	30000	75000	2.4	3550	3.2
1.7	5200	2.2	847.2	"	"	30000	75000	2.1	4050	2.8
1.5	6100	1.9	963.0	"	"	30000	75000	1.9	4600	2.5
1.4	6400	1.8	1079	"	"	30000	75000	1.7	5100	2.3
1.2	7700	1.5	1307	"	"	30000	75000	1.4	6400	1.8
1.1	8300	1.4	1425	"	"	30000	75000	1.3	6900	1.65
0.95	9800	1.15	1583	"	"	30000	75000	1.1	8300	1.4
0.85	11000	1.05	1775	"	"	30000	75000	1.0	9200	1.25
1.5	5600	3.3	1008	BK90G50-../DHE09LA4	629	49400	120000	1.8	4450	4.2
1.3	6500	2.8	1127	"	"	49400	120000	1.6	5000	3.7
1.1	8300	2.2	1363	"	"	49400	120000	1.3	6800	2.7
0.95	9500	1.95	1579	"	"	49400	120000	1.2	7200	2.6
0.8	11400	1.6	1803	"	"	49400	120000	1.0	8700	2.1
0.75	12000	1.55	2016	"	"	49400	120000	0.9	9700	1.9
0.55	16900	1.1	2764	"	"	49400	120000	0.65	14000	1.3

P = 1.5 kW

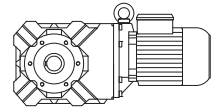
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
325	40.5	2.3	4.44	BK10-../DHE09XA4	40	1890	-	395	33	2.9
240	54	1.95	6.02	"	"	2100	-	290	45	2.3
188	70	1.65	7.68	"	"	2400	-	230	57	2.0
154	85	1.35	9.40	"	"	2700	-	186	70	1.65
135	95	1.9	10.70	"	"	3500	-	163	79	2.3
121	108	1.05	11.93	"	"	3100	-	146	90	1.3
100	128	1.55	14.50	"	"	3900	-	120	107	1.85
86	149	0.91	16.92	"	"	3700	-	103	125	1.1
78	165	1.2	18.52	"	"	4300	-	94	137	1.45
64	200	1.0	22.65	"	"	4650	-	77	167	1.2
51	250	0.8	28.76	"	"	5200	-	61	210	0.95
183	72	3.2	7.91	BK20-../DHE09XA4	50	1330	7600	220	59	3.9
146	90	2.6	9.91	"	"	1910	8300	176	74	3.1
130	99	3.0	11.14	"	"	3300	8100	157	82	3.7
124	106	2.2	11.69	"	"	2400	8800	149	88	2.6
98	131	2.5	14.75	"	"	3650	9000	118	109	3.0
83	157	1.45	17.42	"	"	3250	9000	100	130	1.8
75	171	1.95	19.39	"	"	4050	9000	90	143	2.3
60	210	1.55	24.29	"	"	4500	9000	72	179	1.85
51	250	1.3	28.66	"	"	4850	9000	61	210	1.55
39.5	325	1.0	36.69	"	"	5400	9000	47.5	270	1.2
34	375	0.88	42.70	"	"	5800	9000	41	310	1.05
121	108	3.0	11.93	BK30-../DHE09XA4	56	3650	12000	146	90	3.6
104	125	2.6	13.98	"	"	4050	12000	125	104	3.1
81	159	2.8	17.95	"	"	5300	12000	97	132	3.4
70	186	1.7	20.85	"	"	5000	12000	84	155	2.1
63	200	2.3	23.20	"	"	5900	12000	75	171	2.6
51	250	1.8	28.76	"	"	6500	12000	61	210	2.1
43	295	1.55	33.70	"	"	7000	12000	52	245	1.85
34	370	1.2	42.89	"	"	7800	12000	41	310	1.45



# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 1.5 kW

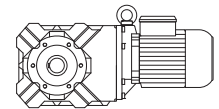


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
29	430	1.05	50.27	<b>BK30-../DHE09XA4</b>	"	8300	12000	35	360	1.25
24.5	510	0.88	59.27	"	"	8900	12000	29.5	425	1.05
51	250	3.1	28.59	<b>BK40-../DHE09XA4</b>	76	6300	17000	61	210	3.7
42	305	2.6	34.61	"	"	6900	17000	51	250	3.1
35.5	360	2.2	40.88	"	"	7600	17000	43	295	2.6
28.5	440	1.75	51.18	"	"	8400	17000	34	370	2.1
24.5	510	1.55	59.66	"	"	9100	17000	29.5	425	1.85
21	590	1.3	70.11	"	"	9800	17000	25	495	1.6
17.5	710	1.1	84.36	"	"	10700	17000	21	590	1.3
14	860	0.91	104.0	"	"	11700	17000	17	710	1.1
12.5	970	0.8	118.2	<b>BK40Z-../DHE09XA4</b>	80	11700	17000	15	810	0.96
30.5	415	2.5	47.50	<b>BK50-../DHE09XA4</b>	104	10100	25700	37	340	3.1
24	520	2.0	60.76	"	"	11400	26000	29	430	2.4
19.5	630	1.65	75.40	"	"	12600	26000	23.5	530	2.0
15.5	790	1.35	95.29	"	"	14100	26000	18.5	660	1.6
12.5	970	1.1	115.4	<b>BK50Z-../DHE09XA4</b>	109	14100	26000	15.5	780	1.35
9.4	1260	0.83	153.3	"	"	14100	26000	11.5	1030	1.0
18.5	770	3.0	78.13	<b>BK60-../DHE09XA4</b>	113	11900	34000	22.5	630	3.7
16.5	860	2.7	87.41	"	"	12900	34000	20	710	3.2
14.5	980	2.3	101.2	"	"	13900	34000	17.5	810	2.8
13	1100	2.1	113.2	"	"	15000	34000	15.5	920	2.5
12	1190	1.95	122.5	"	"	15500	34000	14.5	980	2.3
11	1300	1.75	137.0	"	"	16600	34000	13	1100	2.1
9.4	1520	1.5	153.7	<b>BK60Z-../DHE09XA4</b>	132	16600	34000	11.5	1240	1.85
7.9	1810	1.25	183.2	"	"	16600	34000	9.5	1500	1.55
7.1	2000	1.15	205.0	"	"	16600	34000	8.5	1680	1.35
6.1	2300	1.0	239.7	"	"	16600	34000	7.3	1960	1.15
5.4	2650	0.87	268.2	"	"	16600	34000	6.5	2200	1.05
8.2	1740	3.0	175.7	<b>BK70-../DHE09XA4</b>	199	24100	50000	10	1430	3.6
7.6	1880	2.8	190.4	<b>BK70Z-../DHE09XA4</b>	220	24100	50000	9.2	1550	3.4
6.4	2200	2.4	226.2	"	"	24100	50000	7.7	1860	2.8
5.6	2550	2.0	257.3	"	"	24100	50000	6.8	2100	2.5
5.0	2850	1.8	293.3	"	"	24100	50000	6.0	2350	2.2
4.4	3250	1.6	333.6	"	"	24100	50000	5.3	2700	1.95
3.8	3750	1.4	379.9	"	"	24100	50000	4.6	3100	1.7
3.4	4200	1.25	432.1	"	"	24100	50000	4.1	3450	1.5
2.9	4900	1.05	501.8	"	"	24100	50000	3.5	4050	1.3
2.6	5500	0.95	570.8	"	"	24100	50000	3.1	4600	1.15
2.3	6200	0.84	644.9	"	"	24100	50000	2.7	5300	0.98
3.8	3750	3.1	389.0	<b>BK80Z-../DHE09XA4</b>	349	30000	75000	4.5	3150	3.7
3.4	4200	2.7	435.7	"	"	30000	75000	4.0	3550	3.2
2.9	4900	2.3	499.5	"	"	30000	75000	3.5	4050	2.8
2.6	5500	2.1	559.5	"	"	30000	75000	3.2	4450	2.6
2.4	5200	2.2	607.8	<b>BK80G40-../DHE09XA4</b>	360	30000	75000	2.9	4150	2.8
2.2	5600	2.1	680.9	"	"	30000	75000	2.6	4650	2.5
2.0	6300	1.85	756.3	"	"	30000	75000	2.4	5100	2.3
1.7	7500	1.55	847.2	"	"	30000	75000	2.1	5900	1.95
1.5	8600	1.35	963.0	"	"	30000	75000	1.9	6600	1.75
1.4	9200	1.25	1079	"	"	30000	75000	1.7	7400	1.55
1.2	10900	1.05	1307	"	"	30000	75000	1.4	9200	1.25
1.1	11800	0.97	1425	"	"	30000	75000	1.3	9800	1.15
2.3	6200	3.0	637.7	<b>BK90Z-../DHE09XA4</b>	622	49400	120000	2.8	5100	3.6
2.1	6800	2.7	713.5	"	"	49400	120000	2.5	5700	3.2
1.8	6600	2.8	821.0	<b>BK90G50-../DHE09XA4</b>	633	49400	120000	2.2	5100	3.6
1.7	7200	2.6	882.3	"	"	49400	120000	2.0	5900	3.1
1.5	8100	2.3	1008	"	"	49400	120000	1.8	6600	2.8
1.3	9500	1.95	1127	"	"	49400	120000	1.6	7400	2.5
1.1	11800	1.55	1363	"	"	49400	120000	1.3	9800	1.9
0.95	13500	1.35	1579	"	"	49400	120000	1.2	10400	1.8
0.8	16100	1.15	1803	"	"	49400	120000	1.0	12600	1.45
0.75	17100	1.1	2016	"	"	49400	120000	0.9	13900	1.35

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 2.2 kW

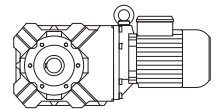


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
325	59	1.6	4.44	BK10-../DHE09XA4C	43	1890	-	395	48.5	1.95
240	80	1.3	6.02	"	"	2100	-	290	66	1.6
188	102	1.15	7.68	"	"	2400	-	230	84	1.35
154	125	0.92	9.40	"	"	2700	-	186	103	1.1
135	140	1.3	10.70	"	"	3500	-	163	116	1.55
100	189	1.05	14.50	"	"	3900	-	120	157	1.25
78	240	0.83	18.52	"	"	4300	-	94	200	1.0
320	60	3.3	4.54	BK20-../DHE09XA4C	52	520	6100	385	50	3.9
240	80	2.7	6.02	"	"	580	6800	290	66	3.3
183	105	2.2	7.91	"	"	1330	7600	220	87	2.7
146	132	1.75	9.91	"	"	1910	8300	176	109	2.1
130	145	2.1	11.14	"	"	3300	8100	157	120	2.5
124	155	1.5	11.69	"	"	2400	8800	149	129	1.8
98	192	1.7	14.75	"	"	3650	9000	118	160	2.1
83	230	1.0	17.42	"	"	3250	9000	100	191	1.2
75	250	1.3	19.39	"	"	4050	9000	90	210	1.55
60	315	1.05	24.29	"	"	4500	9000	72	260	1.25
51	370	0.89	28.66	"	"	4850	9000	61	305	1.1
305	63	3.1	4.73	BK30-../DHE09XA4C	58	1550	8800	370	52	3.7
240	80	2.7	6.02	"	"	1690	9600	290	66	3.2
194	99	2.7	7.45	"	"	2200	10400	235	82	3.3
150	128	2.5	9.63	"	"	3150	11500	181	106	3.0
127	148	2.8	11.39	"	"	4150	11000	153	123	3.4
121	159	2.0	11.93	"	"	3650	12000	146	132	2.4
104	183	1.75	13.98	"	"	4050	12000	125	152	2.1
100	189	2.4	14.50	"	"	4900	12000	120	157	2.9
81	230	1.95	17.95	"	"	5300	12000	97	194	2.3
70	270	1.2	20.85	"	"	5000	12000	84	225	1.4
63	300	1.5	23.20	"	"	5900	12000	75	250	1.8
51	370	1.2	28.76	"	"	6500	12000	61	305	1.5
43	435	1.05	33.70	"	"	7000	12000	52	360	1.25
34	540	0.83	42.89	"	"	7800	12000	41	455	0.99
122	158	3.1	11.86	BK40-../DHE09XA4C	79	1770	12200	147	131	3.8
80	235	3.3	18.05	"	"	4900	15300	97	194	4.0
65	290	2.7	22.44	"	"	5500	16500	78	240	3.3
51	370	2.1	28.59	"	"	6300	17000	61	305	2.6
42	450	1.75	34.61	"	"	6900	17000	51	370	2.1
35.5	530	1.45	40.88	"	"	7600	17000	43	435	1.8
28.5	640	1.2	51.18	"	"	8400	17000	34	540	1.45
24.5	750	1.05	59.66	"	"	9100	17000	29.5	620	1.25
21	870	0.9	70.11	"	"	9800	17000	25	730	1.05
81	235	3.1	17.92	BK50-../DHE09XA4C	107	4600	16800	98	195	3.7
55	340	3.1	26.51	"	"	7800	21200	66	285	3.7
41	460	2.3	35.21	"	"	8700	23100	49.5	380	2.8
30.5	610	1.7	47.50	"	"	10100	25700	37	500	2.1
24	770	1.35	60.76	"	"	11400	26000	29	630	1.65
19.5	930	1.15	75.40	"	"	12600	26000	23.5	770	1.35
15.5	1160	0.91	95.29	"	"	14100	26000	18.5	970	1.1
29	720	3.2	50.40	BK60-../DHE09XA4C	115	9100	29800	35	600	3.8
24.5	850	2.7	58.95	"	"	9900	31500	30	700	3.3
22	950	2.4	65.95	"	"	10900	33000	26.5	790	2.9
18.5	1130	2.0	78.13	"	"	11900	34000	22.5	930	2.5
16.5	1270	1.8	87.41	"	"	12900	34000	20	1050	2.2
14.5	1440	1.6	101.2	"	"	13900	34000	17.5	1200	1.9
13	1610	1.45	113.2	"	"	15000	34000	15.5	1350	1.7
12	1750	1.3	122.5	"	"	15500	34000	14.5	1440	1.6
11	1910	1.2	137.0	"	"	16600	34000	13	1610	1.45
9.4	2200	1.05	153.7	BK60Z-../DHE09XA4C	135	16600	34000	11.5	1820	1.25
7.9	2650	0.87	183.2	"	"	16600	34000	9.5	2200	1.05
12	1750	3.0	120.2	BK70-../DHE09XA4C	202	18600	50000	14.5	1440	3.6
11	1910	2.7	136.7	"	"	20700	50000	13	1610	3.2

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

**P = 2.2 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.4	2200	2.4	154.4	BK70-../DHE09XA4C	"	21900	50000	11.5	1820	2.9
8.2	2550	2.0	175.7	"	"	24100	50000	10	2100	2.5
7.6	2750	1.9	190.4	BK70Z-../DHE09XA4C	223	24100	50000	9.2	2250	2.3
6.4	3250	1.6	226.2	"	"	24100	50000	7.7	2700	1.95
5.6	3750	1.4	257.3	"	"	24100	50000	6.8	3050	1.7
5.0	4200	1.25	293.3	"	"	24100	50000	6.0	3500	1.5
4.4	4750	1.1	333.6	"	"	24100	50000	5.3	3950	1.3
3.8	5500	0.95	379.9	"	"	24100	50000	4.6	4550	1.15
3.4	6100	0.85	432.1	"	"	24100	50000	4.1	5100	1.0
5.7	3650	3.2	253.3	BK80Z-../DHE09XA4C	351	30000	75000	6.9	3000	3.8
4.8	4350	2.6	300.6	"	"	30000	75000	5.8	3600	3.2
4.3	4850	2.4	336.7	"	"	30000	75000	5.2	4000	2.9
3.8	5500	2.1	389.0	"	"	30000	75000	4.5	4650	2.5
3.4	6100	1.9	435.7	"	"	30000	75000	4.0	5200	2.2
2.9	7200	1.6	499.5	"	"	30000	75000	3.5	6000	1.9
2.6	8000	1.45	559.5	"	"	30000	75000	3.2	6500	1.75
2.4	8000	1.45	607.8	BK80G40-../DHE09XA4C	363	30000	75000	2.9	6400	1.8
2.2	8700	1.3	680.9	"	"	30000	75000	2.6	7200	1.6
2.0	9600	1.2	756.3	"	"	30000	75000	2.4	7900	1.45
1.7	11400	1.0	847.2	"	"	30000	75000	2.1	9000	1.3
1.5	13100	0.88	963.0	"	"	30000	75000	1.9	10100	1.15
1.4	13900	0.83	1079	"	"	30000	75000	1.7	11300	1.0
3.4	6100	3.0	435.3	BK90Z-../DHE09XA4C	624	49400	120000	4.0	5200	3.6
2.9	7200	2.6	499.2	"	"	49400	120000	3.5	6000	3.1
2.6	8000	2.3	558.5	"	"	49400	120000	3.2	6500	2.8
2.3	9100	2.0	637.7	"	"	49400	120000	2.8	7500	2.5
2.1	10000	1.85	713.5	"	"	49400	120000	2.5	8400	2.2
1.8	10300	1.8	821.0	BK90G50-../DHE09XA4C	635	49400	120000	2.2	8200	2.3
1.7	11100	1.65	882.3	"	"	49400	120000	2.0	9300	2.0
1.5	12600	1.45	1008	"	"	49400	120000	1.8	10300	1.8
1.3	14600	1.25	1127	"	"	49400	120000	1.6	11600	1.6
1.1	17800	1.05	1363	"	"	49400	120000	1.3	14900	1.25

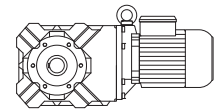
**P = 3 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
305	86	2.3	4.73	BK30-../DHE11MA4	65	1550	8800	370	71	2.7
240	109	1.95	6.02	"	"	1690	9600	290	90	2.4
194	135	2.0	7.45	"	"	2200	10400	235	112	2.4
150	175	1.85	9.63	"	"	3150	11500	181	145	2.2
127	200	2.1	11.39	"	"	4150	11000	153	168	2.5
121	215	1.5	11.93	"	"	3650	12000	146	180	1.8
104	250	1.3	13.98	"	"	4050	12000	125	205	1.55
100	255	1.75	14.50	"	"	4900	12000	120	210	2.1
81	315	1.45	17.95	"	"	5300	12000	97	265	1.7
63	405	1.1	23.20	"	"	5900	12000	75	340	1.3
51	500	0.9	28.76	"	"	6500	12000	61	420	1.05
155	170	2.9	9.31	BK40-../DHE11MA4	90	1040	11200	187	140	3.5
122	215	2.3	11.86	"	"	1770	12200	147	179	2.8
100	255	3.1	14.50	"	"	4500	14300	120	210	3.7
80	320	2.4	18.05	"	"	4900	15300	97	265	2.9
65	395	1.95	22.44	"	"	5500	16500	78	330	2.4
51	500	1.55	28.59	"	"	6300	17000	61	420	1.85
42	610	1.3	34.61	"	"	6900	17000	51	500	1.55
35.5	720	1.1	40.88	"	"	7600	17000	43	590	1.3
81	320	2.3	17.92	BK50-../DHE11MA4	120	4600	16800	98	265	2.7
75	340	3.1	19.33	"	"	6900	19200	91	280	3.8
55	465	2.3	26.51	"	"	7800	21200	66	390	2.7
41	620	1.7	35.21	"	"	8700	23100	49.5	520	2.0

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 3 kW

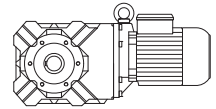


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
30.5	830	1.25	47.50	<b>BK50-../DHE11MA4</b>	"	10100	25700	37	680	1.55
24	1050	1.0	60.76	"	"	11400	26000	29	860	1.2
19.5	1270	0.83	75.40	"	"	12600	26000	23.5	1060	0.99
38.5	740	3.1	37.80	<b>BK60-../DHE11MA4</b>	130	7300	26500	46.5	610	3.8
32	890	2.6	45.05	"	"	8200	28300	39	730	3.2
29	980	2.3	50.40	"	"	9100	29800	35	810	2.8
24.5	1160	2.0	58.95	"	"	9900	31500	30	950	2.4
22	1300	1.75	65.95	"	"	10900	33000	26.5	1080	2.1
18.5	1540	1.5	78.13	"	"	11900	34000	22.5	1270	1.8
16.5	1730	1.35	87.41	"	"	12900	34000	20	1430	1.6
14.5	1970	1.15	101.2	"	"	13900	34000	17.5	1630	1.4
13	2200	1.05	113.2	"	"	15000	34000	15.5	1840	1.25
12	2350	0.98	122.5	"	"	15500	34000	14.5	1970	1.15
11	2600	0.88	137.0	"	"	16600	34000	13	2200	1.05
16	1790	2.9	90.96	<b>BK70-../DHE11MA4</b>	209	15300	49900	19.5	1460	3.6
14	2000	2.6	103.5	"	"	17200	50000	17	1680	3.1
12	2350	2.2	120.2	"	"	18600	50000	14.5	1970	2.6
11	2600	2.0	136.7	"	"	20700	50000	13	2200	2.4
9.4	3000	1.75	154.4	"	"	21900	50000	11.5	2450	2.1
8.2	3450	1.5	175.7	"	"	24100	50000	10	2850	1.8
7.6	3750	1.4	190.4	<b>BK70Z-../DHE11MA4</b>	236	24100	50000	9.2	3100	1.7
6.4	4450	1.15	226.2	"	"	24100	50000	7.7	3700	1.4
5.6	5100	1.0	257.3	"	"	24100	50000	6.8	4200	1.25
5.0	5700	0.91	293.3	"	"	24100	50000	6.0	4750	1.1
4.4	6500	0.8	333.6	"	"	24100	50000	5.3	5400	0.96
8.4	3400	3.1	171.5	<b>BK80-../DHE11MA4</b>	324	30000	75000	10.5	2700	3.9
8.2	3450	3.3	177.6	<b>BK80Z-../DHE11MA4</b>	366	30000	75000	9.8	2900	4.0
7.3	3900	2.9	198.9	"	"	30000	75000	8.8	3250	3.5
6.4	4450	2.6	226.1	"	"	30000	75000	7.7	3700	3.1
5.7	5000	2.3	253.3	"	"	30000	75000	6.9	4150	2.8
4.8	5900	1.95	300.6	"	"	30000	75000	5.8	4900	2.3
4.3	6600	1.75	336.7	"	"	30000	75000	5.2	5500	2.1
3.8	7500	1.55	389.0	"	"	30000	75000	4.5	6300	1.85
3.4	8400	1.35	435.7	"	"	30000	75000	4.0	7100	1.6
2.9	9800	1.15	499.5	"	"	30000	75000	3.5	8100	1.4
2.6	11000	1.05	559.5	"	"	30000	75000	3.2	8900	1.3
2.4	11100	1.05	607.8	<b>BK80G40-../DHE11MA4</b>	374	30000	75000	2.9	9100	1.25
2.2	12100	0.95	680.9	"	"	30000	75000	2.6	10100	1.15
2.0	13500	0.85	756.3	"	"	30000	75000	2.4	11100	1.05
4.9	5800	3.2	295.6	<b>BK90Z-../DHE11MA4</b>	632	49400	120000	5.9	4850	3.8
4.4	6500	2.8	330.7	"	"	49400	120000	5.3	5400	3.4
3.8	7500	2.5	389.1	"	"	49400	120000	4.5	6300	2.9
3.4	8400	2.2	435.3	"	"	49400	120000	4.0	7100	2.6
2.9	9800	1.9	499.2	"	"	49400	120000	3.5	8100	2.3
2.6	11000	1.7	558.5	"	"	49400	120000	3.2	8900	2.1
2.3	12400	1.5	637.7	"	"	49400	120000	2.8	10200	1.8
2.1	13600	1.35	713.5	"	"	49400	120000	2.5	11400	1.6
1.8	14500	1.3	821.0	<b>BK90G50-../DHE11MA4</b>	648	49400	120000	2.2	11600	1.6
1.7	15600	1.2	882.3	"	"	49400	120000	2.0	13100	1.4
1.5	17700	1.05	1008	"	"	49400	120000	1.8	14500	1.3
1.3	20500	0.9	1127	"	"	49400	120000	1.6	16300	1.15

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

**P = 4 kW**

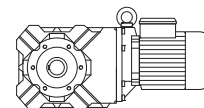


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
305	115	1.7	4.73	BK30-../DHE11LA4	76	1550	8800	370	94	2.1
240	146	1.45	6.02	"	"	1690	9600	290	121	1.75
194	181	1.5	7.45	"	"	2200	10400	235	149	1.8
150	230	1.4	9.63	"	"	3150	11500	181	194	1.65
127	270	1.55	11.39	"	"	4150	11000	153	220	1.9
121	290	1.1	11.93	"	"	3650	12000	146	240	1.35
104	330	0.97	13.98	"	"	4050	12000	125	275	1.15
100	340	1.3	14.50	"	"	4900	12000	120	285	1.6
81	420	1.05	17.95	"	"	5300	12000	97	350	1.3
63	540	0.83	23.20	"	"	5900	12000	75	455	0.99
240	146	3.2	6.02	BK40-../DHE11LA4	102	470	9800	290	121	3.9
193	182	2.7	7.49	"	"	750	10500	235	149	3.3
155	225	2.2	9.31	"	"	1040	11200	187	187	2.6
129	265	2.7	11.17	"	"	4100	13100	156	220	3.3
122	285	1.75	11.86	"	"	1770	12200	147	235	2.1
100	340	2.3	14.50	"	"	4500	14300	120	285	2.7
80	425	1.85	18.05	"	"	4900	15300	97	350	2.2
65	520	1.5	22.44	"	"	5500	16500	78	440	1.75
51	670	1.15	28.59	"	"	6300	17000	61	560	1.4
42	810	0.96	34.61	"	"	6900	17000	51	670	1.15
35.5	960	0.81	40.88	"	"	7600	17000	43	790	0.99
104	330	3.2	13.95	BK50-../DHE11LA4	132	6100	17400	125	275	3.8
95	360	2.9	15.19	"	"	6300	18000	115	295	3.6
81	425	1.7	17.92	"	"	4600	16800	98	350	2.1
75	455	2.3	19.33	"	"	6900	19200	91	375	2.8
55	620	1.7	26.51	"	"	7800	21200	66	520	2.0
41	830	1.25	35.21	"	"	8700	23100	49.5	690	1.5
30.5	1110	0.95	47.50	"	"	10100	25700	37	910	1.15
53	720	3.2	27.36	BK60-../DHE11LA4	142	5600	23200	64	590	3.9
43	880	2.6	33.78	"	"	6500	25200	52	730	3.2
38.5	990	2.3	37.80	"	"	7300	26500	46.5	820	2.8
32	1190	1.95	45.05	"	"	8200	28300	39	970	2.4
29	1310	1.75	50.40	"	"	9100	29800	35	1090	2.1
24.5	1550	1.5	58.95	"	"	9900	31500	30	1270	1.8
22	1730	1.35	65.95	"	"	10900	33000	26.5	1440	1.6
18.5	2050	1.1	78.13	"	"	11900	34000	22.5	1690	1.35
16.5	2300	1.0	87.41	"	"	12900	34000	20	1910	1.2
14.5	2600	0.88	101.2	"	"	13900	34000	17.5	2150	1.05
23.5	1620	3.2	61.60	BK70-../DHE11LA4	221	11500	42800	28.5	1340	3.9
21	1810	2.9	70.23	"	"	12500	44800	25	1520	3.4
18.5	2050	2.5	79.89	"	"	14300	47600	22	1730	3.0
16	2350	2.2	90.96	"	"	15300	49900	19.5	1950	2.7
14	2700	1.95	103.5	"	"	17200	50000	17	2200	2.4
12	3150	1.65	120.2	"	"	18600	50000	14.5	2600	2.0
11	3450	1.5	136.7	"	"	20700	50000	13	2900	1.8
9.4	4050	1.3	154.4	"	"	21900	50000	11.5	3300	1.6
8.2	4650	1.1	175.7	"	"	24100	50000	10	3800	1.35
7.6	5000	1.05	190.4	BK70Z-../DHE11LA4	247	24100	50000	9.2	4150	1.25
6.4	5900	0.88	226.2	"	"	24100	50000	7.7	4950	1.05
11	3450	3.0	131.6	BK80-../DHE11LA4	336	24900	75000	13.5	2800	3.8
9.5	4000	2.6	153.1	"	"	27200	75000	11.5	3300	3.2
8.4	4500	2.3	171.5	"	"	30000	75000	10.5	3600	2.9
8.2	4650	2.5	177.6	BK80Z-../DHE11LA4	378	30000	75000	9.8	3850	3.0
7.3	5200	2.2	198.9	"	"	30000	75000	8.8	4300	2.7
6.4	5900	1.95	226.1	"	"	30000	75000	7.7	4950	2.3
5.7	6700	1.7	253.3	"	"	30000	75000	6.9	5500	2.1
4.8	7900	1.45	300.6	"	"	30000	75000	5.8	6500	1.75
4.3	8800	1.3	336.7	"	"	30000	75000	5.2	7300	1.6
3.8	10000	1.15	389.0	"	"	30000	75000	4.5	8400	1.35
3.4	11200	1.05	435.7	"	"	30000	75000	4.0	9500	1.2
2.9	13100	0.88	499.5	"	"	30000	75000	3.5	10900	1.05

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 4 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
6.2	6100	3.0	234.6	BK90Z-../DHE11LA4	643	49400	120000	7.5	5000	3.7
5.5	6900	2.7	262.5	"	"	49400	120000	6.7	5700	3.2
4.9	7700	2.4	295.6	"	"	49400	120000	5.9	6400	2.9
4.4	8600	2.2	330.7	"	"	49400	120000	5.3	7200	2.6
3.8	10000	1.85	389.1	"	"	49400	120000	4.5	8400	2.2
3.4	11200	1.65	435.3	"	"	49400	120000	4.0	9500	1.95
2.9	13100	1.4	499.2	"	"	49400	120000	3.5	10900	1.7
2.6	14600	1.25	558.5	"	"	49400	120000	3.2	11900	1.55
2.3	16600	1.1	637.7	"	"	49400	120000	2.8	13600	1.35
2.1	18100	1.0	713.5	"	"	49400	120000	2.5	15200	1.2
1.8	19800	0.93	821.0	BK90G50-../DHE11LA4	660	49400	120000	2.2	16000	1.15
1.7	21200	0.87	882.3	"	"	49400	120000	2.0	17900	1.05

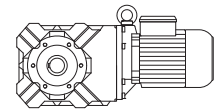
P = 5.5 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
310	155	1.25	4.73	BK30-../DHE11LA4C	80	1550	8800	375	128	1.5
245	197	1.1	6.02	"	"	1690	9600	295	163	1.3
196	245	1.1	7.45	"	"	2200	10400	240	200	1.35
152	315	1.0	9.63	"	"	3150	11500	183	260	1.25
129	365	1.15	11.39	"	"	4150	11000	155	300	1.4
123	390	0.82	11.93	"	"	3650	12000	148	325	0.98
101	465	0.97	14.50	"	"	4900	12000	122	385	1.15
320	151	2.9	4.63	BK40-../DHE11LA4C	106	430	8900	385	125	3.4
245	197	2.4	6.02	"	"	470	9800	295	163	2.9
195	245	2.0	7.49	"	"	750	10500	235	205	2.4
157	305	1.6	9.31	"	"	1040	11200	190	250	1.95
131	360	2.0	11.17	"	"	4100	13100	158	295	2.4
124	385	1.3	11.86	"	"	1770	12200	149	320	1.55
101	465	1.7	14.50	"	"	4500	14300	122	385	2.0
81	580	1.35	18.05	"	"	4900	15300	98	480	1.65
66	710	1.1	22.44	"	"	5500	16500	79	590	1.3
52	900	0.87	28.59	"	"	6300	17000	62	760	1.05
151	310	3.0	9.73	BK50-../DHE11LA4C	136	5400	15400	181	260	3.6
146	330	2.5	10.00	"	"	1220	13200	176	270	3.0
105	450	2.3	13.95	"	"	6100	17400	127	370	2.8
97	485	2.2	15.19	"	"	6300	18000	116	405	2.6
82	580	1.25	17.92	"	"	4600	16800	99	480	1.5
76	620	1.7	19.33	"	"	6900	19200	92	510	2.1
56	840	1.25	26.51	"	"	7800	21200	67	700	1.5
41.5	1130	0.93	35.21	"	"	8700	23100	50	940	1.1
72	720	3.1	20.54	BK60-../DHE11LA4C	146	4400	20600	86	610	3.7
60	870	2.6	24.45	"	"	4850	22000	72	720	3.2
54	970	2.4	27.36	"	"	5600	23200	65	800	2.9
43.5	1200	1.9	33.78	"	"	6500	25200	53	990	2.3
39	1340	1.7	37.80	"	"	7300	26500	47	1110	2.1
32.5	1610	1.45	45.05	"	"	8200	28300	39.5	1320	1.75
29	1810	1.25	50.40	"	"	9100	29800	35	1500	1.55
25	2100	1.1	58.95	"	"	9900	31500	30	1750	1.3
22.5	2300	1.0	65.95	"	"	10900	33000	27	1940	1.2
19	2750	0.84	78.13	"	"	11900	34000	23	2250	1.0
32.5	1610	3.2	45.59	BK70-../DHE11LA4C	225	9000	37900	39	1340	3.8
27	1940	2.7	54.15	"	"	9900	40200	33	1590	3.3
24	2150	2.4	61.60	"	"	11500	42800	29	1810	2.9
21	2500	2.1	70.23	"	"	12500	44800	25.5	2050	2.5
18.5	2800	1.85	79.89	"	"	14300	47600	22.5	2300	2.3
16.5	3150	1.65	90.96	"	"	15300	49900	19.5	2650	1.95
14.5	3600	1.45	103.5	"	"	17200	50000	17.5	3000	1.75
12.5	4200	1.25	120.2	"	"	18600	50000	15	3500	1.5
11	4750	1.1	136.7	"	"	20700	50000	13	4000	1.3

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

**P = 5.5 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.5	5500	0.95	154.4	BK70-../DHE11LA4C	"	21900	50000	11.5	4550	1.15
8.4	6200	0.84	175.7	"	"	24100	50000	10.5	5000	1.05
16	3250	3.2	91.53	BK80-../DHE11LA4C	340	18300	74200	19.5	2650	3.9
14.5	3600	2.9	102.5	"	"	20500	75000	17.5	3000	3.5
12.5	4200	2.5	117.5	"	"	22300	75000	15	3500	3.0
11.5	4550	2.3	131.6	"	"	24900	75000	13.5	3850	2.7
9.6	5400	1.95	153.1	"	"	27200	75000	11.5	4550	2.3
8.6	6100	1.7	171.5	"	"	30000	75000	10.5	5000	2.1
8.3	6300	1.85	177.6	BK80Z-../DHE11LA4C	382	30000	75000	10	5200	2.2
7.4	7000	1.65	198.9	"	"	30000	75000	8.9	5900	1.95
6.5	8000	1.45	226.1	"	"	30000	75000	7.8	6700	1.7
5.8	9000	1.3	253.3	"	"	30000	75000	7.0	7500	1.55
4.9	10700	1.05	300.6	"	"	30000	75000	5.9	8900	1.3
4.4	11900	0.97	336.7	"	"	30000	75000	5.3	9900	1.15
3.8	13800	0.83	389.0	"	"	30000	75000	4.6	11400	1.0
8.4	6200	3.0	174.7	BK90Z-../DHE11LA4C	647	49400	120000	10.5	5000	3.7
7.5	7000	2.6	195.4	"	"	49400	120000	9.1	5700	3.2
6.3	8300	2.2	234.6	"	"	49400	120000	7.6	6900	2.7
5.6	9300	2.0	262.5	"	"	49400	120000	6.8	7700	2.4
5.0	10500	1.75	295.6	"	"	49400	120000	6.0	8700	2.1
4.5	11600	1.6	330.7	"	"	49400	120000	5.4	9700	1.9
3.8	13800	1.35	389.1	"	"	49400	120000	4.6	11400	1.6
3.4	15400	1.2	435.3	"	"	49400	120000	4.1	12800	1.45
3.0	17500	1.05	499.2	"	"	49400	120000	3.6	14500	1.3
2.7	19400	0.95	558.5	"	"	49400	120000	3.2	16400	1.15
2.3	22800	0.81	637.7	"	"	49400	120000	2.8	18700	0.99

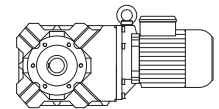
**P = 7.5 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
400	164	4.4	3.67	BK50-../DHE13LA4	146	115	9400	480	137	5.2
280	235	3.5	5.26	"	"	130	10700	335	196	4.1
205	320	2.5	7.29	"	"	620	11900	245	265	3.1
151	425	2.2	9.73	"	"	5400	15400	181	355	2.6
146	450	1.8	10.00	"	"	1220	13200	176	370	2.2
105	610	1.7	13.95	"	"	6100	17400	127	500	2.1
97	660	1.6	15.19	"	"	6300	18000	116	550	1.9
82	790	0.92	17.92	"	"	4600	16800	99	650	1.1
76	840	1.25	19.33	"	"	6900	19200	92	700	1.5
56	1150	0.91	26.51	"	"	7800	21200	67	960	1.1
135	530	3.2	10.82	BK60-../DHE13LA4	158	3200	17000	163	435	3.9
106	670	2.9	13.85	"	"	3850	18000	128	550	3.6
102	700	2.8	14.41	"	"	3650	18600	123	580	3.3
91	780	2.5	16.05	"	"	4050	18800	110	650	3.0
80	890	2.5	18.36	"	"	4000	19900	96	740	3.0
72	990	2.3	20.54	"	"	4400	20600	86	830	2.7
60	1190	1.95	24.45	"	"	4850	22000	72	990	2.3
54	1320	1.75	27.36	"	"	5600	23200	65	1100	2.1
43.5	1640	1.4	33.78	"	"	6500	25200	53	1350	1.7
39	1830	1.25	37.80	"	"	7300	26500	47	1520	1.5
32.5	2200	1.05	45.05	"	"	8200	28300	39.5	1810	1.25
29	2450	0.94	50.40	"	"	9100	29800	35	2000	1.15
25	2850	0.81	58.95	"	"	9900	31500	30	2350	0.98
47.5	1500	3.0	30.90	BK70-../DHE13LA4	237	7500	33600	57	1250	3.6
42	1700	2.8	35.15	"	"	8000	35000	51	1400	3.4
36.5	1960	2.5	40.08	"	"	8300	36300	44	1620	3.0
32.5	2200	2.3	45.59	"	"	9000	37900	39	1830	2.8
27	2650	1.95	54.15	"	"	9900	40200	33	2150	2.4

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 7.5 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
24	2950	1.75	61.60	<b>BK70-../DHE13LA4</b>	"	11500	42800	29	2450	2.1
21	3400	1.55	70.23	"	"	12500	44800	25.5	2800	1.85
18.5	3850	1.35	79.89	"	"	14300	47600	22.5	3150	1.65
16.5	4300	1.2	90.96	"	"	15300	49900	19.5	3650	1.4
14.5	4900	1.05	103.5	"	"	17200	50000	17.5	4050	1.3
12.5	5700	0.91	120.2	"	"	18600	50000	15	4750	1.1
11	6500	0.8	136.7	"	"	20700	50000	13	5500	0.95
24.5	2900	3.2	59.60	<b>BK80-../DHE13LA4</b>	351	15700	65500	30	2350	3.9
21	3400	2.8	70.72	"	"	16600	68700	25	2850	3.4
18.5	3850	2.6	79.22	"	"	17600	71300	22.5	3150	3.2
16	4450	2.3	91.53	"	"	18300	74200	19.5	3650	2.8
14.5	4900	2.1	102.5	"	"	20500	75000	17.5	4050	2.6
12.5	5700	1.85	117.5	"	"	22300	75000	15	4750	2.2
11.5	6200	1.7	131.6	"	"	24900	75000	13.5	5300	2.0
9.6	7400	1.4	153.1	"	"	27200	75000	11.5	6200	1.7
8.6	8300	1.25	171.5	"	"	30000	75000	10.5	6800	1.55
8.3	8600	1.35	177.6	<b>BK80Z-../DHE13LA4</b>	394	30000	75000	10	7100	1.6
7.4	9600	1.2	198.9	"	"	30000	75000	8.9	8000	1.45
6.5	11000	1.05	226.1	"	"	30000	75000	7.8	9100	1.25
5.8	12300	0.93	253.3	"	"	30000	75000	7.0	10200	1.15
12.5	5700	2.9	117.0	<b>BK90-../DHE13LA4</b>	603	39200	113000	15.5	4600	3.7
11.5	6200	2.7	130.9	"	"	42700	119400	13.5	5300	3.2
9.8	7300	2.3	149.5	"	"	45600	120000	12	5900	2.8
8.8	8100	2.1	167.2	"	"	49400	120000	11	6500	2.6
8.4	8500	2.2	174.7	<b>BK90Z-../DHE13LA4</b>	659	49400	120000	10.5	6800	2.7
7.5	9500	1.95	195.4	"	"	49400	120000	9.1	7800	2.4
6.3	11300	1.65	234.6	"	"	49400	120000	7.6	9400	1.95
5.6	12700	1.45	262.5	"	"	49400	120000	6.8	10500	1.75
5.0	14300	1.3	295.6	"	"	49400	120000	6.0	11900	1.55
4.5	15900	1.15	330.7	"	"	49400	120000	5.4	13200	1.4
3.8	18800	0.98	389.1	"	"	49400	120000	4.6	15500	1.2
3.4	21000	0.88	435.3	"	"	49400	120000	4.1	17400	1.05

P = 9.5 kW

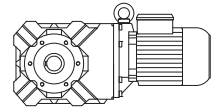
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
405	205	3.5	3.67	<b>BK50-../DHE16MA4</b>	191	115	9400	485	172	4.2
280	295	2.8	5.26	"	"	130	10700	340	245	3.3
205	405	2.0	7.29	"	"	620	11900	245	340	2.4
152	530	1.75	9.73	"	"	5400	15400	182	445	2.1
147	560	1.45	10.00	"	"	1220	13200	177	470	1.75
106	770	1.35	13.95	"	"	6100	17400	127	640	1.65
97	840	1.25	15.19	"	"	6300	18000	117	690	1.5
77	1060	0.99	19.33	"	"	6900	19200	92	880	1.2
205	440	3.3	7.29	<b>BK60-../DHE16MA4</b>	203	2800	14900	245	370	4.0
136	660	2.5	10.82	"	"	3200	17000	164	550	3.0
107	840	2.3	13.85	"	"	3850	18000	128	700	2.8
103	880	2.2	14.41	"	"	3650	18600	123	730	2.6
92	980	2.0	16.05	"	"	4050	18800	111	810	2.4
81	1120	1.95	18.36	"	"	4000	19900	97	930	2.3
72	1260	1.8	20.54	"	"	4400	20600	87	1040	2.2
61	1480	1.55	24.45	"	"	4850	22000	73	1240	1.85
54	1680	1.35	27.36	"	"	5600	23200	65	1390	1.65
44	2050	1.1	33.78	"	"	6500	25200	53	1710	1.35
39	2300	1.0	37.80	"	"	7300	26500	47	1930	1.2
33	2700	0.85	45.05	"	"	8200	28300	39.5	2250	1.0
97	930	3.3	15.16	<b>BK70-../DHE16MA4</b>	286	5600	25800	117	770	4.0
86	1050	3.3	17.24	"	"	6500	29200	103	880	4.0
68	1330	3.1	21.88	"	"	6500	30200	81	1120	3.6



# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 9.5 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
60	1510	2.8	24.89	BK70-../DHE16MA4	"	7000	31500	72	1260	3.4
48	1890	2.4	30.90	"	"	7500	33600	58	1560	2.9
42	2150	2.2	35.15	"	"	8000	35000	51	1770	2.7
37	2450	2.0	40.08	"	"	8300	36300	44.5	2000	2.4
32.5	2750	1.85	45.59	"	"	9000	37900	39	2300	2.2
27.5	3250	1.6	54.15	"	"	9900	40200	33	2700	1.95
24	3750	1.4	61.60	"	"	11500	42800	29	3100	1.7
21	4300	1.2	70.23	"	"	12500	44800	25.5	3550	1.45
18.5	4900	1.05	79.89	"	"	14300	47600	22.5	4000	1.3
16.5	5400	0.96	90.96	"	"	15300	49900	19.5	4650	1.1
14.5	6200	0.84	103.5	"	"	17200	50000	17.5	5100	1.0
35.5	2550	3.2	41.78	BK80-../DHE16MA4	396	13500	58700	42.5	2100	3.9
31.5	2850	3.0	46.80	"	"	14300	60900	38	2350	3.7
28	3200	2.8	53.21	"	"	14800	63100	33.5	2700	3.3
25	3600	2.6	59.60	"	"	15700	65500	30	3000	3.1
21	4300	2.2	70.72	"	"	16600	68700	25.5	3550	2.7
19	4750	2.1	79.22	"	"	17600	71300	22.5	4000	2.5
16.5	5400	1.95	91.53	"	"	18300	74200	19.5	4650	2.2
14.5	6200	1.7	102.5	"	"	20500	75000	17.5	5100	2.1
13	6900	1.5	117.5	"	"	22300	75000	15.5	5800	1.8
11.5	7800	1.35	131.6	"	"	24900	75000	13.5	6700	1.55
9.7	9300	1.15	153.1	"	"	27200	75000	12	7500	1.4
8.6	10500	1.0	171.5	"	"	30000	75000	10.5	8600	1.2
8.3	10900	1.05	177.6	BK80Z-../DHE16MA4	439	30000	75000	10	9000	1.3
7.4	12200	0.94	198.9	"	"	30000	75000	8.9	10100	1.15
6.6	13700	0.84	226.1	"	"	30000	75000	7.9	11400	1.0
16.5	5400	3.1	91.19	BK90-../DHE16MA4	649	33300	101000	19.5	4650	3.6
14.5	6200	2.7	102.0	"	"	36600	107000	17.5	5100	3.3
13	6900	2.4	117.0	"	"	39200	113000	15.5	5800	2.9
11.5	7800	2.2	130.9	"	"	42700	119400	14	6400	2.6
9.9	9100	1.85	149.5	"	"	45600	120000	12	7500	2.2
8.8	10300	1.65	167.2	"	"	49400	120000	11	8200	2.0
8.5	10600	1.75	174.7	BK90Z-../DHE16MA4	708	49400	120000	10.5	8600	2.2
7.6	11900	1.55	195.4	"	"	49400	120000	9.1	9900	1.85
6.3	14400	1.3	234.6	"	"	49400	120000	7.6	11900	1.55
5.6	16200	1.15	262.5	"	"	49400	120000	6.8	13300	1.4
5.0	18100	1.0	295.6	"	"	49400	120000	6.0	15100	1.25
4.5	20100	0.92	330.7	"	"	49400	120000	5.4	16800	1.1

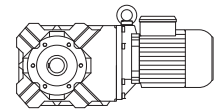
P = 11 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
405	235	3.1	3.67	BK50-../DHE16LA4	204	115	9400	485	199	3.6
280	345	2.4	5.26	"	"	130	10700	340	280	2.9
205	470	1.75	7.29	"	"	620	11900	245	390	2.1
152	620	1.5	9.73	"	"	5400	15400	182	510	1.85
147	650	1.25	10.00	"	"	1220	13200	177	540	1.5
106	890	1.2	13.95	"	"	6100	17400	127	740	1.4
97	970	1.1	15.19	"	"	6300	18000	117	800	1.3
77	1220	0.86	19.33	"	"	6900	19200	92	1020	1.05
205	510	2.9	7.29	BK60-../DHE16LA4	216	2800	14900	245	425	3.4
136	770	2.2	10.82	"	"	3200	17000	164	640	2.6
107	980	2.0	13.85	"	"	3850	18000	128	820	2.4
103	1010	1.9	14.41	"	"	3650	18600	123	850	2.3
92	1140	1.75	16.05	"	"	4050	18800	111	940	2.1
81	1290	1.7	18.36	"	"	4000	19900	97	1080	2.0
72	1450	1.55	20.54	"	"	4400	20600	87	1200	1.9
61	1720	1.35	24.45	"	"	4850	22000	73	1430	1.6
54	1940	1.2	27.36	"	"	5600	23200	65	1610	1.45
44	2350	0.98	33.78	"	"	6500	25200	53	1980	1.15
39	2650	0.87	37.80	"	"	7300	26500	47	2200	1.05

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 11 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
108	970	3.1	13.70	BK70-../DHE16LA4	299	5400	24800	130	800	3.8
97	1080	2.8	15.16	"	"	5600	25800	117	890	3.4
86	1220	2.9	17.24	"	"	6500	29200	103	1010	3.5
68	1540	2.6	21.88	"	"	6500	30200	81	1290	3.2
60	1750	2.4	24.89	"	"	7000	31500	72	1450	2.9
48	2150	2.1	30.90	"	"	7500	33600	58	1810	2.5
42	2500	1.9	35.15	"	"	8000	35000	51	2050	2.3
37	2800	1.75	40.08	"	"	8300	36300	44.5	2350	2.1
32.5	3200	1.6	45.59	"	"	9000	37900	39	2650	1.95
27.5	3800	1.35	54.15	"	"	9900	40200	33	3150	1.65
24	4350	1.2	61.60	"	"	11500	42800	29	3600	1.45
21	5000	1.05	70.23	"	"	12500	44800	25.5	4100	1.25
18.5	5600	0.93	79.89	"	"	14300	47600	22.5	4650	1.1
16.5	6300	0.83	90.96	"	"	15300	49900	19.5	5300	0.98
43	2400	3.3	34.22	BK80-../DHE16LA4	408	12600	55400	52	2000	3.9
35.5	2950	2.8	41.78	"	"	13500	58700	42.5	2450	3.4
31.5	3300	2.6	46.80	"	"	14300	60900	38	2750	3.1
28	3750	2.4	53.21	"	"	14800	63100	33.5	3100	2.9
25	4200	2.2	59.60	"	"	15700	65500	30	3500	2.6
21	5000	1.95	70.72	"	"	16600	68700	25.5	4100	2.3
19	5500	1.85	79.22	"	"	17600	71300	22.5	4650	2.2
16.5	6300	1.65	91.53	"	"	18300	74200	19.5	5300	1.95
14.5	7200	1.45	102.5	"	"	20500	75000	17.5	6000	1.75
13	8000	1.3	117.5	"	"	22300	75000	15.5	6700	1.55
11.5	9100	1.15	131.6	"	"	24900	75000	13.5	7700	1.35
9.7	10800	0.97	153.1	"	"	27200	75000	12	8700	1.2
8.6	12200	0.86	171.5	"	"	30000	75000	10.5	10000	1.05
8.3	12600	0.91	177.6	BK80Z-../DHE16LA4	452	30000	75000	10	10500	1.1
7.4	14100	0.82	198.9	"	"	30000	75000	8.9	11800	0.97
19	5500	3.1	77.51	BK90-../DHE16LA4	662	30300	94400	23	4550	3.7
16.5	6300	2.7	91.19	"	"	33300	101000	19.5	5300	3.2
14.5	7200	2.3	102.0	"	"	36600	107000	17.5	6000	2.8
13	8000	2.1	117.0	"	"	39200	113000	15.5	6700	2.5
11.5	9100	1.85	130.9	"	"	42700	119400	14	7500	2.2
9.9	10600	1.6	149.5	"	"	45600	120000	12	8700	1.95
8.8	11900	1.4	167.2	"	"	49400	120000	11	9500	1.75
8.5	12300	1.5	174.7	BK90Z-../DHE16LA4	721	49400	120000	10.5	10000	1.85
7.6	13800	1.35	195.4	"	"	49400	120000	9.1	11500	1.6
6.3	16600	1.1	234.6	"	"	49400	120000	7.6	13800	1.35
5.6	18700	0.99	262.5	"	"	49400	120000	6.8	15400	1.2
5.0	21000	0.88	295.6	"	"	49400	120000	6.0	17500	1.05

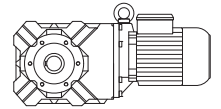
P = 15 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
405	325	2.2	3.67	BK50-../DHE16XA4	214	115	9400	485	270	2.7
280	470	1.75	5.26	"	"	130	10700	340	385	2.1
205	640	1.25	7.29	"	"	620	11900	245	530	1.55
152	840	1.1	9.73	"	"	5400	15400	182	700	1.35
147	890	0.91	10.00	"	"	1220	13200	177	740	1.1
106	1210	0.87	13.95	"	"	6100	17400	127	1010	1.05
97	1320	0.8	15.19	"	"	6300	18000	117	1100	0.95
205	690	2.1	7.29	BK60-../DHE16XA4	226	2800	14900	245	580	2.5
136	1050	1.6	10.82	"	"	3200	17000	164	870	1.95
107	1330	1.5	13.85	"	"	3850	18000	128	1110	1.8
103	1390	1.4	14.41	"	"	3650	18600	123	1160	1.65
92	1550	1.25	16.05	"	"	4050	18800	111	1290	1.55
81	1760	1.25	18.36	"	"	4000	19900	97	1470	1.5
72	1980	1.15	20.54	"	"	4400	20600	87	1640	1.35
61	2300	1.0	24.45	"	"	4850	22000	73	1960	1.15
54	2650	0.87	27.36	"	"	5600	23200	65	2200	1.05

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

**P = 15 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
108	1320	2.3	13.70	BK70-../DHE16XA4	309	5400	24800	130	1100	2.8
97	1470	2.1	15.16	"	"	5600	25800	117	1220	2.5
86	1660	2.1	17.24	"	"	6500	29200	103	1390	2.5
68	2100	1.95	21.88	"	"	6500	30200	81	1760	2.3
60	2350	1.8	24.89	"	"	7000	31500	72	1980	2.2
48	2950	1.55	30.90	"	"	7500	33600	58	2450	1.85
42	3400	1.4	35.15	"	"	8000	35000	51	2800	1.7
37	3850	1.25	40.08	"	"	8300	36300	44.5	3200	1.5
32.5	4400	1.15	45.59	"	"	9000	37900	39	3650	1.4
27.5	5200	1.0	54.15	"	"	9900	40200	33	4300	1.2
24	5900	0.88	61.60	"	"	11500	42800	29	4900	1.05
48.5	2950	2.5	30.56	BK80-../DHE16XA4	418	11900	53400	58	2450	3.1
43	3300	2.4	34.22	"	"	12600	55400	52	2750	2.8
35.5	4000	2.1	41.78	"	"	13500	58700	42.5	3350	2.5
31.5	4500	1.9	46.80	"	"	14300	60900	38	3750	2.3
28	5100	1.75	53.21	"	"	14800	63100	33.5	4250	2.1
25	5700	1.6	59.60	"	"	15700	65500	30	4750	1.95
21	6800	1.4	70.72	"	"	16600	68700	25.5	5600	1.7
19	7500	1.35	79.22	"	"	17600	71300	22.5	6300	1.6
16.5	8600	1.2	91.53	"	"	18300	74200	19.5	7300	1.4
14.5	9800	1.05	102.5	"	"	20500	75000	17.5	8100	1.3
13	11000	0.95	117.5	"	"	22300	75000	15.5	9200	1.15
11.5	12400	0.85	131.6	"	"	24900	75000	13.5	10600	0.99
27	5300	3.0	54.98	BK90-../DHE16XA4	672	24000	81000	32.5	4400	3.7
24	5900	2.8	61.52	"	"	25500	84600	29	4900	3.4
21.5	6600	2.5	69.27	"	"	27200	88900	26	5500	3.1
19	7500	2.2	77.51	"	"	30300	94400	23	6200	2.7
16.5	8600	1.95	91.19	"	"	33300	101000	19.5	7300	2.3
14.5	9800	1.7	102.0	"	"	36600	107000	17.5	8100	2.1
13	11000	1.55	117.0	"	"	39200	113000	15.5	9200	1.85
11.5	12400	1.35	130.9	"	"	42700	119400	14	10200	1.65
9.9	14400	1.15	149.5	"	"	45600	120000	12	11900	1.4
8.8	16200	1.05	167.2	"	"	49400	120000	11	13000	1.3
8.5	16800	1.1	174.7	BK90Z-../DHE16XA4	731	49400	120000	10.5	13600	1.35
7.6	18800	0.98	195.4	"	"	49400	120000	9.1	15700	1.2
6.3	22700	0.81	234.6	"	"	49400	120000	7.6	18800	0.98

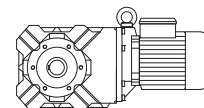
**P = 18.5 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
405	400	1.8	3.67	BK50-../DHE18LA4	282	115	9400	485	335	2.1
280	580	1.4	5.26	"	"	130	10700	340	475	1.7
205	790	1.05	7.29	"	"	620	11900	245	660	1.25
152	1040	0.9	9.73	"	"	5400	15400	182	870	1.05
205	860	1.7	7.29	BK60-../DHE18LA4	289	2800	14900	245	720	2.0
136	1290	1.3	10.82	"	"	3200	17000	164	1070	1.55
107	1650	1.2	13.85	"	"	3850	18000	128	1380	1.45
103	1710	1.15	14.41	"	"	3650	18600	123	1430	1.35
81	2150	1.0	18.36	"	"	4000	19900	97	1820	1.2
72	2450	0.92	20.54	"	"	4400	20600	87	2000	1.15
61	2850	0.81	24.45	"	"	4850	22000	73	2400	0.96
97	1820	1.7	15.16	BK70-../DHE18LA4	366	5600	25800	117	1510	2.0
86	2050	1.7	17.24	"	"	6500	29200	103	1710	2.0
68	2550	1.6	21.88	"	"	6500	30200	81	2150	1.9
60	2900	1.45	24.89	"	"	7000	31500	72	2450	1.75
48	3650	1.25	30.90	"	"	7500	33600	58	3000	1.5
42	4200	1.15	35.15	"	"	8000	35000	51	3450	1.35
37	4750	1.05	40.08	"	"	8300	36300	44.5	3950	1.25
32.5	5400	0.95	45.59	"	"	9000	37900	39	4500	1.15
27.5	6400	0.81	54.15	"	"	9900	40200	33	5300	0.98

# Kegelrad-Getriebemotoren Reihe BK

## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 18.5 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
103	1710	2.5	14.34	BK80-../DHE18LA4	480	7900	36200	124	1420	3.0
93	1890	2.5	15.88	"	"	8400	38600	112	1570	3.0
83	2100	2.5	17.79	"	"	9400	42100	100	1760	3.0
76	2300	2.5	19.35	"	"	9500	44000	92	1920	3.0
67	2600	2.6	22.19	"	"	10500	48500	80	2200	3.1
60	2900	2.4	24.85	"	"	11200	50400	72	2450	2.9
48.5	3600	2.1	30.56	"	"	11900	53400	58	3000	2.5
43	4100	1.9	34.22	"	"	12600	55400	52	3350	2.3
35.5	4950	1.65	41.78	"	"	13500	58700	42.5	4150	2.0
31.5	5600	1.55	46.80	"	"	14300	60900	38	4600	1.85
28	6300	1.4	53.21	"	"	14800	63100	33.5	5200	1.7
25	7000	1.3	59.60	"	"	15700	65500	30	5800	1.6
21	8400	1.15	70.72	"	"	16600	68700	25.5	6900	1.4
19	9200	1.1	79.22	"	"	17600	71300	22.5	7800	1.3
16.5	10700	0.97	91.53	"	"	18300	74200	19.5	9000	1.15
14.5	12100	0.87	102.5	"	"	20500	75000	17.5	10000	1.05
36	4900	3.0	40.94	BK90-../DHE18LA4	734	21400	73100	43.5	4050	3.7
32.5	5400	2.9	45.80	"	"	22700	76300	39	4500	3.4
27	6500	2.5	54.98	"	"	24000	81000	32.5	5400	3.0
24	7300	2.3	61.52	"	"	25500	84600	29	6000	2.8
21.5	8200	2.0	69.27	"	"	27200	88900	26	6700	2.5
19	9200	1.85	77.51	"	"	30300	94400	23	7600	2.2
16.5	10700	1.55	91.19	"	"	33300	101000	19.5	9000	1.85
14.5	12100	1.4	102.0	"	"	36600	107000	17.5	10000	1.7
13	13500	1.25	117.0	"	"	39200	113000	15.5	11300	1.5
11.5	15300	1.1	130.9	"	"	42700	119400	14	12600	1.35
9.9	17800	0.94	149.5	"	"	45600	120000	12	14700	1.15
8.8	20000	0.84	167.2	"	"	49400	120000	11	16000	1.05
8.5	20700	0.89	174.7	BK90Z-../DHE18LA4	788	49400	120000	10.5	16800	1.1
7.6	23200	0.8	195.4	"	"	49400	120000	9.1	19400	0.95

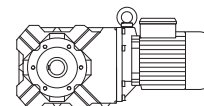
P = 22 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
97	2150	1.45	15.16	BK70-../DHE18XA4	384	5600	25800	117	1790	1.7
86	2400	1.45	17.24	"	"	6500	29200	103	2000	1.75
68	3050	1.35	21.88	"	"	6500	30200	81	2550	1.6
60	3500	1.2	24.89	"	"	7000	31500	72	2900	1.45
48	4350	1.05	30.90	"	"	7500	33600	58	3600	1.25
42	5000	0.95	35.15	"	"	8000	35000	51	4100	1.15
37	5600	0.87	40.08	"	"	8300	36300	44.5	4700	1.05
32.5	6400	0.8	45.59	"	"	9000	37900	39	5300	0.97
103	2000	2.1	14.34	BK80-../DHE18XA4	498	7900	36200	124	1690	2.5
93	2250	2.1	15.88	"	"	8400	38600	112	1870	2.6
83	2500	2.1	17.79	"	"	9400	42100	100	2100	2.5
76	2750	2.1	19.35	"	"	9500	44000	92	2250	2.6
67	3100	2.2	22.19	"	"	10500	48500	80	2600	2.6
60	3500	2.0	24.85	"	"	11200	50400	72	2900	2.4
48.5	4300	1.75	30.56	"	"	11900	53400	58	3600	2.1
43	4850	1.6	34.22	"	"	12600	55400	52	4000	1.95
35.5	5900	1.4	41.78	"	"	13500	58700	42.5	4900	1.7
31.5	6600	1.3	46.80	"	"	14300	60900	38	5500	1.55
28	7500	1.2	53.21	"	"	14800	63100	33.5	6200	1.45
25	8400	1.1	59.60	"	"	15700	65500	30	7000	1.3
21	10000	0.96	70.72	"	"	16600	68700	25.5	8200	1.15
19	11000	0.91	79.22	"	"	17600	71300	22.5	9300	1.1
16.5	12700	0.82	91.53	"	"	18300	74200	19.5	10700	0.97

# Kegelrad-Getriebemotoren Reihe BK

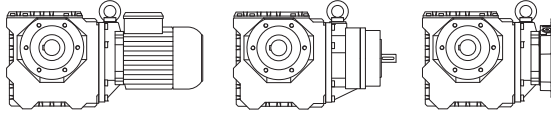
## Auswahl - Kegelradgetriebemotoren DHE - IE2

P = 22 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
48.5	4300	3.1	30.47	BK90-../DHE18XA4	752	19100	65900	59	3550	3.8
43.5	4800	2.9	34.09	"	"	20300	68800	52	4000	3.5
36	5800	2.5	40.94	"	"	21400	73100	43.5	4800	3.1
32.5	6400	2.4	45.80	"	"	22700	76300	39	5300	2.9
27	7700	2.1	54.98	"	"	24000	81000	32.5	6400	2.5
24	8700	1.95	61.52	"	"	25500	84600	29	7200	2.3
21.5	9700	1.75	69.27	"	"	27200	88900	26	8000	2.1
19	11000	1.55	77.51	"	"	30300	94400	23	9100	1.85
16.5	12700	1.3	91.19	"	"	33300	101000	19.5	10700	1.55
14.5	14400	1.15	102.0	"	"	36600	107000	17.5	12000	1.4
13	16100	1.05	117.0	"	"	39200	113000	15.5	13500	1.25
11.5	18200	0.92	130.9	"	"	42700	119400	14	15000	1.1





Seite

## Schnecken Getriebemotoren Reihe BS Auswahl

299-336

### Beschreibung der Schneckengetriebe

- Baugrößen
- Wirkungsgrad
- Bauer-Betriebsfaktoren ( $f_b$ ) für Schnecken-Getriebemotoren
- Durchlaufbetrieb ohne Schalthäufigkeit  $Z \leq 1/h$
- Schaltbetrieb
- Umgebungstemperatur
- Bauer-Betriebsfaktor
- Erklärung der Stoßgrade
- Erklärung der Kurzzeichen
- Auswahltabellen der Schnecken-Getriebemotoren

### Auswahl - Schneckengetriebemotoren IE1

### Auswahl - Schneckengetriebemotoren IE2

# Schnecken-Getriebemotoren Reihe BS

## Beschreibung der Schneckengetriebe

### Baugrößen

Bauer-Schnecken-Getriebemotoren der Reihe BS werden listenmäßig in 8 Baugrößen und mit Drehmomenten von 25 Nm bis 1.000 Nm geliefert. Höhere Drehmomente auf Anfrage. Die Getriebe haben ein kräftiges Guss-Gehäuse.

### Wirkungsgrad

Der Wirkungsgrad von Schneckengetriebemotoren hängt von zahlreichen Einflüssen ab, unter anderem von der Schmierung, vom Einlaufzustand, der Temperatur und eventuellen Vibrationen. Der rechnerische Wirkungsgrad kann daher nur als Richtwert dienen. Wenn der Wirkungsgrad oder die Selbsthemmung funktionsbedingt wichtig sind, empfiehlt sich eine Rückfrage unter Angabe der Randbedingungen.

### Bauer-Betriebsfaktoren ( $f_b$ ) für Schnecken-Getriebemotoren

Bei Schnecken-Getrieben wird das Drehmoment ausschließlich durch Gleitreibung übertragen, so dass im Verhältnis zu Stirnradgetrieben physikalisch bedingt höhere Verluste und Erwärmung auftreten.

Für die Gesamtbeanspruchung eines Schnecken-Getriebes sind zahlreiche Einflussgrößen maßgebend; zu den wichtigsten gehören:

- mittleres Drehmoment (Bemessungsdrehmoment)
- tägliche Betriebszeit
- Stärke von Drehmomentstößen (Stoßgrad)
- Häufigkeit von Drehmomentstößen (Schaltbetrieb)
- Umgebungstemperatur

Diese Einflüsse können vereinfachend und praxisnah durch **Betriebsfaktoren** beschrieben werden. In den nachfolgenden Tabellen und Erläuterungen wird versucht, statt einer Klassifizierung von Arbeitsmaschinen eine objektive Beschreibung des **Stoßgrades** zu geben. Erfahrungsgemäß spielen dabei neben den von der Arbeitsmaschine verursachten Drehmomentstößen ( $M_x/M_N$ ) vor allem die Übertragungsmittel (Kupplungen, Ketten usw.) sowie die Massenverhältnisse eine entscheidende Rolle.

Weitere Informationen siehe Bauer-Sonderdruck SD32..

### Faktor $f_b$ für Stoßgrad und Betriebszeit

	Betriebszeit pro Tag $t_d$ $\leq 10$ min	$\leq 1$ h	$> 1$ h	$> 4$ h	$> 8$ h	$> 16$ h
			$\leq 4$ h	$\leq 8$ h	$\leq 16$ h	$\leq 24$ h
I	0,7	0,8	0,9	1,0	1,25	1,4
II	0,9	1,0	1,12	1,25	1,6	1,8
III	1,25	1,4	1,6	1,8	2,2	2,5

9

Durchlaufbetrieb ohne  
Schalthäufigkeit  $Z \leq 1/h$



# Schnecken-Getriebemotoren Reihe BS

## Beschreibung der Schneckengetriebe

Schaltnbetrieb

**Faktor  $f_2$**  für Stoßgrad und Schalthäufigkeit

Schaltnhäufigkeit im Einschicht-Betrieb  $t_d \leq 8$  h/d

Stoßgrad	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	1,25	1,4	1,6
II	1,6	1,8	2,0
III	1,8	2,0	2,2

Schaltnhäufigkeit im Mehrschicht-Betrieb  $t_d > 8$  h/d

Stoßgrad	$1 < Z \leq 100$	$100 < Z \leq 1000$	$1000 < Z$
I	1,4	1,6	1,8
II	1,8	2,0	2,2
III	2,0	2,2	2,5

Umgebungstemperatur

**Faktor  $f_3$**  für erhöhte Umgebungstemperatur

UT	-10°C .. +25°C	>25°C	>30°C	>35°C	>40°C	>45°C	>50°C	>55°C
	kein Faktor	1,1	1,2	1,3	1,4	1,5	1,6	Anfrage

Bauer-Betriebsfaktor

Bauer-Betriebsfaktor  $f_b$  = Maximalwert  $f_1, f_2, f_3$  (bei täglichen Betriebszeiten > 1h)

Beispiel: Stoßgrad II bei  $Z = 100$  Schaltungen pro Stunde und Mehrschichtbetrieb ergibt den Betriebsfaktor  $f_b = f_2 = 1,8$

Erklärung der Stoßgrade

### Stoßgrad I:

Gleichförmig ohne Stöße. Alle folgenden Bedingungen müssen erfüllt werden:

- $FI \leq 1,3$
- $M_x/M_N \leq 1,0$
- Übertragungsmittel stoßdämpfend (z.B. hochelastische, spielfreie Kupplung,  $\varphi_N \geq 5^\circ$ )

### Stoßgrad II:

Mäßige Stöße. Mindestens eine der folgenden Bedingungen trifft zu:

- $1,3 < FI \leq 2$
- $1 \leq M_x/M_N \leq 1,4$
- Übertragungsmittel stoßneutral (z.B. Zahnräder, spielfreie starre Kupplung oder elastische Kupplung mit  $\varphi_N < 5^\circ$ )

### Stoßgrad III:

Heftige Stöße. Mindestens eine der folgenden Bedingungen trifft zu:

- $FI > 2$
- $1,4 < M_x/M_N \leq 2,0$
- Übertragungsmittel stoßverstärkend (z.B. spielbehaftete Kupplung oder Kettenantrieb)

# Schnecken-Getriebemotoren Reihe BS

## Beschreibung der Schneckengetriebe

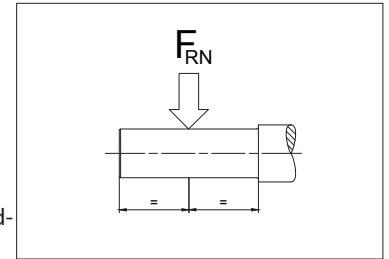
### Erklärung der Kurzzeichen

Z	Schaltbetrieb: Schaltungen pro Stunde
$t_d$	Tägliche Betriebszeit in Stunden (h/d)
FI	Trägheitsfaktor $FI = (J_{ext} + J_{rot})/J_{rot}$
$J_{ext}$	Massenträgheitsmoment der anzutreibenden Maschine, bezogen auf die Läuferwelle des Motors ( $kgm^2$ )
$J_{rot}$	Massenträgheitsmoment des Motorläufers ( $kgm^2$ )
$M_x$	Höchstes Stoßmoment, das betriebsbedingt oder im Störfall über das statische Lastmoment hinaus eintreten kann
$M_N$	Erforderliches statisches Lastmoment für die Anwendung
$M_x/M_N$	Relatives Stoßmoment - Faktor $\varphi_N$ Verdrehwinkel der elastischen Kupplung bei Bemessungsmoment
UT	Umgebungstemperatur ( $^{\circ}C$ )

### Auswahltabellen der Schnecken-Getriebemotoren

### Erläuterungen zu den Abkürzungen

P	Bemessungsleistung
$n_2$	Bemessungsdrehzahl der Arbeitswelle
i	Getriebe-Untersetzung
$M_2$	Bemessungsmoment an der Arbeitswelle
$f_B$	Bauer-Betriebsfaktor
$F_{RN}$	Maximal zulässige Radialkraft bei Standard-Zapfenwelle (Code -.1 und -.2)



Mit den Auswahltabellen kann die Größe des Getriebemotors festgelegt werden. Die Ausführung des Getriebes und der Arbeitswelle kann mittels Codezahlen eindeutig definiert werden (siehe Kapitel 13 „Maßbilder Schnecken-Getriebemotoren“).

Die mit (\*) gekennzeichneten Drehmomente sind maximal zulässige Werte bei Betriebsfaktor  $f_B = 1,0$ .

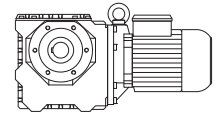
### Motorleistung-Überlastungsschutz

Die Nennleistung der Motoren, vor allem in Verbindung mit den vier- und mehrstufigen Getrieben, sind z. T. reichlich bemessen. Der Bemessungsstrom stellt aus diesem Grunde wie auch bei kleinen Motorleistungen keinen Maßstab für die Getriebeauslastung dar und kann nicht als Überlastungsschutz für das Getriebe genutzt werden. Bei Gefahr von zu hoher Belastung oder Blockierung ist es sinnvoll, das Getriebe durch mechanische Einrichtung (z. B. Rutschkupplung, Rutschnabe, Scherstift o. ä.) zu schützen.

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

**P = 0.03 kW**

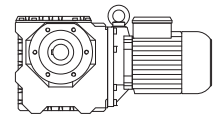


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
75	2.8	8.9	18.00	<b>BS02-../D04LA4</b>	3.5	1250	-	90	2.35	11
62	3.2	7.8	22.00	"	"	1250	-	74	2.7	9.3
50	3.6	6.9	27.00	"	"	1250	-	60	3.0	8.3
41	4.15	6.0	33.00	"	"	1250	-	49.5	3.45	7.2
31.5	5.6	4.3	43.00	"	"	1250	-	38	4.65	5.2
25	6.5	3.4	54.00	"	"	1250	-	30	5.4	4.1
19.5	7.4	2.7	70.00	"	"	1250	-	23.5	6.2	3.2
14.5	11.6	3.3	93.92	<b>BS04-../D04LA4</b>	3.9	2250	-	17.5	9.6	4.0
13.5	13.5	2.8	102.9	"	"	2250	-	16	11.4	3.3
12	13.6	2.8	117.0	"	"	2250	-	14	11.6	3.3
11	16.4	2.5	123.0	"	"	2250	-	13.5	13.3	3.1
9.8	18.1	2.3	138.4	"	"	2250	-	12	14.8	2.8
9.0	17.5	2.2	150.3	"	"	2250	-	11	14.3	2.7
8.5	20.5	1.8	160.1	"	"	2250	-	10.5	16.6	2.2
7.8	19.8	2.0	174.0	"	"	2250	-	9.4	16.4	2.4
6.2	24	1.65	220.0	"	"	2250	-	7.4	20.5	1.95
5.4	27.5	1.5	251.6	"	"	2250	-	6.5	22.5	1.8
4.5	32	1.35	300.7	"	"	2250	-	5.4	27	1.6
4.0	35.5	1.25	338.3	"	"	2250	-	4.8	29.5	1.5
3.5	40	1.15	391.3	"	"	2250	-	4.2	33	1.35
5.4	30.5	3.2	252.0	<b>BS06-../D04LA4</b>	8.4	3500	-	6.5	25.5	3.9
4.3	37.5	2.8	315.3	"	"	3500	-	5.2	31	3.4
3.8	42	2.6	358.9	"	"	3500	-	4.6	34.5	3.2
3.3	47.5	2.3	418.0	"	"	3500	-	3.9	40	2.8
2.9	70	1.35	474.8	<b>BS06G04-../D04LA4</b>	11	3500	-	3.5	58	1.6
2.5	79	1.25	552.6	"	"	3500	-	3.0	65	1.55
2.3	88	1.05	610.7	"	"	3500	-	2.7	75	1.25
2.0	101	0.93	704.7	"	"	3500	-	2.3	88	1.05
1.6	94*	1.0	847.0	"	"	3500	-	2.0	94	1.0
1.5	94*	1.0	939.6	"	"	3500	-	1.8	94	1.0
1.2	94*	1.0	1170	"	"	3500	-	1.4	94	1.0
0.9	94*	1.0	1503	"	"	3500	-	1.1	94	1.0
0.85	94*	1.0	1654	"	"	3500	-	1.0	94	1.0
0.75	94*	1.0	1914	"	"	3500	-	0.85	94	1.0
0.65	94*	1.0	2200	"	"	3500	-	0.75	94	1.0
0.49	94*	1.0	2768	"	"	3500	-	0.6	94	1.0
0.45	94*	1.0	3007	"	"	3500	-	0.55	94	1.0
0.41	94*	1.0	3308	"	"	3500	-	0.49	94	1.0
0.37	94*	1.0	3721	"	"	3500	-	0.44	94	1.0
0.32	94*	1.0	4304	"	"	3500	-	0.38	94	1.0
0.28	98*	1.0	4947	"	"	3500	-	0.33	98	1.0
0.25	98*	1.0	5442	"	"	3500	-	0.3	98	1.0
0.22	100*	1.0	6234	"	"	3500	-	0.26	100	1.0
2.5	67	2.8	544.8	<b>BS10Z-../D04LA4</b>	21	6000	-	3.0	56	3.4
2.2	72	2.6	638.7	"	"	6000	-	2.6	61	3.1
1.8	85	2.1	788.7	"	"	6000	-	2.1	73	2.5
1.5	101	1.55	905.6	"	"	6000	-	1.8	84	1.9
1.4	130	1.25	969.9	<b>BS10G06-../D04LA4</b>	25	6000	-	1.7	107	1.5
1.2	152	1.05	1166	"	"	6000	-	1.4	130	1.25
1.1	166	0.96	1342	"	"	6000	-	1.3	141	1.15
0.9	160*	1.0	1528	"	"	6000	-	1.1	160	1.0
0.85	160*	1.0	1668	"	"	6000	-	1.0	160	1.0
0.7	160*	1.0	1963	"	"	6000	-	0.85	160	1.0
0.6	160*	1.0	2348	"	"	6000	-	0.7	160	1.0
0.55	160*	1.0	2635	"	"	6000	-	0.65	160	1.0
0.47	160*	1.0	2875	"	"	6000	-	0.6	160	1.0
0.41	160*	1.0	3332	"	"	6000	-	0.49	160	1.0
0.38	160*	1.0	3635	"	"	6000	-	0.45	160	1.0
0.33	160*	1.0	4163	"	"	6000	-	0.39	160	1.0
0.29	160*	1.0	4776	"	"	6000	-	0.34	160	1.0
0.26	160*	1.0	5209	"	"	6000	-	0.32	160	1.0
0.23	164*	1.0	6019	"	"	6000	-	0.27	164	1.0
0.21	164*	1.0	6565	"	"	6000	-	0.25	164	1.0

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

**P = 0.03 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
0.19	164*	1.0	7471	<b>BS10G06-../D04LA4</b>	"	6000	-	0.22	164	1.0
0.16	164*	1.0	8703	"	"	6000	-	0.19	164	1.0
1.7	111	2.4	831.7	<b>BS20G06-../D04LA4</b>	35	8000	-	2.0	94	2.9
1.4	135	2.0	1000	"	"	8000	-	1.7	111	2.4
1.1	171	1.6	1311	"	"	8000	-	1.3	145	1.85
0.9	210	1.3	1543	"	"	8000	-	1.1	171	1.6
0.85	220	1.25	1683	"	"	8000	-	1.0	189	1.45
0.7	270*	1.0	2014	"	"	8000	-	0.85	270	1.0
0.55	270*	1.0	2465	"	"	8000	-	0.7	270	1.0
0.48	270*	1.0	2857	"	"	8000	-	0.6	270	1.0
0.44	270*	1.0	3117	"	"	8000	-	0.55	270	1.0
0.38	270*	1.0	3570	"	"	8000	-	0.46	270	1.0
0.33	270*	1.0	4096	"	"	8000	-	0.4	270	1.0
0.28	270*	1.0	4910	"	"	8000	-	0.33	270	1.0
0.23	270*	1.0	5880	"	"	8000	-	0.28	270	1.0
0.19	275*	1.0	7363	"	"	8000	-	0.23	275	1.0
0.17	275*	1.0	8031	"	"	8000	-	0.21	275	1.0
0.15	280*	1.0	9220	"	"	8000	-	0.18	280	1.0
1.2	164	3.0	1176	<b>BS30G06-../D04LA4</b>	53	10000	-	1.4	141	3.5
0.95	205	2.4	1461	"	"	10000	-	1.2	164	3.0
0.9	215	2.3	1576	"	"	10000	-	1.1	179	2.7
0.75	260	1.9	1886	"	"	10000	-	0.9	215	2.3
0.6	325	1.5	2308	"	"	10000	-	0.75	260	1.9
0.55	355	1.4	2518	"	"	10000	-	0.65	300	1.65
0.47	420	1.15	2919	"	"	10000	-	0.6	325	1.5
0.41	480	1.0	3344	"	"	10000	-	0.49	400	1.25
0.38	490*	1.0	3647	"	"	10000	-	0.45	490	1.0
0.33	490*	1.0	4184	"	"	10000	-	0.39	490	1.0
0.28	510*	1.0	4905	"	"	10000	-	0.34	510	1.0
0.24	520*	1.0	5783	"	"	10000	-	0.29	520	1.0
0.22	520*	1.0	6308	"	"	10000	-	0.26	520	1.0
0.19	520*	1.0	7179	"	"	10000	-	0.23	520	1.0
0.17	520*	1.0	8362	"	"	10000	-	0.2	520	1.0

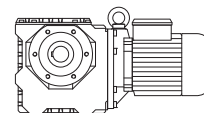
**P = 0.04 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
127	2.45	10	10.67	<b>BS02-../D04LA4</b>	3.5	1250	-	152	2.05	12
100	2.95	8.5	13.50	"	"	1250	-	120	2.45	10
75	3.75	6.7	18.00	"	"	1250	-	90	3.1	8.1
62	4.3	5.8	22.00	"	"	1250	-	74	3.6	6.9
50	4.8	5.2	27.00	"	"	1250	-	60	4.0	6.3
41	5.5	4.5	33.00	"	"	1250	-	49.5	4.6	5.4
31.5	7.5	3.2	43.00	"	"	1250	-	38	6.2	3.9
25	8.7	2.5	54.00	"	"	1250	-	30	7.2	3.1
19.5	9.9	2.0	70.00	"	"	1250	-	23.5	8.2	2.4
21.5	11.1	3.2	64.06	<b>BS04-../D04LA4</b>	3.9	2250	-	25.5	9.4	3.8
19	13.2	2.9	71.18	"	"	2250	-	23	10.9	3.5
18	12.9	2.9	77.00	"	"	2250	-	21.5	10.8	3.5
14.5	15.5	2.5	93.92	"	"	2250	-	17.5	12.8	3.0
13.5	18.1	2.1	102.9	"	"	2250	-	16	15.2	2.5
12	18.1	2.1	117.0	"	"	2250	-	14	15.5	2.5
11	21.5	1.9	123.0	"	"	2250	-	13.5	17.8	2.3
9.8	24	1.75	138.4	"	"	2250	-	12	19.7	2.1
9.0	23	1.7	150.3	"	"	2250	-	11	19.1	2.0
8.5	27	1.35	160.1	"	"	2250	-	10.5	22	1.7
7.8	26	1.55	174.0	"	"	2250	-	9.4	21.5	1.85
6.2	32.5	1.25	220.0	"	"	2250	-	7.4	27	1.5
5.4	36.5	1.1	251.6	"	"	2250	-	6.5	30.5	1.35
4.5	43	1.0	300.7	"	"	2250	-	5.4	36	1.2

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

**P = 0.04 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
4.0	47.5	0.93	338.3	BS04-../D04LA4	"	2250	-	4.8	39.5	1.1
3.5	53	0.85	391.3	"	"	2250	-	4.2	44.5	1.0
7.9	30.5	2.9	171.0	BS06-../D04LA4	8.4	3500	-	9.5	25.5	3.5
6.2	36	2.7	220.0	"	"	3500	-	7.4	30	3.3
5.4	41	2.4	252.0	"	"	3500	-	6.5	34	2.9
4.3	50	2.1	315.3	"	"	3500	-	5.2	41.5	2.6
3.8	56	1.95	358.9	"	"	3500	-	4.6	46.5	2.4
3.3	63	1.75	418.0	"	"	3500	-	3.9	53	2.1
2.9	93	1.0	474.8	BS06G04-../D04LA4	11	3500	-	3.5	77	1.2
2.5	105	0.95	552.6	"	"	3500	-	3.0	87	1.15
2.3	117	0.8	610.7	"	"	3500	-	2.7	100	0.94
3.8	62	3.1	360.3	BS10Z-../D04LA4	21	6000	-	4.5	52	3.7
3.2	72	2.6	432.4	"	"	6000	-	3.8	61	3.1
2.5	90	2.1	544.8	"	"	6000	-	3.0	75	2.5
2.2	97	1.95	638.7	"	"	6000	-	2.6	82	2.3
1.8	114	1.6	788.7	"	"	6000	-	2.1	98	1.85
1.5	134	1.2	905.6	"	"	6000	-	1.8	112	1.4
1.4	174	0.92	969.9	BS10G06-../D04LA4	25	6000	-	1.7	143	1.1
1.2	200	0.8	1166	"	"	6000	-	1.4	174	0.92
1.8	114	2.7	763.4	BS20Z-../D04LA4	32	8000	-	2.2	93	3.3
1.7	148	1.8	831.7	BS20G06-../D04LA4	35	8000	-	2.0	126	2.1
1.4	180	1.5	1000	"	"	8000	-	1.7	148	1.8
1.1	225	1.2	1311	"	"	8000	-	1.3	193	1.4
1.4	188	2.6	1022	BS30G06-../D04LA4	53	10000	-	1.6	164	3.0
1.2	215	2.3	1176	"	"	10000	-	1.4	188	2.6
0.95	275	1.8	1461	"	"	10000	-	1.2	215	2.3
0.9	290	1.7	1576	"	"	10000	-	1.1	235	2.1
0.75	350	1.4	1886	"	"	10000	-	0.9	290	1.7
0.6	435	1.15	2308	"	"	10000	-	0.75	350	1.4
0.55	475	1.05	2518	"	"	10000	-	0.65	405	1.2

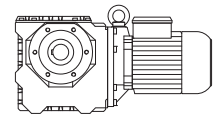
**P = 0.06 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	1.7	8.8	4.60	BS02-../D04LA4	3.5	1000	-	355	1.42	11
250	2.0	10	5.40	"	"	1000	-	300	1.68	12
200	2.45	10	6.75	"	"	1000	-	240	2.05	12
164	2.9	8.6	8.25	"	"	1100	-	197	2.4	10
127	3.65	6.8	10.67	"	"	1250	-	152	3.05	8.2
100	4.45	5.6	13.50	"	"	1250	-	120	3.7	6.8
75	5.6	4.5	18.00	"	"	1250	-	90	4.7	5.3
62	6.4	3.9	22.00	"	"	1250	-	74	5.4	4.6
50	7.2	3.5	27.00	"	"	1250	-	60	6.0	4.2
41	8.3	3.0	33.00	"	"	1250	-	49.5	6.9	3.6
31.5	11.2	2.1	43.00	"	"	1250	-	38	9.3	2.6
25	13	1.7	54.00	"	"	1250	-	30	10.8	2.0
19.5	14.9	1.35	70.00	"	"	1250	-	23.5	12.4	1.6
18	16.2	2.5	75.00	BS03-../D05LA4	5.4	1950	-	22	13.2	3.0
35.5	11.1	3.3	38.42	BS04-../D04LA4	3.9	2250	-	42.5	9.3	4.0
28.5	13.6	2.8	47.86	"	"	2250	-	34	11.4	3.3
21.5	16.7	2.2	64.06	"	"	2250	-	25.5	14.1	2.6
19	19.9	1.9	71.18	"	"	2250	-	23	16.4	2.3
18	19.4	1.95	77.00	"	"	2250	-	21.5	16.2	2.3
14.5	23	1.65	93.92	"	"	2250	-	17.5	19.3	1.95
13.5	27	1.4	102.9	"	"	2250	-	16	22.5	1.7
12	27	1.4	117.0	"	"	2250	-	14	23	1.65
11	32.5	1.25	123.0	"	"	2250	-	13.5	26.5	1.55

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

P = 0.06 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.8	36	1.15	138.4	BS04-../D04LA4	"	2250	-	12	29.5	1.4
9.0	35	1.1	150.3	"	"	2250	-	11	28.5	1.35
8.5	41	0.9	160.1	"	"	2250	-	10.5	33	1.1
7.8	39.5	1.0	174.0	"	"	2250	-	9.4	32.5	1.25
6.2	48.5	0.82	220.0	"	"	2250	-	7.4	41	0.98
11.5	32	2.9	118.8	BS06-../D04LA4	8.4	3500	-	14	26.5	3.5
10.5	36.5	2.8	129.0	"	"	3500	-	13	29.5	3.5
9.2	40	2.7	146.8	"	"	3500	-	11.5	32	3.3
7.8	44	2.2	174.0	"	"	3500	-	9.4	36.5	2.7
6.2	54	1.8	220.0	"	"	3500	-	7.4	45.5	2.2
5.4	61	1.6	252.0	"	"	3500	-	6.5	51	1.95
4.3	75	1.4	315.3	"	"	3500	-	5.2	62	1.7
3.8	84	1.3	358.9	"	"	3500	-	4.6	69	1.6
3.3	95	1.15	418.0	"	"	3500	-	3.9	80	1.4
11.5	36.5	3.3	119.6	BS10-../D06LA4	23	6000	-	14	30	4.0
6.3	58	3.1	216.6	"	"	6000	-	7.5	48.5	3.7
5.4	67	2.7	254.0	BS10Z-../D06LA4	24	6000	-	6.4	57	3.2
4.5	78	2.4	302.5	"	"	6000	-	5.4	65	2.9
3.8	93	2.0	360.3	"	"	6000	-	4.5	78	2.4
3.2	109	1.75	432.4	"	"	6000	-	3.8	91	2.1
2.5	135	1.4	544.8	"	"	6000	-	3.0	112	1.7
2.2	145	1.3	638.7	"	"	6000	-	2.6	123	1.55
1.8	171	1.05	788.7	"	"	6000	-	2.1	147	1.2
3.2	109	3.0	430.8	BS20Z-../D06LA4	35	8000	-	3.8	91	3.6
2.6	121	3.0	539.7	"	"	8000	-	3.1	101	3.6
2.2	140	2.4	619.2	"	"	8000	-	2.7	114	2.9
1.8	171	1.8	763.4	"	"	8000	-	2.2	140	2.2
1.7	220	1.25	831.7	BS20G06-../D06LA4	38	8000	-	2.0	189	1.45
1.4	270	1.0	1000	"	"	8000	-	1.7	220	1.25
1.7	195	2.4	804.1	BS30Z-../D06LA4	54	10000	-	2.1	158	3.0
1.5	215	2.1	932.0	"	"	10000	-	1.8	181	2.5
1.4	280	1.75	1022	BS30G06-../D06LA4	56	10000	-	1.6	245	2.0
1.2	325	1.5	1176	"	"	10000	-	1.4	280	1.75
0.95	415	1.2	1461	"	"	10000	-	1.2	325	1.5
0.9	435	1.15	1576	"	"	10000	-	1.1	355	1.4
1.5	225	3.3	908.2	BS40Z-../D06LA4	68	15000	-	1.8	187	4.0
1.4	285	3.1	965.5	BS40G10-../D06LA4	73	15000	-	1.7	235	3.7
1.2	330	2.7	1180	"	"	15000	-	1.4	285	3.1
0.95	420	2.1	1499	"	"	15000	-	1.1	360	2.4
0.8	500	1.75	1785	"	"	15000	-	0.95	420	2.1
0.65	610	1.45	2126	"	"	15000	-	0.8	500	1.75
0.6	660	1.35	2304	"	"	15000	-	0.75	530	1.65
0.55	720	1.2	2552	"	"	15000	-	0.65	610	1.45
0.47	850	1.05	2902	"	"	15000	-	0.6	660	1.35

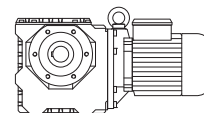
P = 0.09 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	2.55	5.9	4.60	BS02-../D04LA4	3.5	1000	-	355	2.1	7.1
250	3.0	6.7	5.40	"	"	1000	-	300	2.5	8.0
200	3.65	6.8	6.75	"	"	1000	-	240	3.05	8.2
164	4.4	5.7	8.25	"	"	1100	-	197	3.65	6.8
127	5.5	4.5	10.67	"	"	1250	-	152	4.6	5.4
100	6.7	3.7	13.50	"	"	1250	-	120	5.5	4.5
75	8.4	3.0	18.00	"	"	1250	-	90	7.0	3.6
62	9.7	2.6	22.00	"	"	1250	-	74	8.1	3.1
50	10.8	2.3	27.00	"	"	1250	-	60	9.0	2.8
41	12.5	2.0	33.00	"	"	1250	-	49.5	10.4	2.4

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

P = 0.09 kW

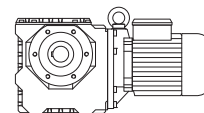


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
31.5	16.9	1.4	43.00	<b>BS02-../D04LA4</b>	"	1250	-	38	14	1.7
25	19.5	1.15	54.00	"	"	1250	-	30	16.3	1.35
19.5	22	0.91	70.00	"	"	1250	-	23.5	18.6	1.1
27	18.4	3.0	50.00	<b>BS03-../D05LA4</b>	5.4	1950	-	32.5	15.3	3.6
22	20.5	2.3	62.00	"	"	1950	-	26.5	17.1	2.8
18	24	1.65	75.00	"	"	1950	-	22	19.9	2.0
56	11.6	2.9	24.25	<b>BS04-../D04LA4</b>	3.9	2250	-	67	9.7	3.5
52	11.7	3.2	26.21	"	"	2250	-	62	9.8	3.9
43	13.9	2.7	31.50	"	"	2250	-	52	11.5	3.3
35.5	16.7	2.2	38.42	"	"	2250	-	42.5	13.9	2.7
28.5	20.5	1.85	47.86	"	"	2250	-	34	17.1	2.2
21.5	25	1.45	64.06	"	"	2250	-	25.5	21	1.7
19	29.5	1.3	71.18	"	"	2250	-	23	24.5	1.55
18	29	1.3	77.00	"	"	2250	-	21.5	24	1.6
14.5	34.5	1.1	93.92	"	"	2250	-	17.5	28.5	1.35
13.5	40.5	0.94	102.9	"	"	2250	-	16	34	1.1
12	40.5	0.94	117.0	"	"	2250	-	14	34.5	1.1
11	49	0.84	123.0	"	"	2250	-	13.5	40	1.05
21.5	27	3.0	64.06	<b>BS06-../D04LA4</b>	8.4	3500	-	25.5	22.5	3.6
19	32	2.9	71.18	"	"	3500	-	23	26.5	3.5
18	31.5	2.7	77.00	"	"	3500	-	21.5	26.5	3.2
15	40	2.5	90.00	"	"	3500	-	18	33	3.0
13.5	43.5	2.3	103.1	"	"	3500	-	16	37	2.7
11.5	48.5	1.95	118.8	"	"	3500	-	14	39.5	2.4
10.5	54	1.95	129.0	"	"	3500	-	13	44	2.4
9.2	60	1.75	146.8	"	"	3500	-	11.5	48.5	2.2
7.8	66	1.5	174.0	"	"	3500	-	9.4	54	1.8
6.2	81	1.2	220.0	"	"	3500	-	7.4	68	1.45
5.4	92	1.1	252.0	"	"	3500	-	6.5	76	1.3
4.3	113	0.94	315.3	"	"	3500	-	5.2	94	1.15
3.8	126	0.87	358.9	"	"	3500	-	4.6	104	1.05
11.5	55	2.2	119.6	<b>BS10-../D06LA4</b>	23	6000	-	14	45	2.7
10.5	52	3.2	130.3	"	"	6000	-	12.5	44	3.7
8.9	61	2.7	152.7	"	"	6000	-	11	50	3.3
7.2	76	2.2	188.6	"	"	6000	-	8.6	63	2.7
6.3	87	2.1	216.6	"	"	6000	-	7.5	73	2.5
5.4	101	1.8	254.0	<b>BS10Z-../D06LA4</b>	24	6000	-	6.4	85	2.1
4.5	118	1.6	302.5	"	"	6000	-	5.4	98	1.95
3.8	140	1.35	360.3	"	"	6000	-	4.5	118	1.6
3.2	163	1.15	432.4	"	"	6000	-	3.8	137	1.4
2.5	200	0.95	544.8	"	"	6000	-	3.0	169	1.1
2.2	215	0.88	638.7	"	"	6000	-	2.6	185	1.05
6.0	91	3.2	225.6	<b>BS20-../D06LA4</b>	34	8000	-	7.2	76	3.8
5.3	103	2.9	257.8	<b>BS20Z-../D06LA4</b>	35	8000	-	6.3	87	3.4
4.5	120	2.5	300.1	"	"	8000	-	5.4	100	3.0
3.8	140	2.3	359.9	"	"	8000	-	4.6	115	2.8
3.2	163	2.0	430.8	"	"	8000	-	3.8	137	2.4
2.6	181	2.0	539.7	"	"	8000	-	3.1	152	2.4
2.2	210	1.55	619.2	"	"	8000	-	2.7	171	1.95
1.8	255	1.2	763.4	"	"	8000	-	2.2	210	1.5
1.7	330	0.82	831.7	<b>BS20G06-../D06LA4</b>	38	8000	-	2.0	280	0.96
3.8	167	2.4	359.6	<b>BS30Z-../D06LA4</b>	54	10000	-	4.6	138	2.9
3.0	183	3.3	457.3	"	"	10000	-	3.6	152	3.9
2.6	210	2.9	539.3	"	"	10000	-	3.1	177	3.4
2.1	245	2.4	651.0	"	"	10000	-	2.5	205	2.8
1.7	290	1.65	804.1	"	"	10000	-	2.1	235	2.0
1.5	325	1.4	932.0	"	"	10000	-	1.8	270	1.65
1.4	420	1.15	1022	<b>BS30G06-../D06LA4</b>	56	10000	-	1.6	370	1.3
1.2	490	1.0	1176	"	"	10000	-	1.4	420	1.15

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

P = 0.09kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
1.9	270	2.8	736.5	BS40Z-../D06LA4	68	15000	-	2.2	230	3.3
1.5	335	2.2	908.2	"	"	15000	-	1.8	280	2.7
1.4	425	2.1	965.5	BS40G10-../D06LA4	73	15000	-	1.7	350	2.5
1.2	500	1.75	1180	"	"	15000	-	1.4	425	2.1
0.95	630	1.4	1499	"	"	15000	-	1.1	540	1.65
0.8	750	1.15	1785	"	"	15000	-	0.95	630	1.4

P = 0.12kW

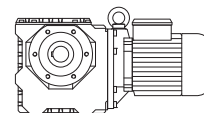
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	3.4	4.4	4.60	BS02-../D04LA4	3.5	1000	-	355	2.8	5.4
250	4.0	5.0	5.40	"	"	1000	-	300	3.35	6.0
200	4.9	5.1	6.75	"	"	1000	-	240	4.1	6.1
164	5.8	4.3	8.25	"	"	1100	-	197	4.85	5.2
127	7.3	3.4	10.67	"	"	1250	-	152	6.1	4.1
100	8.9	2.8	13.50	"	"	1250	-	120	7.4	3.4
75	11.3	2.2	18.00	"	"	1250	-	90	9.4	2.7
62	12.9	1.95	22.00	"	"	1250	-	74	10.8	2.3
50	14.4	1.75	27.00	"	"	1250	-	60	12	2.1
41	16.7	1.5	33.00	"	"	1250	-	49.5	13.8	1.8
31.5	22.5	1.05	43.00	"	"	1250	-	38	18.6	1.3
25	26	0.85	54.00	"	"	1250	-	30	21.5	1.0
41	17	3.2	33.00	BS03-../D05LA4	5.4	1950	-	49.5	14.1	3.9
35	20.5	2.7	39.00	"	"	1950	-	42	17.4	3.2
27	24.5	2.2	50.00	"	"	1950	-	32.5	20	2.8
22	27.5	1.75	62.00	"	"	1950	-	26.5	22.5	2.1
18	32	1.25	75.00	"	"	1950	-	22	26.5	1.5
83	10.6	3.3	16.31	BS04-../D04LA4	3.9	1970	-	100	8.8	4.0
65	13.3	2.8	20.96	"	"	2100	-	78	11.1	3.3
56	15.5	2.2	24.25	"	"	2250	-	67	12.9	2.6
52	15.6	2.4	26.21	"	"	2250	-	62	13.1	2.9
43	18.6	2.0	31.50	"	"	2250	-	52	15.4	2.5
35.5	22	1.7	38.42	"	"	2250	-	42.5	18.6	2.0
28.5	27	1.4	47.86	"	"	2250	-	34	22.5	1.7
21.5	33.5	1.05	64.06	"	"	2250	-	25.5	28	1.3
19	39.5	0.96	71.18	"	"	2250	-	23	32.5	1.15
18	38.5	0.99	77.00	"	"	2250	-	21.5	32.5	1.15
14.5	46.5	0.82	93.92	"	"	2250	-	17.5	38.5	0.99
28	29	3.0	48.60	BS06-../D04LA4	8.4	3500	-	33.5	24.5	3.6
23.5	34.5	2.6	58.15	"	"	3500	-	28	29	3.1
21.5	36	2.2	64.06	"	"	3500	-	25.5	30.5	2.6
19	42.5	2.2	71.18	"	"	3500	-	23	35	2.7
18	42.5	2.0	77.00	"	"	3500	-	21.5	35.5	2.4
15	53	1.85	90.00	"	"	3500	-	18	44.5	2.2
13.5	58	1.7	103.1	"	"	3500	-	16	49	2.0
11.5	64	1.45	118.8	"	"	3500	-	14	53	1.75
10.5	73	1.4	129.0	"	"	3500	-	13	59	1.75
9.2	80	1.35	146.8	"	"	3500	-	11.5	64	1.65
7.8	88	1.1	174.0	"	"	3500	-	9.4	73	1.35
6.2	109	0.9	220.0	"	"	3500	-	7.4	91	1.1
5.4	123	0.8	252.0	"	"	3500	-	6.5	102	0.97
16.5	51	2.9	84.36	BS10-../D06LA4	23	5300	-	19.5	43	3.5
13.5	54	3.0	103.4	"	"	5600	-	16	45.5	3.5
11.5	73	1.65	119.6	"	"	6000	-	14	60	2.0
10.5	69	2.4	130.3	"	"	6000	-	12.5	58	2.8
8.9	82	2.0	152.7	"	"	6000	-	11	66	2.5
7.2	101	1.7	188.6	"	"	6000	-	8.6	85	2.0
6.3	116	1.55	216.6	"	"	6000	-	7.5	97	1.85



# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

**P = 0.12 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
5.4	135	1.35	254.0	BS10Z-../D06LA4	24	6000	-	6.4	114	1.6
4.5	157	1.2	302.5	"	"	6000	-	5.4	131	1.45
3.8	186	1.0	360.3	"	"	6000	-	4.5	157	1.2
3.2	215	0.88	432.4	"	"	6000	-	3.8	183	1.05
8.5	88	3.1	159.4	BS20-../D06LA4	34	8000	-	10.5	72	3.8
7.4	102	2.7	183.0	"	"	8000	-	8.9	84	3.3
6.0	122	2.4	225.6	"	"	8000	-	7.2	101	2.9
5.3	138	2.1	257.8	BS20Z-../D06LA4	35	8000	-	6.3	116	2.5
4.5	160	1.9	300.1	"	"	8000	-	5.4	133	2.3
3.8	186	1.7	359.9	"	"	8000	-	4.6	154	2.1
3.2	215	1.55	430.8	"	"	8000	-	3.8	183	1.8
2.6	240	1.5	539.7	"	"	8000	-	3.1	200	1.85
2.2	280	1.2	619.2	"	"	8000	-	2.7	225	1.45
1.8	340	0.91	763.4	"	"	8000	-	2.2	280	1.1
3.8	220	1.8	359.6	BS30Z-../D06LA4	54	10000	-	4.6	184	2.1
3.5	210	2.8	390.2	"	"	10000	-	4.2	177	3.3
3.0	240	2.5	457.3	"	"	10000	-	3.6	200	3.0
2.6	280	2.1	539.3	"	"	10000	-	3.1	235	2.6
2.1	325	1.8	651.0	"	"	10000	-	2.5	275	2.1
1.7	390	1.2	804.1	"	"	10000	-	2.1	315	1.5
1.5	435	1.05	932.0	"	"	10000	-	1.8	360	1.25
1.4	560	0.88	1022	BS30G06-../D06LA4	56	10000	-	1.6	490	1.0
2.3	300	3.0	612.1	BS40Z-../D06LA4	68	15000	-	2.7	255	3.6
1.9	360	2.1	736.5	"	"	15000	-	2.2	310	2.4
1.5	450	1.65	908.2	"	"	15000	-	1.8	375	2.0
1.4	570	1.55	965.5	BS40G10-../D06LA4	73	15000	-	1.7	470	1.85
1.2	660	1.35	1180	"	"	15000	-	1.4	570	1.55
0.95	840	1.05	1499	"	"	15000	-	1.1	720	1.2

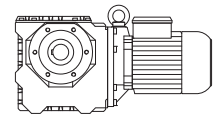
**P = 0.18 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	5.1	2.9	4.60	BS02-../D05LA4	5.3	1000	-	355	4.25	3.5
250	6.0	3.3	5.40	"	"	1000	-	300	5.0	4.0
200	7.3	3.4	6.75	"	"	1000	-	240	6.1	4.1
164	8.8	2.8	8.25	"	"	1100	-	197	7.3	3.4
127	11	2.3	10.67	"	"	1250	-	152	9.2	2.7
100	13.4	1.85	13.50	"	"	1250	-	120	11.1	2.3
75	16.9	1.5	18.00	"	"	1250	-	90	14.1	1.75
62	19.4	1.3	22.00	"	"	1250	-	74	16.2	1.55
50	21.5	1.15	27.00	"	"	1250	-	60	18	1.4
41	25	1.0	33.00	"	"	1250	-	49.5	20.5	1.2
72	18.1	3.0	19.00	BS03-../D05LA4	5.4	1950	-	86	15.1	3.6
54	21.5	2.6	25.00	"	"	1950	-	65	18.2	3.0
41	25.5	2.2	33.00	"	"	1950	-	49.5	21	2.6
35	31	1.75	39.00	"	"	1950	-	42	26	2.1
27	36.5	1.5	50.00	"	"	1950	-	32.5	30.5	1.8
22	41	1.15	62.00	"	"	1950	-	26.5	34	1.4
18	48.5	0.82	75.00	"	"	1950	-	22	39.5	1.0
126	10.6	3.0	10.73	BS04-../D05LA4	5.8	1600	-	151	8.8	3.6
104	12.7	2.6	13.09	"	"	1760	-	124	10.6	3.1
83	15.9	2.2	16.31	"	"	1970	-	100	13.2	2.7
65	20	1.85	20.96	"	"	2100	-	78	16.7	2.2
56	23	1.5	24.25	"	"	2250	-	67	19.4	1.75
52	23	1.65	26.21	"	"	2250	-	62	19.6	1.95
43	27.5	1.4	31.50	"	"	2250	-	52	23	1.65
35.5	33	1.1	38.42	"	"	2250	-	42.5	27.5	1.35
28.5	41	0.93	47.86	"	"	2250	-	34	34	1.1

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

P = 0.18 kW

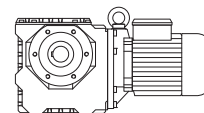


50 Hz			i	Typ	m kg	F <sub>RN</sub> N	F <sub>RV</sub> N	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
56	24.5	3.1	24.25	BS06-../D05LA4	10	2600	-	67	20.5	3.8
52	24	3.2	26.21	"	"	3000	-	62	20	3.9
43	29	2.8	31.50	"	"	3200	-	52	24	3.3
33	37.5	2.3	41.29	"	"	3500	-	39.5	31	2.8
28	44	2.0	48.60	"	"	3500	-	33.5	36.5	2.4
23.5	51	1.8	58.15	"	"	3500	-	28	43.5	2.1
21.5	54	1.5	64.06	"	"	3500	-	25.5	45.5	1.75
19	64	1.45	71.18	"	"	3500	-	23	53	1.75
18	63	1.35	77.00	"	"	3500	-	21.5	53	1.6
15	80	1.25	90.00	"	"	3500	-	18	66	1.5
13.5	87	1.15	103.1	"	"	3500	-	16	74	1.35
11.5	97	0.97	118.8	"	"	3500	-	14	79	1.2
10.5	109	0.95	129.0	"	"	3500	-	13	88	1.2
9.2	121	0.88	146.8	"	"	3500	-	11.5	97	1.1
28.5	45	3.2	47.59	BS10-../D06LA4	23	4050	-	34.5	37	3.9
24	53	2.8	57.12	"	"	4350	-	28.5	44.5	3.4
22.5	51	2.9	60.74	"	"	4550	-	27	42.5	3.5
19	66	2.4	71.96	"	"	5000	-	23	55	2.9
16.5	77	1.95	84.36	"	"	5300	-	19.5	65	2.3
13.5	81	2.0	103.4	"	"	5600	-	16	68	2.4
11.5	110	1.1	119.6	"	"	6000	-	14	90	1.35
10.5	104	1.6	130.3	"	"	6000	-	12.5	88	1.85
8.9	123	1.35	152.7	"	"	6000	-	11	100	1.65
7.2	152	1.1	188.6	"	"	6000	-	8.6	127	1.35
6.3	174	1.05	216.6	"	"	6000	-	7.5	146	1.25
5.4	200	0.9	254.0	BS10Z-../D06LA4	24	6000	-	6.4	171	1.05
4.5	235	0.81	302.5	"	"	6000	-	5.4	197	0.96
13	87	3.1	106.3	BS20-../D06LA4	34	7600	-	15.5	73	3.7
11	103	2.6	127.3	"	"	8000	-	13	87	3.1
8.5	133	2.1	159.4	"	"	8000	-	10.5	108	2.5
7.4	153	1.85	183.0	"	"	8000	-	8.9	127	2.2
6.0	183	1.6	225.6	"	"	8000	-	7.2	152	1.9
5.3	205	1.45	257.8	BS20Z-../D06LA4	35	8000	-	6.3	174	1.7
4.5	240	1.25	300.1	"	"	8000	-	5.4	200	1.5
3.8	280	1.15	359.9	"	"	8000	-	4.6	230	1.4
3.2	325	1.0	430.8	"	"	8000	-	3.8	275	1.2
2.6	360	1.0	539.7	"	"	8000	-	3.1	300	1.2
6.3	180	2.9	216.4	BS30-../D06LA4	51	10000	-	7.5	151	3.4
5.2	215	2.6	261.6	BS30Z-../D06LA4	54	10000	-	6.2	182	3.1
4.5	245	2.4	306.6	"	"	10000	-	5.3	210	2.8
3.8	330	1.2	359.6	"	"	10000	-	4.6	275	1.45
3.5	315	1.85	390.2	"	"	10000	-	4.2	265	2.2
3.0	365	1.65	457.3	"	"	10000	-	3.6	305	1.95
2.6	420	1.45	539.3	"	"	10000	-	3.1	350	1.7
2.1	490	1.2	651.0	"	"	10000	-	2.5	410	1.4
1.7	580	0.82	804.1	"	"	10000	-	2.1	470	1.0
4.7	270	2.6	287.7	BS40Z-../D06LA4	68	15000	-	5.7	220	3.3
3.1	345	2.9	446.8	"	"	15000	-	3.7	290	3.4
2.6	415	2.7	520.8	"	"	15000	-	3.2	335	3.3
2.3	455	2.0	612.1	"	"	15000	-	2.7	385	2.4
1.9	540	1.4	736.5	"	"	15000	-	2.2	465	1.65
1.5	670	1.1	908.2	"	"	15000	-	1.8	560	1.35
1.4	850	1.05	965.5	BS40G10-../D06LA4	73	15000	-	1.7	700	1.25
1.2	1000	0.88	1180	"	"	15000	-	1.4	850	1.05

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

P = 0.25 kW

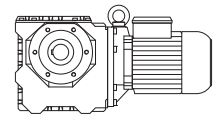


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	7.1	2.1	4.60	BS02-../D05LA4	5.3	1000	-	355	5.9	2.5
250	8.4	2.4	5.40	"	"	1000	-	300	7.0	2.9
200	10.2	2.5	6.75	"	"	1000	-	240	8.5	2.9
164	12.2	2.0	8.25	"	"	1100	-	197	10.1	2.5
127	15.4	1.6	10.67	"	"	1250	-	152	12.8	1.95
100	18.6	1.35	13.50	"	"	1250	-	120	15.5	1.6
75	23.5	1.05	18.00	"	"	1250	-	90	19.6	1.3
62	26.5	0.94	22.00	"	"	1250	-	74	22.5	1.1
50	30	0.83	27.00	"	"	1250	-	60	25	1.0
100	18.6	3.0	13.50	BS03-../D05LA4	5.4	1600	-	120	15.5	3.5
72	25	2.2	19.00	"	"	1950	-	86	21	2.6
54	30.5	1.8	25.00	"	"	1950	-	65	25	2.2
41	35.5	1.55	33.00	"	"	1950	-	49.5	29	1.9
35	43.5	1.25	39.00	"	"	1950	-	42	36	1.55
27	51	1.1	50.00	"	"	1950	-	32.5	42.5	1.3
22	57	0.84	62.00	"	"	1950	-	26.5	47.5	1.0
225	8.2	3.2	6.13	BS04-../D05LA4	5.8	1320	-	265	7.0	3.7
152	12.2	2.5	8.93	"	"	1500	-	182	10.2	2.9
126	14.7	2.2	10.73	"	"	1600	-	151	12.3	2.6
104	17.6	1.9	13.09	"	"	1760	-	124	14.8	2.2
83	22	1.6	16.31	"	"	1970	-	100	18.3	1.9
65	27.5	1.35	20.96	"	"	2100	-	78	23	1.6
56	32	1.05	24.25	"	"	2250	-	67	27	1.25
52	32.5	1.15	26.21	"	"	2250	-	62	27	1.4
43	38.5	0.99	31.50	"	"	2250	-	52	32	1.2
35.5	46	0.8	38.42	"	"	2250	-	42.5	38.5	0.96
82	23	3.1	16.56	BS06-../D05LA4	10	2400	-	98	19.4	3.7
69	27.5	2.7	19.82	"	"	2500	-	82	23	3.3
56	34	2.3	24.25	"	"	2600	-	67	28.5	2.7
52	33.5	2.3	26.21	"	"	3000	-	62	28	2.8
43	40.5	2.0	31.50	"	"	3200	-	52	33.5	2.4
33	52	1.65	41.29	"	"	3500	-	39.5	43.5	2.0
28	61	1.45	48.60	"	"	3500	-	33.5	51	1.75
23.5	72	1.25	58.15	"	"	3500	-	28	60	1.5
21.5	75	1.05	64.06	"	"	3500	-	25.5	63	1.25
19	89	1.05	71.18	"	"	3500	-	23	73	1.3
18	88	0.97	77.00	"	"	3500	-	21.5	74	1.15
15	111	0.88	90.00	"	"	3500	-	18	92	1.05
13.5	122	0.82	103.1	"	"	3500	-	16	102	0.98
40.5	44.5	3.0	33.55	BS10-../D06LA4	23	3550	-	48.5	37	3.6
34	52	2.7	39.96	"	"	3800	-	41	43.5	3.2
28.5	62	2.3	47.59	"	"	4050	-	34.5	51	2.8
24	73	2.1	57.12	"	"	4350	-	28.5	61	2.5
22.5	71	2.1	60.74	"	"	4550	-	27	59	2.5
19	92	1.75	71.96	"	"	5000	-	23	76	2.1
16.5	107	1.4	84.36	"	"	5300	-	19.5	90	1.65
13.5	113	1.4	103.4	"	"	5600	-	16	95	1.7
10.5	145	1.15	130.3	"	"	6000	-	12.5	122	1.35
8.9	171	0.96	152.7	"	"	6000	-	11	138	1.2
7.2	210	0.81	188.6	"	"	6000	-	8.6	177	0.96
19.5	91	3.3	70.30	BS20-../D06LA4	34	6300	-	23.5	76	3.9
18	87	3.1	76.18	"	"	6600	-	21.5	73	3.7
15.5	101	2.7	88.67	"	"	7000	-	18.5	85	3.2
13	121	2.2	106.3	"	"	7600	-	15.5	101	2.7
11	143	1.9	127.3	"	"	8000	-	13	121	2.2
8.5	185	1.5	159.4	"	"	8000	-	10.5	150	1.85
7.4	210	1.35	183.0	"	"	8000	-	8.9	177	1.6
6.0	250	1.15	225.6	"	"	8000	-	7.2	210	1.4
5.3	285	1.05	257.8	BS20Z-../D06LA4	35	8000	-	6.3	240	1.25
4.5	330	0.91	300.1	"	"	8000	-	5.4	275	1.1
3.8	385	0.83	359.9	"	"	8000	-	4.6	320	1.0

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

**P = 0.25 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.0	177	3.1	151.1	BS30-../D06LA4	51	9500	-	11	145	3.7
7.3	215	2.5	186.7	"	"	10000	-	8.7	181	3.0
6.3	250	2.1	216.4	"	"	10000	-	7.5	210	2.5
5.2	300	1.85	261.6	BS30Z-../D06LA4	54	10000	-	6.2	250	2.2
4.5	340	1.7	306.6	"	"	10000	-	5.3	290	2.0
3.8	460	0.86	359.6	"	"	10000	-	4.6	380	1.05
3.5	440	1.35	390.2	"	"	10000	-	4.2	365	1.6
3.0	500	1.2	457.3	"	"	10000	-	3.6	420	1.45
2.6	580	1.05	539.3	"	"	10000	-	3.1	490	1.2
2.1	680	0.85	651.0	"	"	10000	-	2.5	570	1.0
6.9	255	2.7	197.1	BS40Z-../D06LA4	68	15000	-	8.3	210	3.3
5.5	270	3.3	249.6	"	"	15000	-	6.5	230	3.9
4.7	375	1.9	287.7	"	"	15000	-	5.7	305	2.3
4.5	330	3.2	302.1	"	"	15000	-	5.4	275	3.9
3.8	395	2.7	356.8	"	"	15000	-	4.6	325	3.3
3.1	485	2.0	446.8	"	"	15000	-	3.7	405	2.4
2.6	570	1.95	520.8	"	"	15000	-	3.2	470	2.3
2.3	630	1.45	612.1	"	"	15000	-	2.7	530	1.7
1.9	750	1.0	736.5	"	"	15000	-	2.2	650	1.15
1.5	930	0.8	908.2	"	"	15000	-	1.8	780	0.95

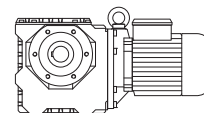
**P = 0.3 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	8.5	1.75	4.60	BS02-../D07LA4	9.3	1000	-	355	7.1	2.1
250	10	2.0	5.40	"	"	1000	-	300	8.4	2.4
200	12.3	2.0	6.75	"	"	1000	-	240	10.2	2.5
164	14.6	1.7	8.25	"	"	1100	-	197	12.2	2.0
127	18.4	1.35	10.67	"	"	1250	-	152	15.4	1.6
100	22	1.15	13.50	"	"	1250	-	120	18.6	1.35
75	28	0.89	18.00	"	"	1250	-	90	23.5	1.05
100	22	2.5	13.50	BS03-../D07LA4	9.4	1600	-	120	18.6	3.0
72	30	1.85	19.00	"	"	1950	-	86	25	2.2
54	36.5	1.5	25.00	"	"	1950	-	65	30	1.85
41	42.5	1.3	33.00	"	"	1950	-	49.5	35	1.55
35	52	1.05	39.00	"	"	1950	-	42	43.5	1.25
27	61	0.9	50.00	"	"	1950	-	32.5	51	1.1
225	9.9	2.6	6.13	BS04-../D07LA4	9.8	1320	-	265	8.4	3.1
152	14.7	2.0	8.93	"	"	1500	-	182	12.2	2.5
126	17.7	1.8	10.73	"	"	1600	-	151	14.7	2.2
104	21	1.55	13.09	"	"	1760	-	124	17.7	1.85
83	26.5	1.3	16.31	"	"	1970	-	100	22	1.6
65	33	1.1	20.96	"	"	2100	-	78	27.5	1.35
56	38.5	0.88	24.25	"	"	2250	-	67	32	1.05
52	39	0.97	26.21	"	"	2250	-	62	32.5	1.15
43	46.5	0.82	31.50	"	"	2250	-	52	38.5	0.99
96	24	2.8	14.07	BS06-../D07LA4	14	2200	-	116	20	3.4
82	27.5	2.6	16.56	"	"	2400	-	98	23	3.1
69	33	2.3	19.82	"	"	2500	-	82	27.5	2.7
56	40.5	1.9	24.25	"	"	2600	-	67	34	2.3
52	40	1.95	26.21	"	"	3000	-	62	33.5	2.3
43	48.5	1.65	31.50	"	"	3200	-	52	40	2.0
33	62	1.4	41.29	"	"	3500	-	39.5	52	1.65
28	73	1.2	48.60	"	"	3500	-	33.5	61	1.45
23.5	86	1.05	58.15	"	"	3500	-	28	72	1.25
21.5	90	0.89	64.06	"	"	3500	-	25.5	76	1.05
19	107	0.88	71.18	"	"	3500	-	23	88	1.05
18	106	0.8	77.00	"	"	3500	-	21.5	89	0.96

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

P = 0.3 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
52	42.5	3.1	26.42	BS10-../D07LA4	26	3250	-	62	36	3.6
40.5	53	2.5	33.55	"	"	3550	-	48.5	44.5	3.0
34	63	2.2	39.96	"	"	3800	-	41	52	2.7
28.5	75	1.95	47.59	"	"	4050	-	34.5	62	2.3
24	88	1.7	57.12	"	"	4350	-	28.5	74	2.0
22.5	85	1.75	60.74	"	"	4550	-	27	71	2.1
19	111	1.45	71.96	"	"	5000	-	23	92	1.75
16.5	128	1.15	84.36	"	"	5300	-	19.5	108	1.4
13.5	135	1.2	103.4	"	"	5600	-	16	114	1.4
10.5	174	0.94	130.3	"	"	6000	-	12.5	146	1.1
8.9	205	0.8	152.7	"	"	6000	-	11	166	0.99
23	93	3.0	58.74	BS20-../D07LA4	36	5900	-	28	76	3.7
19.5	110	2.7	70.30	"	"	6300	-	23.5	91	3.3
18	105	2.6	76.18	"	"	6600	-	21.5	87	3.1
15.5	121	2.2	88.67	"	"	7000	-	18.5	102	2.6
13	145	1.85	106.3	"	"	7600	-	15.5	121	2.2
11	171	1.6	127.3	"	"	8000	-	13	145	1.85
8.5	220	1.25	159.4	"	"	8000	-	10.5	180	1.55
7.4	255	1.1	183.0	"	"	8000	-	8.9	210	1.35
6.0	305	0.95	225.6	"	"	8000	-	7.2	250	1.15
5.3	345	0.86	257.8	BS20Z-../D07LA4	38	8000	-	6.3	290	1.0
16.5	133	3.1	83.48	BS30-../D07LA4	54	6800	-	19.5	113	3.6
11	177	2.9	125.2	"	"	8700	-	13	149	3.5
9.0	210	2.6	151.1	"	"	9500	-	11	174	3.1
7.3	255	2.1	186.7	"	"	10000	-	8.7	215	2.5
6.3	300	1.75	216.4	"	"	10000	-	7.5	250	2.1
5.2	360	1.55	261.6	BS30Z-../D07LA4	56	10000	-	6.2	300	1.85
4.5	410	1.4	306.6	"	"	10000	-	5.3	350	1.65
3.5	530	1.1	390.2	"	"	10000	-	4.2	440	1.35
3.0	610	0.98	457.3	"	"	10000	-	3.6	500	1.2
2.6	700	0.86	539.3	"	"	10000	-	3.1	590	1.0
6.9	305	2.3	197.1	BS40Z-../D07LA4	70	15000	-	8.3	255	2.7
5.5	325	2.8	249.6	"	"	15000	-	6.5	275	3.3
4.7	450	1.6	287.7	"	"	15000	-	5.7	370	1.95
4.5	400	2.7	302.1	"	"	15000	-	5.4	330	3.2
3.8	470	2.3	356.8	"	"	15000	-	4.6	390	2.8
3.1	580	1.7	446.8	"	"	15000	-	3.7	485	2.0
2.6	690	1.6	520.8	"	"	15000	-	3.2	560	1.95
2.3	750	1.2	612.1	"	"	15000	-	2.7	640	1.4
1.9	900	0.84	736.5	"	"	15000	-	2.2	780	0.97

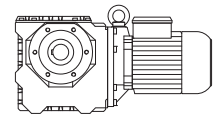
P = 0.37 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	10.5	1.45	4.60	BS02-../D07LA4	9.3	1000	-	355	8.7	1.7
250	12.4	1.6	5.40	"	"	1000	-	300	10.3	1.95
200	15.1	1.65	6.75	"	"	1000	-	240	12.6	2.0
164	18	1.4	8.25	"	"	1100	-	197	15	1.65
127	22.5	1.1	10.67	"	"	1250	-	152	19	1.3
100	27.5	0.91	13.50	"	"	1250	-	120	22.5	1.1
100	27.5	2.0	13.50	BS03-../D07LA4	9.4	1600	-	120	22.5	2.4
72	37	1.5	19.00	"	"	1950	-	86	31	1.75
54	45	1.2	25.00	"	"	1950	-	65	37.5	1.45
41	52	1.05	33.00	"	"	1950	-	49.5	43.5	1.25
35	64	0.86	39.00	"	"	1950	-	42	53	1.05
225	12.2	2.1	6.13	BS04-../D07LA4	9.8	1320	-	265	10.4	2.5
152	18.1	1.65	8.93	"	"	1500	-	182	15.1	2.0
126	21.5	1.5	10.73	"	"	1600	-	151	18.2	1.75

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

P = 0.37 kW

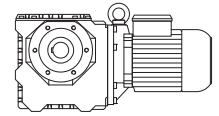


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
104	26	1.25	13.09	<b>BS04-../D07LA4</b>	"	1760	-	124	21.5	1.55
83	32.5	1.1	16.31	"	"	1970	-	100	27	1.3
65	41	0.9	20.96	"	"	2100	-	78	34	1.1
152	18.8	3.3	8.93	<b>BS06-../D07LA4</b>	14	1710	-	182	15.7	3.9
126	22.5	2.9	10.73	"	"	1850	-	151	18.9	3.4
96	29.5	2.3	14.07	"	"	2200	-	116	24.5	2.8
82	34	2.1	16.56	"	"	2400	-	98	28.5	2.5
69	40.5	1.85	19.82	"	"	2500	-	82	34	2.2
56	50	1.55	24.25	"	"	2600	-	67	42	1.85
52	49.5	1.55	26.21	"	"	3000	-	62	41.5	1.85
43	59	1.35	31.50	"	"	3200	-	52	49.5	1.6
33	77	1.1	41.29	"	"	3500	-	39.5	64	1.35
28	90	0.98	48.60	"	"	3500	-	33.5	75	1.15
23.5	106	0.86	58.15	"	"	3500	-	28	89	1.0
63	44.5	2.8	21.61	<b>BS10-../D07LA4</b>	26	3000	-	75	37.5	3.3
52	53	2.5	26.42	"	"	3250	-	62	44	3.0
40.5	66	2.0	33.55	"	"	3550	-	48.5	55	2.5
34	77	1.8	39.96	"	"	3800	-	41	64	2.2
28.5	92	1.6	47.59	"	"	4050	-	34.5	76	1.9
24	108	1.4	57.12	"	"	4350	-	28.5	91	1.65
22.5	105	1.45	60.74	"	"	4550	-	27	87	1.7
19	137	1.15	71.96	"	"	5000	-	23	113	1.4
16.5	158	0.95	84.36	"	"	5300	-	19.5	134	1.1
13.5	167	0.96	103.4	"	"	5600	-	16	141	1.15
32.5	82	3.3	42.08	<b>BS20-../D07LA4</b>	36	5200	-	38.5	69	3.9
28	94	2.9	48.98	"	"	5500	-	33.5	79	3.4
27	87	3.1	50.44	"	"	5700	-	32.5	72	3.8
23	115	2.4	58.74	"	"	5900	-	28	94	3.0
19.5	135	2.2	70.30	"	"	6300	-	23.5	112	2.7
18	129	2.1	76.18	"	"	6600	-	21.5	108	2.5
15.5	150	1.8	88.67	"	"	7000	-	18.5	126	2.1
13	179	1.5	106.3	"	"	7600	-	15.5	150	1.8
11	210	1.3	127.3	"	"	8000	-	13	179	1.5
8.5	270	1.0	159.4	"	"	8000	-	10.5	220	1.25
7.4	315	0.89	183.0	"	"	8000	-	8.9	260	1.1
6.8	330	0.85	201.4	<b>BS20Z-../D07LA4</b>	38	8000	-	8.1	275	1.0
16.5	164	2.5	83.48	<b>BS30-../D07LA4</b>	54	6800	-	19.5	139	2.9
15	162	3.0	90.59	"	"	7700	-	18	135	3.6
13	184	2.8	106.2	"	"	8200	-	15.5	155	3.3
11	215	2.4	125.2	"	"	8700	-	13	184	2.8
9.0	260	2.1	151.1	"	"	9500	-	11	215	2.5
7.3	315	1.7	186.7	"	"	10000	-	8.7	265	2.0
6.3	370	1.4	216.4	"	"	10000	-	7.5	310	1.7
5.2	445	1.25	261.6	<b>BS30Z-../D07LA4</b>	56	10000	-	6.2	375	1.5
4.5	510	1.15	306.6	"	"	10000	-	5.3	430	1.35
3.5	650	0.91	390.2	"	"	10000	-	4.2	540	1.1
3.0	750	0.8	457.3	"	"	10000	-	3.6	620	0.97
6.9	375	1.85	197.1	<b>BS40Z-../D07LA4</b>	70	15000	-	8.3	315	2.2
5.5	400	2.3	249.6	"	"	15000	-	6.5	340	2.6
4.7	550	1.3	287.7	"	"	15000	-	5.7	455	1.55
4.5	490	2.2	302.1	"	"	15000	-	5.4	410	2.6
3.8	580	1.85	356.8	"	"	15000	-	4.6	480	2.3
3.1	710	1.4	446.8	"	"	15000	-	3.7	600	1.65
2.6	850	1.3	520.8	"	"	15000	-	3.2	690	1.6
2.3	930	0.98	612.1	"	"	15000	-	2.7	790	1.15

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

P = 0.55 kW

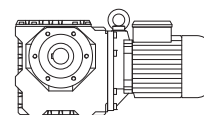


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
305	15.1	2.6	4.60	<b>BS03-../D08MA4</b>	10	1070	-	370	12.4	3.2
235	19.6	2.2	6.00	"	"	1170	-	280	16.5	2.7
175	25.5	1.9	8.00	"	"	1320	-	210	21.5	2.2
140	31.5	1.65	10.00	"	"	1450	-	168	26	2.0
104	39	1.4	13.50	"	"	1600	-	125	32.5	1.7
74	53	1.05	19.00	"	"	1950	-	89	44.5	1.25
56	64	0.86	25.00	"	"	1950	-	68	53	1.05
210	20	2.8	6.67	<b>BS06-../D08MA4</b>	16	1550	-	255	16.6	3.4
157	27	2.3	8.93	"	"	1710	-	189	22.5	2.8
131	32	2.0	10.73	"	"	1850	-	157	27	2.4
100	42.5	1.6	14.07	"	"	2200	-	120	35	1.95
85	49	1.45	16.56	"	"	2400	-	102	41	1.75
71	59	1.25	19.82	"	"	2500	-	85	49	1.55
58	72	1.05	24.25	"	"	2600	-	70	60	1.3
54	71	1.1	26.21	"	"	3000	-	65	58	1.35
44.5	86	0.93	31.50	"	"	3200	-	54	71	1.15
113	37	2.9	12.49	<b>BS10-../D08MA4</b>	27	2400	-	135	31	3.5
83	50	2.4	16.92	"	"	2700	-	100	42	2.9
65	64	1.95	21.61	"	"	3000	-	78	53	2.4
53	77	1.7	26.42	"	"	3250	-	64	64	2.0
46	78	1.65	30.63	"	"	3550	-	55	65	2.0
42	95	1.4	33.55	"	"	3550	-	51	78	1.75
35.5	110	1.25	39.96	"	"	3800	-	42.5	92	1.5
29.5	133	1.1	47.59	"	"	4050	-	35.5	110	1.3
25	155	0.97	57.12	"	"	4350	-	29.5	131	1.15
23.5	149	1.0	60.74	"	"	4550	-	28	125	1.2
19.5	199	0.8	71.96	"	"	5000	-	23.5	165	0.97
51	80	3.1	27.86	<b>BS20-../D08MA4</b>	37	4450	-	61	67	3.7
46	82	3.0	30.63	"	"	4750	-	55	68	3.7
43	94	2.9	32.87	"	"	4750	-	52	77	3.5
35	108	2.4	40.25	"	"	5300	-	42	90	2.9
33.5	119	2.3	42.08	"	"	5200	-	40	99	2.7
29	135	2.0	48.98	"	"	5500	-	34.5	114	2.4
28	125	2.2	50.44	"	"	5700	-	33.5	105	2.6
24	164	1.7	58.74	"	"	5900	-	29	135	2.1
20	196	1.55	70.30	"	"	6300	-	24	164	1.85
18.5	187	1.45	76.18	"	"	6600	-	22.5	154	1.75
16	215	1.25	88.67	"	"	7000	-	19	182	1.5
13.5	255	1.05	106.3	"	"	7600	-	16	215	1.25
11	315	0.86	127.3	"	"	8000	-	13.5	255	1.05
28	144	3.1	50.04	<b>BS30-../D08MA4</b>	55	5900	-	34	118	3.8
24	168	2.7	58.64	"	"	6900	-	29	139	3.3
20	183	2.6	71.17	"	"	7000	-	24	153	3.1
17	235	1.75	83.48	"	"	6800	-	20.5	197	2.1
15.5	230	2.1	90.59	"	"	7700	-	19	190	2.6
13.5	260	1.95	106.2	"	"	8200	-	16	220	2.3
11.5	310	1.7	125.2	"	"	8700	-	13.5	260	2.0
9.3	375	1.45	151.1	"	"	9500	-	11.5	305	1.75
7.5	460	1.2	186.7	"	"	10000	-	9.0	385	1.4
6.5	530	0.98	216.4	"	"	10000	-	7.8	440	1.2
5.4	640	0.88	261.6	<b>BS30Z-../D08MA4</b>	58	10000	-	6.5	530	1.05
11.5	305	3.2	126.0	<b>BS40-../D08MA4</b>	68	14900	-	13.5	260	3.8
9.5	355	2.7	148.1	"	"	15000	-	11.5	295	3.3
7.9	430	1.9	178.2	"	"	15000	-	9.5	355	2.3
6.4	510	1.55	219.7	"	"	15000	-	7.7	425	1.85
5.7	580	1.55	249.6	<b>BS40Z-../D08MA4</b>	71	15000	-	6.8	485	1.85
4.9	790	0.91	287.7	"	"	15000	-	5.9	650	1.1
4.7	700	1.55	302.1	"	"	15000	-	5.6	590	1.8
4.0	820	1.3	356.8	"	"	15000	-	4.8	680	1.6
3.2	1030	0.96	446.8	"	"	15000	-	3.8	870	1.15
2.7	1220	0.9	520.8	"	"	15000	-	3.3	1000	1.1

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

P = 0.75 kW



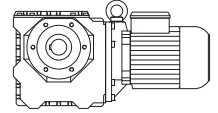
50 Hz			i	Typ	m kg	F <sub>RN</sub> N	F <sub>RV</sub> N	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
305	20.5	1.95	4.60	BS03-../DSE08LA4	12	1070	-	370	17	2.4
235	26.5	1.65	6.00	"	"	1170	-	280	22.5	1.95
175	35	1.35	8.00	"	"	1320	-	210	29	1.65
140	42.5	1.2	10.00	"	"	1450	-	168	35.5	1.45
104	53	1.05	13.50	"	"	1600	-	125	44.5	1.25
210	27.5	2.0	6.67	BS06-../DSE08LA4	17	1550	-	255	22.5	2.5
157	36.5	1.7	8.93	"	"	1710	-	189	30.5	2.0
131	44	1.5	10.73	"	"	1850	-	157	36.5	1.8
100	58	1.15	14.07	"	"	2200	-	120	48	1.4
85	67	1.05	16.56	"	"	2400	-	102	56	1.3
71	80	0.94	19.82	"	"	2500	-	85	67	1.1
54	96	0.8	26.21	"	"	3000	-	65	80	0.96
113	50	2.2	12.49	BS10-../DSE08LA4	28	2400	-	135	42	2.6
83	69	1.75	16.92	"	"	2700	-	100	57	2.1
65	88	1.4	21.61	"	"	3000	-	78	73	1.7
53	105	1.25	26.42	"	"	3250	-	64	87	1.5
46	107	1.2	30.63	"	"	3550	-	55	89	1.45
42	129	1.05	33.55	"	"	3550	-	51	106	1.25
35.5	151	0.93	39.96	"	"	3800	-	42.5	126	1.1
29.5	182	0.8	47.59	"	"	4050	-	35.5	151	0.96
83	69	3.2	16.92	BS20-../DSE08LA4	39	3700	-	100	58	3.8
63	92	2.5	22.23	"	"	4100	-	76	76	3.0
51	109	2.3	27.86	"	"	4450	-	61	91	2.7
46	112	2.2	30.63	"	"	4750	-	55	93	2.7
43	128	2.1	32.87	"	"	4750	-	52	106	2.5
35	147	1.75	40.25	"	"	5300	-	42	122	2.1
33.5	162	1.65	42.08	"	"	5200	-	40	136	2.0
29	185	1.45	48.98	"	"	5500	-	34.5	155	1.75
28	171	1.6	50.44	"	"	5700	-	33.5	143	1.9
24	220	1.25	58.74	"	"	5900	-	29	185	1.5
20	265	1.15	70.30	"	"	6300	-	24	220	1.35
18.5	255	1.05	76.18	"	"	6600	-	22.5	210	1.3
16	295	0.92	88.67	"	"	7000	-	19	245	1.1
42	139	3.0	33.55	BS30-../DSE08LA4	56	5200	-	51	115	3.7
37	145	2.9	37.92	"	"	5500	-	44.5	120	3.5
36	161	2.7	39.31	"	"	5500	-	43	134	3.2
28	196	2.3	50.04	"	"	5900	-	34	162	2.8
24	225	2.0	58.64	"	"	6900	-	29	190	2.4
20	250	1.9	71.17	"	"	7000	-	24	205	2.3
17	320	1.3	83.48	"	"	6800	-	20.5	265	1.55
15.5	315	1.55	90.59	"	"	7700	-	19	260	1.9
13.5	360	1.4	106.2	"	"	8200	-	16	300	1.7
11.5	420	1.25	125.2	"	"	8700	-	13.5	360	1.45
9.3	510	1.05	151.1	"	"	9500	-	11.5	415	1.3
7.5	630	0.86	186.7	"	"	10000	-	9.0	520	1.05
20.5	265	2.8	69.60	BS40-../DSE08LA4	69	11800	-	24.5	225	3.3
16.5	295	3.1	86.33	"	"	12900	-	19.5	250	3.6
13	365	2.6	108.1	"	"	14000	-	16	295	3.2
11.5	415	2.4	126.0	"	"	14900	-	13.5	355	2.8
9.5	490	2.0	148.1	"	"	15000	-	11.5	400	2.4
7.9	580	1.4	178.2	"	"	15000	-	9.5	490	1.65
6.4	700	1.15	219.7	"	"	15000	-	7.7	580	1.35
5.7	790	1.15	249.6	BS40Z-../DSE08LA4	73	15000	-	6.8	660	1.35
4.7	960	1.1	302.1	"	"	15000	-	5.6	800	1.35
4.0	1120	0.96	356.8	"	"	15000	-	4.8	940	1.15



# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

P = 1.1 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
305	30	1.35	4.60	BS03-../DSE08XA4	13	1070	-	370	24.5	1.65
235	39	1.15	6.00	"	"	1170	-	280	33	1.35
175	51	0.94	8.00	"	"	1320	-	210	43	1.1
140	63	0.83	10.00	"	"	1450	-	168	52	1.0
210	40.5	1.4	6.67	BS06-../DSE08XA4	18	1550	-	255	33	1.7
157	54	1.15	8.93	"	"	1710	-	189	45	1.4
131	64	1.0	10.73	"	"	1850	-	157	54	1.2
100	85	0.8	14.07	"	"	2200	-	120	70	0.97
113	74	1.45	12.49	BS10-../DSE08XA4	30	2400	-	135	62	1.75
83	101	1.2	16.92	"	"	2700	-	100	84	1.45
65	129	0.97	21.61	"	"	3000	-	78	107	1.15
53	154	0.84	26.42	"	"	3250	-	64	128	1.0
46	157	0.83	30.63	"	"	3550	-	55	131	0.99
110	77	2.6	12.77	BS20-../DSE08XA4	40	3350	-	132	64	3.1
83	102	2.2	16.92	"	"	3700	-	100	85	2.6
63	135	1.7	22.23	"	"	4100	-	76	111	2.1
51	160	1.55	27.86	"	"	4450	-	61	134	1.85
46	164	1.5	30.63	"	"	4750	-	55	137	1.8
43	188	1.45	32.87	"	"	4750	-	52	155	1.75
35	215	1.2	40.25	"	"	5300	-	42	180	1.45
33.5	235	1.15	42.08	"	"	5200	-	40	199	1.35
29	270	1.0	48.98	"	"	5500	-	34.5	225	1.2
28	250	1.1	50.44	"	"	5700	-	33.5	210	1.3
24	325	0.86	58.74	"	"	5900	-	29	270	1.05
67	130	2.9	20.94	BS30-../DSE08XA4	57	4300	-	81	107	3.6
52	167	2.4	27.07	"	"	4750	-	63	138	2.9
46	171	2.3	30.63	"	"	5000	-	55	143	2.8
42	205	2.0	33.55	"	"	5200	-	51	168	2.5
37	210	2.0	37.92	"	"	5500	-	44.5	177	2.4
36	235	1.85	39.31	"	"	5500	-	43	197	2.2
28	285	1.6	50.04	"	"	5900	-	34	235	1.9
24	335	1.35	58.64	"	"	6900	-	29	275	1.65
20	365	1.3	71.17	"	"	7000	-	24	305	1.55
17	475	0.86	83.48	"	"	6800	-	20.5	390	1.05
15.5	465	1.05	90.59	"	"	7700	-	19	380	1.3
13.5	520	0.98	106.2	"	"	8200	-	16	445	1.15
11.5	620	0.84	125.2	"	"	8700	-	13.5	520	1.0
29.5	275	3.0	47.69	BS40-../DSE08XA4	70	9600	-	35.5	230	3.6
23.5	315	2.7	60.38	"	"	11200	-	28	265	3.2
20.5	390	1.9	69.60	"	"	11800	-	24.5	330	2.3
19.5	375	2.3	73.09	"	"	12100	-	23	315	2.8
16.5	435	2.1	86.33	"	"	12900	-	19.5	370	2.4
13	540	1.75	108.1	"	"	14000	-	16	435	2.2
11.5	610	1.6	126.0	"	"	14900	-	13.5	520	1.9
9.5	710	1.35	148.1	"	"	15000	-	11.5	590	1.65
7.9	860	0.95	178.2	"	"	15000	-	9.5	710	1.15

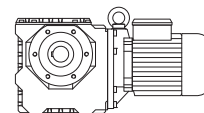
P = 1.5 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
114	100	1.1	12.49	BS10-../DSE09LA4	36	2400	-	137	83	1.3
84	136	0.88	16.92	"	"	2700	-	102	112	1.05
112	103	1.95	12.77	BS20-../DSE09LA4	46	3350	-	134	86	2.3
84	138	1.6	16.92	"	"	3700	-	102	113	1.95
64	181	1.25	22.23	"	"	4100	-	77	150	1.55
51	215	1.15	27.86	"	"	4450	-	62	180	1.4
46.5	220	1.15	30.63	"	"	4750	-	56	184	1.35
43.5	250	1.1	32.87	"	"	4750	-	53	205	1.3

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

P = 1.5 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
35.5	290	0.9	40.25	BS20-../DSE09LA4	"	5300	-	42.5	240	1.1
34	320	0.84	42.08	"	"	5200	-	41	265	1.0
28.5	335	0.81	50.44	"	"	5700	-	34	280	0.96
107	111	3.0	13.29	BS30-../DSE09LA4	64	3600	-	129	92	3.6
84	141	2.6	16.92	"	"	3950	-	102	116	3.1
68	174	2.2	20.94	"	"	4300	-	82	144	2.6
53	220	1.8	27.07	"	"	4750	-	64	185	2.2
46.5	230	1.75	30.63	"	"	5000	-	56	191	2.1
42.5	275	1.55	33.55	"	"	5200	-	51	230	1.85
37.5	285	1.45	37.92	"	"	5500	-	45.5	235	1.8
36.5	315	1.35	39.31	"	"	5500	-	44	260	1.65
28.5	385	1.15	50.04	"	"	5900	-	34.5	315	1.45
24.5	450	1.0	58.64	"	"	6900	-	29.5	370	1.25
20	500	0.96	71.17	"	"	7000	-	24.5	405	1.2
16	610	0.8	90.59	"	"	7700	-	19	520	0.94
46.5	225	3.3	30.63	BS40-../DSE09LA4	77	8700	-	56	189	4.0
43	265	2.9	33.35	"	"	8300	-	52	220	3.5
37.5	275	2.8	38.13	"	"	9400	-	45	230	3.4
35.5	315	2.5	40.37	"	"	9000	-	42.5	265	3.0
30	370	2.2	47.69	"	"	9600	-	36	310	2.7
24	420	2.0	60.38	"	"	11200	-	28.5	355	2.4
20.5	530	1.4	69.60	"	"	11800	-	25	440	1.7
19.5	510	1.75	73.09	"	"	12100	-	23.5	425	2.1
16.5	590	1.55	86.33	"	"	12900	-	20	490	1.85
13.5	710	1.35	108.1	"	"	14000	-	16	590	1.6
11.5	830	1.2	126.0	"	"	14900	-	14	680	1.45
9.6	960	1.0	148.1	"	"	15000	-	12	770	1.25

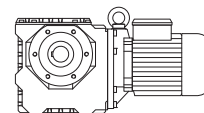
P = 2.2 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
112	151	1.3	12.77	BS20-../DSE09XA4	50	3350	-	134	127	1.55
84	200	1.1	16.92	"	"	3700	-	102	166	1.35
64	265	0.87	22.23	"	"	4100	-	77	220	1.05
107	162	2.0	13.29	BS30-../DSE09XA4	68	3600	-	129	135	2.5
84	205	1.75	16.92	"	"	3950	-	102	170	2.1
68	255	1.5	20.94	"	"	4300	-	82	210	1.8
53	325	1.25	27.07	"	"	4750	-	64	270	1.5
46.5	335	1.2	30.63	"	"	5000	-	56	280	1.45
42.5	405	1.05	33.55	"	"	5200	-	51	335	1.25
37.5	420	1.0	37.92	"	"	5500	-	45.5	345	1.2
36.5	465	0.92	39.31	"	"	5500	-	44	385	1.1
28.5	560	0.8	50.04	"	"	5900	-	34.5	465	0.97
84	210	3.2	16.92	BS40-../DSE09XA4	81	6400	-	102	175	3.8
68	250	2.8	21.06	"	"	6900	-	82	210	3.4
55	310	2.4	26.18	"	"	7500	-	66	260	2.8
46.5	330	2.3	30.63	"	"	8700	-	56	275	2.7
43	390	2.0	33.35	"	"	8300	-	52	320	2.4
37.5	405	1.95	38.13	"	"	9400	-	45	340	2.3
35.5	465	1.7	40.37	"	"	9000	-	42.5	390	2.1
30	540	1.55	47.69	"	"	9600	-	36	455	1.8
24	620	1.4	60.38	"	"	11200	-	28.5	520	1.65
20.5	780	0.95	69.60	"	"	11800	-	25	640	1.15
19.5	750	1.15	73.09	"	"	12100	-	23.5	620	1.4
16.5	870	1.05	86.33	"	"	12900	-	20	720	1.25
13.5	1040	0.91	108.1	"	"	14000	-	16	870	1.1
11.5	1220	0.8	126.0	"	"	14900	-	14	1000	0.98

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DSE - IE1

**P = 3 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
107	220	1.5	13.29	BS30-../DSE11SA4	71	3600	-	129	184	1.8
84	280	1.3	16.92	"	"	3950	-	102	230	1.55
68	345	1.1	20.94	"	"	4300	-	82	285	1.35
53	445	0.9	27.07	"	"	4750	-	64	370	1.1
46.5	460	0.87	30.63	"	"	5000	-	56	380	1.05
109	220	2.8	13.03	BS40-../DSE11SA4	89	5800	-	132	184	3.3
84	285	2.4	16.92	"	"	6400	-	102	235	2.9
68	345	2.1	21.06	"	"	6900	-	82	285	2.5
55	425	1.75	26.18	"	"	7500	-	66	355	2.1
46.5	455	1.65	30.63	"	"	8700	-	56	375	2.0
43	530	1.45	33.35	"	"	8300	-	52	440	1.75
37.5	550	1.4	38.13	"	"	9400	-	45	460	1.7
35.5	630	1.25	40.37	"	"	9000	-	42.5	530	1.5
30	740	1.1	47.69	"	"	9600	-	36	620	1.35
24	840	1.0	60.38	"	"	11200	-	28.5	710	1.2
19.5	1020	0.86	73.09	"	"	12100	-	23.5	850	1.05

**P = 4 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
107	295	1.15	13.29	BS30-../DSE11MA4	77	3600	-	129	245	1.35
84	375	0.96	16.92	"	"	3950	-	102	310	1.15
68	465	0.82	20.94	"	"	4300	-	82	385	0.99
109	295	2.1	13.03	BS40-../DSE11MA4	95	5800	-	132	245	2.5
84	385	1.75	16.92	"	"	6400	-	102	315	2.1
68	460	1.55	21.06	"	"	6900	-	82	380	1.85
55	560	1.3	26.18	"	"	7500	-	66	470	1.55
46.5	600	1.25	30.63	"	"	8700	-	56	500	1.5
43	710	1.1	33.35	"	"	8300	-	52	580	1.35
37.5	740	1.05	38.13	"	"	9400	-	45	610	1.3
35.5	850	0.94	40.37	"	"	9000	-	42.5	710	1.15
30	990	0.84	47.69	"	"	9600	-	36	820	1.0

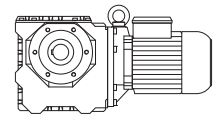
**P = 5.5 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
107	405	0.82	13.29	BS30-../DSE11LA4	89	3600	-	129	335	0.99
109	405	1.5	13.03	BS40-../DSE11LA4	107	5800	-	132	335	1.85
84	530	1.25	16.92	"	"	6400	-	102	435	1.55
68	630	1.15	21.06	"	"	6900	-	82	520	1.35
55	780	0.95	26.18	"	"	7500	-	66	650	1.15
46.5	830	0.9	30.63	"	"	8700	-	56	690	1.1
43	970	0.8	33.35	"	"	8300	-	52	800	0.98

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

P = 0.03 kW

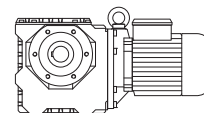


50 Hz			i	Typ	m kg	F <sub>RN</sub> N	F <sub>RV</sub> N	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
75	2.8	8.9	18.00	BS02-../D04LA4	3.5	1250	-	90	2.35	11
62	3.2	7.8	22.00	"	"	1250	-	74	2.7	9.3
50	3.6	6.9	27.00	"	"	1250	-	60	3.0	8.3
41	4.15	6.0	33.00	"	"	1250	-	49.5	3.45	7.2
31.5	5.6	4.3	43.00	"	"	1250	-	38	4.65	5.2
25	6.5	3.4	54.00	"	"	1250	-	30	5.4	4.1
19.5	7.4	2.7	70.00	"	"	1250	-	23.5	6.2	3.2
14.5	11.6	3.3	93.92	BS04-../D04LA4	3.9	2250	-	17.5	9.6	4.0
13.5	13.5	2.8	102.9	"	"	2250	-	16	11.4	3.3
12	13.6	2.8	117.0	"	"	2250	-	14	11.6	3.3
11	16.4	2.5	123.0	"	"	2250	-	13.5	13.3	3.1
9.8	18.1	2.3	138.4	"	"	2250	-	12	14.8	2.8
9.0	17.5	2.2	150.3	"	"	2250	-	11	14.3	2.7
8.5	20.5	1.8	160.1	"	"	2250	-	10.5	16.6	2.2
7.8	19.8	2.0	174.0	"	"	2250	-	9.4	16.4	2.4
6.2	24	1.65	220.0	"	"	2250	-	7.4	20.5	1.95
5.4	27.5	1.5	251.6	"	"	2250	-	6.5	22.5	1.8
4.5	32	1.35	300.7	"	"	2250	-	5.4	27	1.6
4.0	35.5	1.25	338.3	"	"	2250	-	4.8	29.5	1.5
3.5	40	1.15	391.3	"	"	2250	-	4.2	33	1.35
5.4	30.5	3.2	252.0	BS06-../D04LA4	8.4	3500	-	6.5	25.5	3.9
4.3	37.5	2.8	315.3	"	"	3500	-	5.2	31	3.4
3.8	42	2.6	358.9	"	"	3500	-	4.6	34.5	3.2
3.3	47.5	2.3	418.0	"	"	3500	-	3.9	40	2.8
2.9	70	1.35	474.8	BS06G04-../D04LA4	11	3500	-	3.5	58	1.6
2.5	79	1.25	552.6	"	"	3500	-	3.0	65	1.55
2.3	88	1.05	610.7	"	"	3500	-	2.7	75	1.25
2.0	101	0.93	704.7	"	"	3500	-	2.3	88	1.05
1.6	94*	1.0	847.0	"	"	3500	-	2.0	94	1.0
1.5	94*	1.0	939.6	"	"	3500	-	1.8	94	1.0
1.2	94*	1.0	1170	"	"	3500	-	1.4	94	1.0
0.9	94*	1.0	1503	"	"	3500	-	1.1	94	1.0
0.85	94*	1.0	1654	"	"	3500	-	1.0	94	1.0
0.75	94*	1.0	1914	"	"	3500	-	0.85	94	1.0
0.65	94*	1.0	2200	"	"	3500	-	0.75	94	1.0
0.49	94*	1.0	2768	"	"	3500	-	0.6	94	1.0
0.45	94*	1.0	3007	"	"	3500	-	0.55	94	1.0
0.41	94*	1.0	3308	"	"	3500	-	0.49	94	1.0
0.37	94*	1.0	3721	"	"	3500	-	0.44	94	1.0
0.32	94*	1.0	4304	"	"	3500	-	0.38	94	1.0
0.28	98*	1.0	4947	"	"	3500	-	0.33	98	1.0
0.25	98*	1.0	5442	"	"	3500	-	0.3	98	1.0
0.22	100*	1.0	6234	"	"	3500	-	0.26	100	1.0
2.5	67	2.8	544.8	BS10Z-../D04LA4	21	6000	-	3.0	56	3.4
2.2	72	2.6	638.7	"	"	6000	-	2.6	61	3.1
1.8	85	2.1	788.7	"	"	6000	-	2.1	73	2.5
1.5	101	1.55	905.6	"	"	6000	-	1.8	84	1.9
1.4	130	1.25	969.9	BS10G06-../D04LA4	25	6000	-	1.7	107	1.5
1.2	152	1.05	1166	"	"	6000	-	1.4	130	1.25
1.1	166	0.96	1342	"	"	6000	-	1.3	141	1.15
0.9	160*	1.0	1528	"	"	6000	-	1.1	160	1.0
0.85	160*	1.0	1668	"	"	6000	-	1.0	160	1.0
0.7	160*	1.0	1963	"	"	6000	-	0.85	160	1.0
0.6	160*	1.0	2348	"	"	6000	-	0.7	160	1.0
0.55	160*	1.0	2635	"	"	6000	-	0.65	160	1.0
0.47	160*	1.0	2875	"	"	6000	-	0.6	160	1.0
0.41	160*	1.0	3332	"	"	6000	-	0.49	160	1.0
0.38	160*	1.0	3635	"	"	6000	-	0.45	160	1.0
0.33	160*	1.0	4163	"	"	6000	-	0.39	160	1.0
0.29	160*	1.0	4776	"	"	6000	-	0.34	160	1.0
0.26	160*	1.0	5209	"	"	6000	-	0.32	160	1.0
0.23	164*	1.0	6019	"	"	6000	-	0.27	164	1.0
0.21	164*	1.0	6565	"	"	6000	-	0.25	164	1.0

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

**P = 0.03 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
0.19	164*	1.0	7471	<b>BS10G06-../D04LA4</b>	"	6000	-	0.22	164	1.0
0.16	164*	1.0	8703	"	"	6000	-	0.19	164	1.0
1.7	111	2.4	831.7	<b>BS20G06-../D04LA4</b>	35	8000	-	2.0	94	2.9
1.4	135	2.0	1000	"	"	8000	-	1.7	111	2.4
1.1	171	1.6	1311	"	"	8000	-	1.3	145	1.85
0.9	210	1.3	1543	"	"	8000	-	1.1	171	1.6
0.85	220	1.25	1683	"	"	8000	-	1.0	189	1.45
0.7	270*	1.0	2014	"	"	8000	-	0.85	270	1.0
0.55	270*	1.0	2465	"	"	8000	-	0.7	270	1.0
0.48	270*	1.0	2857	"	"	8000	-	0.6	270	1.0
0.44	270*	1.0	3117	"	"	8000	-	0.55	270	1.0
0.38	270*	1.0	3570	"	"	8000	-	0.46	270	1.0
0.33	270*	1.0	4096	"	"	8000	-	0.4	270	1.0
0.28	270*	1.0	4910	"	"	8000	-	0.33	270	1.0
0.23	270*	1.0	5880	"	"	8000	-	0.28	270	1.0
0.19	275*	1.0	7363	"	"	8000	-	0.23	275	1.0
0.17	275*	1.0	8031	"	"	8000	-	0.21	275	1.0
0.15	280*	1.0	9220	"	"	8000	-	0.18	280	1.0
1.2	164	3.0	1176	<b>BS30G06-../D04LA4</b>	53	10000	-	1.4	141	3.5
0.95	205	2.4	1461	"	"	10000	-	1.2	164	3.0
0.9	215	2.3	1576	"	"	10000	-	1.1	179	2.7
0.75	260	1.9	1886	"	"	10000	-	0.9	215	2.3
0.6	325	1.5	2308	"	"	10000	-	0.75	260	1.9
0.55	355	1.4	2518	"	"	10000	-	0.65	300	1.65
0.47	420	1.15	2919	"	"	10000	-	0.6	325	1.5
0.41	480	1.0	3344	"	"	10000	-	0.49	400	1.25
0.38	490*	1.0	3647	"	"	10000	-	0.45	490	1.0
0.33	490*	1.0	4184	"	"	10000	-	0.39	490	1.0
0.28	510*	1.0	4905	"	"	10000	-	0.34	510	1.0
0.24	520*	1.0	5783	"	"	10000	-	0.29	520	1.0
0.22	520*	1.0	6308	"	"	10000	-	0.26	520	1.0
0.19	520*	1.0	7179	"	"	10000	-	0.23	520	1.0
0.17	520*	1.0	8362	"	"	10000	-	0.2	520	1.0

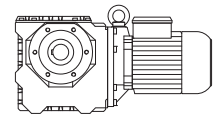
**P = 0.04 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
127	2.45	10	10.67	<b>BS02-../D04LA4</b>	3.5	1250	-	152	2.05	12
100	2.95	8.5	13.50	"	"	1250	-	120	2.45	10
75	3.75	6.7	18.00	"	"	1250	-	90	3.1	8.1
62	4.3	5.8	22.00	"	"	1250	-	74	3.6	6.9
50	4.8	5.2	27.00	"	"	1250	-	60	4.0	6.3
41	5.5	4.5	33.00	"	"	1250	-	49.5	4.6	5.4
31.5	7.5	3.2	43.00	"	"	1250	-	38	6.2	3.9
25	8.7	2.5	54.00	"	"	1250	-	30	7.2	3.1
19.5	9.9	2.0	70.00	"	"	1250	-	23.5	8.2	2.4
21.5	11.1	3.2	64.06	<b>BS04-../D04LA4</b>	3.9	2250	-	25.5	9.4	3.8
19	13.2	2.9	71.18	"	"	2250	-	23	10.9	3.5
18	12.9	2.9	77.00	"	"	2250	-	21.5	10.8	3.5
14.5	15.5	2.5	93.92	"	"	2250	-	17.5	12.8	3.0
13.5	18.1	2.1	102.9	"	"	2250	-	16	15.2	2.5
12	18.1	2.1	117.0	"	"	2250	-	14	15.5	2.5
11	21.5	1.9	123.0	"	"	2250	-	13.5	17.8	2.3
9.8	24	1.75	138.4	"	"	2250	-	12	19.7	2.1
9.0	23	1.7	150.3	"	"	2250	-	11	19.1	2.0
8.5	27	1.35	160.1	"	"	2250	-	10.5	22	1.7
7.8	26	1.55	174.0	"	"	2250	-	9.4	21.5	1.85
6.2	32.5	1.25	220.0	"	"	2250	-	7.4	27	1.5
5.4	36.5	1.1	251.6	"	"	2250	-	6.5	30.5	1.35
4.5	43	1.0	300.7	"	"	2250	-	5.4	36	1.2

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

**P = 0.04 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
4.0	47.5	0.93	338.3	BS04-../D04LA4	"	2250	-	4.8	39.5	1.1
3.5	53	0.85	391.3	"	"	2250	-	4.2	44.5	1.0
7.9	30.5	2.9	171.0	BS06-../D04LA4	8.4	3500	-	9.5	25.5	3.5
6.2	36	2.7	220.0	"	"	3500	-	7.4	30	3.3
5.4	41	2.4	252.0	"	"	3500	-	6.5	34	2.9
4.3	50	2.1	315.3	"	"	3500	-	5.2	41.5	2.6
3.8	56	1.95	358.9	"	"	3500	-	4.6	46.5	2.4
3.3	63	1.75	418.0	"	"	3500	-	3.9	53	2.1
2.9	93	1.0	474.8	BS06G04-../D04LA4	11	3500	-	3.5	77	1.2
2.5	105	0.95	552.6	"	"	3500	-	3.0	87	1.15
2.3	117	0.8	610.7	"	"	3500	-	2.7	100	0.94
3.8	62	3.1	360.3	BS10Z-../D04LA4	21	6000	-	4.5	52	3.7
3.2	72	2.6	432.4	"	"	6000	-	3.8	61	3.1
2.5	90	2.1	544.8	"	"	6000	-	3.0	75	2.5
2.2	97	1.95	638.7	"	"	6000	-	2.6	82	2.3
1.8	114	1.6	788.7	"	"	6000	-	2.1	98	1.85
1.5	134	1.2	905.6	"	"	6000	-	1.8	112	1.4
1.4	174	0.92	969.9	BS10G06-../D04LA4	25	6000	-	1.7	143	1.1
1.2	200	0.8	1166	"	"	6000	-	1.4	174	0.92
1.8	114	2.7	763.4	BS20Z-../D04LA4	32	8000	-	2.2	93	3.3
1.7	148	1.8	831.7	BS20G06-../D04LA4	35	8000	-	2.0	126	2.1
1.4	180	1.5	1000	"	"	8000	-	1.7	148	1.8
1.1	225	1.2	1311	"	"	8000	-	1.3	193	1.4
1.4	188	2.6	1022	BS30G06-../D04LA4	53	10000	-	1.6	164	3.0
1.2	215	2.3	1176	"	"	10000	-	1.4	188	2.6
0.95	275	1.8	1461	"	"	10000	-	1.2	215	2.3
0.9	290	1.7	1576	"	"	10000	-	1.1	235	2.1
0.75	350	1.4	1886	"	"	10000	-	0.9	290	1.7
0.6	435	1.15	2308	"	"	10000	-	0.75	350	1.4
0.55	475	1.05	2518	"	"	10000	-	0.65	405	1.2

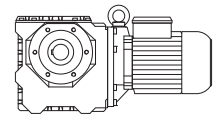
**P = 0.06 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	1.7	8.8	4.60	BS02-../D04LA4	3.5	1000	-	355	1.42	11
250	2.0	10	5.40	"	"	1000	-	300	1.68	12
200	2.45	10	6.75	"	"	1000	-	240	2.05	12
164	2.9	8.6	8.25	"	"	1100	-	197	2.4	10
127	3.65	6.8	10.67	"	"	1250	-	152	3.05	8.2
100	4.45	5.6	13.50	"	"	1250	-	120	3.7	6.8
75	5.6	4.5	18.00	"	"	1250	-	90	4.7	5.3
62	6.4	3.9	22.00	"	"	1250	-	74	5.4	4.6
50	7.2	3.5	27.00	"	"	1250	-	60	6.0	4.2
41	8.3	3.0	33.00	"	"	1250	-	49.5	6.9	3.6
31.5	11.2	2.1	43.00	"	"	1250	-	38	9.3	2.6
25	13	1.7	54.00	"	"	1250	-	30	10.8	2.0
19.5	14.9	1.35	70.00	"	"	1250	-	23.5	12.4	1.6
18	16.2	2.5	75.00	BS03-../D05LA4	5.4	1950	-	22	13.2	3.0
35.5	11.1	3.3	38.42	BS04-../D04LA4	3.9	2250	-	42.5	9.3	4.0
28.5	13.6	2.8	47.86	"	"	2250	-	34	11.4	3.3
21.5	16.7	2.2	64.06	"	"	2250	-	25.5	14.1	2.6
19	19.9	1.9	71.18	"	"	2250	-	23	16.4	2.3
18	19.4	1.95	77.00	"	"	2250	-	21.5	16.2	2.3
14.5	23	1.65	93.92	"	"	2250	-	17.5	19.3	1.95
13.5	27	1.4	102.9	"	"	2250	-	16	22.5	1.7
12	27	1.4	117.0	"	"	2250	-	14	23	1.65
11	32.5	1.25	123.0	"	"	2250	-	13.5	26.5	1.55

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

**P = 0.06 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.8	36	1.15	138.4	<b>BS04-../D04LA4</b>	"	2250	-	12	29.5	1.4
9.0	35	1.1	150.3	"	"	2250	-	11	28.5	1.35
8.5	41	0.9	160.1	"	"	2250	-	10.5	33	1.1
7.8	39.5	1.0	174.0	"	"	2250	-	9.4	32.5	1.25
6.2	48.5	0.82	220.0	"	"	2250	-	7.4	41	0.98
11.5	32	2.9	118.8	<b>BS06-../D04LA4</b>	8.4	3500	-	14	26.5	3.5
10.5	36.5	2.8	129.0	"	"	3500	-	13	29.5	3.5
9.2	40	2.7	146.8	"	"	3500	-	11.5	32	3.3
7.8	44	2.2	174.0	"	"	3500	-	9.4	36.5	2.7
6.2	54	1.8	220.0	"	"	3500	-	7.4	45.5	2.2
5.4	61	1.6	252.0	"	"	3500	-	6.5	51	1.95
4.3	75	1.4	315.3	"	"	3500	-	5.2	62	1.7
3.8	84	1.3	358.9	"	"	3500	-	4.6	69	1.6
3.3	95	1.15	418.0	"	"	3500	-	3.9	80	1.4
11.5	36.5	3.3	119.6	<b>BS10-../D06LA4</b>	23	6000	-	14	30	4.0
6.3	58	3.1	216.6	"	"	6000	-	7.5	48.5	3.7
5.4	67	2.7	254.0	<b>BS10Z-../D06LA4</b>	24	6000	-	6.4	57	3.2
4.5	78	2.4	302.5	"	"	6000	-	5.4	65	2.9
3.8	93	2.0	360.3	"	"	6000	-	4.5	78	2.4
3.2	109	1.75	432.4	"	"	6000	-	3.8	91	2.1
2.5	135	1.4	544.8	"	"	6000	-	3.0	112	1.7
2.2	145	1.3	638.7	"	"	6000	-	2.6	123	1.55
1.8	171	1.05	788.7	"	"	6000	-	2.1	147	1.2
3.2	109	3.0	430.8	<b>BS20Z-../D06LA4</b>	35	8000	-	3.8	91	3.6
2.6	121	3.0	539.7	"	"	8000	-	3.1	101	3.6
2.2	140	2.4	619.2	"	"	8000	-	2.7	114	2.9
1.8	171	1.8	763.4	"	"	8000	-	2.2	140	2.2
1.7	220	1.25	831.7	<b>BS20G06-../D06LA4</b>	38	8000	-	2.0	189	1.45
1.4	270	1.0	1000	"	"	8000	-	1.7	220	1.25
1.7	195	2.4	804.1	<b>BS30Z-../D06LA4</b>	54	10000	-	2.1	158	3.0
1.5	215	2.1	932.0	"	"	10000	-	1.8	181	2.5
1.4	280	1.75	1022	<b>BS30G06-../D06LA4</b>	56	10000	-	1.6	245	2.0
1.2	325	1.5	1176	"	"	10000	-	1.4	280	1.75
0.95	415	1.2	1461	"	"	10000	-	1.2	325	1.5
0.9	435	1.15	1576	"	"	10000	-	1.1	355	1.4
1.5	225	3.3	908.2	<b>BS40Z-../D06LA4</b>	68	15000	-	1.8	187	4.0
1.4	285	3.1	965.5	<b>BS40G10-../D06LA4</b>	73	15000	-	1.7	235	3.7
1.2	330	2.7	1180	"	"	15000	-	1.4	285	3.1
0.95	420	2.1	1499	"	"	15000	-	1.1	360	2.4
0.8	500	1.75	1785	"	"	15000	-	0.95	420	2.1
0.65	610	1.45	2126	"	"	15000	-	0.8	500	1.75
0.6	660	1.35	2304	"	"	15000	-	0.75	530	1.65
0.55	720	1.2	2552	"	"	15000	-	0.65	610	1.45
0.47	850	1.05	2902	"	"	15000	-	0.6	660	1.35

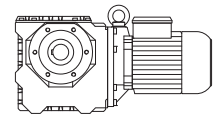
**P = 0.09 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	2.55	5.9	4.60	<b>BS02-../D04LA4</b>	3.5	1000	-	355	2.1	7.1
250	3.0	6.7	5.40	"	"	1000	-	300	2.5	8.0
200	3.65	6.8	6.75	"	"	1000	-	240	3.05	8.2
164	4.4	5.7	8.25	"	"	1100	-	197	3.65	6.8
127	5.5	4.5	10.67	"	"	1250	-	152	4.6	5.4
100	6.7	3.7	13.50	"	"	1250	-	120	5.5	4.5
75	8.4	3.0	18.00	"	"	1250	-	90	7.0	3.6
62	9.7	2.6	22.00	"	"	1250	-	74	8.1	3.1
50	10.8	2.3	27.00	"	"	1250	-	60	9.0	2.8
41	12.5	2.0	33.00	"	"	1250	-	49.5	10.4	2.4

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

P = 0.09 kW



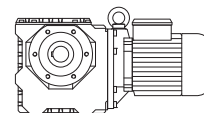
50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
31.5	16.9	1.4	43.00	<b>BS02-../D04LA4</b>	"	1250	-	38	14	1.7
25	19.5	1.15	54.00	"	"	1250	-	30	16.3	1.35
19.5	22	0.91	70.00	"	"	1250	-	23.5	18.6	1.1
27	18.4	3.0	50.00	<b>BS03-../D05LA4</b>	5.4	1950	-	32.5	15.3	3.6
22	20.5	2.3	62.00	"	"	1950	-	26.5	17.1	2.8
18	24	1.65	75.00	"	"	1950	-	22	19.9	2.0
56	11.6	2.9	24.25	<b>BS04-../D04LA4</b>	3.9	2250	-	67	9.7	3.5
52	11.7	3.2	26.21	"	"	2250	-	62	9.8	3.9
43	13.9	2.7	31.50	"	"	2250	-	52	11.5	3.3
35.5	16.7	2.2	38.42	"	"	2250	-	42.5	13.9	2.7
28.5	20.5	1.85	47.86	"	"	2250	-	34	17.1	2.2
21.5	25	1.45	64.06	"	"	2250	-	25.5	21	1.7
19	29.5	1.3	71.18	"	"	2250	-	23	24.5	1.55
18	29	1.3	77.00	"	"	2250	-	21.5	24	1.6
14.5	34.5	1.1	93.92	"	"	2250	-	17.5	28.5	1.35
13.5	40.5	0.94	102.9	"	"	2250	-	16	34	1.1
12	40.5	0.94	117.0	"	"	2250	-	14	34.5	1.1
11	49	0.84	123.0	"	"	2250	-	13.5	40	1.05
21.5	27	3.0	64.06	<b>BS06-../D04LA4</b>	8.4	3500	-	25.5	22.5	3.6
19	32	2.9	71.18	"	"	3500	-	23	26.5	3.5
18	31.5	2.7	77.00	"	"	3500	-	21.5	26.5	3.2
15	40	2.5	90.00	"	"	3500	-	18	33	3.0
13.5	43.5	2.3	103.1	"	"	3500	-	16	37	2.7
11.5	48.5	1.95	118.8	"	"	3500	-	14	39.5	2.4
10.5	54	1.95	129.0	"	"	3500	-	13	44	2.4
9.2	60	1.75	146.8	"	"	3500	-	11.5	48.5	2.2
7.8	66	1.5	174.0	"	"	3500	-	9.4	54	1.8
6.2	81	1.2	220.0	"	"	3500	-	7.4	68	1.45
5.4	92	1.1	252.0	"	"	3500	-	6.5	76	1.3
4.3	113	0.94	315.3	"	"	3500	-	5.2	94	1.15
3.8	126	0.87	358.9	"	"	3500	-	4.6	104	1.05
11.5	55	2.2	119.6	<b>BS10-../D06LA4</b>	23	6000	-	14	45	2.7
10.5	52	3.2	130.3	"	"	6000	-	12.5	44	3.7
8.9	61	2.7	152.7	"	"	6000	-	11	50	3.3
7.2	76	2.2	188.6	"	"	6000	-	8.6	63	2.7
6.3	87	2.1	216.6	"	"	6000	-	7.5	73	2.5
5.4	101	1.8	254.0	<b>BS10Z-../D06LA4</b>	24	6000	-	6.4	85	2.1
4.5	118	1.6	302.5	"	"	6000	-	5.4	98	1.95
3.8	140	1.35	360.3	"	"	6000	-	4.5	118	1.6
3.2	163	1.15	432.4	"	"	6000	-	3.8	137	1.4
2.5	200	0.95	544.8	"	"	6000	-	3.0	169	1.1
2.2	215	0.88	638.7	"	"	6000	-	2.6	185	1.05
6.0	91	3.2	225.6	<b>BS20-../D06LA4</b>	34	8000	-	7.2	76	3.8
5.3	103	2.9	257.8	<b>BS20Z-../D06LA4</b>	35	8000	-	6.3	87	3.4
4.5	120	2.5	300.1	"	"	8000	-	5.4	100	3.0
3.8	140	2.3	359.9	"	"	8000	-	4.6	115	2.8
3.2	163	2.0	430.8	"	"	8000	-	3.8	137	2.4
2.6	181	2.0	539.7	"	"	8000	-	3.1	152	2.4
2.2	210	1.55	619.2	"	"	8000	-	2.7	171	1.95
1.8	255	1.2	763.4	"	"	8000	-	2.2	210	1.5
1.7	330	0.82	831.7	<b>BS20G06-../D06LA4</b>	38	8000	-	2.0	280	0.96
3.8	167	2.4	359.6	<b>BS30Z-../D06LA4</b>	54	10000	-	4.6	138	2.9
3.0	183	3.3	457.3	"	"	10000	-	3.6	152	3.9
2.6	210	2.9	539.3	"	"	10000	-	3.1	177	3.4
2.1	245	2.4	651.0	"	"	10000	-	2.5	205	2.8
1.7	290	1.65	804.1	"	"	10000	-	2.1	235	2.0
1.5	325	1.4	932.0	"	"	10000	-	1.8	270	1.65
1.4	420	1.15	1022	<b>BS30G06-../D06LA4</b>	56	10000	-	1.6	370	1.3
1.2	490	1.0	1176	"	"	10000	-	1.4	420	1.15



# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

**P = 0.09 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
1.9	270	2.8	736.5	BS40Z-../D06LA4	68	15000	-	2.2	230	3.3
1.5	335	2.2	908.2	"	"	15000	-	1.8	280	2.7
1.4	425	2.1	965.5	BS40G10-../D06LA4	73	15000	-	1.7	350	2.5
1.2	500	1.75	1180	"	"	15000	-	1.4	425	2.1
0.95	630	1.4	1499	"	"	15000	-	1.1	540	1.65
0.8	750	1.15	1785	"	"	15000	-	0.95	630	1.4

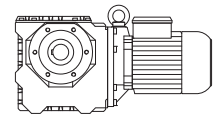
**P = 0.12 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	3.4	4.4	4.60	BS02-../D04LA4	3.5	1000	-	355	2.8	5.4
250	4.0	5.0	5.40	"	"	1000	-	300	3.35	6.0
200	4.9	5.1	6.75	"	"	1000	-	240	4.1	6.1
164	5.8	4.3	8.25	"	"	1100	-	197	4.85	5.2
127	7.3	3.4	10.67	"	"	1250	-	152	6.1	4.1
100	8.9	2.8	13.50	"	"	1250	-	120	7.4	3.4
75	11.3	2.2	18.00	"	"	1250	-	90	9.4	2.7
62	12.9	1.95	22.00	"	"	1250	-	74	10.8	2.3
50	14.4	1.75	27.00	"	"	1250	-	60	12	2.1
41	16.7	1.5	33.00	"	"	1250	-	49.5	13.8	1.8
31.5	22.5	1.05	43.00	"	"	1250	-	38	18.6	1.3
25	26	0.85	54.00	"	"	1250	-	30	21.5	1.0
41	17	3.2	33.00	BS03-../D05LA4	5.4	1950	-	49.5	14.1	3.9
35	20.5	2.7	39.00	"	"	1950	-	42	17.4	3.2
27	24.5	2.2	50.00	"	"	1950	-	32.5	20	2.8
22	27.5	1.75	62.00	"	"	1950	-	26.5	22.5	2.1
18	32	1.25	75.00	"	"	1950	-	22	26.5	1.5
83	10.6	3.3	16.31	BS04-../D04LA4	3.9	1970	-	100	8.8	4.0
65	13.3	2.8	20.96	"	"	2100	-	78	11.1	3.3
56	15.5	2.2	24.25	"	"	2250	-	67	12.9	2.6
52	15.6	2.4	26.21	"	"	2250	-	62	13.1	2.9
43	18.6	2.0	31.50	"	"	2250	-	52	15.4	2.5
35.5	22	1.7	38.42	"	"	2250	-	42.5	18.6	2.0
28.5	27	1.4	47.86	"	"	2250	-	34	22.5	1.7
21.5	33.5	1.05	64.06	"	"	2250	-	25.5	28	1.3
19	39.5	0.96	71.18	"	"	2250	-	23	32.5	1.15
18	38.5	0.99	77.00	"	"	2250	-	21.5	32.5	1.15
14.5	46.5	0.82	93.92	"	"	2250	-	17.5	38.5	0.99
28	29	3.0	48.60	BS06-../D04LA4	8.4	3500	-	33.5	24.5	3.6
23.5	34.5	2.6	58.15	"	"	3500	-	28	29	3.1
21.5	36	2.2	64.06	"	"	3500	-	25.5	30.5	2.6
19	42.5	2.2	71.18	"	"	3500	-	23	35	2.7
18	42.5	2.0	77.00	"	"	3500	-	21.5	35.5	2.4
15	53	1.85	90.00	"	"	3500	-	18	44.5	2.2
13.5	58	1.7	103.1	"	"	3500	-	16	49	2.0
11.5	64	1.45	118.8	"	"	3500	-	14	53	1.75
10.5	73	1.4	129.0	"	"	3500	-	13	59	1.75
9.2	80	1.35	146.8	"	"	3500	-	11.5	64	1.65
7.8	88	1.1	174.0	"	"	3500	-	9.4	73	1.35
6.2	109	0.9	220.0	"	"	3500	-	7.4	91	1.1
5.4	123	0.8	252.0	"	"	3500	-	6.5	102	0.97
16.5	51	2.9	84.36	BS10-../D06LA4	23	5300	-	19.5	43	3.5
13.5	54	3.0	103.4	"	"	5600	-	16	45.5	3.5
11.5	73	1.65	119.6	"	"	6000	-	14	60	2.0
10.5	69	2.4	130.3	"	"	6000	-	12.5	58	2.8
8.9	82	2.0	152.7	"	"	6000	-	11	66	2.5
7.2	101	1.7	188.6	"	"	6000	-	8.6	85	2.0
6.3	116	1.55	216.6	"	"	6000	-	7.5	97	1.85

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

P = 0.12 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
5.4	135	1.35	254.0	BS10Z-../D06LA4	24	6000	-	6.4	114	1.6
4.5	157	1.2	302.5	"	"	6000	-	5.4	131	1.45
3.8	186	1.0	360.3	"	"	6000	-	4.5	157	1.2
3.2	215	0.88	432.4	"	"	6000	-	3.8	183	1.05
8.5	88	3.1	159.4	BS20-../D06LA4	34	8000	-	10.5	72	3.8
7.4	102	2.7	183.0	"	"	8000	-	8.9	84	3.3
6.0	122	2.4	225.6	"	"	8000	-	7.2	101	2.9
5.3	138	2.1	257.8	BS20Z-../D06LA4	35	8000	-	6.3	116	2.5
4.5	160	1.9	300.1	"	"	8000	-	5.4	133	2.3
3.8	186	1.7	359.9	"	"	8000	-	4.6	154	2.1
3.2	215	1.55	430.8	"	"	8000	-	3.8	183	1.8
2.6	240	1.5	539.7	"	"	8000	-	3.1	200	1.85
2.2	280	1.2	619.2	"	"	8000	-	2.7	225	1.45
1.8	340	0.91	763.4	"	"	8000	-	2.2	280	1.1
3.8	220	1.8	359.6	BS30Z-../D06LA4	54	10000	-	4.6	184	2.1
3.5	210	2.8	390.2	"	"	10000	-	4.2	177	3.3
3.0	240	2.5	457.3	"	"	10000	-	3.6	200	3.0
2.6	280	2.1	539.3	"	"	10000	-	3.1	235	2.6
2.1	325	1.8	651.0	"	"	10000	-	2.5	275	2.1
1.7	390	1.2	804.1	"	"	10000	-	2.1	315	1.5
1.5	435	1.05	932.0	"	"	10000	-	1.8	360	1.25
1.4	560	0.88	1022	BS30G06-../D06LA4	56	10000	-	1.6	490	1.0
2.3	300	3.0	612.1	BS40Z-../D06LA4	68	15000	-	2.7	255	3.6
1.9	360	2.1	736.5	"	"	15000	-	2.2	310	2.4
1.5	450	1.65	908.2	"	"	15000	-	1.8	375	2.0
1.4	570	1.55	965.5	BS40G10-../D06LA4	73	15000	-	1.7	470	1.85
1.2	660	1.35	1180	"	"	15000	-	1.4	570	1.55
0.95	840	1.05	1499	"	"	15000	-	1.1	720	1.2

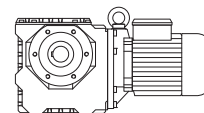
P = 0.18 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	5.1	2.9	4.60	BS02-../D05LA4	5.3	1000	-	355	4.25	3.5
250	6.0	3.3	5.40	"	"	1000	-	300	5.0	4.0
200	7.3	3.4	6.75	"	"	1000	-	240	6.1	4.1
164	8.8	2.8	8.25	"	"	1100	-	197	7.3	3.4
127	11	2.3	10.67	"	"	1250	-	152	9.2	2.7
100	13.4	1.85	13.50	"	"	1250	-	120	11.1	2.3
75	16.9	1.5	18.00	"	"	1250	-	90	14.1	1.75
62	19.4	1.3	22.00	"	"	1250	-	74	16.2	1.55
50	21.5	1.15	27.00	"	"	1250	-	60	18	1.4
41	25	1.0	33.00	"	"	1250	-	49.5	20.5	1.2
72	18.1	3.0	19.00	BS03-../D05LA4	5.4	1950	-	86	15.1	3.6
54	21.5	2.6	25.00	"	"	1950	-	65	18.2	3.0
41	25.5	2.2	33.00	"	"	1950	-	49.5	21	2.6
35	31	1.75	39.00	"	"	1950	-	42	26	2.1
27	36.5	1.5	50.00	"	"	1950	-	32.5	30.5	1.8
22	41	1.15	62.00	"	"	1950	-	26.5	34	1.4
18	48.5	0.82	75.00	"	"	1950	-	22	39.5	1.0
126	10.6	3.0	10.73	BS04-../D05LA4	5.8	1600	-	151	8.8	3.6
104	12.7	2.6	13.09	"	"	1760	-	124	10.6	3.1
83	15.9	2.2	16.31	"	"	1970	-	100	13.2	2.7
65	20	1.85	20.96	"	"	2100	-	78	16.7	2.2
56	23	1.5	24.25	"	"	2250	-	67	19.4	1.75
52	23	1.65	26.21	"	"	2250	-	62	19.6	1.95
43	27.5	1.4	31.50	"	"	2250	-	52	23	1.65
35.5	33	1.1	38.42	"	"	2250	-	42.5	27.5	1.35
28.5	41	0.93	47.86	"	"	2250	-	34	34	1.1

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

P = 0.18 kW

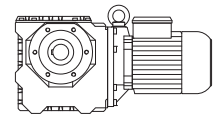


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
56	24.5	3.1	24.25	<b>BS06-../D05LA4</b>	10	2600	-	67	20.5	3.8
52	24	3.2	26.21	"	"	3000	-	62	20	3.9
43	29	2.8	31.50	"	"	3200	-	52	24	3.3
33	37.5	2.3	41.29	"	"	3500	-	39.5	31	2.8
28	44	2.0	48.60	"	"	3500	-	33.5	36.5	2.4
23.5	51	1.8	58.15	"	"	3500	-	28	43.5	2.1
21.5	54	1.5	64.06	"	"	3500	-	25.5	45.5	1.75
19	64	1.45	71.18	"	"	3500	-	23	53	1.75
18	63	1.35	77.00	"	"	3500	-	21.5	53	1.6
15	80	1.25	90.00	"	"	3500	-	18	66	1.5
13.5	87	1.15	103.1	"	"	3500	-	16	74	1.35
11.5	97	0.97	118.8	"	"	3500	-	14	79	1.2
10.5	109	0.95	129.0	"	"	3500	-	13	88	1.2
9.2	121	0.88	146.8	"	"	3500	-	11.5	97	1.1
28.5	45	3.2	47.59	<b>BS10-../D06LA4</b>	23	4050	-	34.5	37	3.9
24	53	2.8	57.12	"	"	4350	-	28.5	44.5	3.4
22.5	51	2.9	60.74	"	"	4550	-	27	42.5	3.5
19	66	2.4	71.96	"	"	5000	-	23	55	2.9
16.5	77	1.95	84.36	"	"	5300	-	19.5	65	2.3
13.5	81	2.0	103.4	"	"	5600	-	16	68	2.4
11.5	110	1.1	119.6	"	"	6000	-	14	90	1.35
10.5	104	1.6	130.3	"	"	6000	-	12.5	88	1.85
8.9	123	1.35	152.7	"	"	6000	-	11	100	1.65
7.2	152	1.1	188.6	"	"	6000	-	8.6	127	1.35
6.3	174	1.05	216.6	"	"	6000	-	7.5	146	1.25
5.4	200	0.9	254.0	<b>BS10Z-../D06LA4</b>	24	6000	-	6.4	171	1.05
4.5	235	0.81	302.5	"	"	6000	-	5.4	197	0.96
13	87	3.1	106.3	<b>BS20-../D06LA4</b>	34	7600	-	15.5	73	3.7
11	103	2.6	127.3	"	"	8000	-	13	87	3.1
8.5	133	2.1	159.4	"	"	8000	-	10.5	108	2.5
7.4	153	1.85	183.0	"	"	8000	-	8.9	127	2.2
6.0	183	1.6	225.6	"	"	8000	-	7.2	152	1.9
5.3	205	1.45	257.8	<b>BS20Z-../D06LA4</b>	35	8000	-	6.3	174	1.7
4.5	240	1.25	300.1	"	"	8000	-	5.4	200	1.5
3.8	280	1.15	359.9	"	"	8000	-	4.6	230	1.4
3.2	325	1.0	430.8	"	"	8000	-	3.8	275	1.2
2.6	360	1.0	539.7	"	"	8000	-	3.1	300	1.2
6.3	180	2.9	216.4	<b>BS30-../D06LA4</b>	51	10000	-	7.5	151	3.4
5.2	215	2.6	261.6	<b>BS30Z-../D06LA4</b>	54	10000	-	6.2	182	3.1
4.5	245	2.4	306.6	"	"	10000	-	5.3	210	2.8
3.8	330	1.2	359.6	"	"	10000	-	4.6	275	1.45
3.5	315	1.85	390.2	"	"	10000	-	4.2	265	2.2
3.0	365	1.65	457.3	"	"	10000	-	3.6	305	1.95
2.6	420	1.45	539.3	"	"	10000	-	3.1	350	1.7
2.1	490	1.2	651.0	"	"	10000	-	2.5	410	1.4
1.7	580	0.82	804.1	"	"	10000	-	2.1	470	1.0
4.7	270	2.6	287.7	<b>BS40Z-../D06LA4</b>	68	15000	-	5.7	220	3.3
3.1	345	2.9	446.8	"	"	15000	-	3.7	290	3.4
2.6	415	2.7	520.8	"	"	15000	-	3.2	335	3.3
2.3	455	2.0	612.1	"	"	15000	-	2.7	385	2.4
1.9	540	1.4	736.5	"	"	15000	-	2.2	465	1.65
1.5	670	1.1	908.2	"	"	15000	-	1.8	560	1.35
1.4	850	1.05	965.5	<b>BS40G10-../D06LA4</b>	73	15000	-	1.7	700	1.25
1.2	1000	0.88	1180	"	"	15000	-	1.4	850	1.05

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

P = 0.25 kW

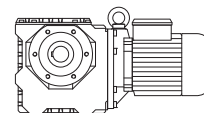


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	7.1	2.1	4.60	<b>BS02-../D05LA4</b>	5.3	1000	-	355	5.9	2.5
250	8.4	2.4	5.40	"	"	1000	-	300	7.0	2.9
200	10.2	2.5	6.75	"	"	1000	-	240	8.5	2.9
164	12.2	2.0	8.25	"	"	1100	-	197	10.1	2.5
127	15.4	1.6	10.67	"	"	1250	-	152	12.8	1.95
100	18.6	1.35	13.50	"	"	1250	-	120	15.5	1.6
75	23.5	1.05	18.00	"	"	1250	-	90	19.6	1.3
62	26.5	0.94	22.00	"	"	1250	-	74	22.5	1.1
50	30	0.83	27.00	"	"	1250	-	60	25	1.0
100	18.6	3.0	13.50	<b>BS03-../D05LA4</b>	5.4	1600	-	120	15.5	3.5
72	25	2.2	19.00	"	"	1950	-	86	21	2.6
54	30.5	1.8	25.00	"	"	1950	-	65	25	2.2
41	35.5	1.55	33.00	"	"	1950	-	49.5	29	1.9
35	43.5	1.25	39.00	"	"	1950	-	42	36	1.55
27	51	1.1	50.00	"	"	1950	-	32.5	42.5	1.3
22	57	0.84	62.00	"	"	1950	-	26.5	47.5	1.0
225	8.2	3.2	6.13	<b>BS04-../D05LA4</b>	5.8	1320	-	265	7.0	3.7
152	12.2	2.5	8.93	"	"	1500	-	182	10.2	2.9
126	14.7	2.2	10.73	"	"	1600	-	151	12.3	2.6
104	17.6	1.9	13.09	"	"	1760	-	124	14.8	2.2
83	22	1.6	16.31	"	"	1970	-	100	18.3	1.9
65	27.5	1.35	20.96	"	"	2100	-	78	23	1.6
56	32	1.05	24.25	"	"	2250	-	67	27	1.25
52	32.5	1.15	26.21	"	"	2250	-	62	27	1.4
43	38.5	0.99	31.50	"	"	2250	-	52	32	1.2
35.5	46	0.8	38.42	"	"	2250	-	42.5	38.5	0.96
82	23	3.1	16.56	<b>BS06-../D05LA4</b>	10	2400	-	98	19.4	3.7
69	27.5	2.7	19.82	"	"	2500	-	82	23	3.3
56	34	2.3	24.25	"	"	2600	-	67	28.5	2.7
52	33.5	2.3	26.21	"	"	3000	-	62	28	2.8
43	40.5	2.0	31.50	"	"	3200	-	52	33.5	2.4
33	52	1.65	41.29	"	"	3500	-	39.5	43.5	2.0
28	61	1.45	48.60	"	"	3500	-	33.5	51	1.75
23.5	72	1.25	58.15	"	"	3500	-	28	60	1.5
21.5	75	1.05	64.06	"	"	3500	-	25.5	63	1.25
19	89	1.05	71.18	"	"	3500	-	23	73	1.3
18	88	0.97	77.00	"	"	3500	-	21.5	74	1.15
15	111	0.88	90.00	"	"	3500	-	18	92	1.05
13.5	122	0.82	103.1	"	"	3500	-	16	102	0.98
40.5	44.5	3.0	33.55	<b>BS10-../D06LA4</b>	23	3550	-	48.5	37	3.6
34	52	2.7	39.96	"	"	3800	-	41	43.5	3.2
28.5	62	2.3	47.59	"	"	4050	-	34.5	51	2.8
24	73	2.1	57.12	"	"	4350	-	28.5	61	2.5
22.5	71	2.1	60.74	"	"	4550	-	27	59	2.5
19	92	1.75	71.96	"	"	5000	-	23	76	2.1
16.5	107	1.4	84.36	"	"	5300	-	19.5	90	1.65
13.5	113	1.4	103.4	"	"	5600	-	16	95	1.7
10.5	145	1.15	130.3	"	"	6000	-	12.5	122	1.35
8.9	171	0.96	152.7	"	"	6000	-	11	138	1.2
7.2	210	0.81	188.6	"	"	6000	-	8.6	177	0.96
19.5	91	3.3	70.30	<b>BS20-../D06LA4</b>	34	6300	-	23.5	76	3.9
18	87	3.1	76.18	"	"	6600	-	21.5	73	3.7
15.5	101	2.7	88.67	"	"	7000	-	18.5	85	3.2
13	121	2.2	106.3	"	"	7600	-	15.5	101	2.7
11	143	1.9	127.3	"	"	8000	-	13	121	2.2
8.5	185	1.5	159.4	"	"	8000	-	10.5	150	1.85
7.4	210	1.35	183.0	"	"	8000	-	8.9	177	1.6
6.0	250	1.15	225.6	"	"	8000	-	7.2	210	1.4
5.3	285	1.05	257.8	<b>BS20Z-../D06LA4</b>	35	8000	-	6.3	240	1.25
4.5	330	0.91	300.1	"	"	8000	-	5.4	275	1.1
3.8	385	0.83	359.9	"	"	8000	-	4.6	320	1.0

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

P = 0.25 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.0	177	3.1	151.1	BS30-../D06LA4	51	9500	-	11	145	3.7
7.3	215	2.5	186.7	"	"	10000	-	8.7	181	3.0
6.3	250	2.1	216.4	"	"	10000	-	7.5	210	2.5
5.2	300	1.85	261.6	BS30Z-../D06LA4	54	10000	-	6.2	250	2.2
4.5	340	1.7	306.6	"	"	10000	-	5.3	290	2.0
3.8	460	0.86	359.6	"	"	10000	-	4.6	380	1.05
3.5	440	1.35	390.2	"	"	10000	-	4.2	365	1.6
3.0	500	1.2	457.3	"	"	10000	-	3.6	420	1.45
2.6	580	1.05	539.3	"	"	10000	-	3.1	490	1.2
2.1	680	0.85	651.0	"	"	10000	-	2.5	570	1.0
6.9	255	2.7	197.1	BS40Z-../D06LA4	68	15000	-	8.3	210	3.3
5.5	270	3.3	249.6	"	"	15000	-	6.5	230	3.9
4.7	375	1.9	287.7	"	"	15000	-	5.7	305	2.3
4.5	330	3.2	302.1	"	"	15000	-	5.4	275	3.9
3.8	395	2.7	356.8	"	"	15000	-	4.6	325	3.3
3.1	485	2.0	446.8	"	"	15000	-	3.7	405	2.4
2.6	570	1.95	520.8	"	"	15000	-	3.2	470	2.3
2.3	630	1.45	612.1	"	"	15000	-	2.7	530	1.7
1.9	750	1.0	736.5	"	"	15000	-	2.2	650	1.15
1.5	930	0.8	908.2	"	"	15000	-	1.8	780	0.95

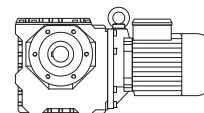
P = 0.3 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	8.5	1.75	4.60	BS02-../D07LA4	9.3	1000	-	355	7.1	2.1
250	10	2.0	5.40	"	"	1000	-	300	8.4	2.4
200	12.3	2.0	6.75	"	"	1000	-	240	10.2	2.5
164	14.6	1.7	8.25	"	"	1100	-	197	12.2	2.0
127	18.4	1.35	10.67	"	"	1250	-	152	15.4	1.6
100	22	1.15	13.50	"	"	1250	-	120	18.6	1.35
75	28	0.89	18.00	"	"	1250	-	90	23.5	1.05
100	22	2.5	13.50	BS03-../D07LA4	9.4	1600	-	120	18.6	3.0
72	30	1.85	19.00	"	"	1950	-	86	25	2.2
54	36.5	1.5	25.00	"	"	1950	-	65	30	1.85
41	42.5	1.3	33.00	"	"	1950	-	49.5	35	1.55
35	52	1.05	39.00	"	"	1950	-	42	43.5	1.25
27	61	0.9	50.00	"	"	1950	-	32.5	51	1.1
225	9.9	2.6	6.13	BS04-../D07LA4	9.8	1320	-	265	8.4	3.1
152	14.7	2.0	8.93	"	"	1500	-	182	12.2	2.5
126	17.7	1.8	10.73	"	"	1600	-	151	14.7	2.2
104	21	1.55	13.09	"	"	1760	-	124	17.7	1.85
83	26.5	1.3	16.31	"	"	1970	-	100	22	1.6
65	33	1.1	20.96	"	"	2100	-	78	27.5	1.35
56	38.5	0.88	24.25	"	"	2250	-	67	32	1.05
52	39	0.97	26.21	"	"	2250	-	62	32.5	1.15
43	46.5	0.82	31.50	"	"	2250	-	52	38.5	0.99
96	24	2.8	14.07	BS06-../D07LA4	14	2200	-	116	20	3.4
82	27.5	2.6	16.56	"	"	2400	-	98	23	3.1
69	33	2.3	19.82	"	"	2500	-	82	27.5	2.7
56	40.5	1.9	24.25	"	"	2600	-	67	34	2.3
52	40	1.95	26.21	"	"	3000	-	62	33.5	2.3
43	48.5	1.65	31.50	"	"	3200	-	52	40	2.0
33	62	1.4	41.29	"	"	3500	-	39.5	52	1.65
28	73	1.2	48.60	"	"	3500	-	33.5	61	1.45
23.5	86	1.05	58.15	"	"	3500	-	28	72	1.25
21.5	90	0.89	64.06	"	"	3500	-	25.5	76	1.05
19	107	0.88	71.18	"	"	3500	-	23	88	1.05
18	106	0.8	77.00	"	"	3500	-	21.5	89	0.96

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

**P = 0.3 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
52	42.5	3.1	26.42	BS10-../D07LA4	26	3250	-	62	36	3.6
40.5	53	2.5	33.55	"	"	3550	-	48.5	44.5	3.0
34	63	2.2	39.96	"	"	3800	-	41	52	2.7
28.5	75	1.95	47.59	"	"	4050	-	34.5	62	2.3
24	88	1.7	57.12	"	"	4350	-	28.5	74	2.0
22.5	85	1.75	60.74	"	"	4550	-	27	71	2.1
19	111	1.45	71.96	"	"	5000	-	23	92	1.75
16.5	128	1.15	84.36	"	"	5300	-	19.5	108	1.4
13.5	135	1.2	103.4	"	"	5600	-	16	114	1.4
10.5	174	0.94	130.3	"	"	6000	-	12.5	146	1.1
8.9	205	0.8	152.7	"	"	6000	-	11	166	0.99
23	93	3.0	58.74	BS20-../D07LA4	36	5900	-	28	76	3.7
19.5	110	2.7	70.30	"	"	6300	-	23.5	91	3.3
18	105	2.6	76.18	"	"	6600	-	21.5	87	3.1
15.5	121	2.2	88.67	"	"	7000	-	18.5	102	2.6
13	145	1.85	106.3	"	"	7600	-	15.5	121	2.2
11	171	1.6	127.3	"	"	8000	-	13	145	1.85
8.5	220	1.25	159.4	"	"	8000	-	10.5	180	1.55
7.4	255	1.1	183.0	"	"	8000	-	8.9	210	1.35
6.0	305	0.95	225.6	"	"	8000	-	7.2	250	1.15
5.3	345	0.86	257.8	BS20Z-../D07LA4	38	8000	-	6.3	290	1.0
16.5	133	3.1	83.48	BS30-../D07LA4	54	6800	-	19.5	113	3.6
11	177	2.9	125.2	"	"	8700	-	13	149	3.5
9.0	210	2.6	151.1	"	"	9500	-	11	174	3.1
7.3	255	2.1	186.7	"	"	10000	-	8.7	215	2.5
6.3	300	1.75	216.4	"	"	10000	-	7.5	250	2.1
5.2	360	1.55	261.6	BS30Z-../D07LA4	56	10000	-	6.2	300	1.85
4.5	410	1.4	306.6	"	"	10000	-	5.3	350	1.65
3.5	530	1.1	390.2	"	"	10000	-	4.2	440	1.35
3.0	610	0.98	457.3	"	"	10000	-	3.6	500	1.2
2.6	700	0.86	539.3	"	"	10000	-	3.1	590	1.0
6.9	305	2.3	197.1	BS40Z-../D07LA4	70	15000	-	8.3	255	2.7
5.5	325	2.8	249.6	"	"	15000	-	6.5	275	3.3
4.7	450	1.6	287.7	"	"	15000	-	5.7	370	1.95
4.5	400	2.7	302.1	"	"	15000	-	5.4	330	3.2
3.8	470	2.3	356.8	"	"	15000	-	4.6	390	2.8
3.1	580	1.7	446.8	"	"	15000	-	3.7	485	2.0
2.6	690	1.6	520.8	"	"	15000	-	3.2	560	1.95
2.3	750	1.2	612.1	"	"	15000	-	2.7	640	1.4
1.9	900	0.84	736.5	"	"	15000	-	2.2	780	0.97

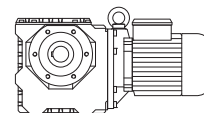
**P = 0.37 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
295	10.5	1.45	4.60	BS02-../D07LA4	9.3	1000	-	355	8.7	1.7
250	12.4	1.6	5.40	"	"	1000	-	300	10.3	1.95
200	15.1	1.65	6.75	"	"	1000	-	240	12.6	2.0
164	18	1.4	8.25	"	"	1100	-	197	15	1.65
127	22.5	1.1	10.67	"	"	1250	-	152	19	1.3
100	27.5	0.91	13.50	"	"	1250	-	120	22.5	1.1
100	27.5	2.0	13.50	BS03-../D07LA4	9.4	1600	-	120	22.5	2.4
72	37	1.5	19.00	"	"	1950	-	86	31	1.75
54	45	1.2	25.00	"	"	1950	-	65	37.5	1.45
41	52	1.05	33.00	"	"	1950	-	49.5	43.5	1.25
35	64	0.86	39.00	"	"	1950	-	42	53	1.05
225	12.2	2.1	6.13	BS04-../D07LA4	9.8	1320	-	265	10.4	2.5
152	18.1	1.65	8.93	"	"	1500	-	182	15.1	2.0

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

P = 0.37 kW

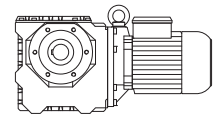


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
126	21.5	1.5	10.73	BS04-../D07LA4	"	1600	-	151	18.2	1.75
104	26	1.25	13.09	"	"	1760	-	124	21.5	1.55
83	32.5	1.1	16.31	"	"	1970	-	100	27	1.3
65	41	0.9	20.96	"	"	2100	-	78	34	1.1
152	18.8	3.3	8.93	BS06-../D07LA4	14	1710	-	182	15.7	3.9
126	22.5	2.9	10.73	"	"	1850	-	151	18.9	3.4
96	29.5	2.3	14.07	"	"	2200	-	116	24.5	2.8
82	34	2.1	16.56	"	"	2400	-	98	28.5	2.5
69	40.5	1.85	19.82	"	"	2500	-	82	34	2.2
56	50	1.55	24.25	"	"	2600	-	67	42	1.85
52	49.5	1.55	26.21	"	"	3000	-	62	41.5	1.85
43	59	1.35	31.50	"	"	3200	-	52	49.5	1.6
33	77	1.1	41.29	"	"	3500	-	39.5	64	1.35
28	90	0.98	48.60	"	"	3500	-	33.5	75	1.15
23.5	106	0.86	58.15	"	"	3500	-	28	89	1.0
63	44.5	2.8	21.61	BS10-../D07LA4	26	3000	-	75	37.5	3.3
52	53	2.5	26.42	"	"	3250	-	62	44	3.0
40.5	66	2.0	33.55	"	"	3550	-	48.5	55	2.5
34	77	1.8	39.96	"	"	3800	-	41	64	2.2
28.5	92	1.6	47.59	"	"	4050	-	34.5	76	1.9
24	108	1.4	57.12	"	"	4350	-	28.5	91	1.65
22.5	105	1.45	60.74	"	"	4550	-	27	87	1.7
19	137	1.15	71.96	"	"	5000	-	23	113	1.4
16.5	158	0.95	84.36	"	"	5300	-	19.5	134	1.1
13.5	167	0.96	103.4	"	"	5600	-	16	141	1.15
32.5	82	3.3	42.08	BS20-../D07LA4	36	5200	-	38.5	69	3.9
28	94	2.9	48.98	"	"	5500	-	33.5	79	3.4
27	87	3.1	50.44	"	"	5700	-	32.5	72	3.8
23	115	2.4	58.74	"	"	5900	-	28	94	3.0
19.5	135	2.2	70.30	"	"	6300	-	23.5	112	2.7
18	129	2.1	76.18	"	"	6600	-	21.5	108	2.5
15.5	150	1.8	88.67	"	"	7000	-	18.5	126	2.1
13	179	1.5	106.3	"	"	7600	-	15.5	150	1.8
11	210	1.3	127.3	"	"	8000	-	13	179	1.5
8.5	270	1.0	159.4	"	"	8000	-	10.5	220	1.25
7.4	315	0.89	183.0	"	"	8000	-	8.9	260	1.1
6.8	330	0.85	201.4	BS20Z-../D07LA4	38	8000	-	8.1	275	1.0
16.5	164	2.5	83.48	BS30-../D07LA4	54	6800	-	19.5	139	2.9
15	162	3.0	90.59	"	"	7700	-	18	135	3.6
13	184	2.8	106.2	"	"	8200	-	15.5	155	3.3
11	215	2.4	125.2	"	"	8700	-	13	184	2.8
9.0	260	2.1	151.1	"	"	9500	-	11	215	2.5
7.3	315	1.7	186.7	"	"	10000	-	8.7	265	2.0
6.3	370	1.4	216.4	"	"	10000	-	7.5	310	1.7
5.2	445	1.25	261.6	BS30Z-../D07LA4	56	10000	-	6.2	375	1.5
4.5	510	1.15	306.6	"	"	10000	-	5.3	430	1.35
3.5	650	0.91	390.2	"	"	10000	-	4.2	540	1.1
3.0	750	0.8	457.3	"	"	10000	-	3.6	620	0.97
6.9	375	1.85	197.1	BS40Z-../D07LA4	70	15000	-	8.3	315	2.2
5.5	400	2.3	249.6	"	"	15000	-	6.5	340	2.6
4.7	550	1.3	287.7	"	"	15000	-	5.7	455	1.55
4.5	490	2.2	302.1	"	"	15000	-	5.4	410	2.6
3.8	580	1.85	356.8	"	"	15000	-	4.6	480	2.3
3.1	710	1.4	446.8	"	"	15000	-	3.7	600	1.65
2.6	850	1.3	520.8	"	"	15000	-	3.2	690	1.6
2.3	930	0.98	612.1	"	"	15000	-	2.7	790	1.15

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

P = 0.55 kW



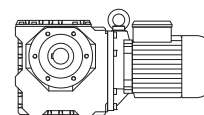
50 Hz			i	Typ	m kg	F <sub>RN</sub> N	F <sub>RV</sub> N	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
305	15.1	2.6	4.60	BS03-../D08MA4	10	1070	-	370	12.4	3.2
235	19.6	2.2	6.00	"	"	1170	-	280	16.5	2.7
175	25.5	1.9	8.00	"	"	1320	-	210	21.5	2.2
140	31.5	1.65	10.00	"	"	1450	-	168	26	2.0
104	39	1.4	13.50	"	"	1600	-	125	32.5	1.7
74	53	1.05	19.00	"	"	1950	-	89	44.5	1.25
56	64	0.86	25.00	"	"	1950	-	68	53	1.05
210	20	2.8	6.67	BS06-../D08MA4	16	1550	-	255	16.6	3.4
157	27	2.3	8.93	"	"	1710	-	189	22.5	2.8
131	32	2.0	10.73	"	"	1850	-	157	27	2.4
100	42.5	1.6	14.07	"	"	2200	-	120	35	1.95
85	49	1.45	16.56	"	"	2400	-	102	41	1.75
71	59	1.25	19.82	"	"	2500	-	85	49	1.55
58	72	1.05	24.25	"	"	2600	-	70	60	1.3
54	71	1.1	26.21	"	"	3000	-	65	58	1.35
44.5	86	0.93	31.50	"	"	3200	-	54	71	1.15
113	37	2.9	12.49	BS10-../D08MA4	27	2400	-	135	31	3.5
83	50	2.4	16.92	"	"	2700	-	100	42	2.9
65	64	1.95	21.61	"	"	3000	-	78	53	2.4
53	77	1.7	26.42	"	"	3250	-	64	64	2.0
46	78	1.65	30.63	"	"	3550	-	55	65	2.0
42	95	1.4	33.55	"	"	3550	-	51	78	1.75
35.5	110	1.25	39.96	"	"	3800	-	42.5	92	1.5
29.5	133	1.1	47.59	"	"	4050	-	35.5	110	1.3
25	155	0.97	57.12	"	"	4350	-	29.5	131	1.15
23.5	149	1.0	60.74	"	"	4550	-	28	125	1.2
19.5	199	0.8	71.96	"	"	5000	-	23.5	165	0.97
51	80	3.1	27.86	BS20-../D08MA4	37	4450	-	61	67	3.7
46	82	3.0	30.63	"	"	4750	-	55	68	3.7
43	94	2.9	32.87	"	"	4750	-	52	77	3.5
35	108	2.4	40.25	"	"	5300	-	42	90	2.9
33.5	119	2.3	42.08	"	"	5200	-	40	99	2.7
29	135	2.0	48.98	"	"	5500	-	34.5	114	2.4
28	125	2.2	50.44	"	"	5700	-	33.5	105	2.6
24	164	1.7	58.74	"	"	5900	-	29	135	2.1
20	196	1.55	70.30	"	"	6300	-	24	164	1.85
18.5	187	1.45	76.18	"	"	6600	-	22.5	154	1.75
16	215	1.25	88.67	"	"	7000	-	19	182	1.5
13.5	255	1.05	106.3	"	"	7600	-	16	215	1.25
11	315	0.86	127.3	"	"	8000	-	13.5	255	1.05
28	144	3.1	50.04	BS30-../D08MA4	55	5900	-	34	118	3.8
24	168	2.7	58.64	"	"	6900	-	29	139	3.3
20	183	2.6	71.17	"	"	7000	-	24	153	3.1
17	235	1.75	83.48	"	"	6800	-	20.5	197	2.1
15.5	230	2.1	90.59	"	"	7700	-	19	190	2.6
13.5	260	1.95	106.2	"	"	8200	-	16	220	2.3
11.5	310	1.7	125.2	"	"	8700	-	13.5	260	2.0
9.3	375	1.45	151.1	"	"	9500	-	11.5	305	1.75
7.5	460	1.2	186.7	"	"	10000	-	9.0	385	1.4
6.5	530	0.98	216.4	"	"	10000	-	7.8	440	1.2
5.4	640	0.88	261.6	BS30Z-../D08MA4	58	10000	-	6.5	530	1.05
11.5	305	3.2	126.0	BS40-../D08MA4	68	14900	-	13.5	260	3.8
9.5	355	2.7	148.1	"	"	15000	-	11.5	295	3.3
7.9	430	1.9	178.2	"	"	15000	-	9.5	355	2.3
6.4	510	1.55	219.7	"	"	15000	-	7.7	425	1.85
5.7	580	1.55	249.6	BS40Z-../D08MA4	71	15000	-	6.8	485	1.85
4.9	790	0.91	287.7	"	"	15000	-	5.9	650	1.1
4.7	700	1.55	302.1	"	"	15000	-	5.6	590	1.8
4.0	820	1.3	356.8	"	"	15000	-	4.8	680	1.6
3.2	1030	0.96	446.8	"	"	15000	-	3.8	870	1.15
2.7	1220	0.9	520.8	"	"	15000	-	3.3	1000	1.1



# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

**P = 0.75 kW**

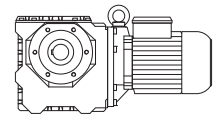


50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
310	20	2.0	4.60	BS03-../DHE08XA4	13	1070	-	375	16.8	2.4
240	26	1.7	6.00	"	"	1170	-	285	22	2.0
178	34.5	1.4	8.00	"	"	1320	-	215	28.5	1.7
142	42	1.25	10.00	"	"	1450	-	171	35	1.5
106	52	1.05	13.50	"	"	1600	-	127	43.5	1.25
215	26.5	2.1	6.67	BS06-../DHE08XA4	18	1550	-	260	22	2.5
160	36	1.7	8.93	"	"	1710	-	192	30	2.1
133	43.5	1.5	10.73	"	"	1850	-	160	36	1.8
101	57	1.2	14.07	"	"	2200	-	122	47.5	1.45
86	66	1.1	16.56	"	"	2400	-	104	55	1.3
72	79	0.95	19.82	"	"	2500	-	87	65	1.15
55	95	0.81	26.21	"	"	3000	-	66	79	0.97
114	50	2.2	12.49	BS10-../DHE08XA4	30	2400	-	137	41.5	2.6
84	68	1.75	16.92	"	"	2700	-	102	56	2.1
66	86	1.45	21.61	"	"	3000	-	80	71	1.75
54	103	1.25	26.42	"	"	3250	-	65	85	1.55
46.5	106	1.25	30.63	"	"	3550	-	56	88	1.5
42.5	128	1.05	33.55	"	"	3550	-	51	106	1.25
36	149	0.94	39.96	"	"	3800	-	43	124	1.15
30	179	0.81	47.59	"	"	4050	-	36	149	0.97
84	69	3.2	16.92	BS20-../DHE08XA4	40	3700	-	102	56	3.9
64	90	2.6	22.23	"	"	4100	-	77	75	3.1
51	109	2.3	27.86	"	"	4450	-	62	90	2.8
46.5	110	2.3	30.63	"	"	4750	-	56	92	2.7
43.5	126	2.1	32.87	"	"	4750	-	53	104	2.6
35.5	145	1.8	40.25	"	"	5300	-	42.5	121	2.1
34	160	1.7	42.08	"	"	5200	-	41	132	2.0
28.5	168	1.6	50.44	"	"	5700	-	34	141	1.9
24.5	215	1.3	58.74	"	"	5900	-	29.5	182	1.55
20.5	260	1.15	70.30	"	"	6300	-	24.5	215	1.4
19	245	1.1	76.18	"	"	6600	-	22.5	210	1.3
16.5	285	0.95	88.67	"	"	7000	-	19.5	240	1.15
42.5	138	3.0	33.55	BS30-../DHE08XA4	57	5200	-	51	115	3.7
37.5	143	2.9	37.92	"	"	5500	-	45.5	118	3.6
36.5	158	2.7	39.31	"	"	5500	-	44	131	3.3
28.5	193	2.3	50.04	"	"	5900	-	34.5	159	2.8
24.5	225	2.0	58.64	"	"	6900	-	29.5	186	2.5
20	250	1.9	71.17	"	"	7000	-	24.5	200	2.4
17.5	315	1.3	83.48	"	"	6800	-	20.5	265	1.55
16	305	1.6	90.59	"	"	7700	-	19	260	1.9
13.5	360	1.4	106.2	"	"	8200	-	16.5	295	1.75
11.5	420	1.25	125.2	"	"	8700	-	14	345	1.5
9.4	510	1.05	151.1	"	"	9500	-	11.5	415	1.3
7.7	610	0.89	186.7	"	"	10000	-	9.2	510	1.05
20.5	265	2.8	69.60	BS40-../DHE08XA4	70	11800	-	25	220	3.4
16.5	295	3.1	86.33	"	"	12900	-	20	245	3.7
13.5	355	2.7	108.1	"	"	14000	-	16	295	3.2
11.5	415	2.4	126.0	"	"	14900	-	14	340	2.9
9.6	480	2.0	148.1	"	"	15000	-	12	385	2.5
8.0	580	1.4	178.2	"	"	15000	-	9.6	480	1.7
6.5	690	1.15	219.7	"	"	15000	-	7.8	570	1.4
5.7	790	1.15	249.6	BS40Z-../DHE08XA4	74	15000	-	6.9	650	1.4
4.8	940	1.15	302.1	"	"	15000	-	5.7	790	1.35
4.0	1120	0.96	356.8	"	"	15000	-	4.8	940	1.15

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

P = 1.1 kW



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
116	72	1.5	12.49	BS10-../DHE09LA4	36	2400	-	140	60	1.8
86	97	1.25	16.92	"	"	2700	-	103	81	1.5
67	125	1.0	21.61	"	"	3000	-	81	103	1.2
55	148	0.88	26.42	"	"	3250	-	66	124	1.05
47.5	152	0.86	30.63	"	"	3550	-	57	127	1.0
113	75	2.7	12.77	BS20-../DHE09LA4	46	3350	-	137	62	3.2
86	98	2.2	16.92	"	"	3700	-	103	82	2.7
65	130	1.75	22.23	"	"	4100	-	79	107	2.1
52	157	1.6	27.86	"	"	4450	-	63	130	1.9
47.5	159	1.55	30.63	"	"	4750	-	57	132	1.9
44	183	1.5	32.87	"	"	4750	-	53	152	1.8
36	210	1.25	40.25	"	"	5300	-	43.5	173	1.5
34.5	230	1.15	42.08	"	"	5200	-	41.5	192	1.4
29	240	1.15	50.44	"	"	5700	-	34.5	200	1.35
25	315	0.89	58.74	"	"	5900	-	30	260	1.1
69	126	3.0	20.94	BS30-../DHE09LA4	64	4300	-	84	103	3.7
54	161	2.5	27.07	"	"	4750	-	65	134	3.0
47.5	165	2.4	30.63	"	"	5000	-	57	138	2.9
43	200	2.1	33.55	"	"	5200	-	52	165	2.5
38	205	2.0	37.92	"	"	5500	-	46	171	2.5
37	225	1.9	39.31	"	"	5500	-	44.5	191	2.3
29	275	1.65	50.04	"	"	5900	-	35	230	1.95
25	320	1.45	58.64	"	"	6900	-	30	265	1.75
20.5	355	1.35	71.17	"	"	7000	-	24.5	300	1.6
17.5	460	0.89	83.48	"	"	6800	-	21	385	1.05
16	450	1.1	90.59	"	"	7700	-	19.5	370	1.3
14	510	1.0	106.2	"	"	8200	-	16.5	430	1.2
12	590	0.88	125.2	"	"	8700	-	14	510	1.0
30.5	265	3.1	47.69	BS40-../DHE09LA4	77	9600	-	36.5	220	3.8
24	310	2.8	60.38	"	"	11200	-	29	255	3.4
21	385	1.95	69.60	"	"	11800	-	25	320	2.3
20	365	2.4	73.09	"	"	12100	-	24	305	2.9
17	425	2.1	86.33	"	"	12900	-	20.5	350	2.6
13.5	520	1.85	108.1	"	"	14000	-	16.5	425	2.2
11.5	610	1.6	126.0	"	"	14900	-	14	500	1.95
9.8	690	1.4	148.1	"	"	15000	-	12	560	1.75
8.1	840	0.98	178.2	"	"	15000	-	9.8	690	1.2

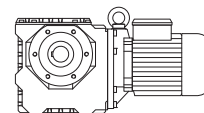
P = 1.5 kW

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
116	98	1.1	12.49	BS10-../DHE09XA4	40	2400	-	140	81	1.35
86	133	0.9	16.92	"	"	2700	-	103	111	1.1
113	102	1.95	12.77	BS20-../DHE09XA4	50	3350	-	137	84	2.4
86	134	1.65	16.92	"	"	3700	-	103	112	1.95
65	178	1.3	22.23	"	"	4100	-	79	146	1.6
52	210	1.2	27.86	"	"	4450	-	63	177	1.4
47.5	215	1.15	30.63	"	"	4750	-	57	180	1.4
44	250	1.1	32.87	"	"	4750	-	53	205	1.3
36	285	0.91	40.25	"	"	5300	-	43.5	235	1.1
34.5	315	0.86	42.08	"	"	5200	-	41.5	260	1.05
29	330	0.82	50.44	"	"	5700	-	34.5	275	0.98
109	109	3.0	13.29	BS30-../DHE09XA4	68	3600	-	131	90	3.7
86	138	2.6	16.92	"	"	3950	-	103	115	3.1
69	172	2.2	20.94	"	"	4300	-	84	141	2.7
54	220	1.8	27.07	"	"	4750	-	65	182	2.2
47.5	225	1.8	30.63	"	"	5000	-	57	188	2.1

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

**P = 1.5 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
43	270	1.55	33.55	<b>BS30-../DHE09XA4</b>	"	5200	-	52	225	1.85
38	280	1.5	37.92	"	"	5500	-	46	230	1.85
37	310	1.4	39.31	"	"	5500	-	44.5	260	1.65
29	380	1.2	50.04	"	"	5900	-	35	315	1.45
25	440	1.05	58.64	"	"	6900	-	30	365	1.25
20.5	485	0.99	71.17	"	"	7000	-	24.5	405	1.2
16	610	0.8	90.59	"	"	7700	-	19.5	500	0.98
43.5	260	3.0	33.35	<b>BS40-../DHE09XA4</b>	81	8300	-	53	215	3.6
38	275	2.8	38.13	"	"	9400	-	46	225	3.5
36	310	2.6	40.37	"	"	9000	-	43.5	260	3.1
30.5	365	2.3	47.69	"	"	9600	-	36.5	305	2.7
24	420	2.0	60.38	"	"	11200	-	29	350	2.5
21	520	1.45	69.60	"	"	11800	-	25	440	1.7
20	500	1.75	73.09	"	"	12100	-	24	415	2.1
17	580	1.55	86.33	"	"	12900	-	20.5	480	1.9
13.5	710	1.35	108.1	"	"	14000	-	16.5	580	1.65
11.5	830	1.2	126.0	"	"	14900	-	14	680	1.45
9.8	950	1.0	148.1	"	"	15000	-	12	770	1.25

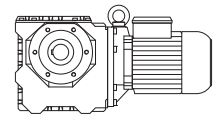
**P = 2.2 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
113	150	1.35	12.77	<b>BS20-../DHE09XA4C</b>	53	3350	-	137	124	1.6
86	197	1.1	16.92	"	"	3700	-	103	165	1.35
65	260	0.88	22.23	"	"	4100	-	79	215	1.05
109	159	2.1	13.29	<b>BS30-../DHE09XA4C</b>	71	3600	-	131	133	2.5
86	200	1.8	16.92	"	"	3950	-	103	169	2.1
69	250	1.5	20.94	"	"	4300	-	84	205	1.85
54	320	1.25	27.07	"	"	4750	-	65	265	1.5
47.5	330	1.2	30.63	"	"	5000	-	57	275	1.45
43	400	1.05	33.55	"	"	5200	-	52	330	1.25
38	410	1.0	37.92	"	"	5500	-	46	340	1.25
37	455	0.95	39.31	"	"	5500	-	44.5	380	1.15
29	550	0.82	50.04	"	"	5900	-	35	460	0.98
86	205	3.3	16.92	<b>BS40-../DHE09XA4C</b>	84	6400	-	103	173	3.9
69	245	2.9	21.06	"	"	6900	-	83	205	3.5
56	305	2.4	26.18	"	"	7500	-	67	255	2.9
47.5	325	2.3	30.63	"	"	8700	-	57	270	2.8
43.5	385	2.0	33.35	"	"	8300	-	53	315	2.5
38	400	1.95	38.13	"	"	9400	-	46	330	2.4
36	460	1.75	40.37	"	"	9000	-	43.5	380	2.1
30.5	530	1.55	47.69	"	"	9600	-	36.5	445	1.85
24	620	1.4	60.38	"	"	11200	-	29	510	1.7
21	770	0.97	69.60	"	"	11800	-	25	640	1.15
20	730	1.2	73.09	"	"	12100	-	24	610	1.45
17	850	1.05	86.33	"	"	12900	-	20.5	700	1.3
13.5	1040	0.91	108.1	"	"	14000	-	16.5	850	1.1
11.5	1220	0.8	126.0	"	"	14900	-	14	1000	0.98

# Schnecken-Getriebemotoren Reihe BS

## Auswahl - Schneckengetriebemotoren DHE - IE2

**P = 3 kW**



50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
109	215	1.55	13.29	BS30-../DHE11MA4	77	3600	-	131	181	1.85
86	275	1.3	16.92	"	"	3950	-	103	230	1.55
69	340	1.1	20.94	"	"	4300	-	84	280	1.35
54	440	0.91	27.07	"	"	4750	-	65	365	1.1
47.5	450	0.89	30.63	"	"	5000	-	57	375	1.05
111	215	2.9	13.03	BS40-../DHE11MA4	95	5800	-	134	181	3.4
86	280	2.4	16.92	"	"	6400	-	103	235	2.9
69	340	2.1	21.06	"	"	6900	-	83	280	2.5
56	415	1.8	26.18	"	"	7500	-	67	350	2.1
47.5	445	1.7	30.63	"	"	8700	-	57	370	2.0
43.5	520	1.5	33.35	"	"	8300	-	53	430	1.8
38	550	1.4	38.13	"	"	9400	-	46	450	1.75
36	620	1.3	40.37	"	"	9000	-	43.5	520	1.55
30.5	730	1.15	47.69	"	"	9600	-	36.5	610	1.35
24	840	1.0	60.38	"	"	11200	-	29	700	1.25
20	1000	0.88	73.09	"	"	12100	-	24	830	1.05

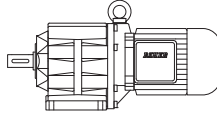
**P = 4 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
109	290	1.15	13.29	BS30-../DHE11LA4	89	3600	-	131	240	1.4
86	365	0.99	16.92	"	"	3950	-	103	305	1.2
69	455	0.84	20.94	"	"	4300	-	84	375	1.0
111	290	2.1	13.03	BS40-../DHE11LA4	107	5800	-	134	240	2.6
86	375	1.8	16.92	"	"	6400	-	103	315	2.1
69	450	1.6	21.06	"	"	6900	-	83	375	1.9
56	550	1.35	26.18	"	"	7500	-	67	465	1.6
47.5	590	1.25	30.63	"	"	8700	-	57	495	1.5
43.5	700	1.1	33.35	"	"	8300	-	53	570	1.35
38	730	1.05	38.13	"	"	9400	-	46	600	1.3
36	830	0.96	40.37	"	"	9000	-	43.5	690	1.15
30.5	970	0.86	47.69	"	"	9600	-	36.5	810	1.0

**P = 5.5 kW**

50 Hz			i	Typ	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
110	395	0.84	13.29	BS30-../DHE11LA4C	93	3600	-	133	325	1.0
113	395	1.55	13.03	BS40-../DHE11LA4C	111	5800	-	136	325	1.9
87	510	1.3	16.92	"	"	6400	-	105	425	1.6
70	610	1.15	21.06	"	"	6900	-	84	510	1.4
56	760	0.97	26.18	"	"	7500	-	68	630	1.15
48	800	0.94	30.63	"	"	8700	-	58	670	1.1
44	950	0.82	33.35	"	"	8300	-	53	790	0.99

# 10



**Seite**

**Maßbilder der Stirnrad-Getriebemotoren**

**337-390**

**Standard**

**Doppelgetriebe**

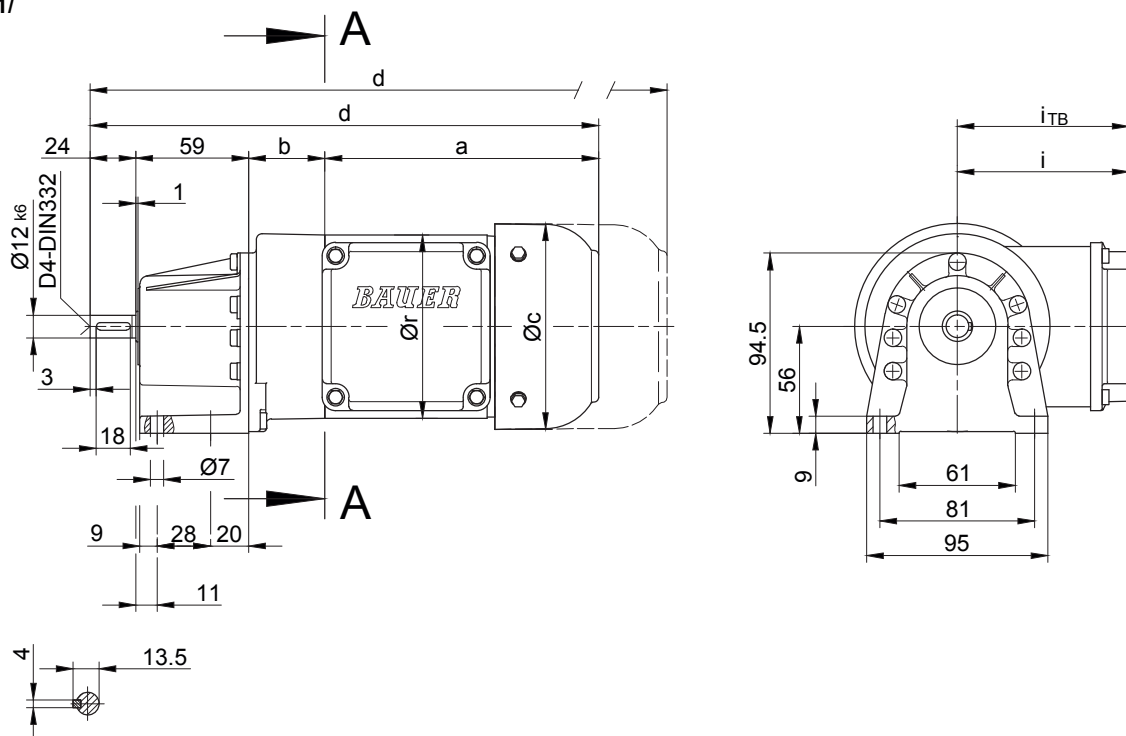
# Stirnrad-Getriebemotoren Reihe BG

## Maßbild

### BG04

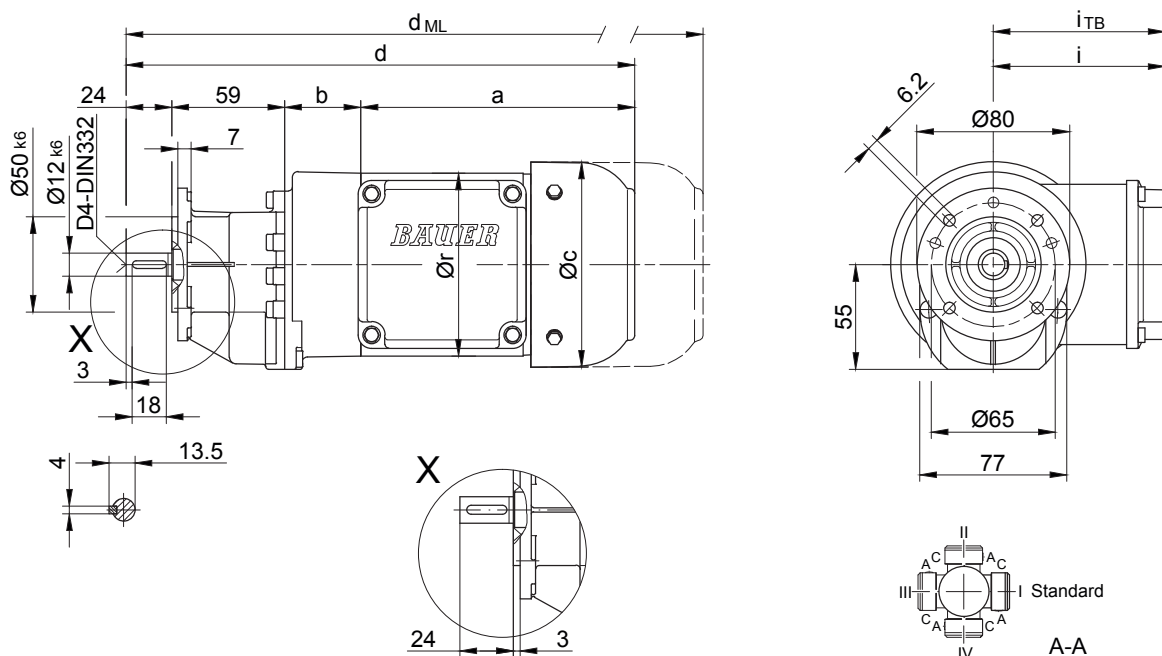
Fussausführung

Code -11/



Flansch mit Durchgangslöchern

Code -31/

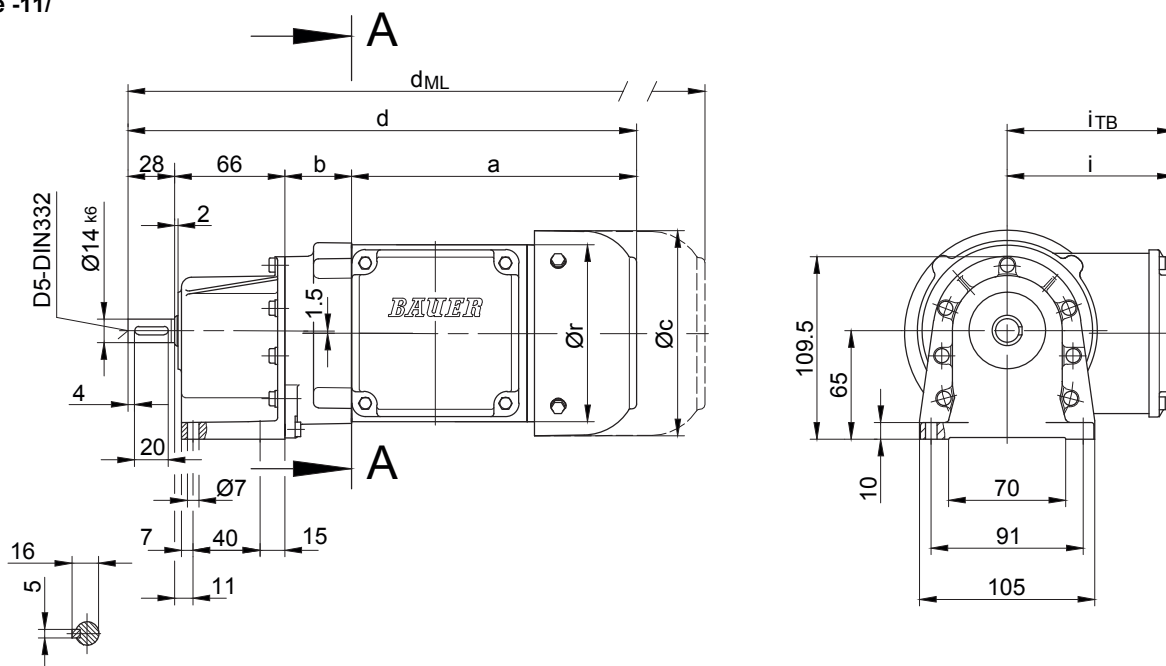


Typ	a	b	c	d	i	r	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E..	G	E.-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG04-../D04..	143	40	111	266	90	96	112	309.5	328.5	371.5	-

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

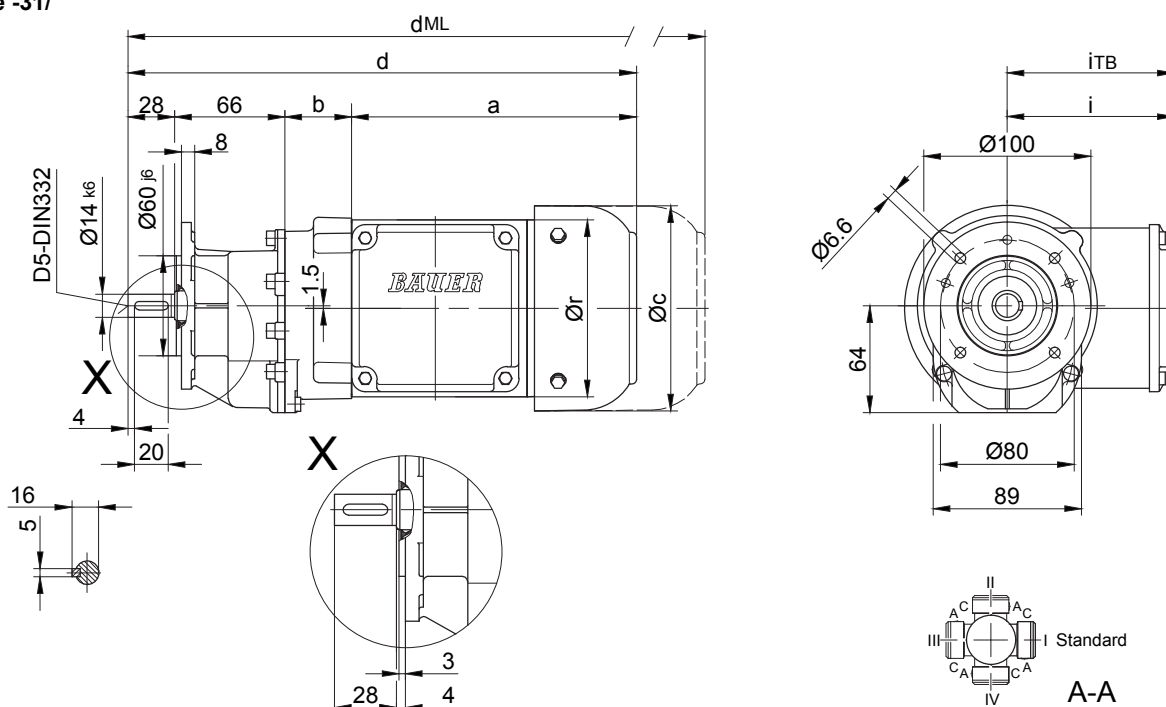
Fussausführung

Code -11/



Flansch mit Durchgangslöchern

Code -31/



10

Typ	a	b	c	d	i	r	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E.. d <sub>ML</sub>	G d <sub>ML</sub>	E.-G d <sub>ML</sub>	RR/RL d <sub>ML</sub>
BG05-../D04..	143	38	111	275	90	96	112	318.5	337.5	380.5	-
BG05-../D05..	170	40	123	304	100	106	117	346	407	448.5	-
BG05-../D06..	170	40	123	304	100	121	119	346	407	448.5	-
BG05-../D07..	190	40	123	324	100	121	119	366	427	468.5	-

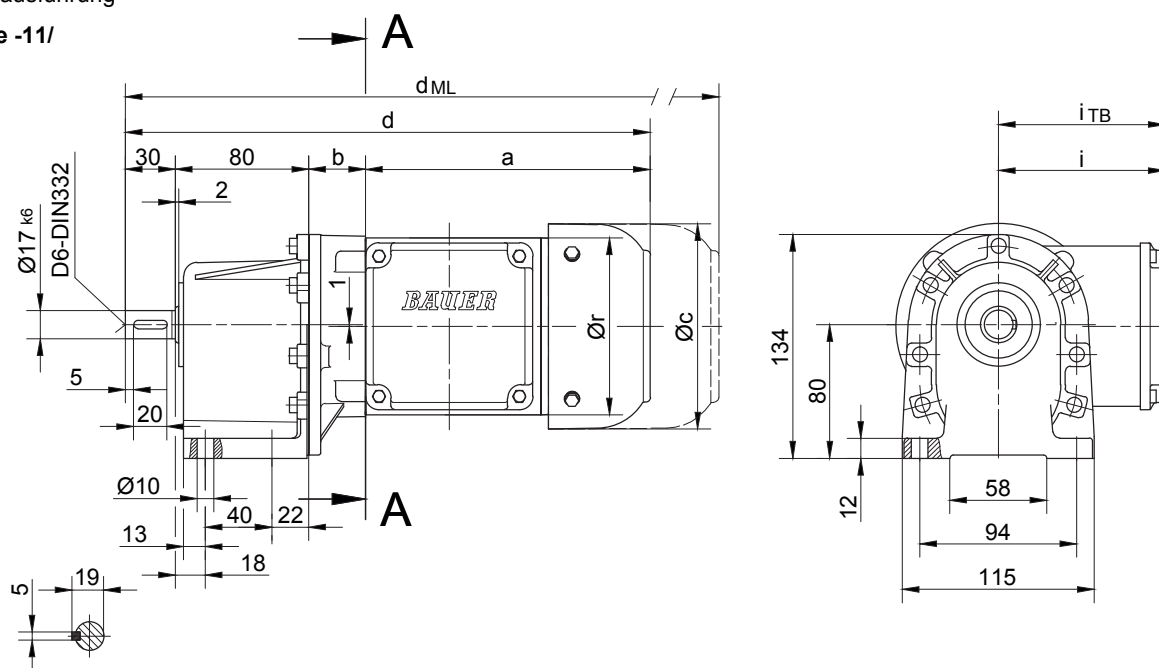
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.





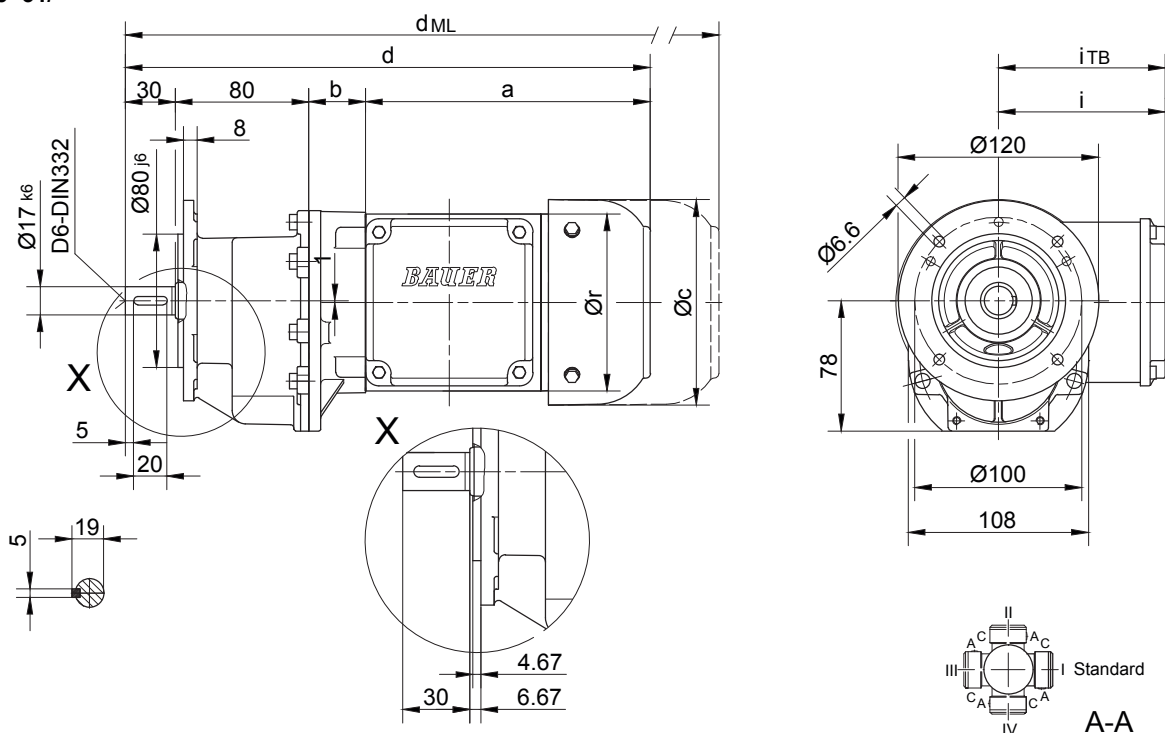
Fussausführung

Code -11/



Flansch mit Durchgangslöchern

Code -31/



10

Typ	a	b	c	d	i	r	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E./ES..	G	E./ES.-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG06-.../D04..	143	32	111	285	90	96	112	328.5	347.5	390.5	-
BG06-.../D05..	170	34	123	314	100	106	117	356	417	458.5	-
BG06-.../D06..	170	34	123	314	100	121	119	356	417	458.5	-
BG06-.../D07..	190	34	123	334	100	121	119	376	437	478.5	-
BG06-.../D..08..	200	78	156	388	115	156	136.5	454	495	561.5	454

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

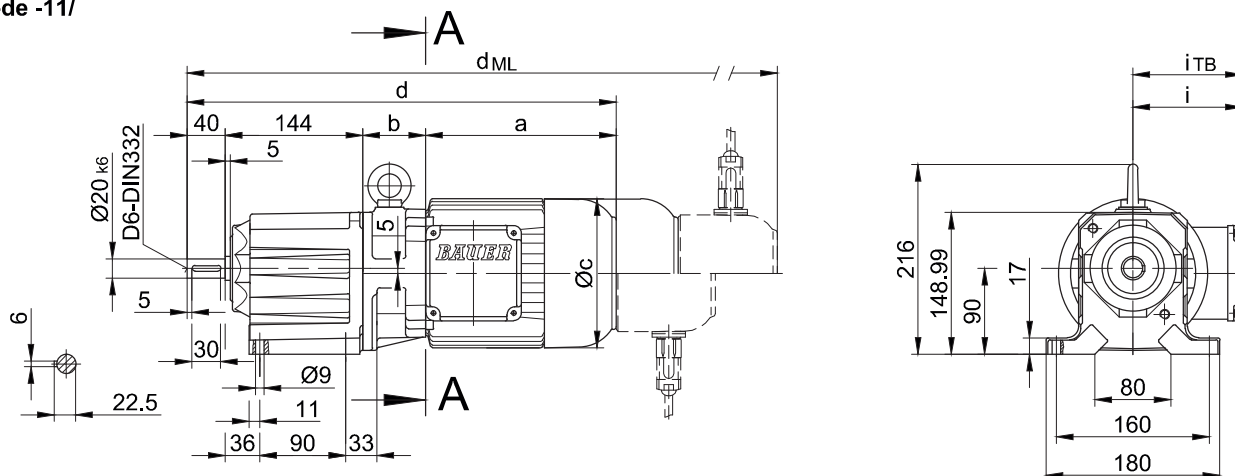
# Stirnrad-Getriebemotoren Reihe BG

## Maßbild

### BG10 - BG10Z

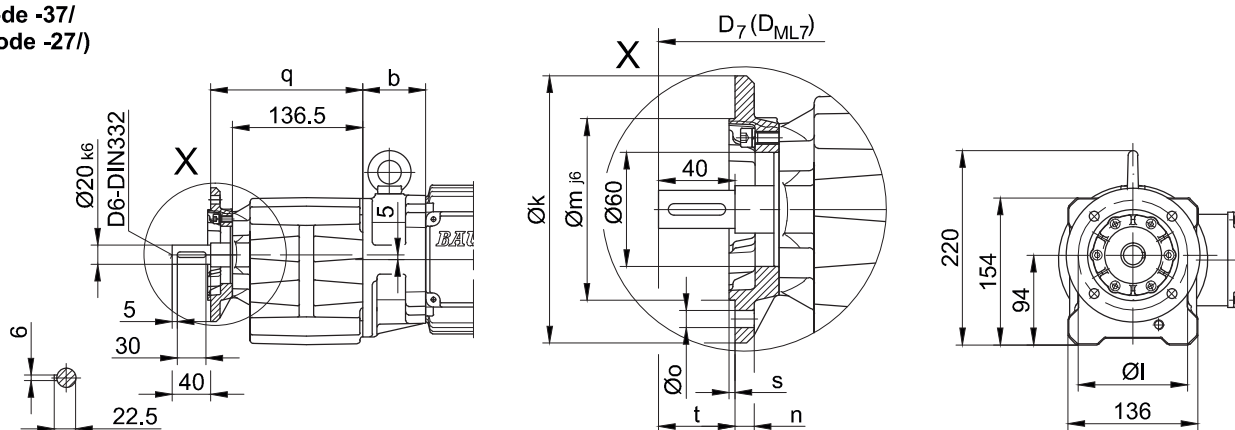
Fussausführung mit Durchgangslöchern

Code -11/



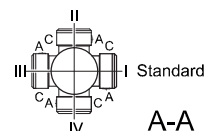
Flansch mit Durchgangslöchern

Code -37/  
(Code -27/)



Flanschmasse

BG10(Z)	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	140	115	95	10	9	159.5	3	40	d+15.5	d <sub>ML</sub> +15.5
klein -27/	120	100	80	8	6.6	154.5	3	45	d+15.5	d <sub>ML</sub> +15.5



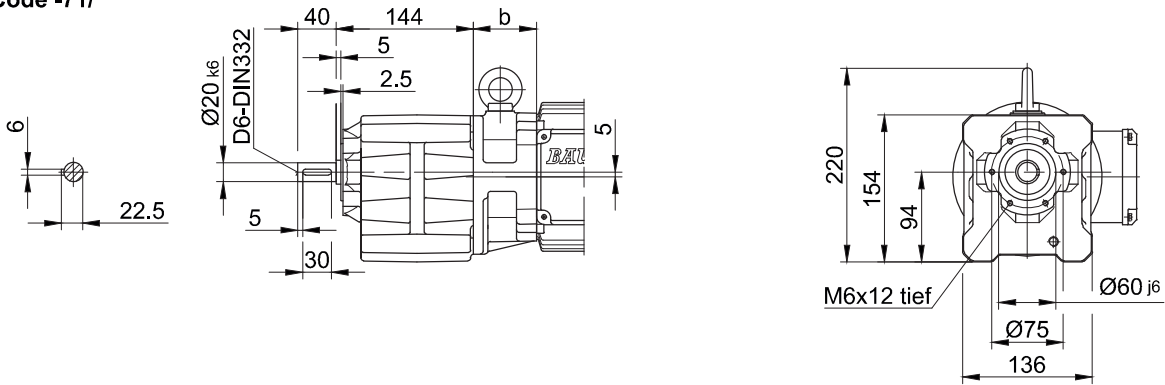
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG10Z-../D04..	143	86	111	413	90	112	456.5	475.5	518.5	-
BG10-../D05..	170	62	123	416	100	117	458	519	560.5	-
BG10Z-../D05..	170	88	123	442	100	117	484	545	586.5	-
BG10-../D06..	170	62	123	416	100	119	458	519	560.5	-
BG10Z-../D06..	170	88	123	442	100	119	484	545	586.5	-
BG10-../D07..	190	62	123	436	100	119	478	539	580.5	-
BG10Z-../D07..	190	88	123	462	100	119	504	565	606.5	-
BG10-../D..08..	200	66	156	450	115	136.5	516	557	623.5	516
BG10Z-../D..08..	200	132	156	516	115	136.5	582	623	689.5	582
BG10-../D..09..	251	80.5	181	515.5	124	158	608.5	622.5	713	608.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### BG10 - BG10Z

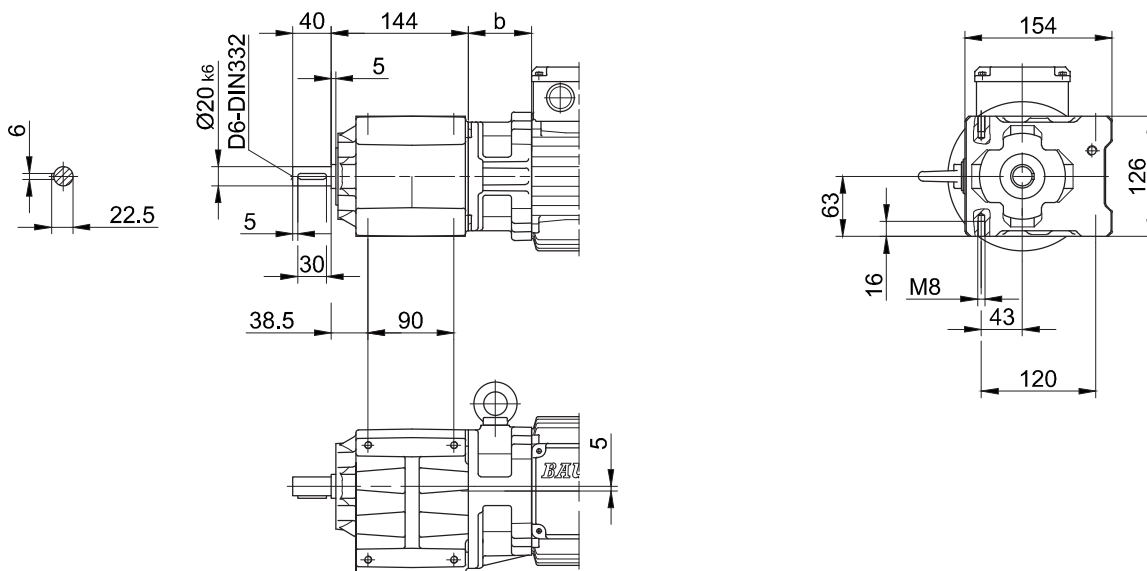
Flansch mit Gewindelöchern

Code -71/



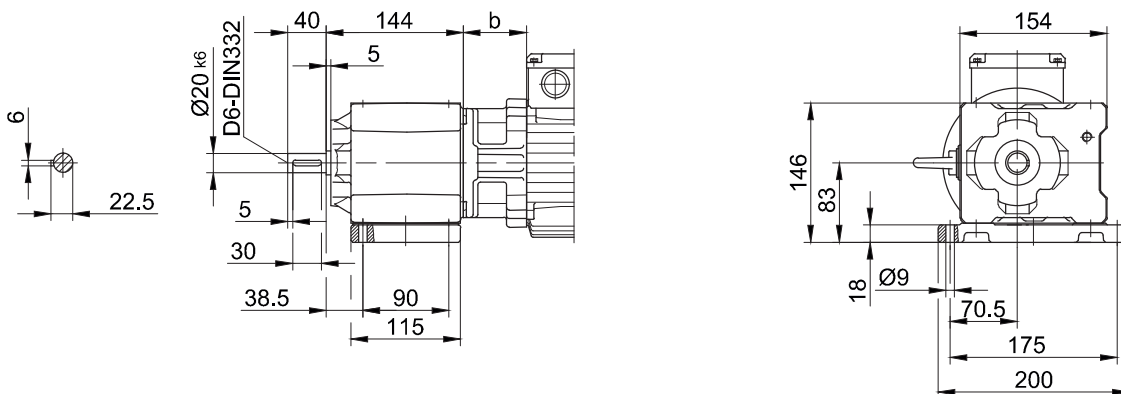
Fuss mit Gewindelöchern links und rechts

Code -61LR/



Fussplatte links

Code -91L/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

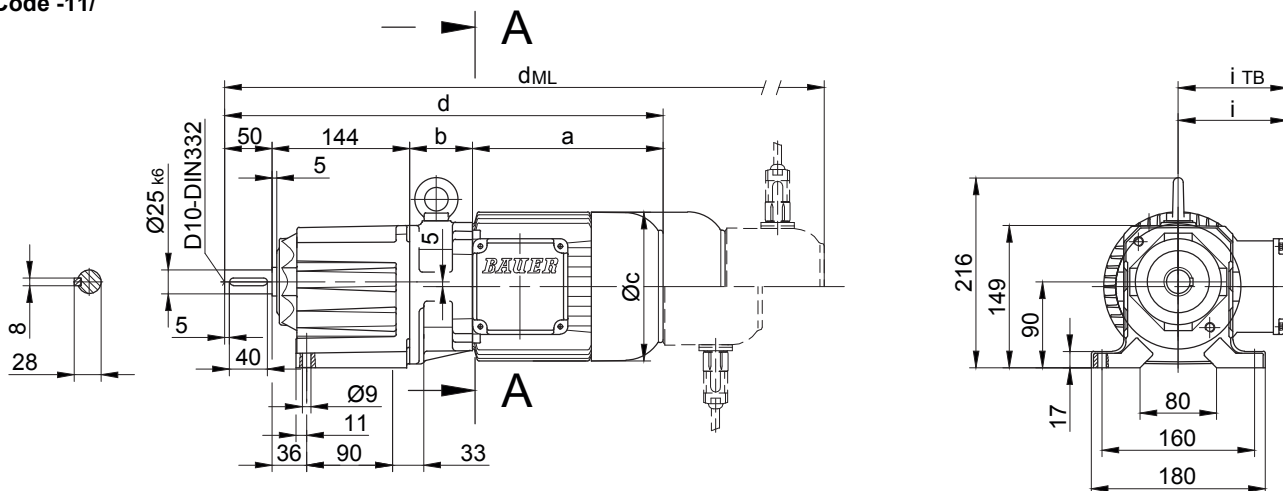
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG10X - BG10XZ

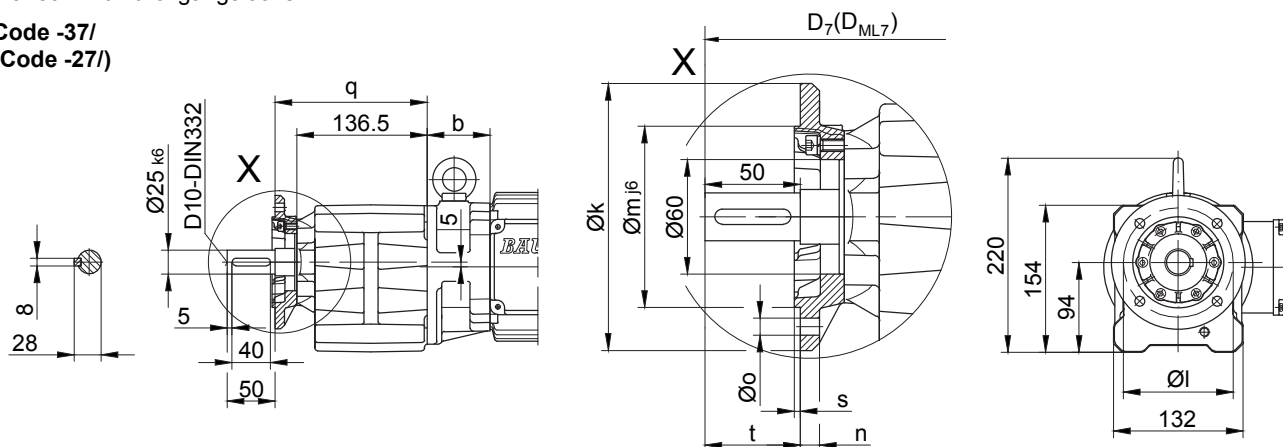
Fussausführung mit Durchgangslöchern

Code -11/



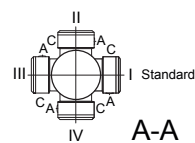
Flansch mit Durchgangslöchern

Code -37/  
(Code -27/)



Flanschmasse

BG10X(Z)	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	Ø140	Ø115	Ø95	10	Ø9	159.5	3	50	d+15.5	d <sub>ML</sub> +15.5
Klein -27/	Ø120	Ø100	Ø80	8	Ø6.6	154.5	3	55	d+15.5	d <sub>ML</sub> +15.5



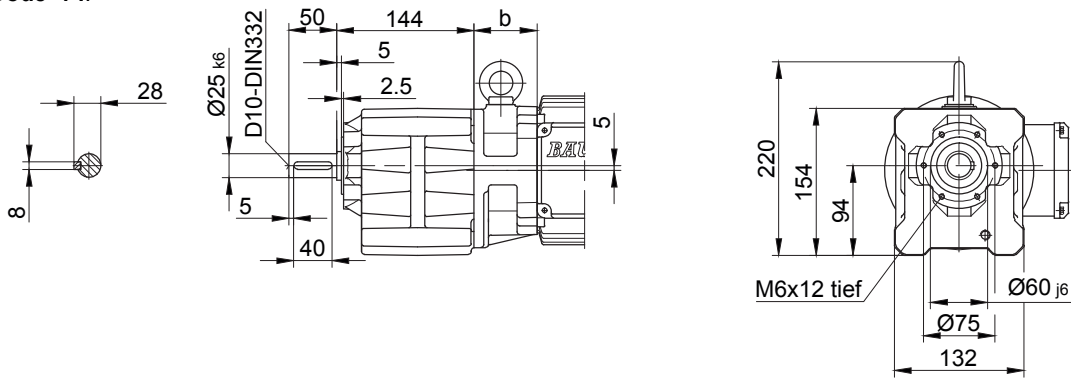
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	ES../ZS..	G	ES../ZS..G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG10XZ-.1/D04..	143	86	111	423	90	112	466.5	485.5	528.5	-
BG10X-.1/D05..	170	62	123	426	100	117	468	529	570.5	-
BG10XZ-.1/D05..	170	88	123	452	100	117	494	555	596.5	-
BG10X-.1/D06..	170	62	123	426	100	119	468	529	570.5	-
BG10XZ-.1/D06..	170	88	123	452	100	119	494	555	596.5	-
BG10X-.1/D07..	190	62	123	446	100	119	488	549	590.5	-
BG10XZ-.1/D07..	190	88	123	472	100	119	514	575	616.5	-
BG10X-.1/D..08..	200	66	156	460	115	136.5	526	567	633.5	526
BG10XZ-.1/D..08..	200	132	156	526	115	136.5	592	633	699.5	592
BG10X-.1/D..09..	251	80.5	176	525.5	124	158	618.5	632.5	723	618.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### BG10X - BG10XZ

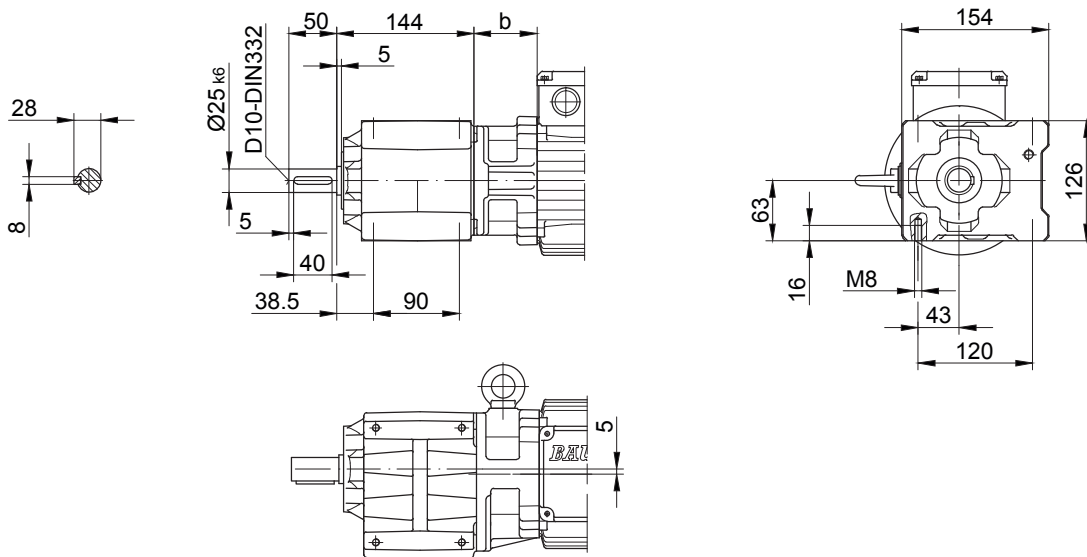
Flansch mit Gewindelöchern

Code -71/



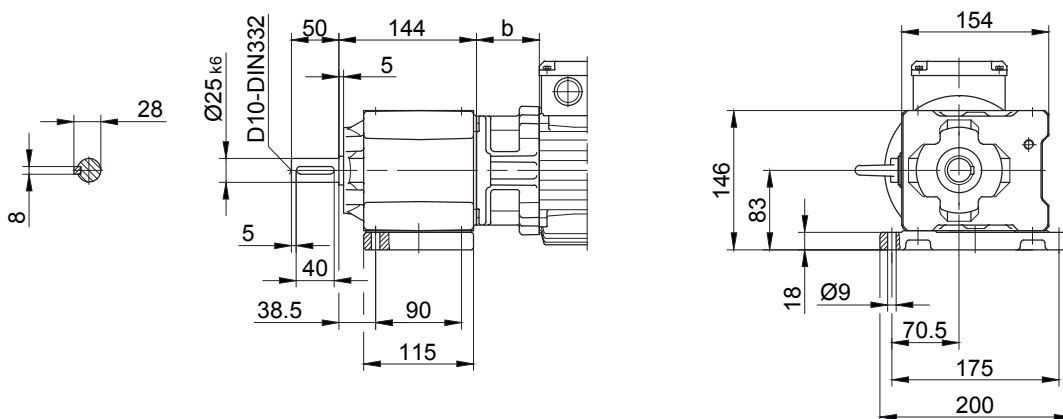
Fuss mit Gewindelöchern links und rechts

Code -61LR/



Fussplatte links

Code -91L/

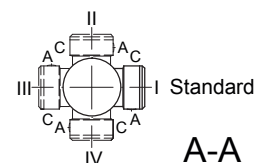
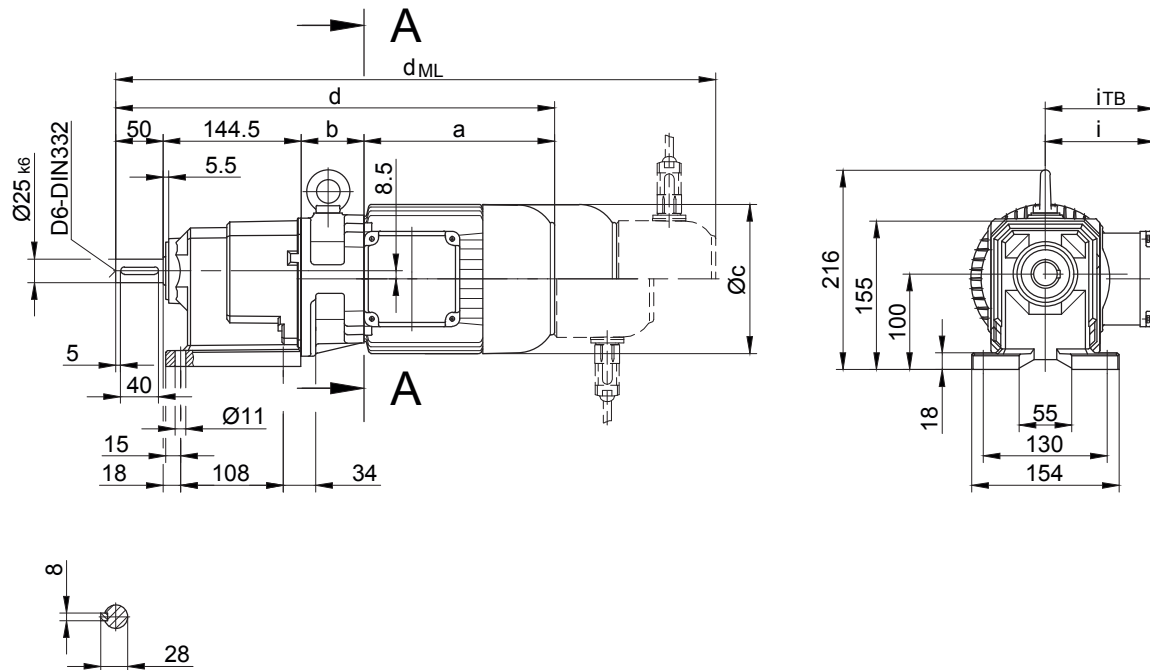


Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



Fussausführung mit Durchgangslöchern

Code -11/



Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	ES../ZS..	G	ES../ZS..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG15-../D05..	170	62	123	426.5	100	129.5	468.5	529.5	571	-
BG15-../D06..	170	62	123	426.5	100	131.5	468.5	529.5	571	-
BG15-../D07..	190	62	123	446.5	100	131.5	488.5	549.5	591	-
BG15-../D..08..	200	66	156	460.5	115	149.5	526.5	567.5	634	527.5
BG15-../D..09..	251	80.5	181	526	124	164	619	633	723.5	619

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

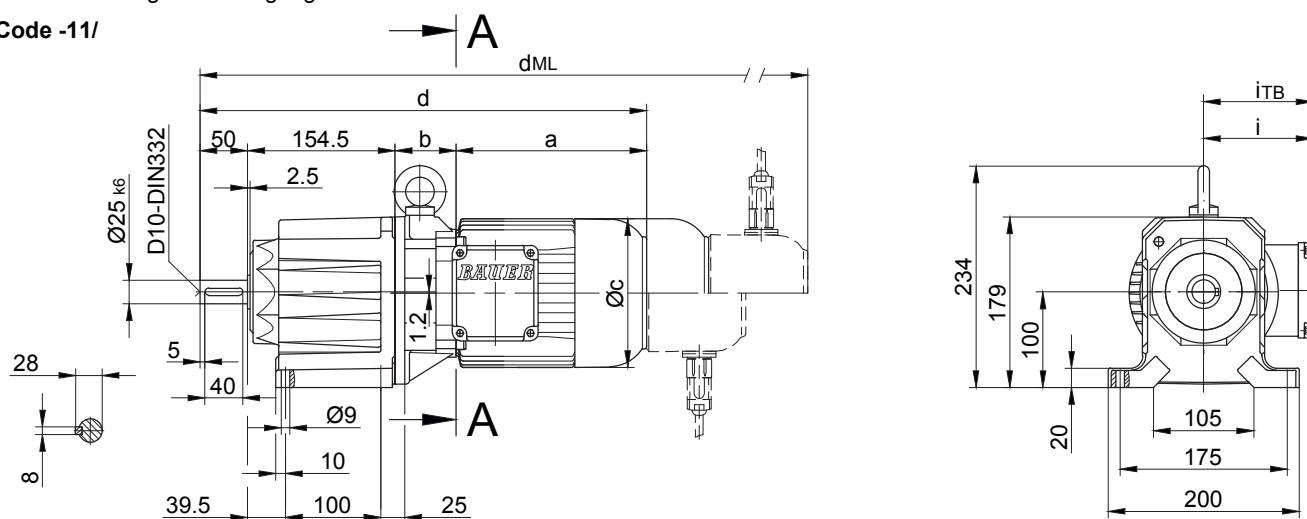
# Stirnrad-Getriebemotoren Reihe BG

## Maßbild

### BG20 - BG20Z

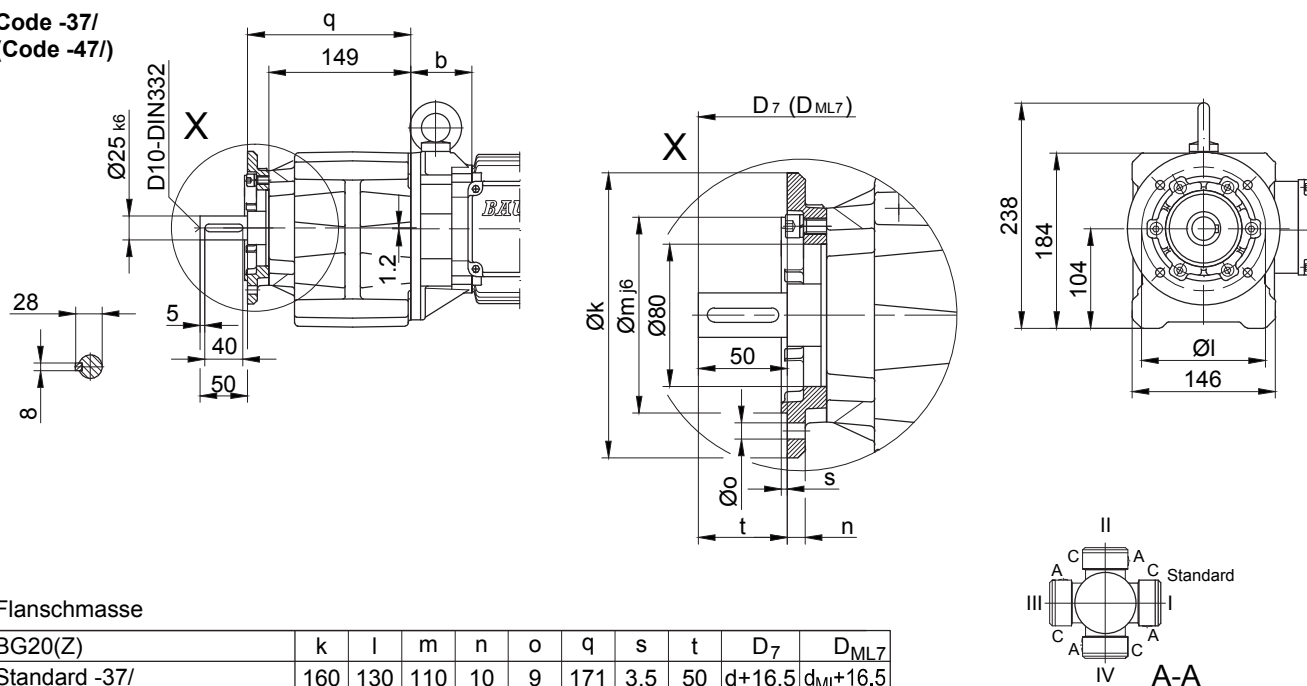
Fussausführung mit Durchgangslöchern

Code -11/



Flansch mit Durchgangslöchern

Code -37/  
(Code -47/)



Flanschmasse

BG20(Z)	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	160	130	110	10	9	171	3.5	50	d+16.5	d <sub>ML</sub> +16.5
gross -47/	200	165	130	12	11	178	3.5	43	d+16.5	d <sub>ML</sub> +16.5

Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
						d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BG20Z-../D04..	143	100	111	447.5	90	112	491	510	553	-
BG20-../D05..	170	60	123	434.5	100	117	476.5	537.5	579	-
BG20Z-../D05..	170	102	123	476.5	100	117	518.5	579.5	621	-
BG20-../D06..	170	60	123	434.5	100	119	476.5	537.5	579	-
BG20Z-../D06..	170	102	123	476.5	100	119	518.5	579.5	621	-
BG20-../D07..	190	60	123	454.5	100	119	496.5	557.5	599	-
BG20Z-../D07..	190	102	123	496.5	100	119	538.5	599.5	641	-
BG20-../D..08..	200	64	156	468.5	115	136.5	534.5	575.5	642	534.5
BG20Z-../D..08..	200	146	156	550.5	115	136.5	616.5	657.5	724	616.5
BG20-../D..09..	251	78.5	181	534	124	158	627	641	731.5	627

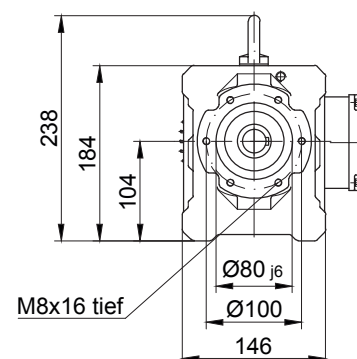
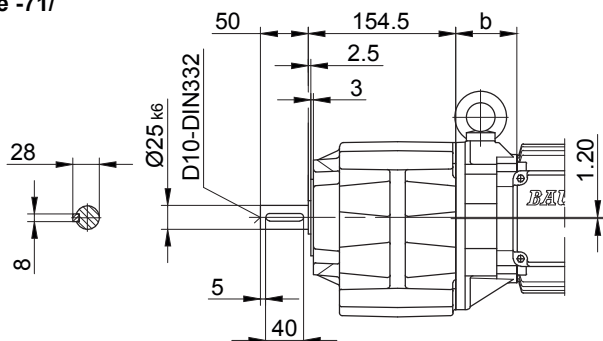
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



### BG20 - BG20Z

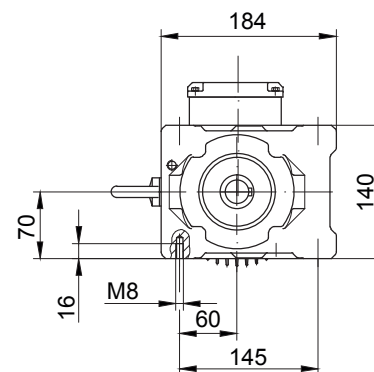
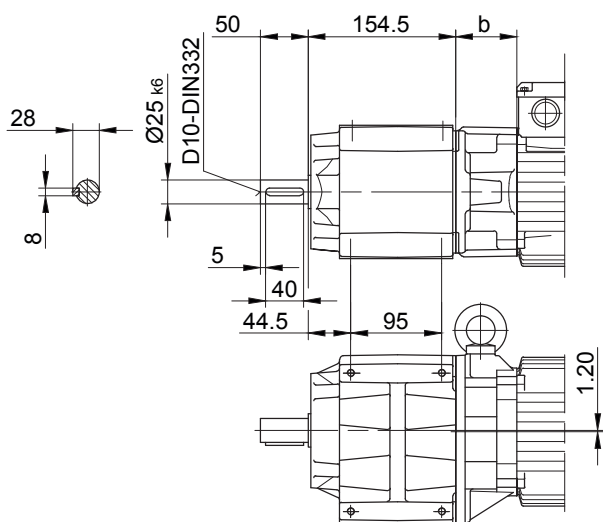
Flansch mit Gewindelöchern

Code -71/



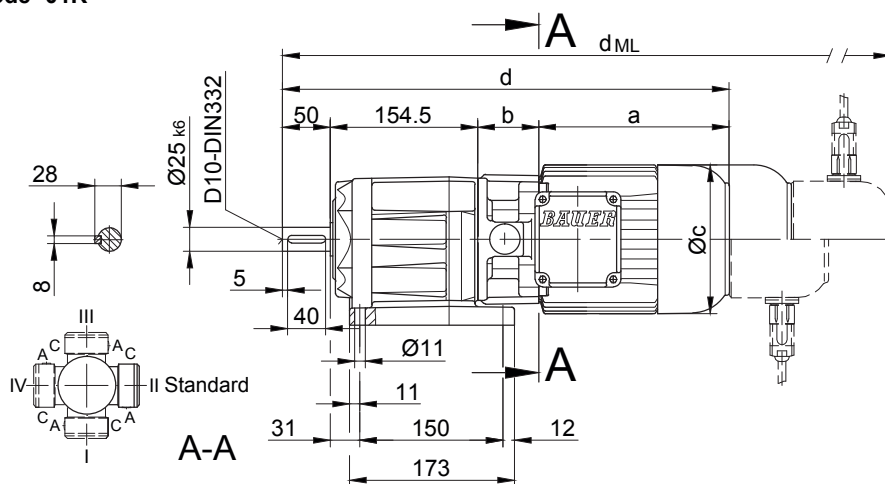
Fuss mit Gewindelöchern links und rechts

Code -61LR/



Fussausführung rechts mit Durchgangslöchern

Code -01R



nur bei BG20-01R !

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

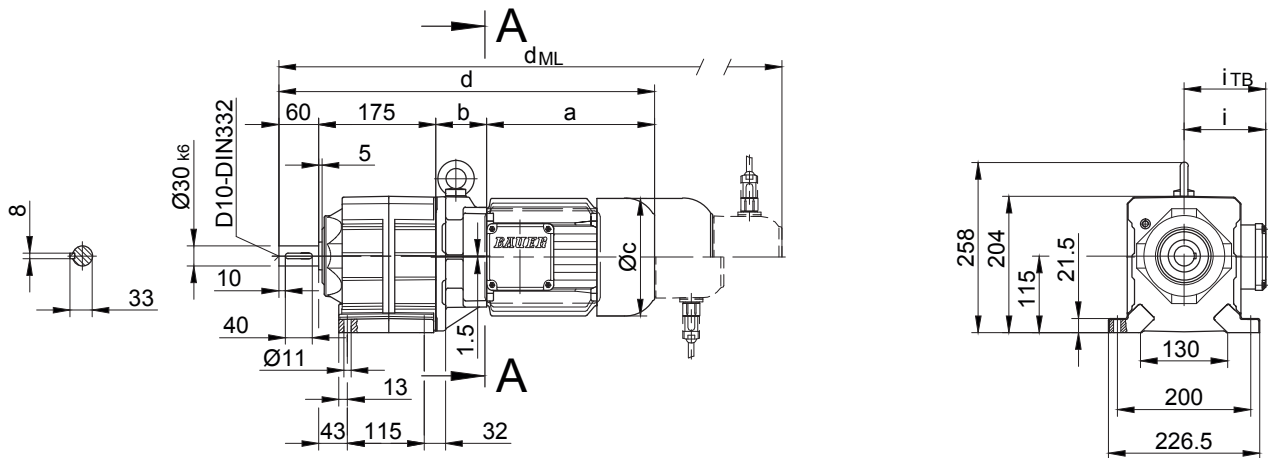
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG30 - BG30Z

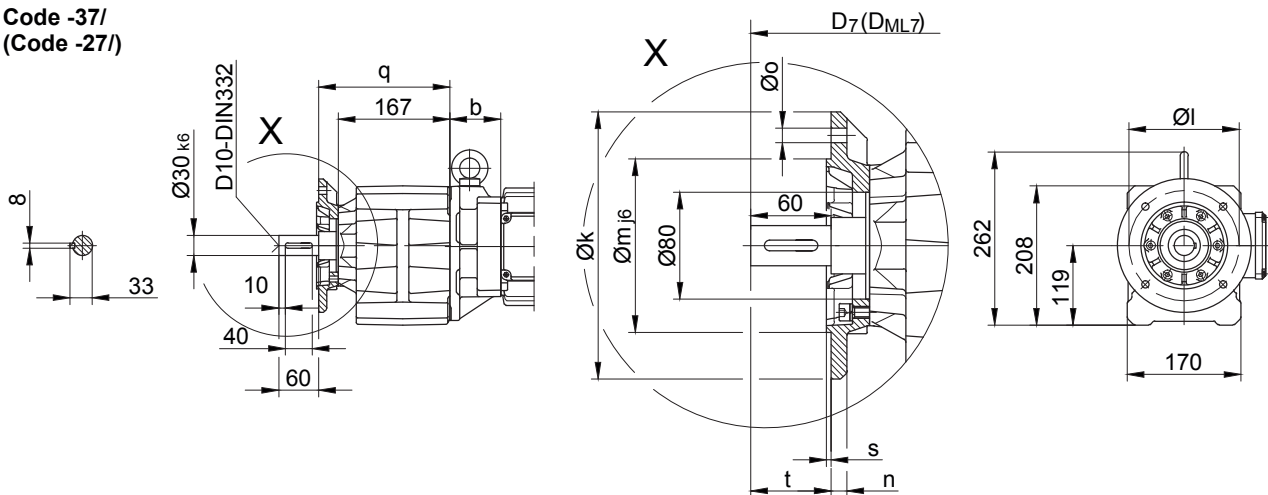
Fussausführung mit Durchgangslöchern

Code -11/



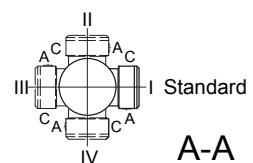
Flansch mit Durchgangslöchern

Code -37/  
(Code -27/)



Flanschmasse

BG30(Z)	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	200	165	130	12	11	196	3.5	60	d+21	d <sub>ML</sub> +21
klein -27/	160	130	110	10	9	189	3.5	67	d+21	d <sub>ML</sub> +21

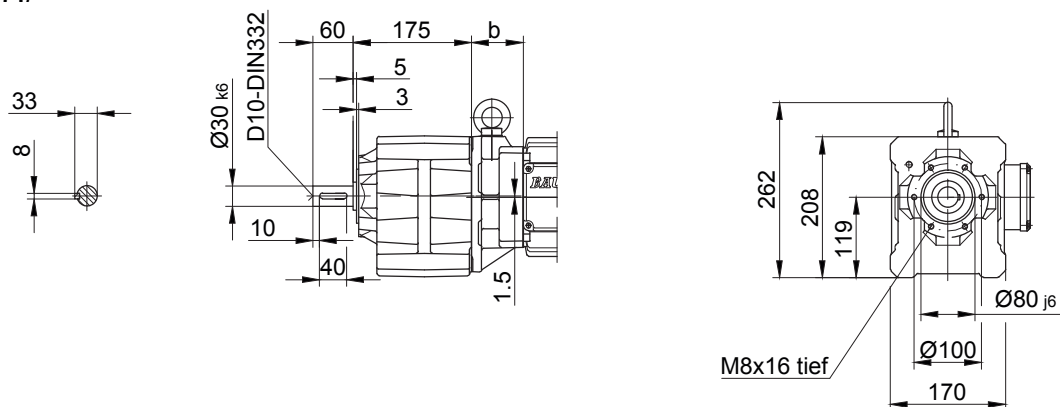


Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E./ES..	G	E./ES..-G	RR/RL
						d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BG30-../D05..	170	58	123	464	100	117	505	566	607.5	-
BG30Z-../D05..	170	133.5	123	538.5	100	117	580.5	641.5	683	-
BG30-../D06..	170	58	123	464	100	119	505	566	607.5	-
BG30Z-../D06..	170	133.5	123	538.5	100	119	580.5	641.5	683	-
BG30-../D07..	190	58	123	483	100	119	525	586	627.5	-
BG30Z-../D07..	190	133.5	123	558.5	100	119	600.5	661.5	703	-
BG30-../D..08..	200	62	156	497	115	136.5	563	604	670.5	563
BG30Z-../D..08..	200	137.5	156	572.5	115	136.5	638.5	679.5	746	638.5
BG30-../D..09..	251	76.5	181	562.5	124	158	655.5	669.5	760	655.5
BG30Z-../D..09..	251	152	181	638	124	158	731	745	835.5	731
BG30-../D..11..	319	83	228	637	181	182	735	744	839.5	735

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

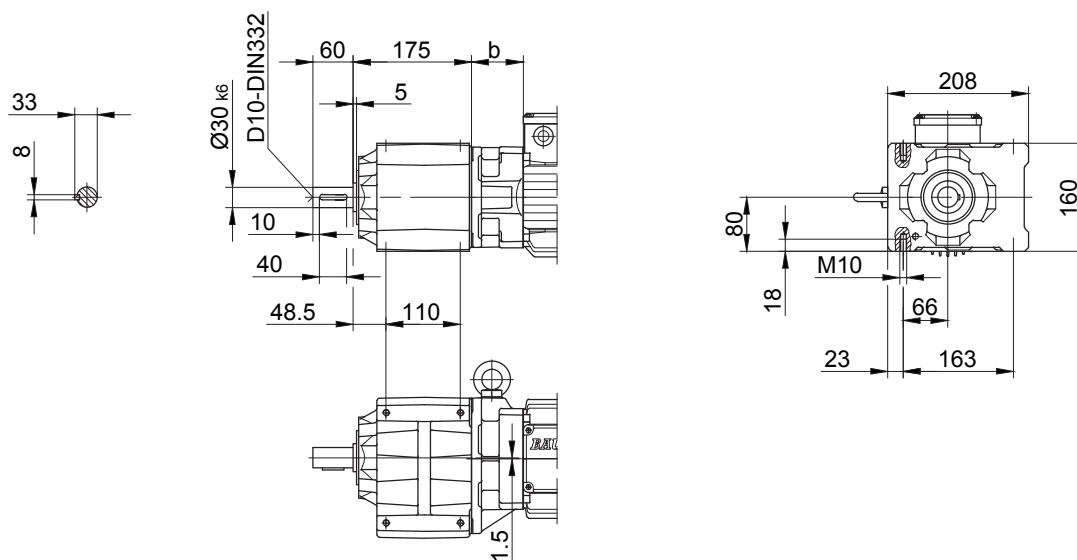
Flansch mit Gewindelöchern

Code -71/



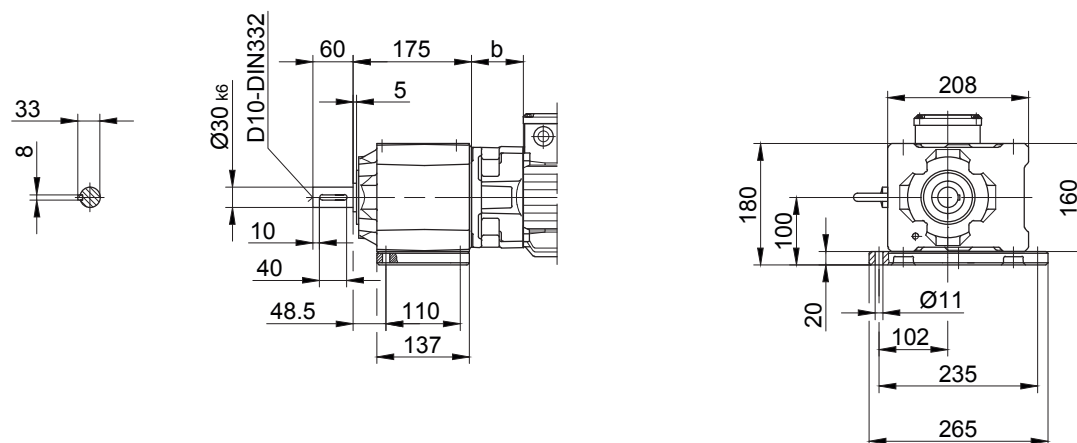
Fuss mit Gewindelöchern links und rechts

Code -61LR/



Fussplatte links

Code -91L/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

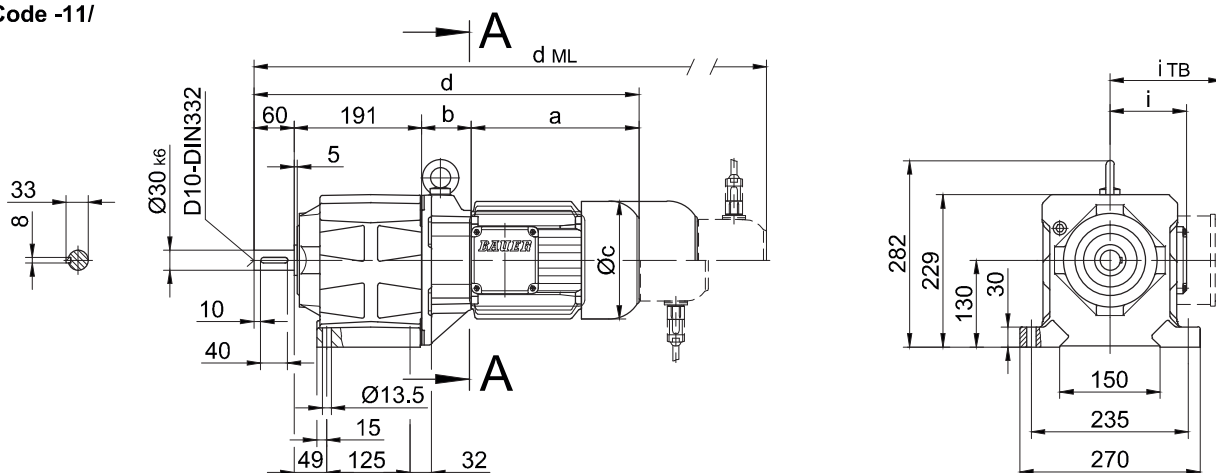
# Stirnrad-Getriebemotoren Reihe BG

## Maßbild

### BG40 - BG40Z

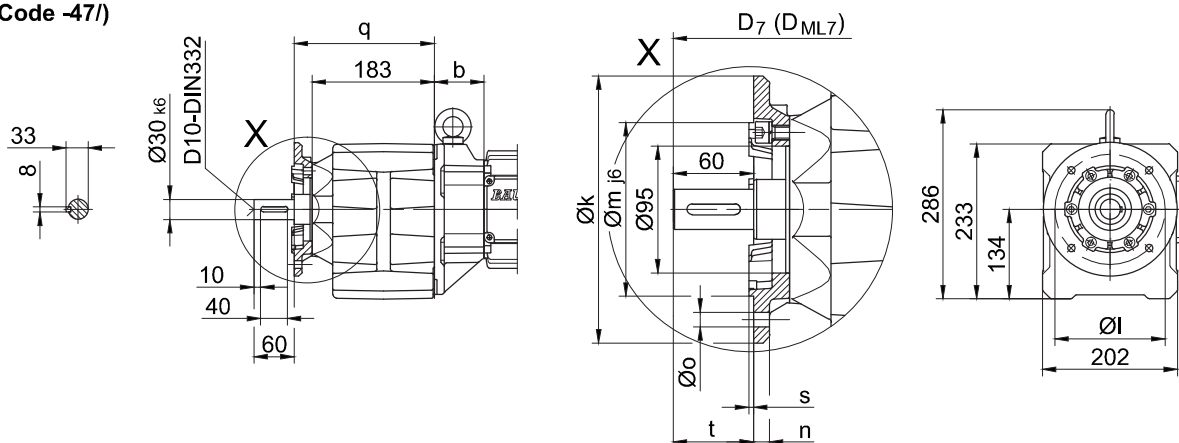
Fuss mit Durchgangslöchern

Code -11/



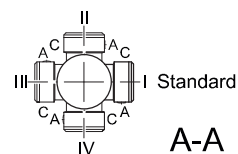
Flansch mit Durchgangslöchern

Code -37/  
(Code -47/)



Flanschmasse

BG40(Z)	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	200	165	130	12	11	210	3.5	60	d+19	d <sub>ML</sub> +19
gross -47/	250	215	180	16	13.5	219	4	51	d+19	d <sub>ML</sub> +19

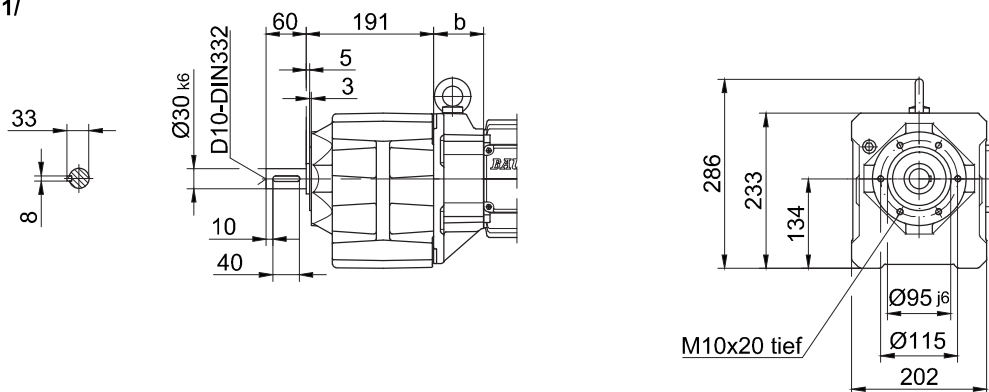


Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E./ES..	G	E./ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG40Z-../D05..	170	138.5	123	559.5	100	117	601.5	662.5	704	-
BG40Z-../D06..	170	138.5	123	559.5	100	119	601.5	662.5	704	-
BG40Z-../D07..	190	138.5	123	579.5	100	119	621.5	682.5	724	-
BG40-../D..08..	200	60	156	511	115	136.5	577	618	684.5	577
BG40Z-../D..08..	200	142.5	156	593.5	115	136.5	659.5	700.5	767	659.5
BG40-../D..09..	251	74.5	181	576.5	124	158	669.5	683.5	774	669.5
BG40Z-../D..09..	251	157	181	659	124	158	752	766	856.5	752
BG40-../D..11..	319	81	228	651	181	181	749	758	853.5	749

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

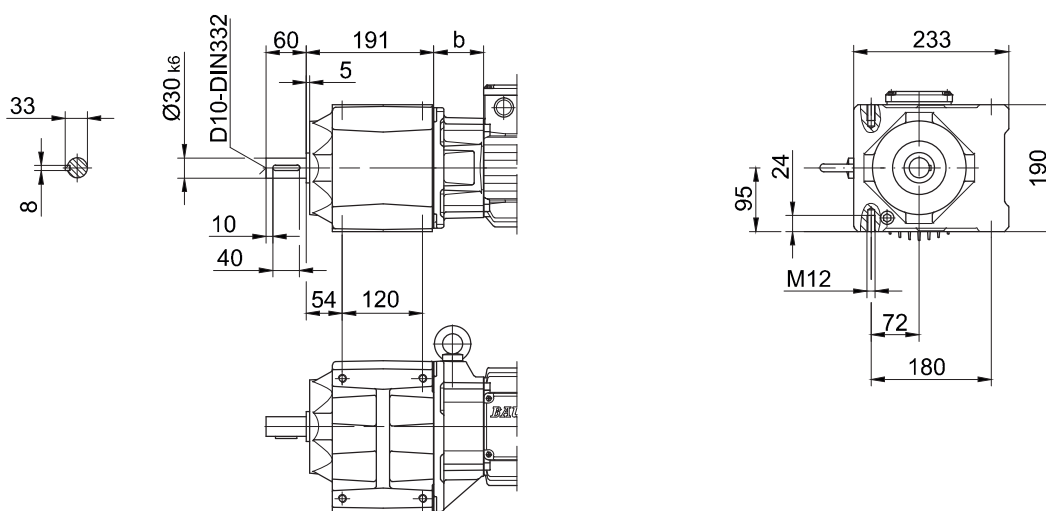
Flansch mit Gewindelöchern

Code -71/



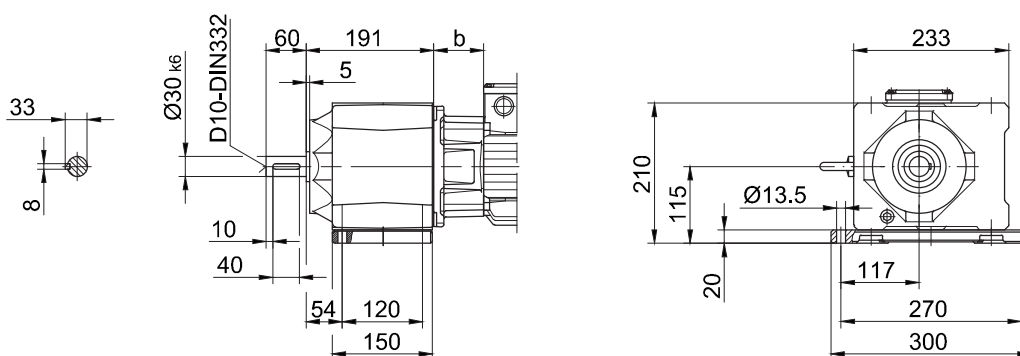
Fuss mit Gewindelöchern links und rechts

Code -61LR/



Fussplatte links

Code -91L/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

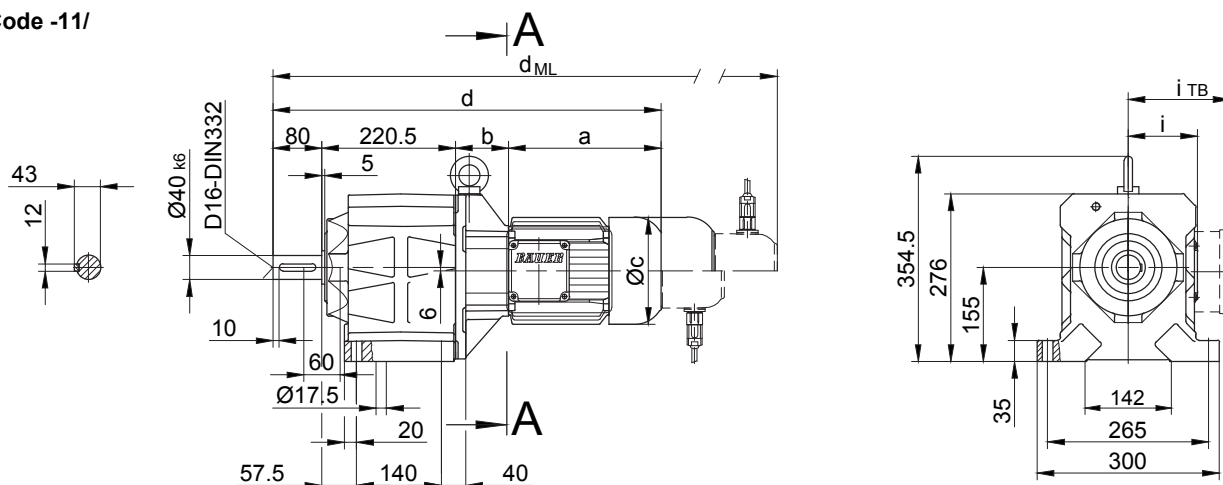
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG50 - BG50Z

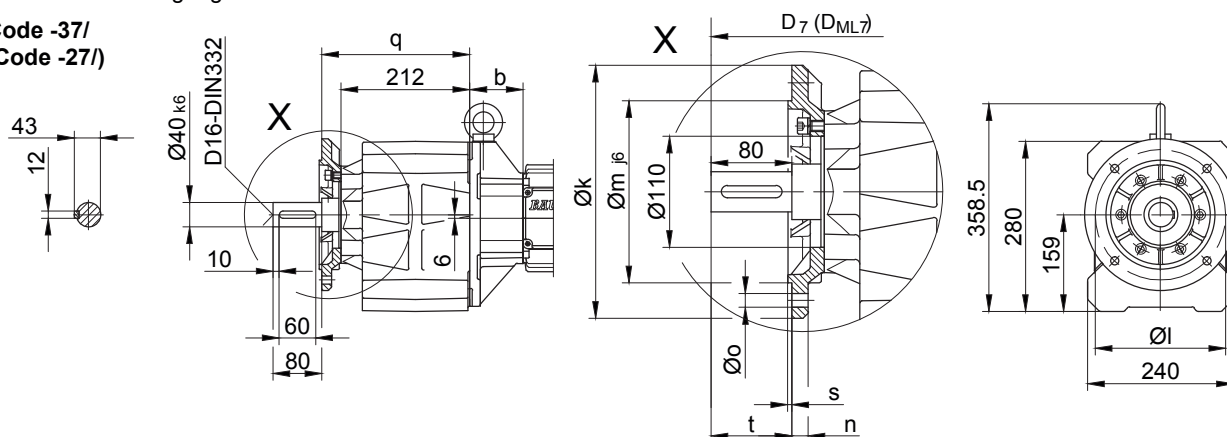
Fussausführung mit Durchgangslöchern

Code -11/



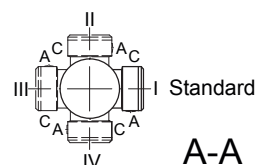
Flansch mit Durchgangslöchern

Code -37/  
(Code -27/)



Flanschmasse

BG50(Z)	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	250	215	180	16	13.5	244	4	80	d+23.5	d <sub>ML</sub> +23.5
klein -27/	200	165	130	12	11	241	3.5	83	d+23.5	d <sub>ML</sub> +23.5

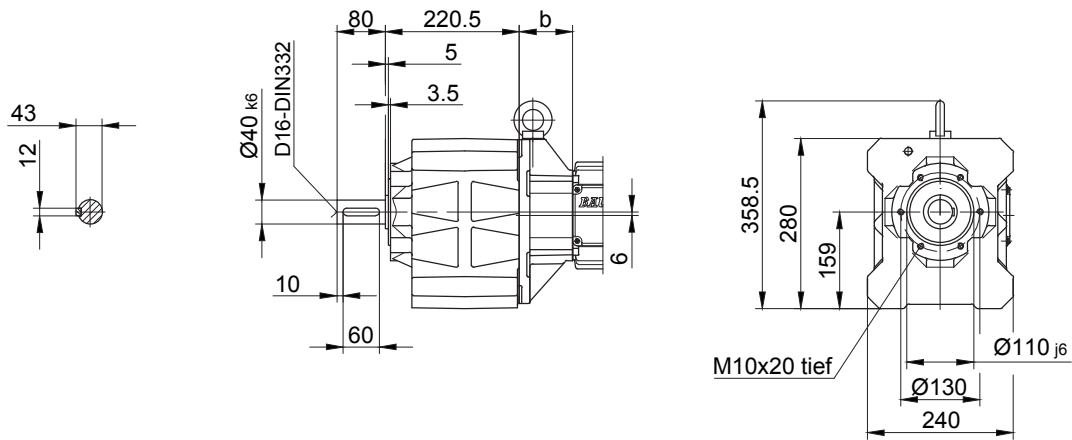


Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG50Z-../D05..	170	155	123	625.5	100	117	667.5	728.5	771	-
BG50Z-../D06..	170	155	123	625.5	100	119	667.5	728.5	771	-
BG50Z-../D07..	190	155	123	645.5	100	119	687.5	748.5	769	-
BG50-../D..08..	200	73	156	573.5	115	136.5	639.5	680.5	746	639.5
BG50Z-../D..08..	200	159	156	659.5	115	136.5	725.5	766.5	832	725.5
BG50-../D..09..	251	87.5	181	639	124	158	732	746	833	732
BG50Z-../D..09..	251	173.5	181	725	124	158	818	832	919	818
BG50-../D..11..	319	94	228	713.5	181	181	811.5	820.5	917	811.5
BG50-../D..13..	393	107	258	800.5	218	218	911.5	907.5	1006	911.5
BG50-../D..16..	429	121	322	850.5	244	244	994.5	958.5	1103	994.5
BG50-../D..18..	528	143	368	971.5	288	288	1120.5	1079.5	1225	1120.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

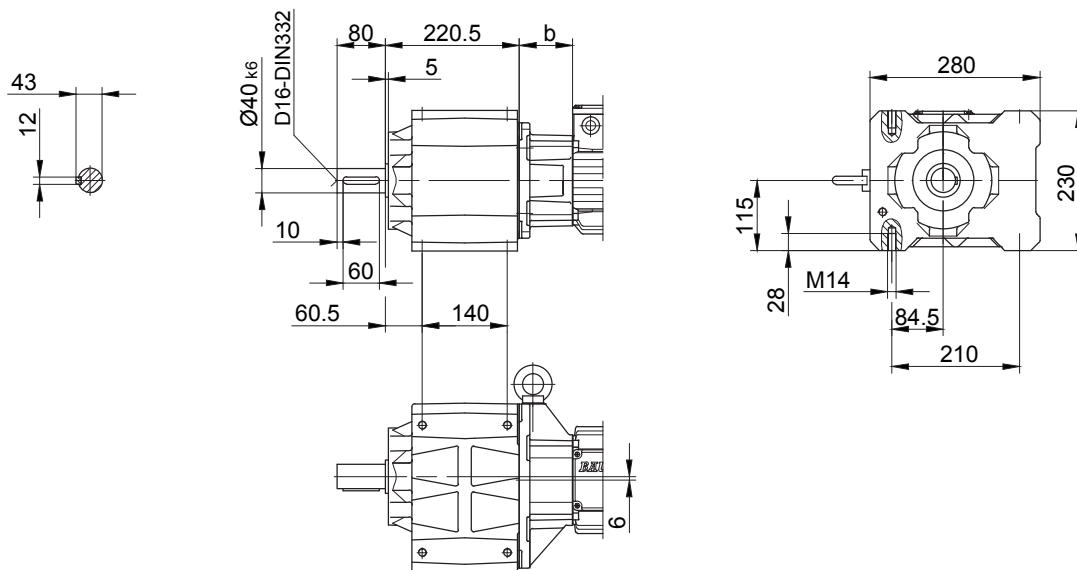
Flansch mit Gewindelöchern

Code -71/



Fuss mit Gewindelöchern links und rechts

Code -61LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

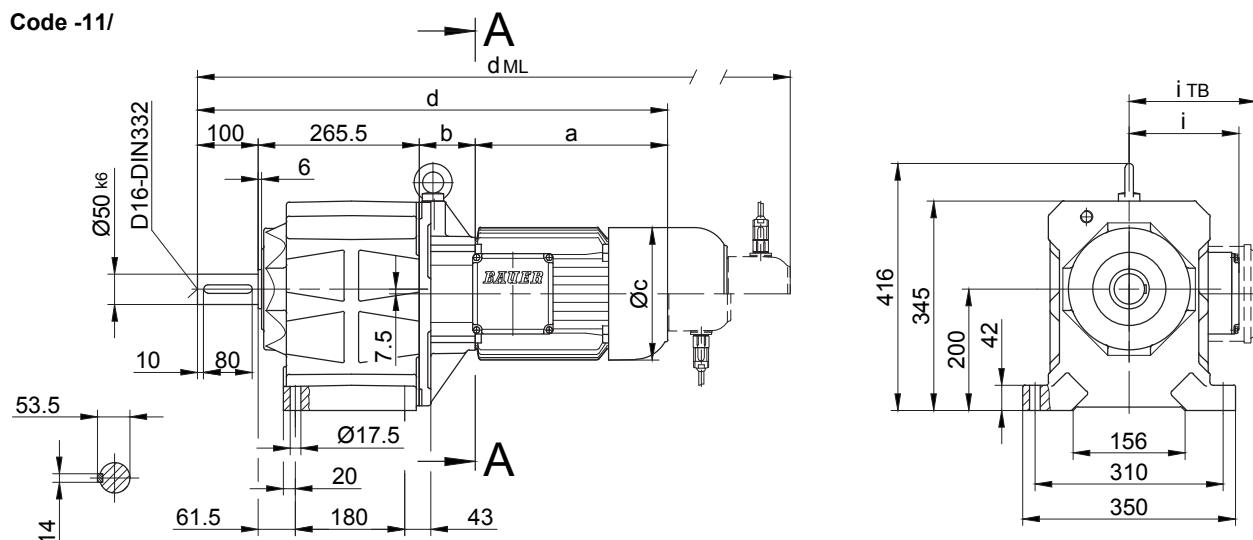
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG60 - BG60Z

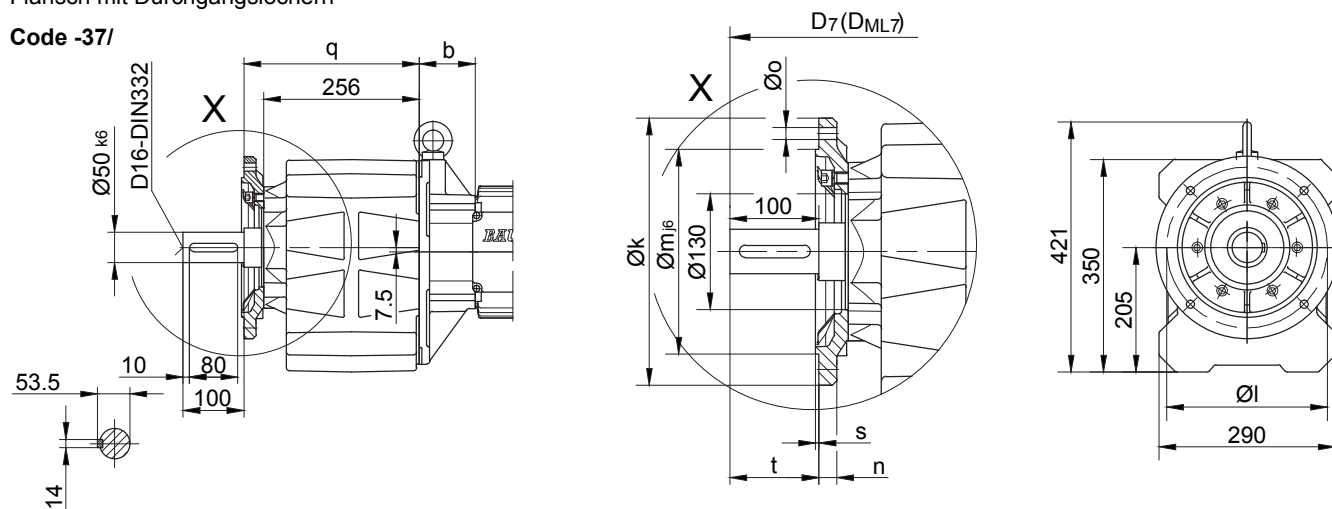
Fussausführung mit Durchgangslöchern

Code -11/



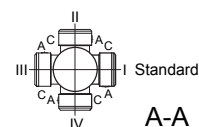
Flansch mit Durchgangslöchern

Code -37/



Flanschmasse

BG60(Z)	k	l	m	n	o	q	s	t	$D_7$	$D_{ML7}$
Standard -37/	300	265	230	20	13.5	289	4	100	$d+23.5$	$d_{ML}+23.5$
klein -27/	250	215	180	16	13.5	286	4	103	$d+23.5$	$d_{ML}+23.5$



Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						$i_{TB}$	ES../ZS..	G	ES../ZS..-G	RR/RL
							$d_{ML}$	$d_{ML}$	$d_{ML}$	$d_{ML}$
BG60Z-../D..08..	200	181	156	746.6	115	136.5	812.5	853.5	920	812.5
BG60-../D..09..	251	85.5	181	702	124	158	795	809	899.5	795
BG60Z-../D..09..	251	195.5	181	812	124	158	905	919	1009.5	905
BG60-../D..11..	319	92	228	776.5	181	181	874.5	883.5	979	874.5
BG60Z-../D..11..	319	202	228	886.5	181	181	984.5	993.5	1089	984.5
BG60-../D..13..	393	105	258	863.5	218	218	974.5	970.5	1079	974.5
BG60-../D..16..	429	119	322	913.5	244	244	1057.5	1021.5	1161.5	1057.5
BG60-../D..18..	528	272	368	1165.5	288	288	1314.5	1314.5	1418.5	1314.5

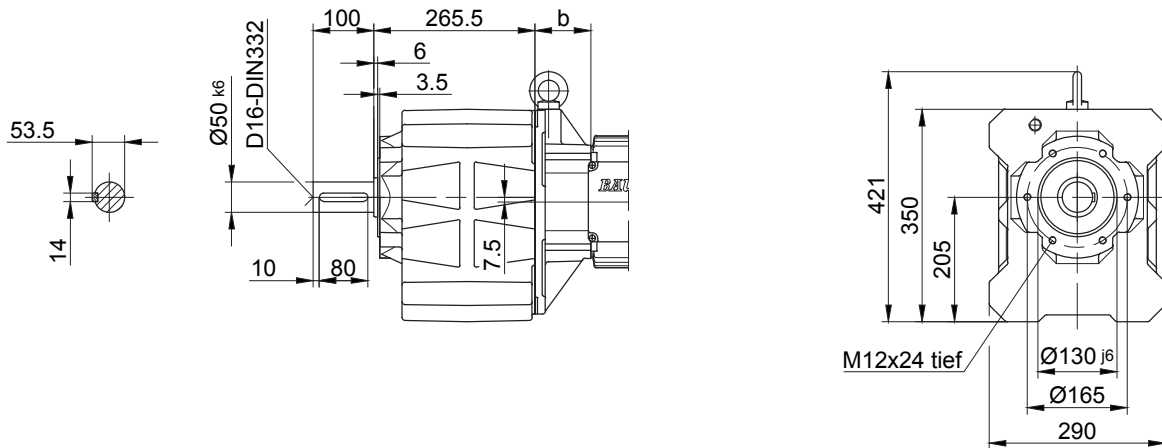
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



### BG60 - BG60Z

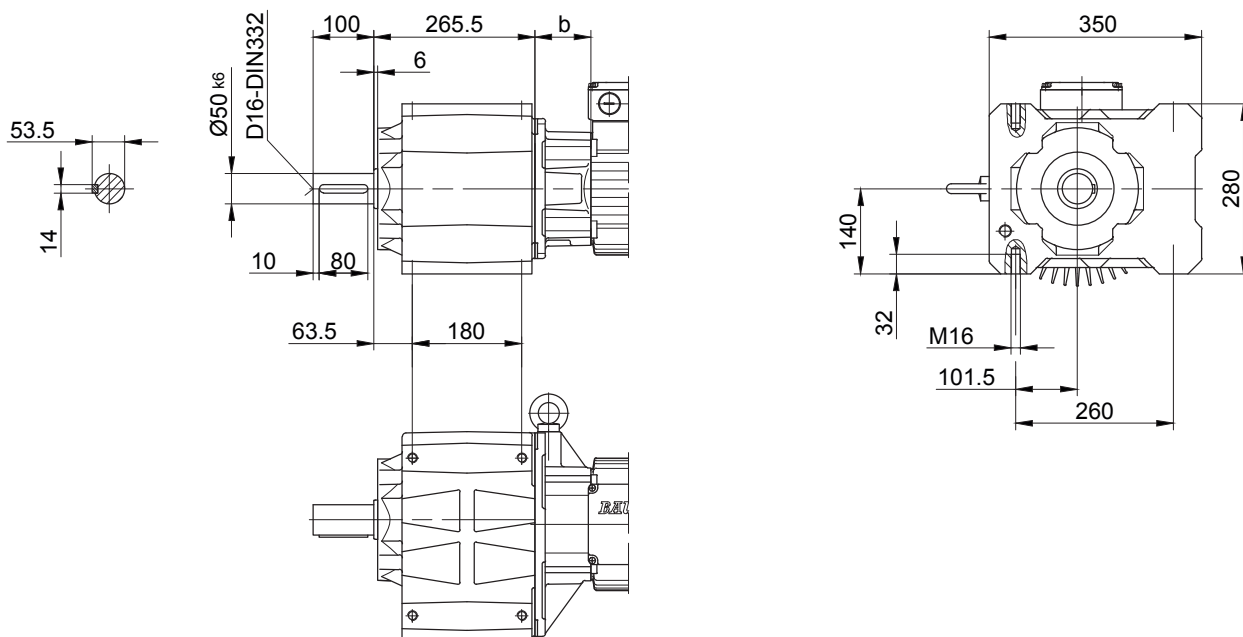
Flansch mit Gewindelöchern

Code -71/



Fuss mit Gewindelöchern links und rechts

Code -61LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

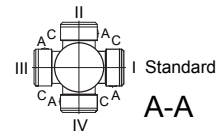
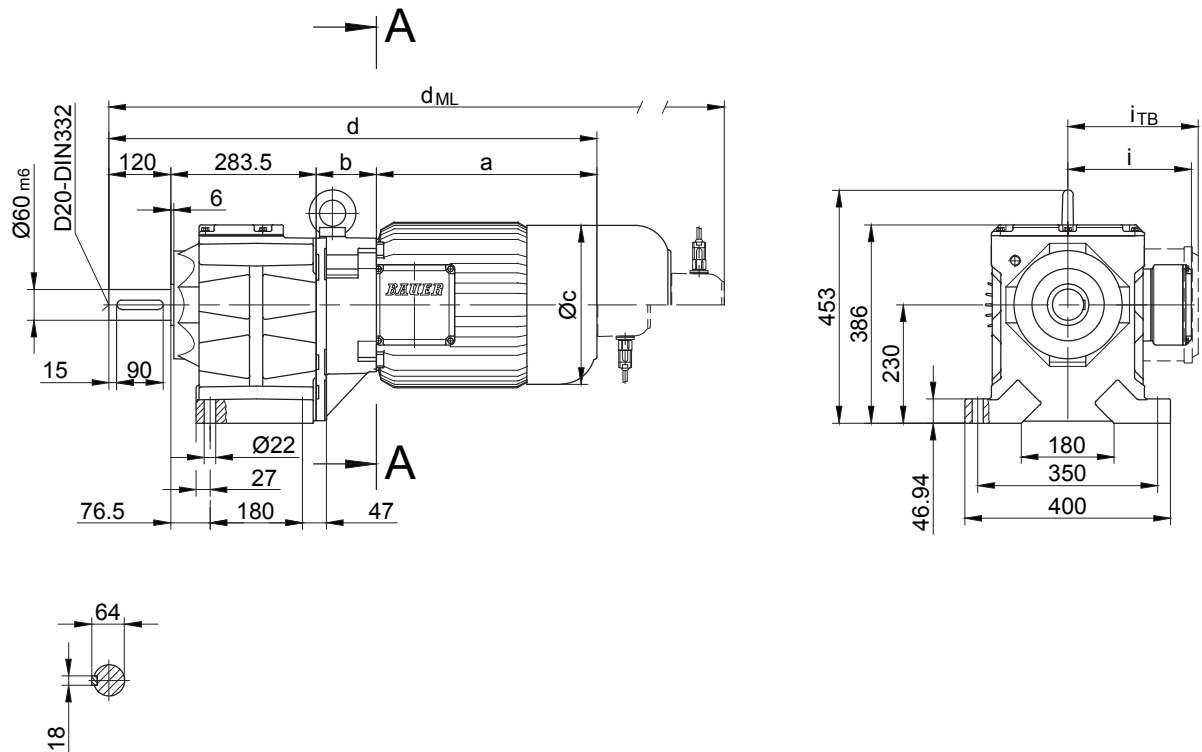
# Stirnrad-Getriebemotoren Reihe BG

## Maßbild

### BG70 - BG70Z

Fussausführung mit Durchgangslöchern

Code -11/



Flanschmasse

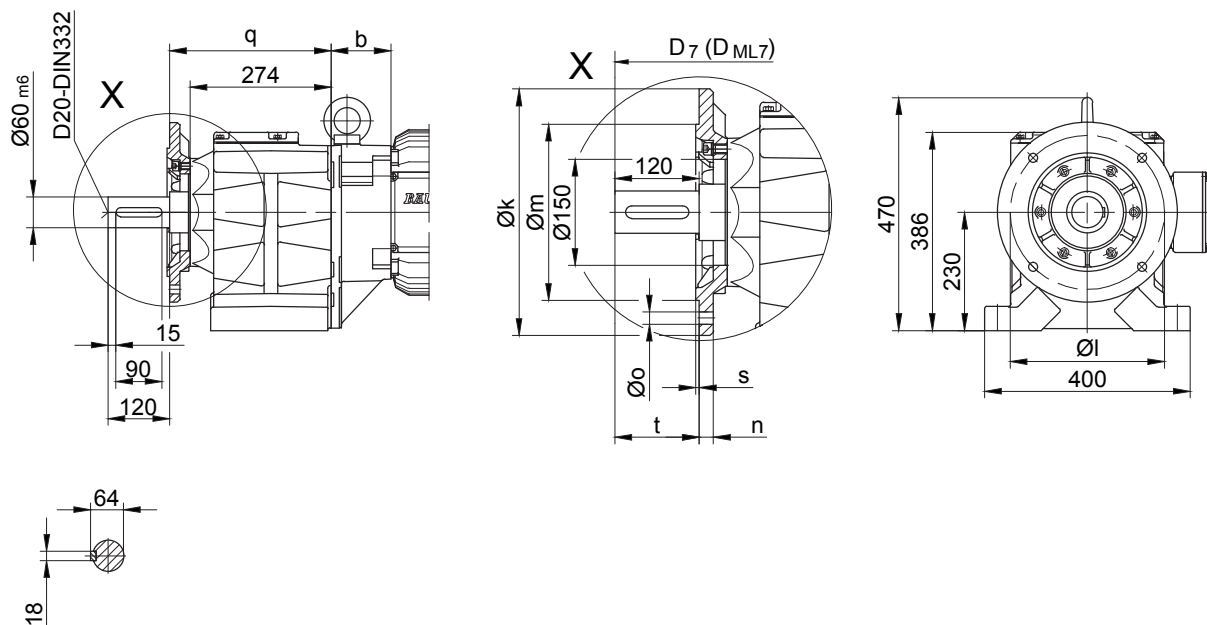
BG70(Z)	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	350	300	250 <sub>h6</sub>	20	17.5	314	5	120	d+30.5	d <sub>ML</sub> +30.5
klein -27/	300	265	230 <sub>j6</sub>	20	13.5	322	4	112	d+30.5	d <sub>ML</sub> +30.5

Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	ES../ZS..	G	ES../ZS..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG70Z-../D..08..	200	202	156	805.5	115	136.5	871.5	912.5	979	871
BG70-../D..09..	251	83.5	181	738	124	158	831	845	935.5	831
BG70Z-../D..09..	251	216.5	181	871	124	158	964	978	1068.5	964
BG70-../D..11..	319	90	228	812.5	181	181	910.5	919.5	1015	910.5
BG70Z-../D..11..	319	223	228	945.5	181	181	1043.5	1052.5	1148	1043.5
BG70-../D..13..	393	103	258	899.5	218	218	1010.5	1006.5	1115	1010.5
BG70Z-../D..13..	393	236	258	1032.5	218	218	1143.5	1139.5	1248	1143.5
BG70-../D..16..	429	117	322	949.5	244	244	1093.5	1057.5	1197.5	1093.5
BG70Z-../D..16..	429	250	322	1082.5	244	244	1226.5	1190.5	1330.5	1226.5
BG70-../D..18..	528	139	368	1070.5	288	288	1219.5	1178.5	1323.5	1219.5
BG70Z-../D..18..	528	272	368	1203.5	288	288	1352.5	1311.5	1456.5	1352.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

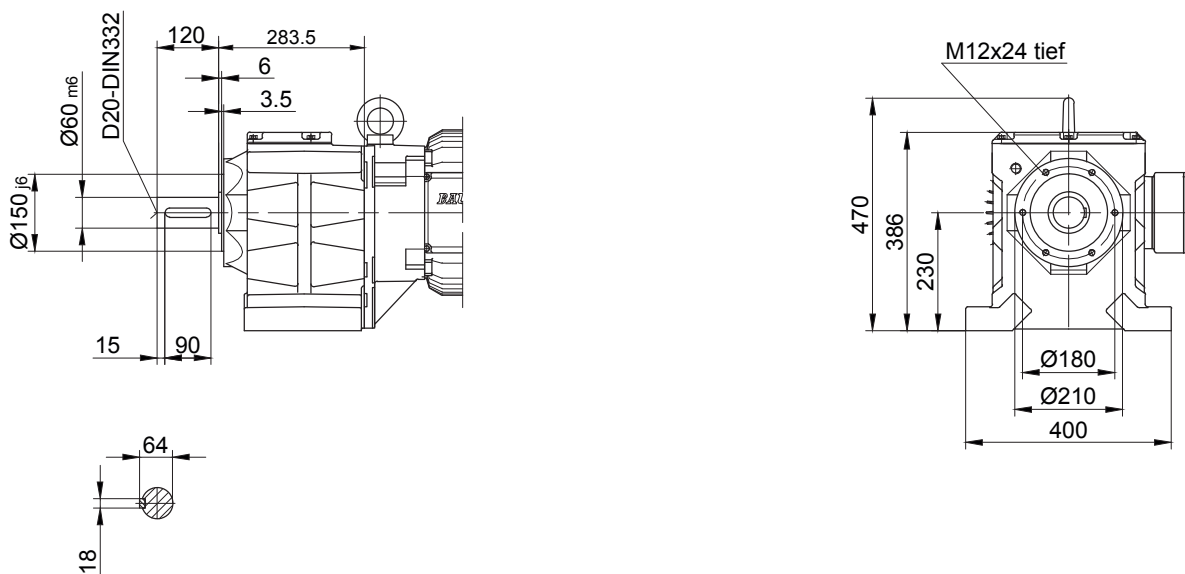
Flansch mit Durchgangslöchern

Code -37/  
(Code -27/)



Flansch mit Gewindelöchern

Code -71/



10

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

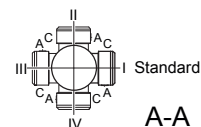
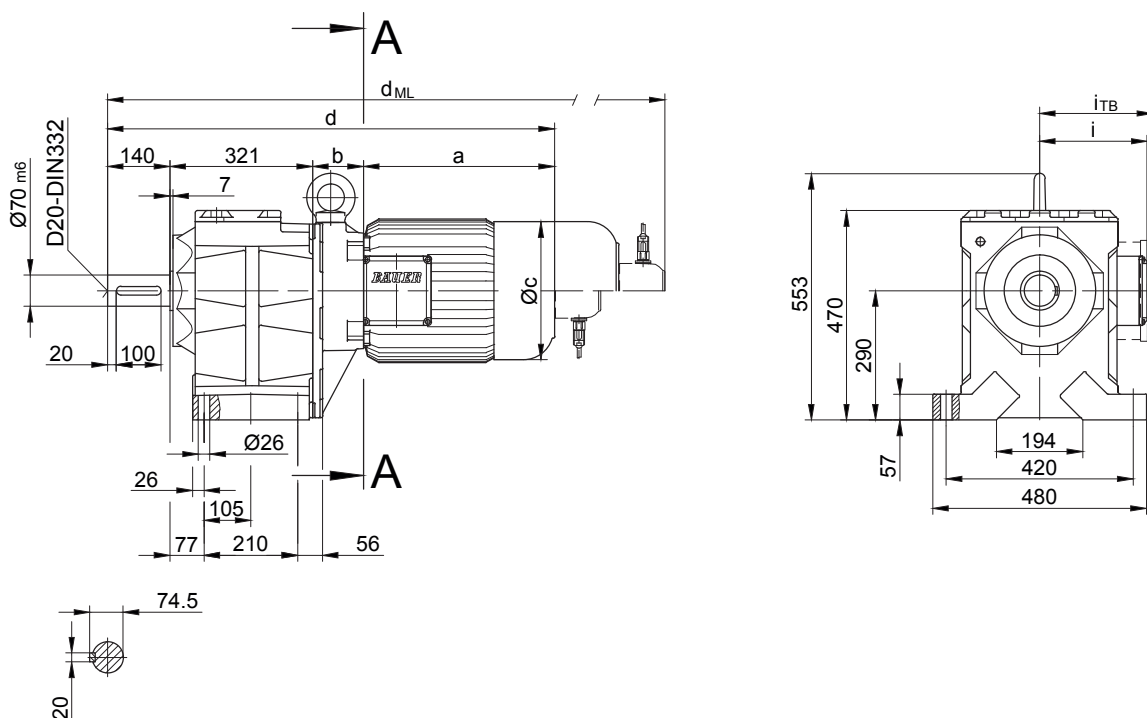
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG80 - BG80Z

Fussausführung mit Durchgangslöchern

Code -11/



Flanschmasse

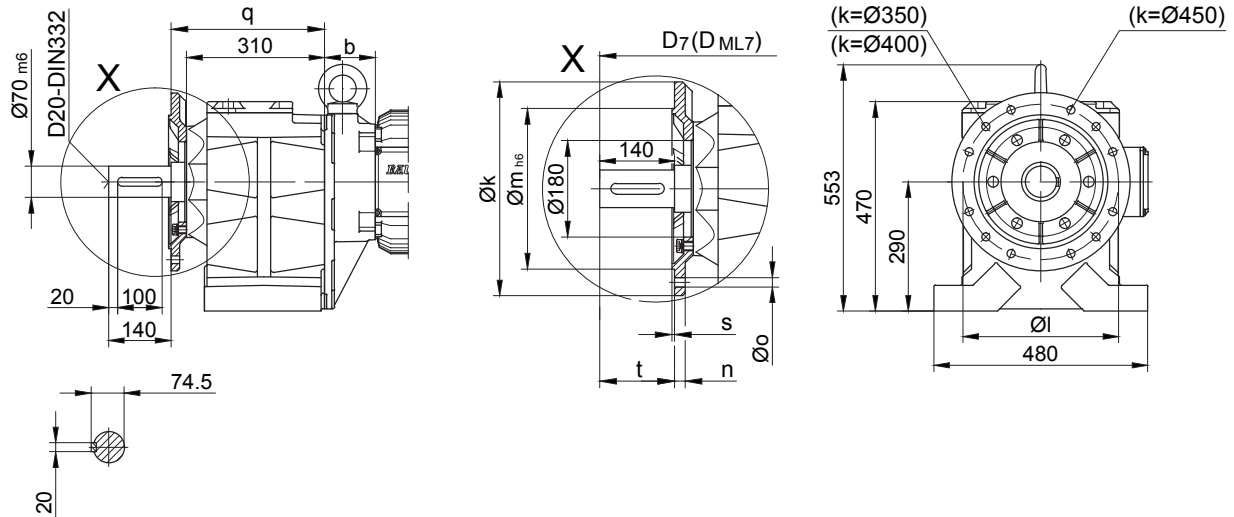
BG80(Z)	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	400	350	300	20	4 x 17.5	345	5	140	d+24	d <sub>ML</sub> +24
klein -27/	350	300	250	20	4 x 17.5	345	5	140	d+24	d <sub>ML</sub> +24
groß -47/	450	400	350	22	8 x 17.5	355	5	130	d+24	d <sub>ML</sub> +24

Typ	a	b	c	d	i	i <sub>TB</sub>	Ausführung mit Motoranbauten			
							ES../ZS..	G	ES../ZS..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG80Z-../D..09..	251	252.5	181	964.5	124	158	1057.5	1071.5	1162	1057.5
BG80-../D..11..	319	87	228	867	181	181	965	974	1069.5	965
BG80Z-../D..11..	319	259	228	1039	181	181	1137	1146	1241.5	1137
BG80-../D..13..	393	100	258	954	218	218	1065	1061	1169.5	1065
BG80Z-../D..13..	393	272	258	1126	218	218	1237	1233	1341.5	1237
BG80-../D..16..	429	114	322	1004	244	244	1148	1112	1252	1148
BG80Z-../D..16..	429	286	322	1176	244	244	1320	1284	1424	1320
BG80-../D..18..	528	136	368	1125	288	288	1274	1233	1378	1274
BG80Z-../D..18..	528	308	368	1297	288	288	1446	1405	1550	1446

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

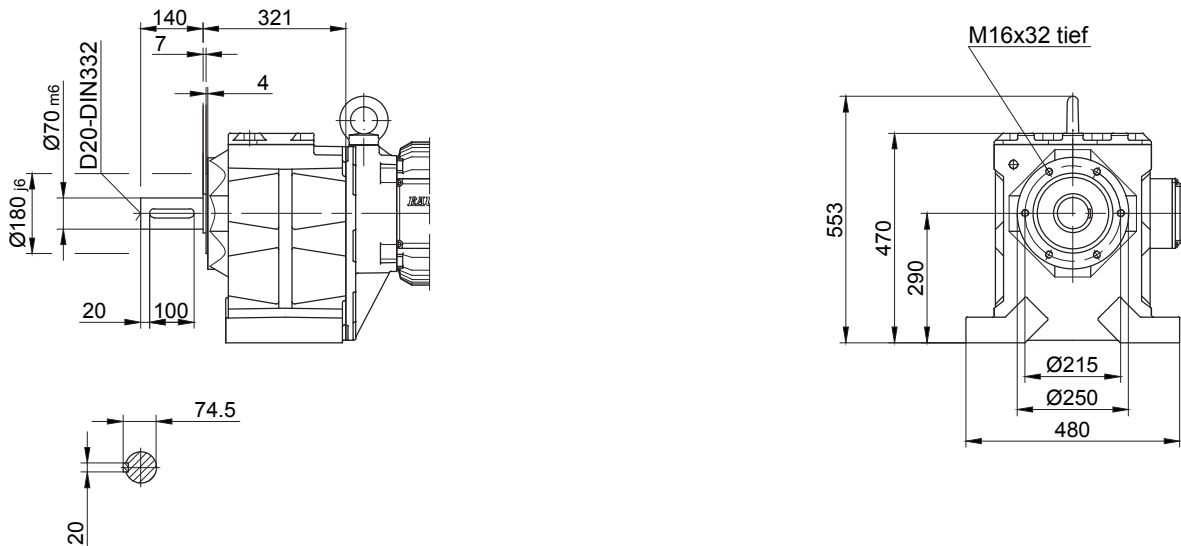
Flansch mit Durchgangslöchern

Code -37/  
(Code -27/)  
(Code -47/)



Flansch mit Gewindelöchern

Code -71/



10

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

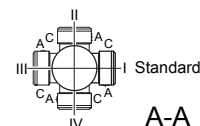
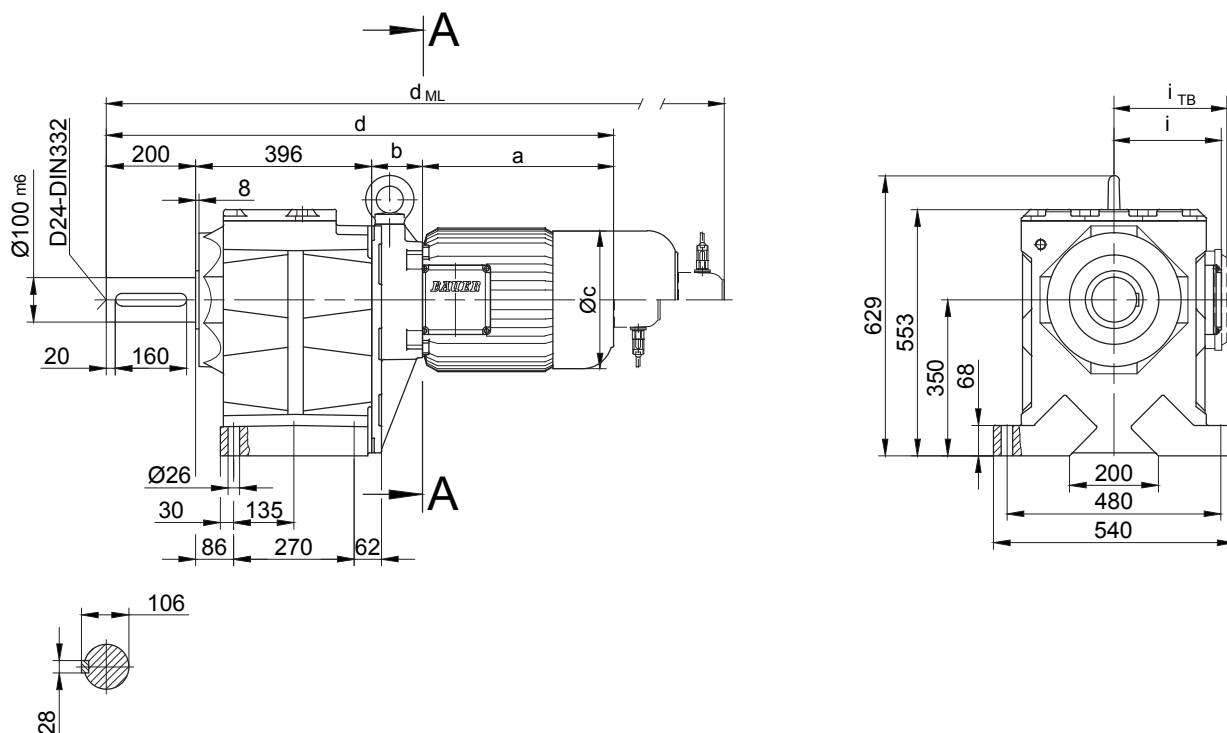
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG90 - BG90Z

Fussausführung mit Durchgangslöchern

Code -11/



Flanschmasse

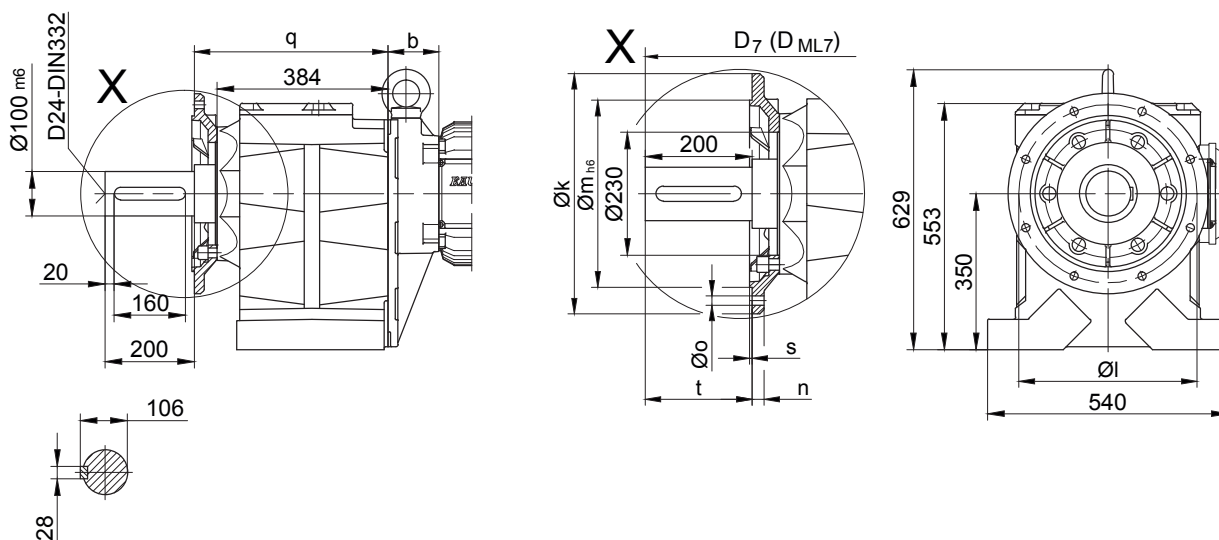
BG90(Z)	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	450	400	350	22	17.5	439	5	200	d+43	d <sub>ML</sub> +43
gross -47/	550	500	450	22	17.5	444	5	195	d+43	d <sub>ML</sub> +43

Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	ES../ZS..	G	ES../ZS...G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG90Z-../D..09..	251	267	181	1114	124	158	1207	1221	1311	1207
BG90Z-../D..11..	319	273.5	228	1188.5	181	181	1286.5	1295.5	1391	1286.5
BG90-../D..13..	393	100	258	1015	218	218	1113	1122	1217.5	1113
BG90Z-../D..13..	393	286.5	258	1275.5	218	218	1386.5	1382.5	1491	1386.5
BG90-../D..16..	429	114	322	1103	244	244	1214	1210	1318.5	1214
BG90Z-../D..16..	429	300.5	322	1325.5	244	244	1469.5	1433.5	1573.5	1469.5
BG90-../D..18..	528	136	368	1161	288	288	1305	1269	1409	1305
BG90Z-../D..18..	528	322.5	368	1446	288	288	1595.5	1554.5	1699.5	1595.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

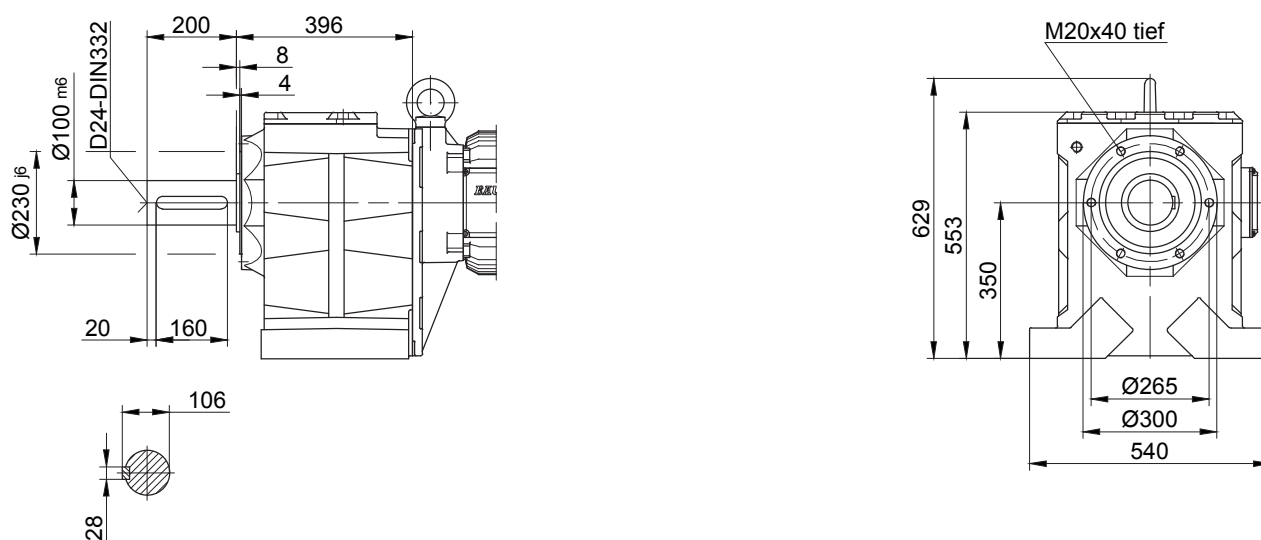
Flansch mit Durchgangslöchern

Code -37/  
(Code -47!)



Flansch mit Gewindelöchern

Code -71/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

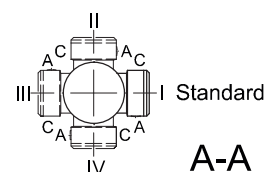
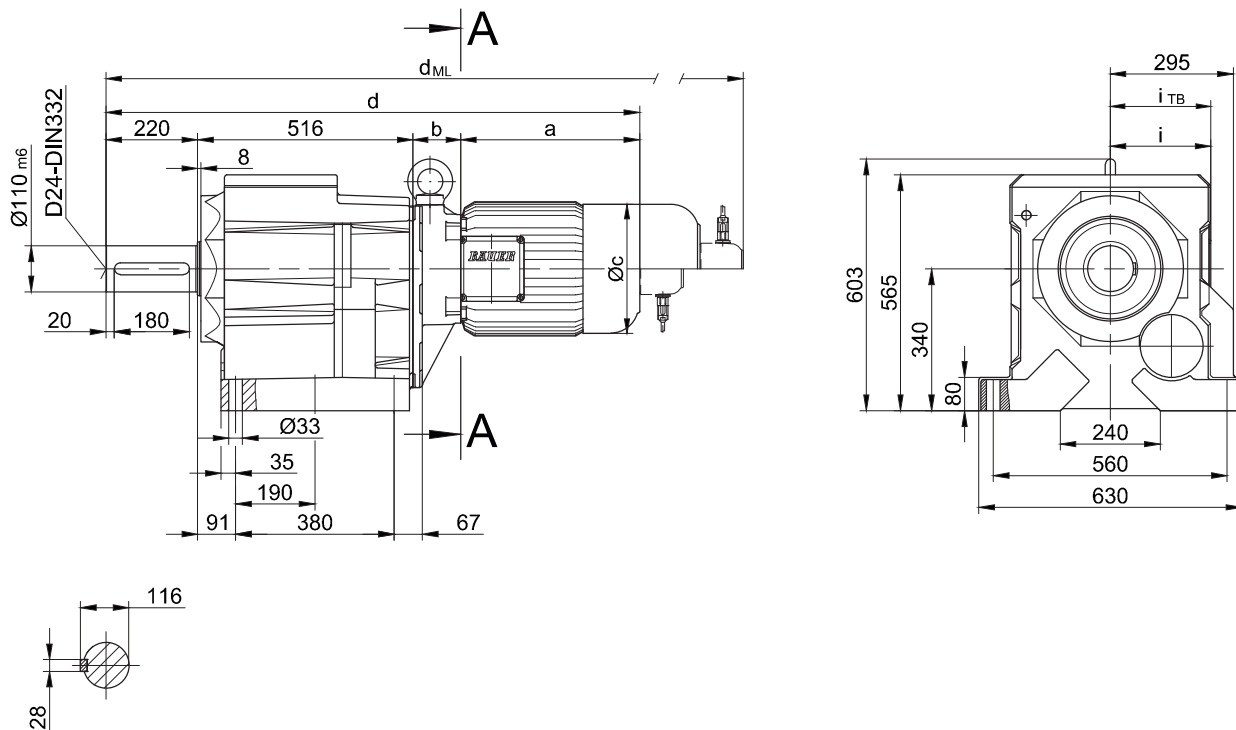
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG100 - BG100Z

Fussausführung mit Durchgangslöchern

Code -11/



Flanschmasse

BG100(Z)	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	550	500	450	22	17.5	558	5	220	d+42	d <sub>ML</sub> +42
gross -47/	660	600	550	25	22	552	6	226	d+42	d <sub>ML</sub> +42

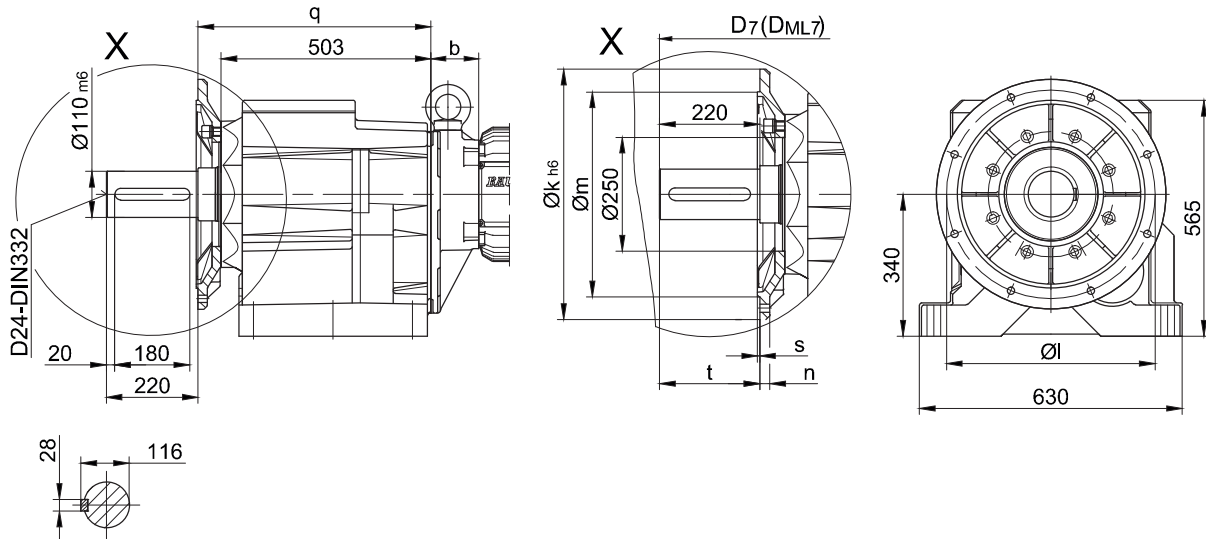
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	ES../ZS..	G	ES../ZS..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG100Z-../D..09..	251	252.5	181	1239.5	124	158	1332.5	1346.5	1437	1332.5
BG100-../D..11..	319	87	228	1142	181	181	1240	1249	1344.5	1240
BG100Z-../D..11..	319	259	228	1314	181	181	1412	1421	1516.5	1412
BG100-../D..13..	393	100	258	1229	218	218	1340	1336	1444.5	1340
BG100Z-../D..13..	393	272	258	1401	218	218	1512	1508	1616.5	1512
BG100-../D..16..	429	114	322	1279	244	244	1423	1387	1527	1423
BG100Z-../D..16..	429	286	322	1451	244	244	1595	1559	1699	1595
BG100-../D..18..	528	136	368	1400	288	288	1549	1508	1653	1549
BG100Z-../D..18..	528	308	368	1572	288	288	1721	1680	1825	1721

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



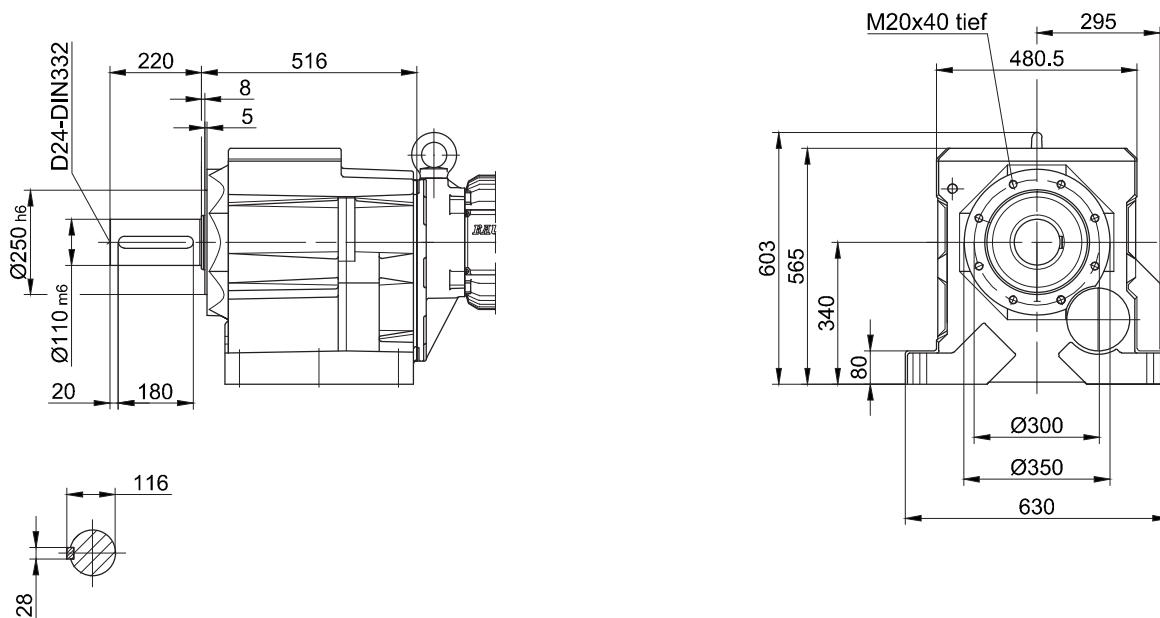
Flansch mit Durchgangslöchern

Code -37/  
(Code -47/)



Flansch mit Gewindelöchern

Code 71/



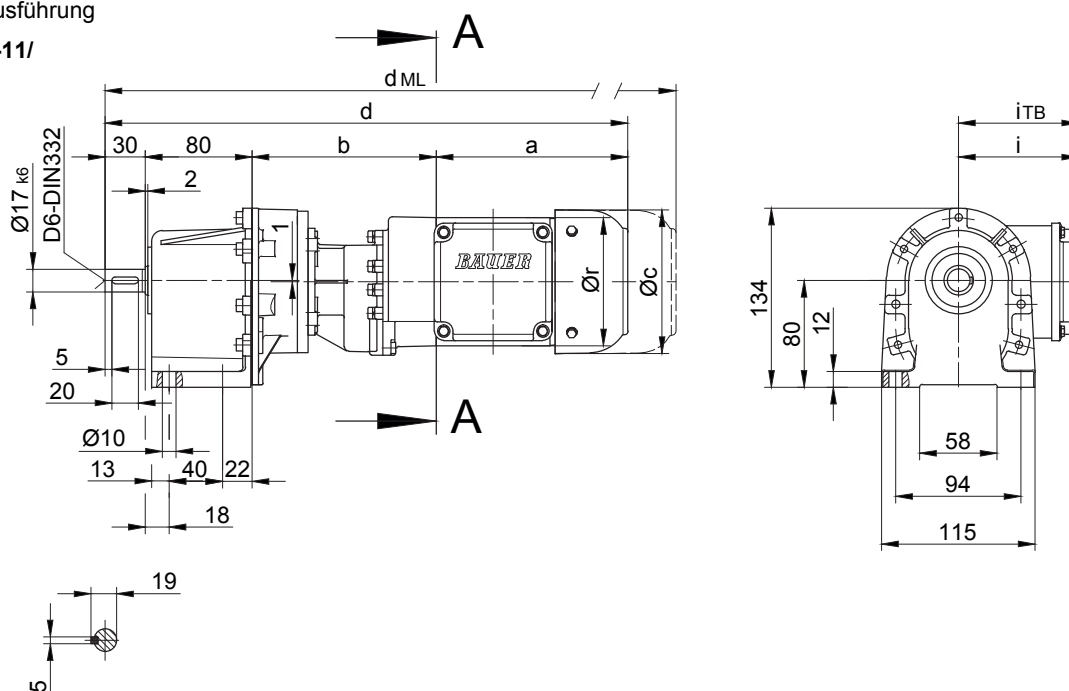
10

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



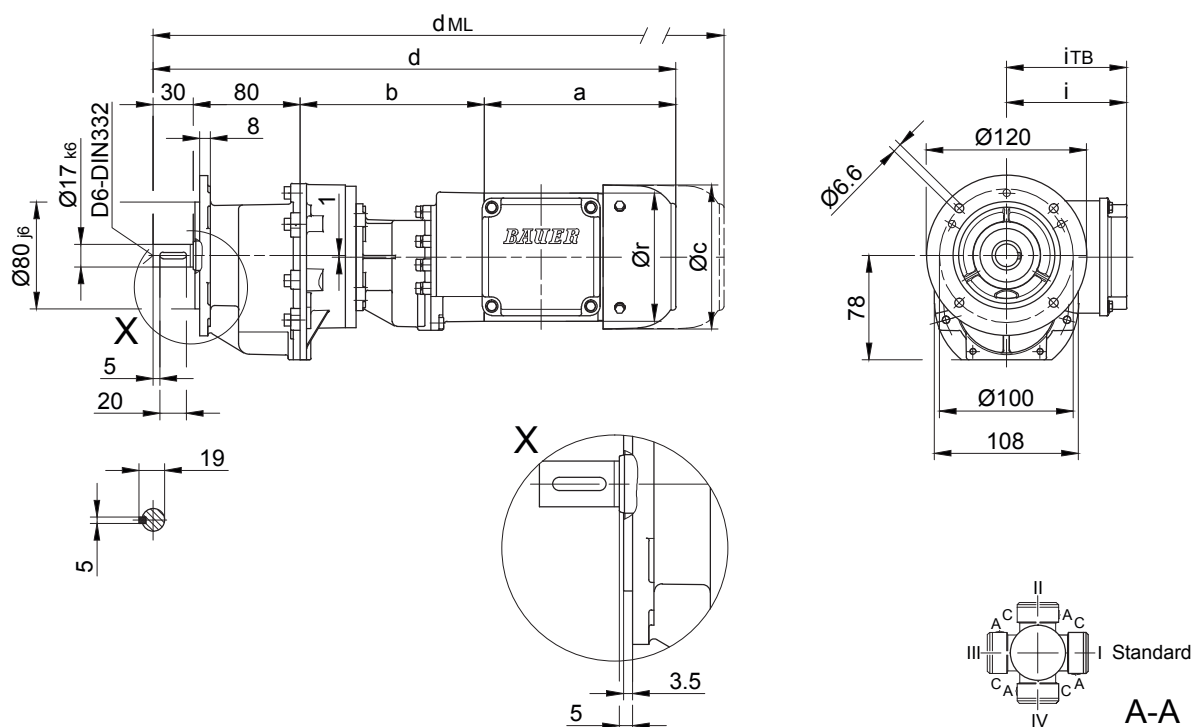
Fussausführung

Code -11/



Flansch mit Durchgangslöchern

Code -31/



10

Typ	a	b	c	d	i	r	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E..	G	E.-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG06G04-../D04..	143	135	111	388	90	96	112	431.5	450.5	493.5	-

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

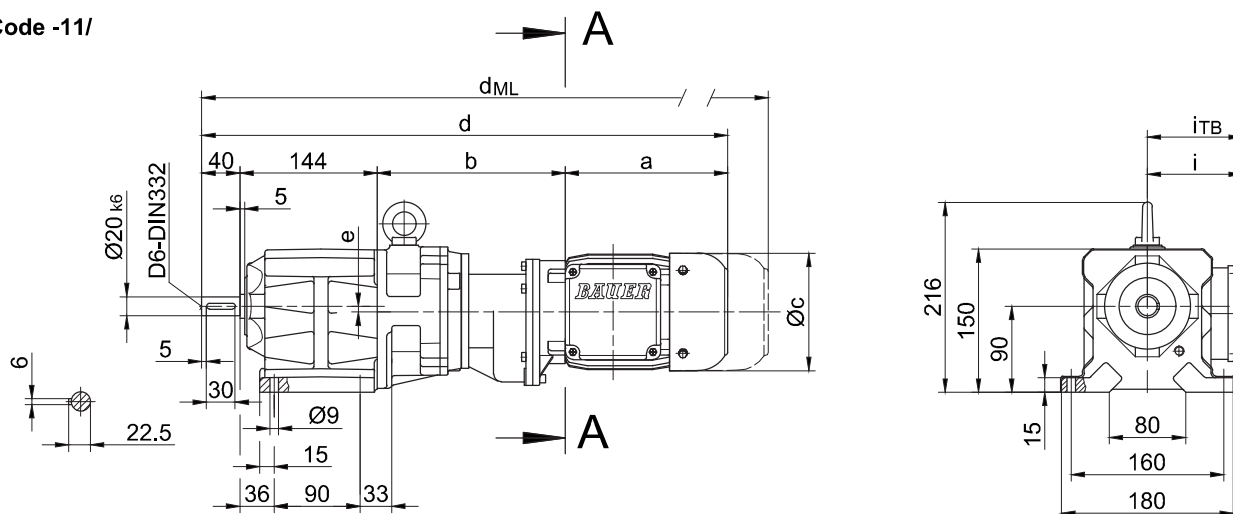
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG10G06

Fussausführung mit Durchgangslöchern

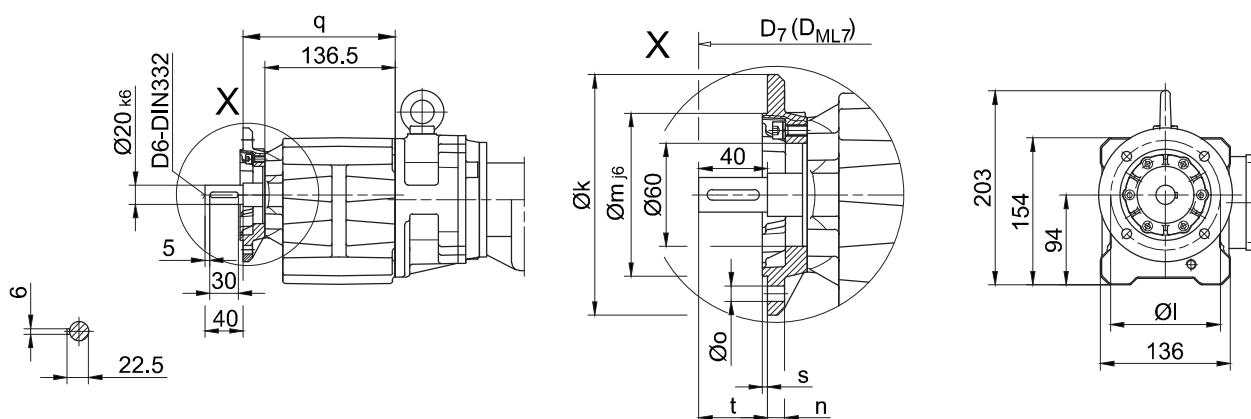
Code -11/



Flansch mit Durchgangslöchern

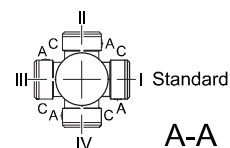
Code -37/

(Code -27/)



Flanschmasse

BG10G..	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	140	115	95	10	9	159.5	3	40	d+15.5	d <sub>ML</sub> +15.5
klein -27/	120	100	80	8	6.6	154.5	3	45	d+15.5	d <sub>ML</sub> +15.5

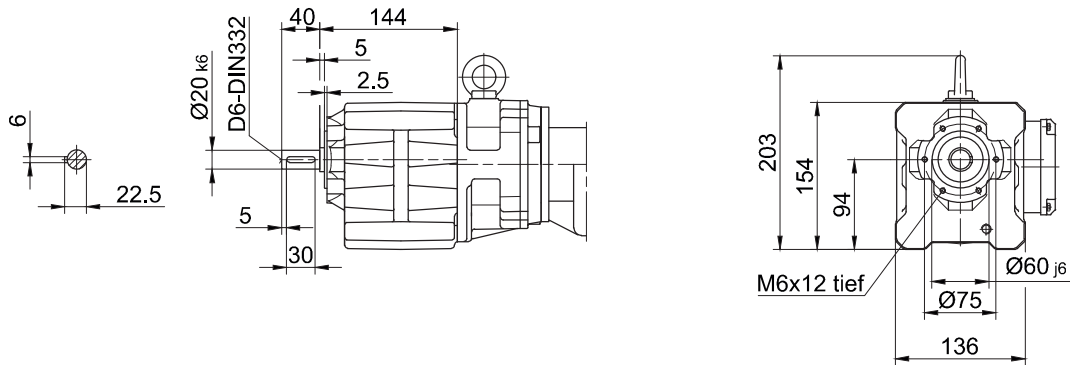


Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BG10G06-./D04..	143	195	111	522	6	90	112	565.5	584.5	627.5	-
BG10G06-./D05..	170	197	123	551	6	100	117	593	654	695.5	-
BG10G06-./D06..	170	197	123	551	6	100	119	593	654	695.5	-
BG10G06-./D07..	190	197	123	571	6	100	119	613	674	715.5	-
BG10G06-./D..08..	200	241	156	625	6	115	136.5	691	732	798.5	691

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

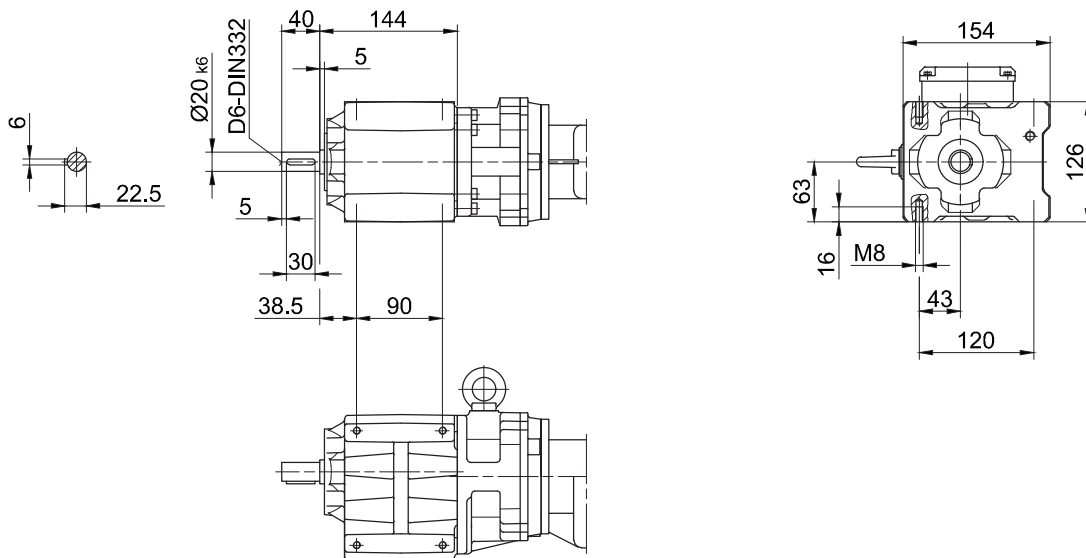
Flansch mit Gewindelöchern

Code -71/



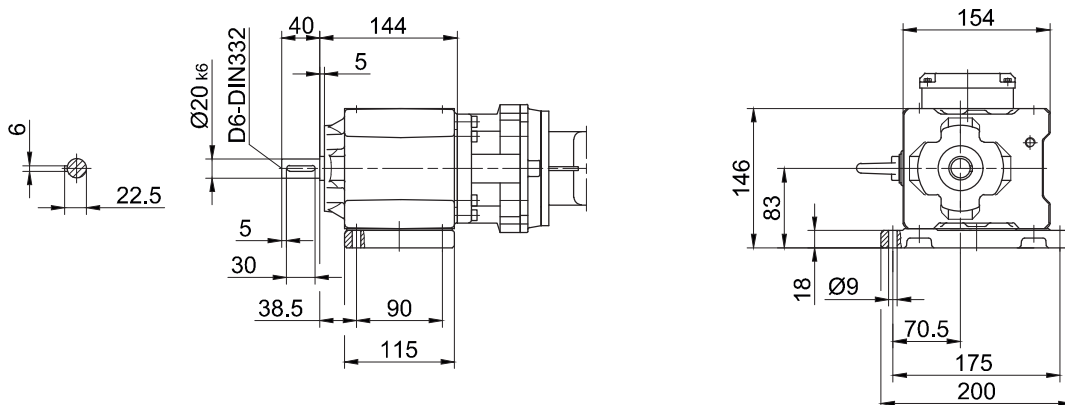
Fuss mit Gewindelöchern links und rechts

Code -61LR/



Fussplatte links

Code -91L/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

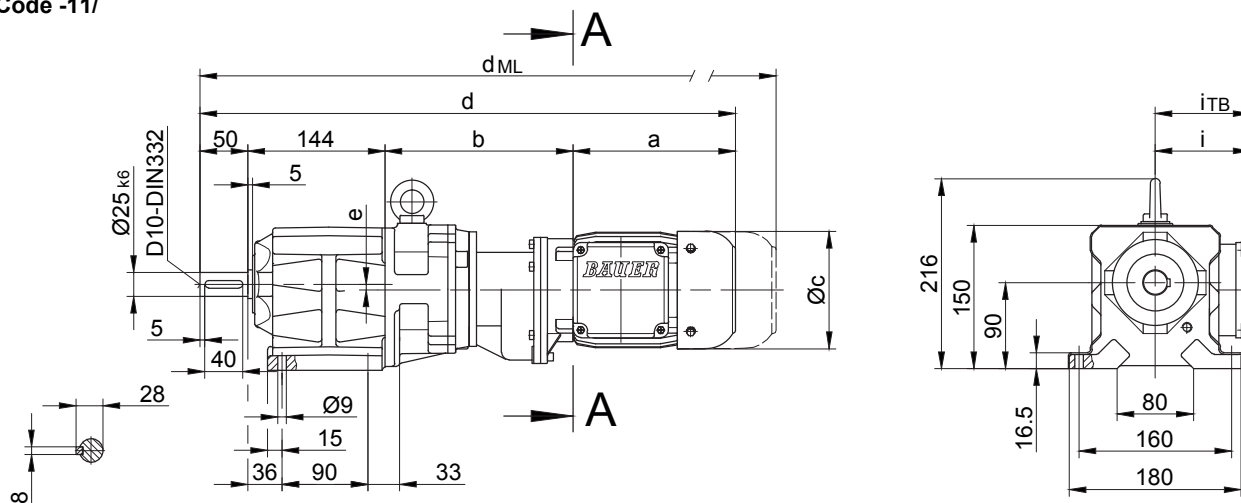
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG10XG06

Fussausführung mit Durchgangslöchern

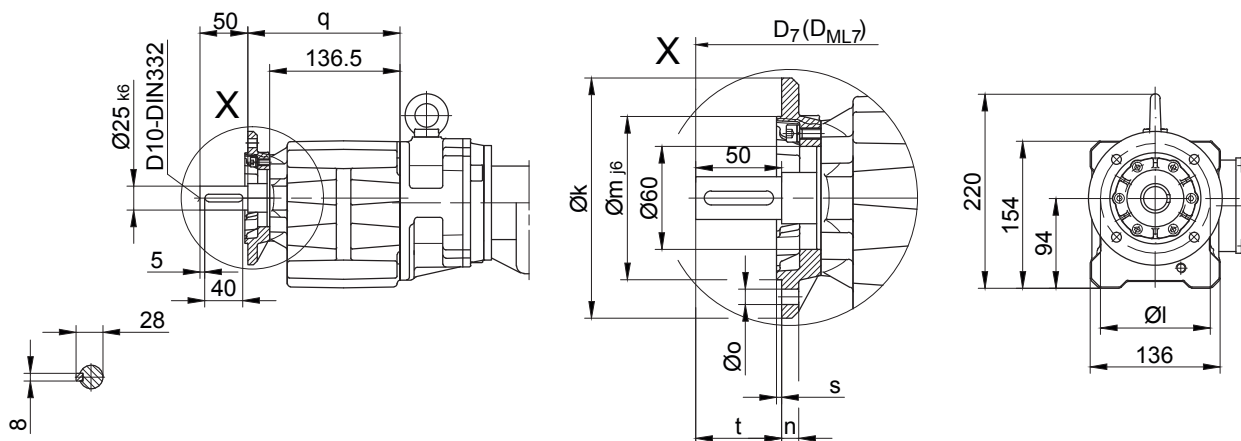
Code -11/



Flansch mit Durchgangslöchern

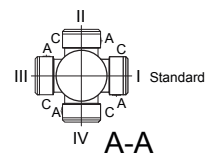
Code -37/

(Code -27/)



Flanschmasse

BG10G..	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	140	115	95	10	9	159.5	3	50	d+15.5	d <sub>ML</sub> +15.5
klein -27/	120	100	80	8	6.6	154.5	3	55	d+15.5	d <sub>ML</sub> +15.5

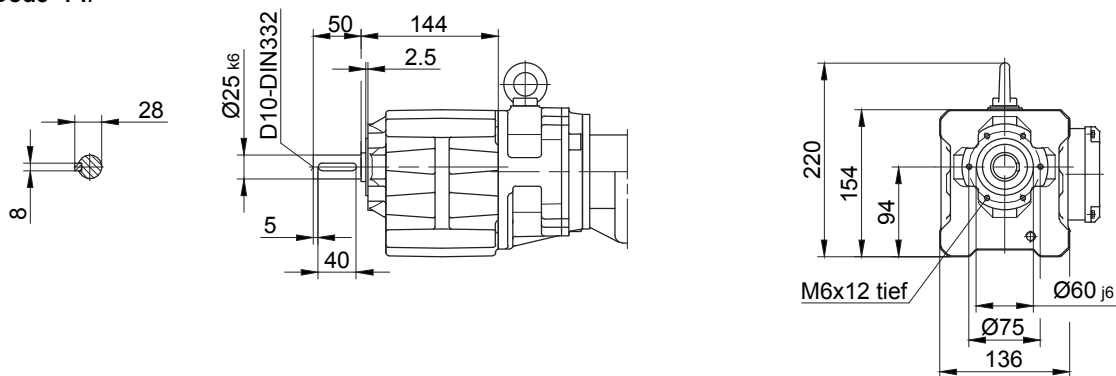


Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG10XG06-../D04..	143	195	111	532	6	90	112	575.5	594.5	637.5	-
BG10XG06-../D05..	170	197	123	561	6	100	117	603	664	705.5	-
BG10XG06-../D06..	170	197	123	561	6	100	119	603	664	705.5	-
BG10XG06-../D07..	190	197	123	581	6	100	119	623	684	725.5	-
BG10XG06-../D..08..	200	241	156	635	6	115	136.5	701	742	808.5	701

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

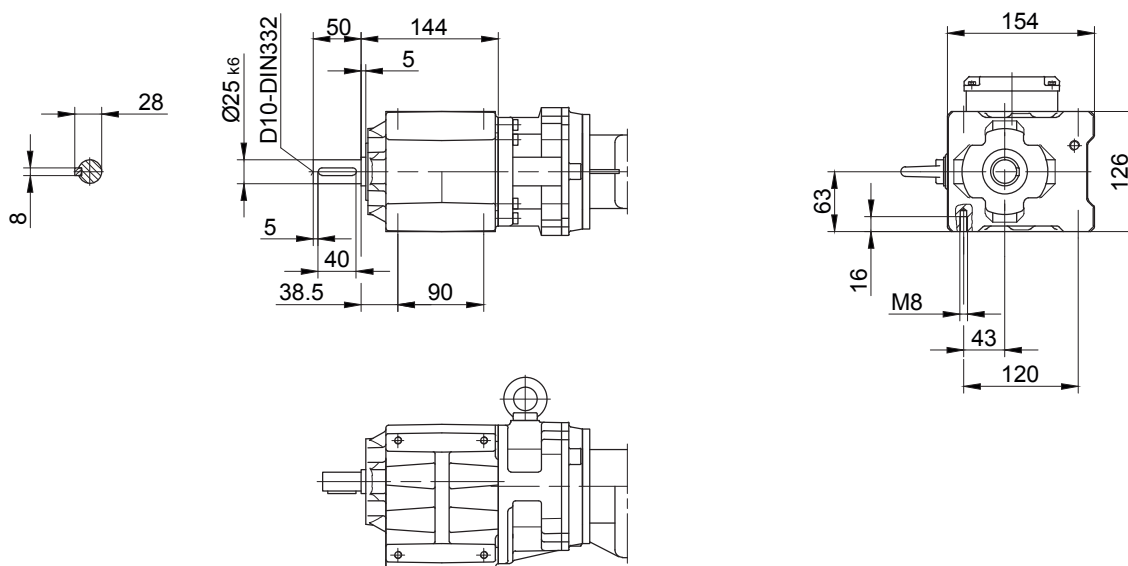
Flansch mit Gewindelöchern

Code -71/



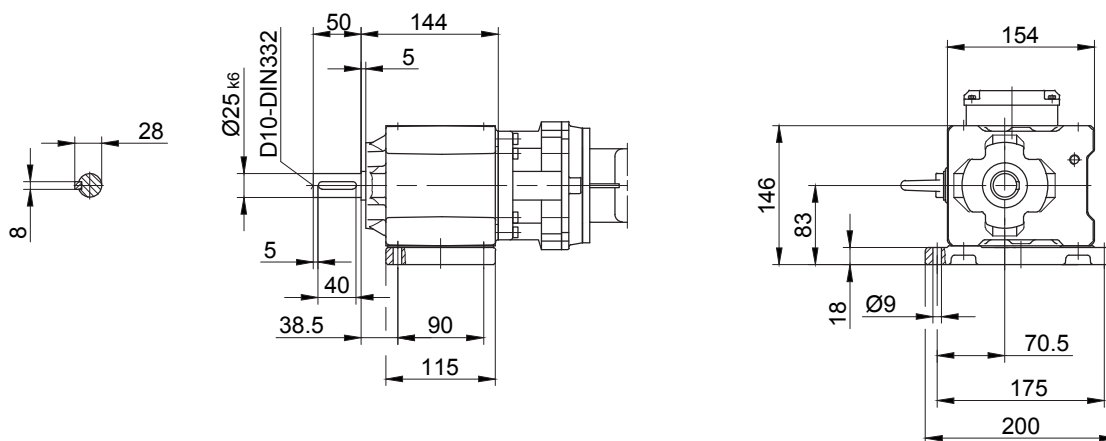
Fuss mit Gewindelöchern links und rechts

Code -61LR/



Fussplatte links

Code -91L/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

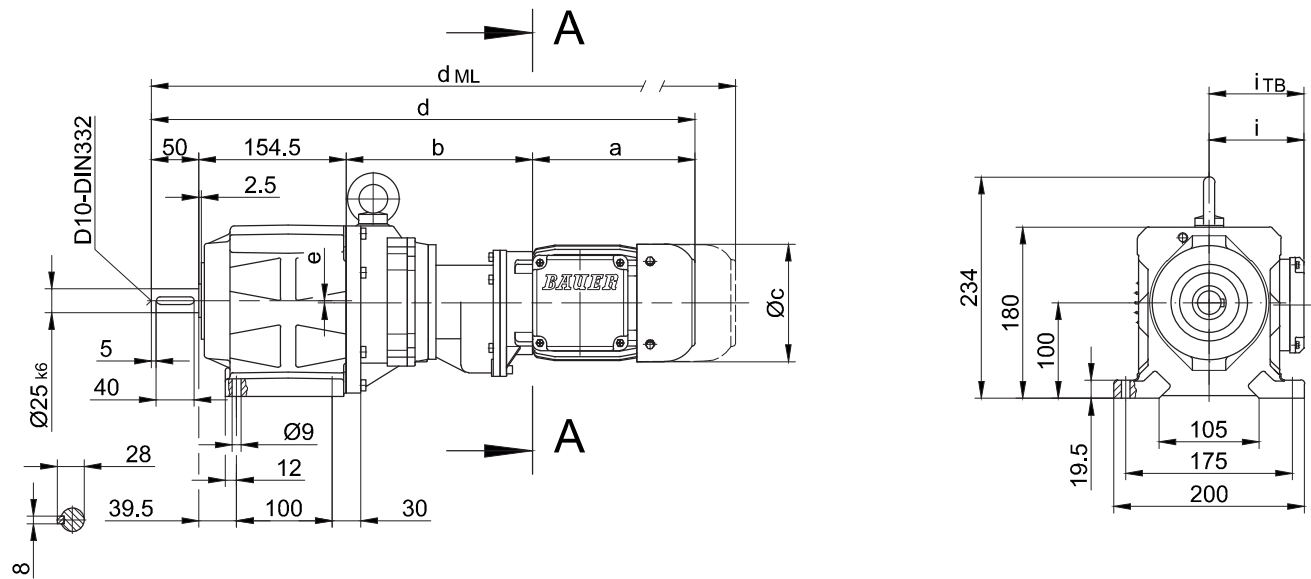
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG20G06

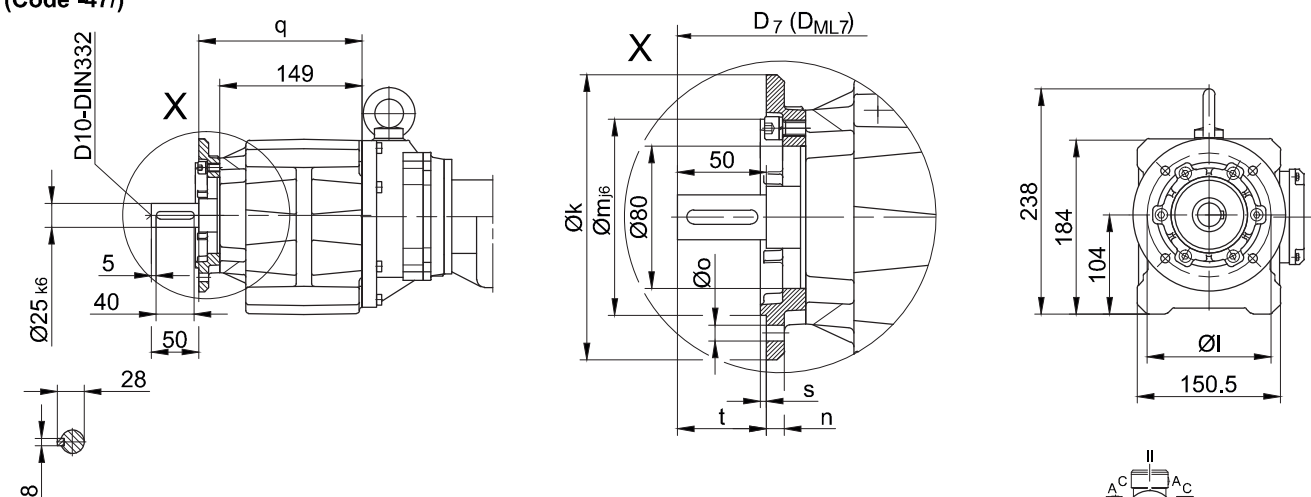
Fussausführung mit Durchgangslöchern

Code -11/



Flansch mit Durchgangslöchern

Code -37/  
(Code -47/)



Flanschmasse

BG20(Z)G..	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	160	130	110	10	9	171	3.5	50	d+16.5	d <sub>ML</sub> +16.5
gross -47/	200	165	130	12	11	178	3.5	43	d+16.5	d <sub>ML</sub> +16.5

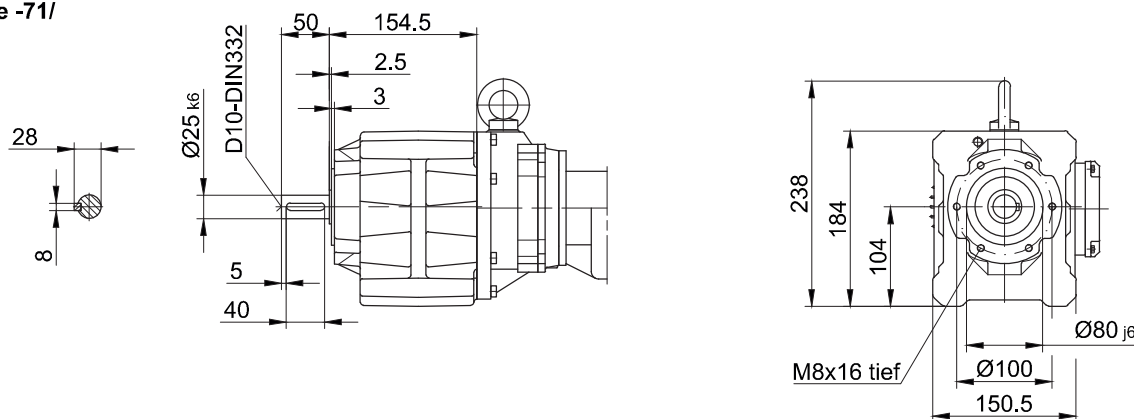
Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E./ES..	G	E./ES..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG20G06-./D04..	143	193	111	540.5	2	90	112	584	603	646	-
BG20G06-./D05..	170	195	123	569.5	2	100	117	611.5	672.5	714	-
BG20G06-./D06..	170	195	123	569.5	2	100	119	611.5	672.5	714	-
BG20G06-./D07..	190	195	123	589.5	2	100	119	631.5	692.5	734	-
BG20G06-./D..08..	200	239	156	643.5	2	115	136.5	709.5	750.5	817	709.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



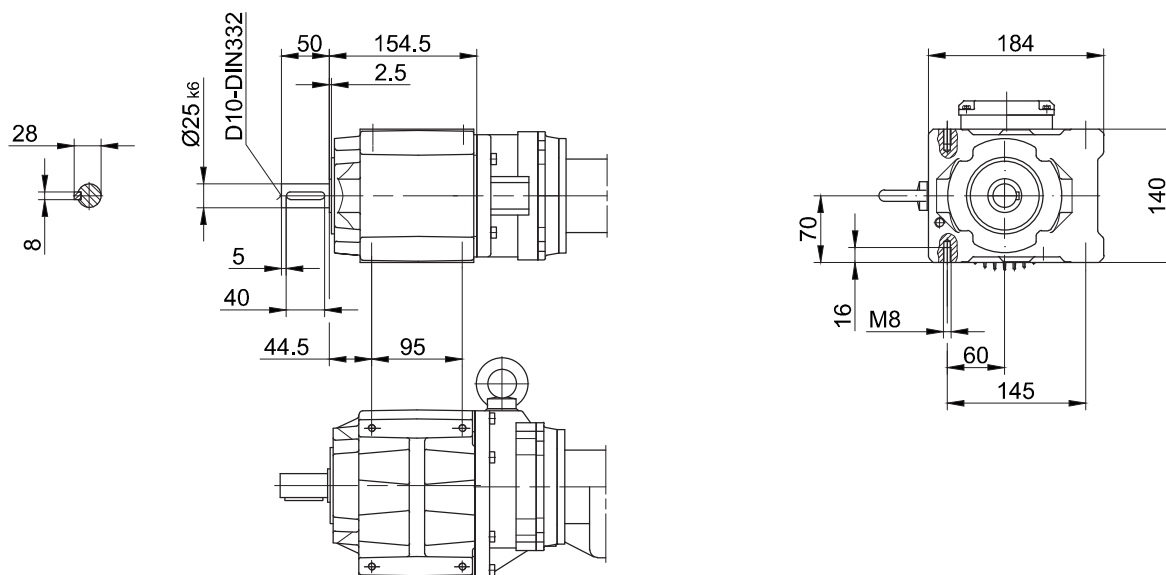
Flansch mit Gewindelöchern

Code -71/



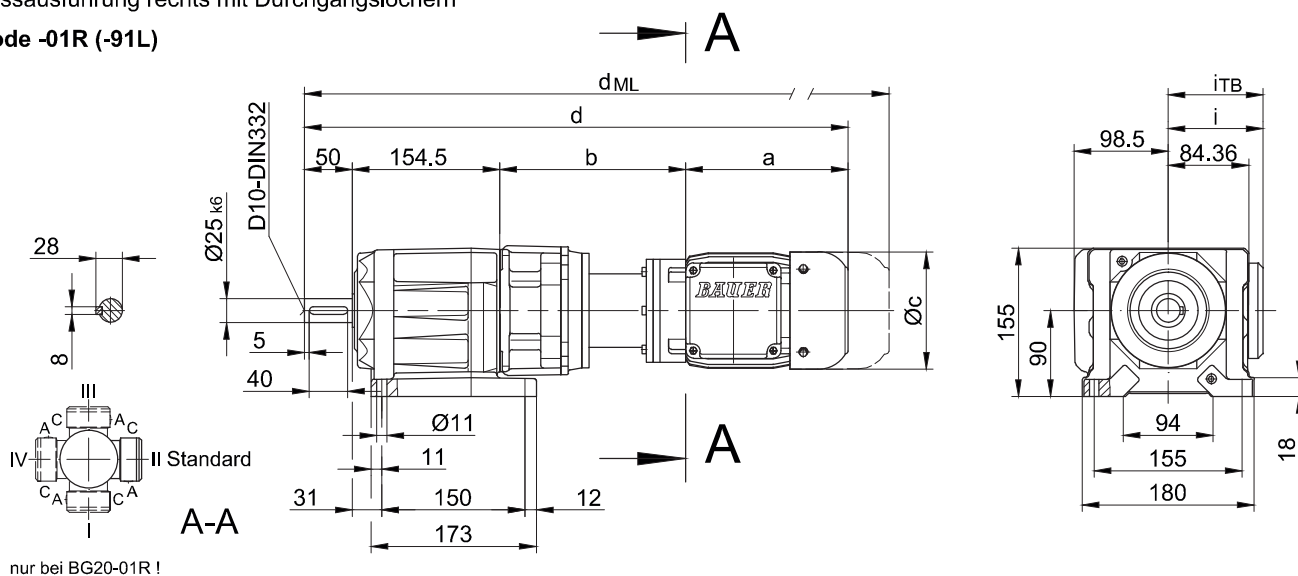
Fuss mit Gewindelöchern links und rechts

Code -61LR/



Fussausführung rechts mit Durchgangslöchern

Code -01R (-91L)



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

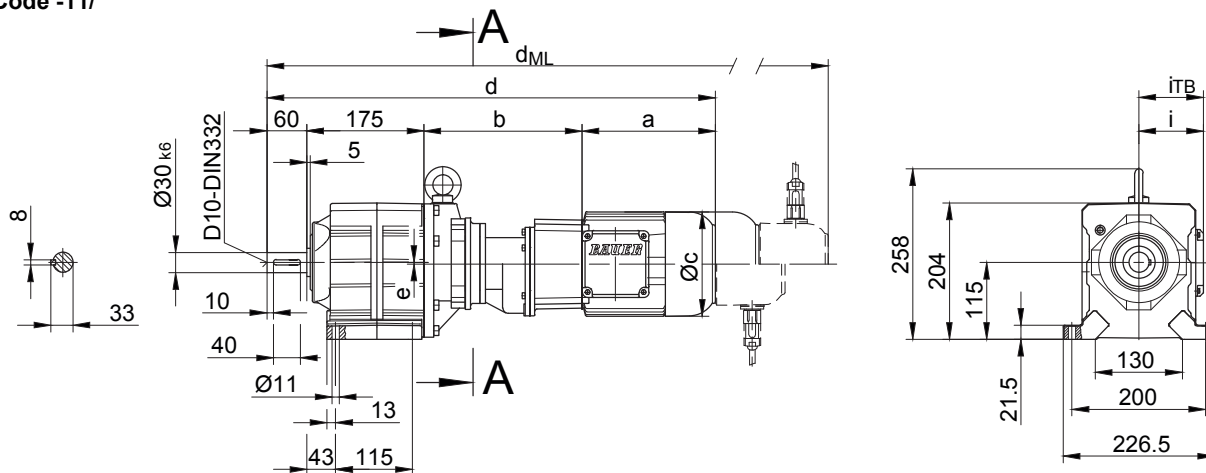
# Stirnrad-Getriebemotoren Reihe BG

## Maßbild

### BG30G06

Fussausführung mit Durchgangslöchern

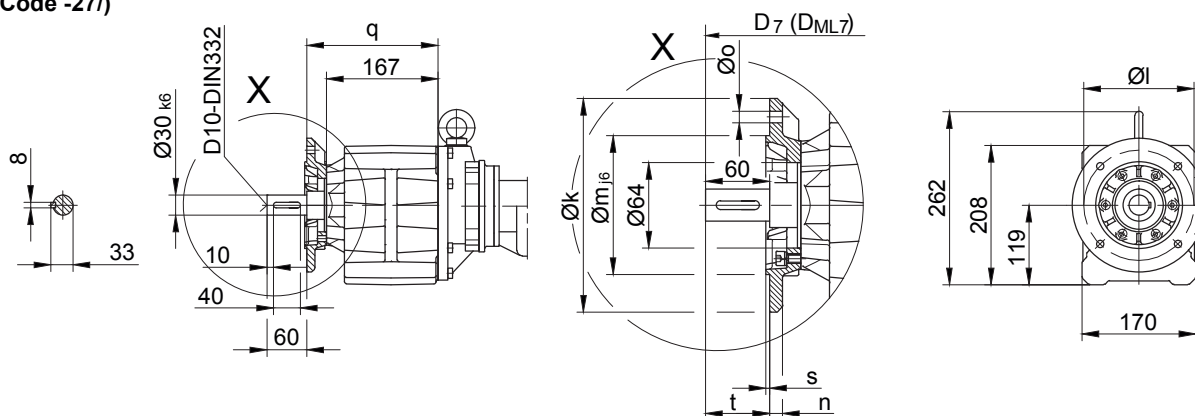
Code -11/



Flansch mit Durchgangslöchern

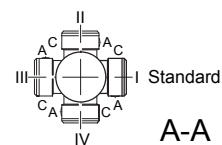
Code -37/

(Code -27/)



Flanschmasse

BG30G..	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	200	165	130	12	11	196	3.5	60	d+21	d <sub>ML</sub> +21
klein -27/	160	130	110	10	9	189	3.5	67	d+21	d <sub>ML</sub> +21

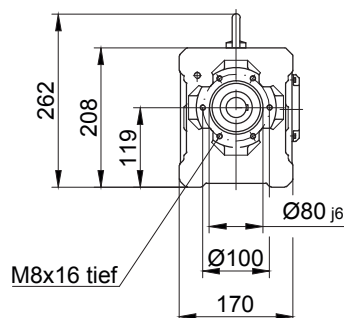
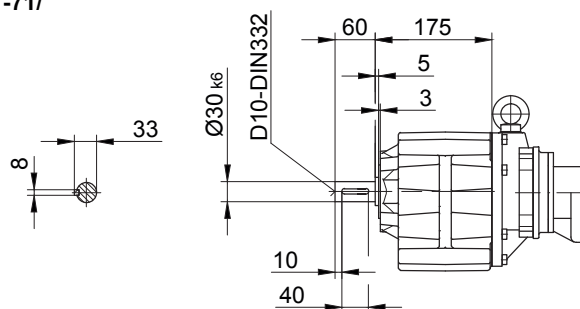


Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BG30G06-../D04..	143	191	111	569	3	90	112	612.5	631.5	674.5	-
BG30G06-../D05..	170	193	123	598	3	100	117	640	701	742.5	-
BG30G06-../D06..	170	193	123	598	3	100	119	640	701	742.5	-
BG30G06-../D07..	190	193	123	618	3	100	119	660	721	762.5	-
BG30G06-../D..08..	200	237	156	672	3	115	136.5	738	779	845.5	738

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

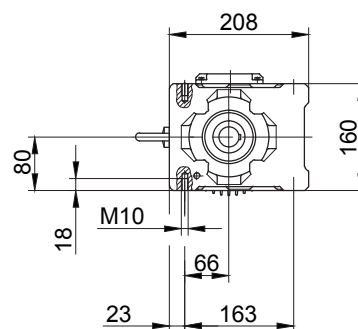
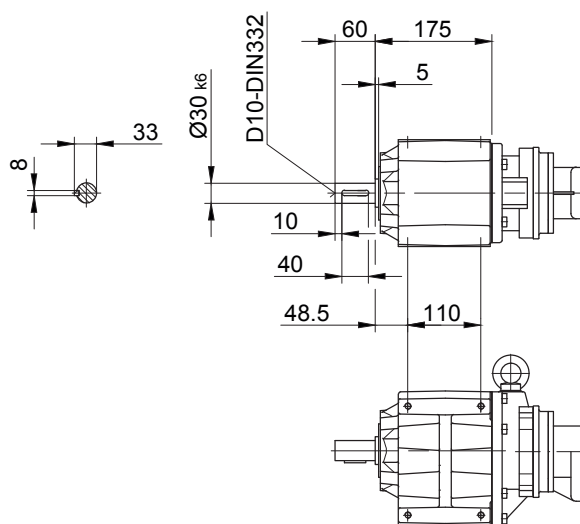
Flansch mit Gewindelöchern

Code -71/



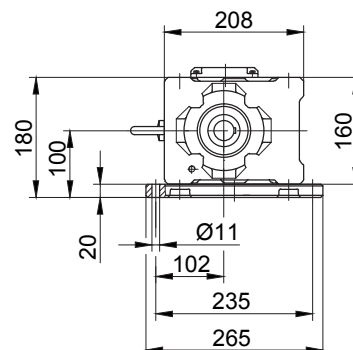
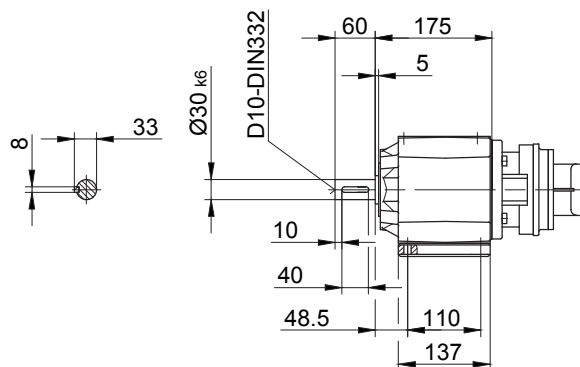
Fuss mit Gewindelöchern links und rechts

Code -61LR/



Fussplatte links

Code -91L/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

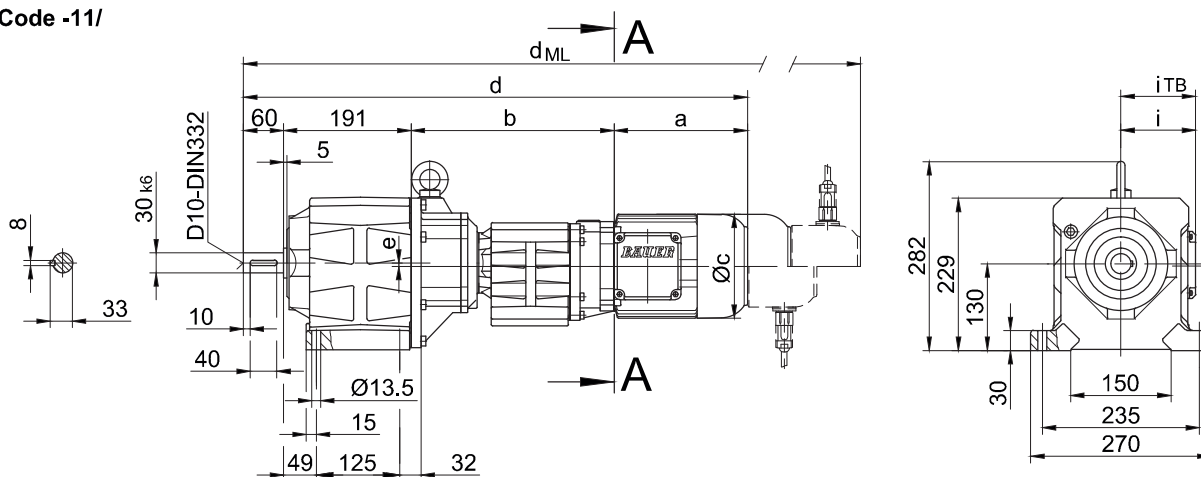
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG40G10

Fussausführung mit Durchgangslöchern

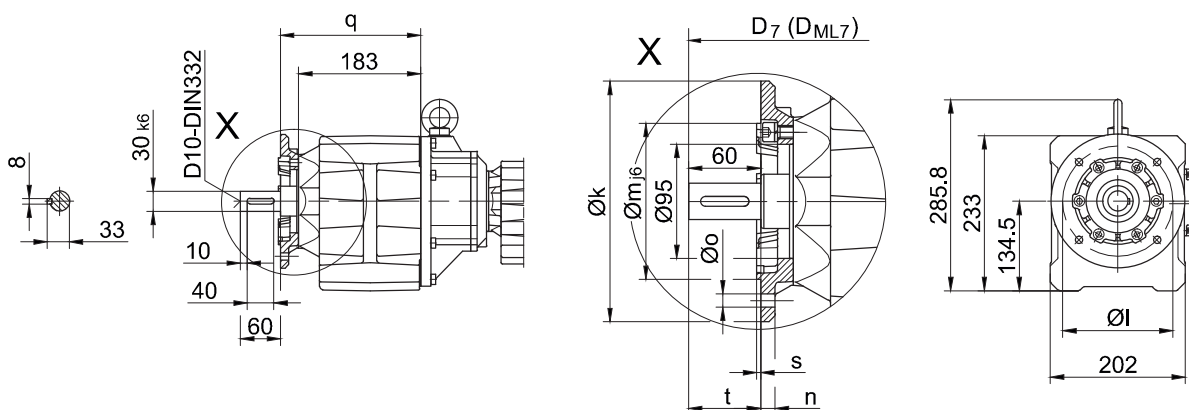
Code -11/



Flansch mit Durchgangslöchern

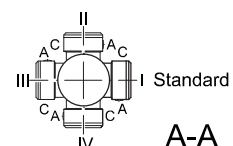
Code -37/

(Code -47/)



Flanschmasse

BG40G..	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	200	165	130	12	11	210	3.5	60	d+19	d <sub>ML</sub> +19
gross -47/	250	215	180	16	13.5	219	4	51	d+19	d <sub>ML</sub> +19

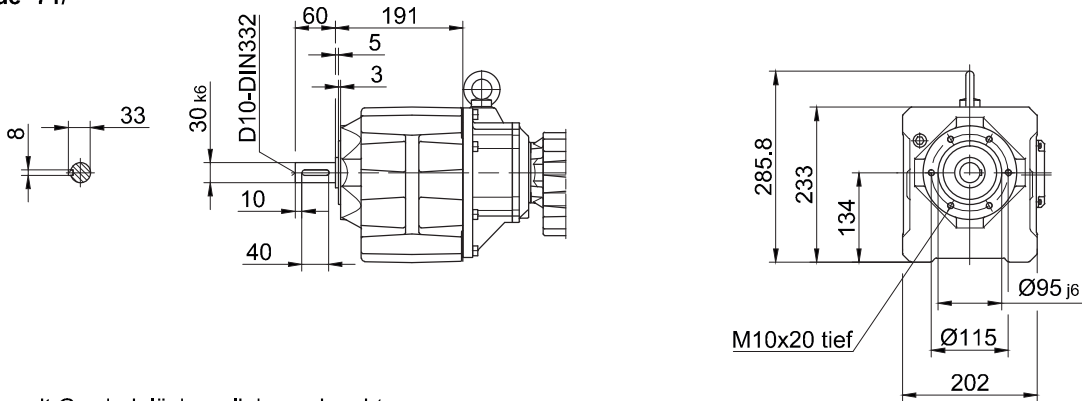


Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES...G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG40G10-../D05..	170	300	123	721	5	100	117	763	824	865.5	-
BG40G10-../D06..	170	300	123	721	5	100	119	763	824	865.5	-
BG40G10-../D07..	190	300	123	741	5	100	119	783	844	887	-
BG40G10-../D..08..	200	304	156	755	5	115	136.5	821	862	928.5	821
BG40G10-../D..09..	251	318.5	181	820.5	5	124	158	913.5	927.5	1018	913.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

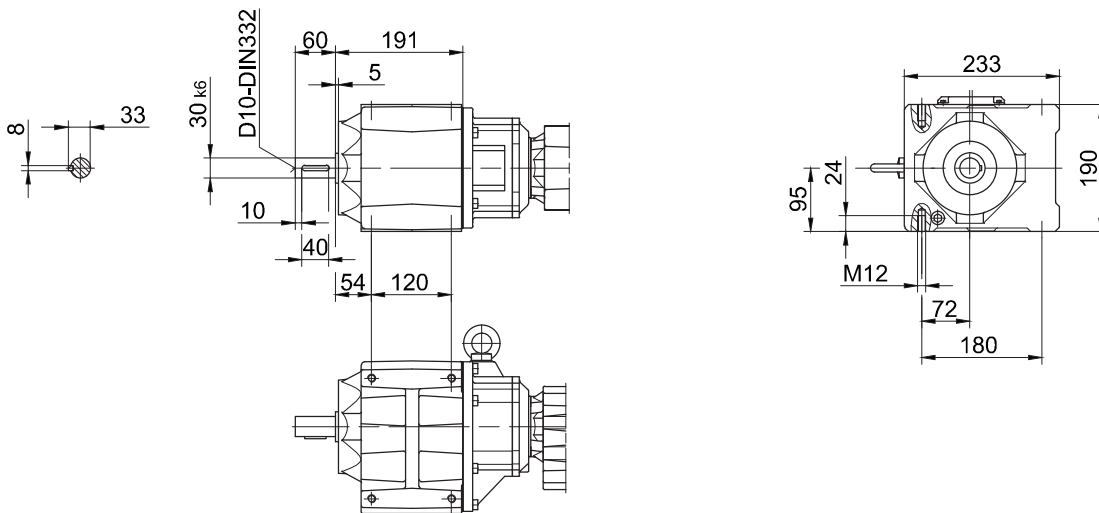
Flansch mit Gewindelöchern

Code -71/



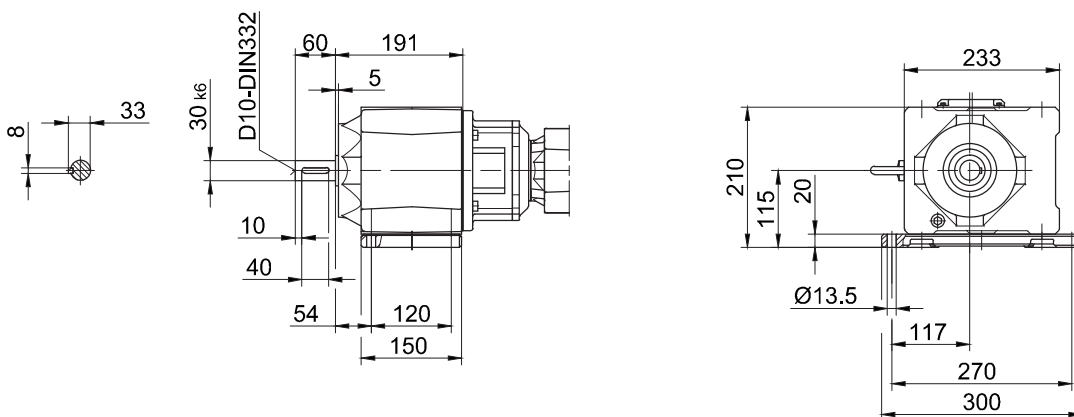
Fuss mit Gewindelöchern links und rechts

Code -61LR/



Fussplatte links

Code -91L/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

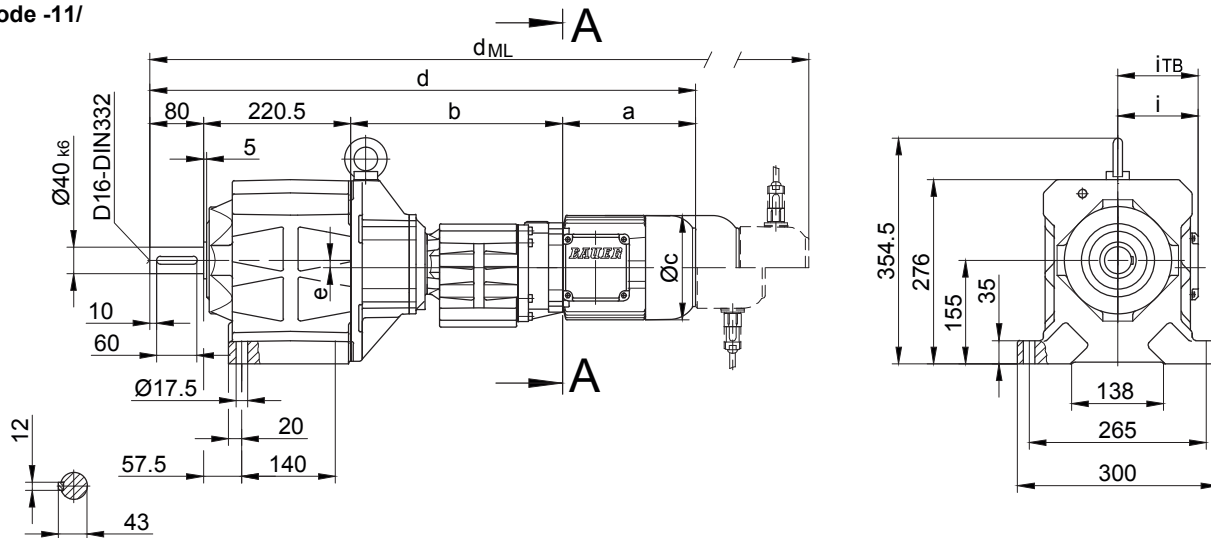
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG50G10

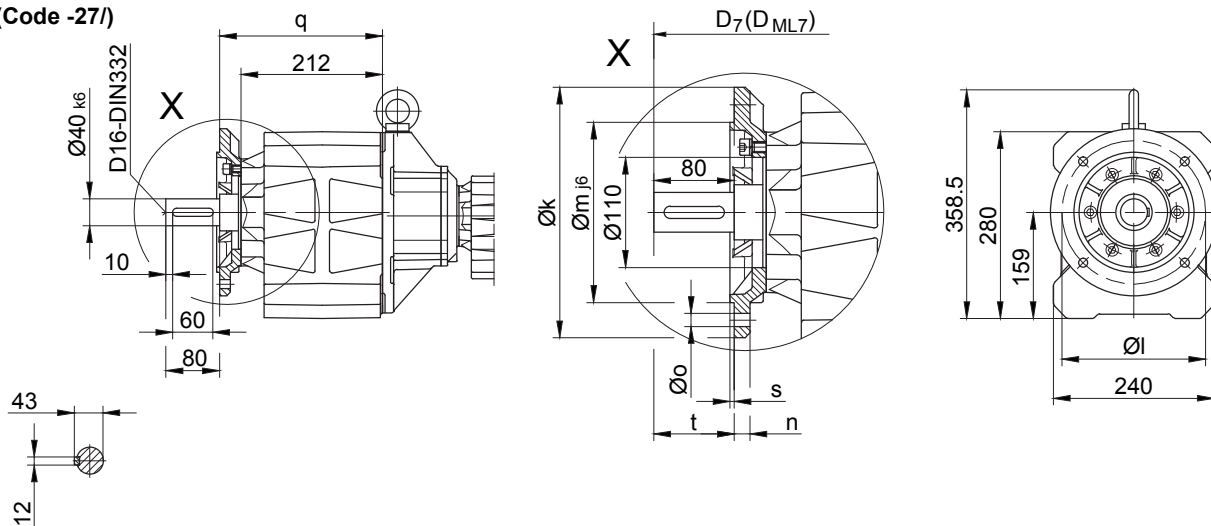
Fussausführung mit Durchgangslöchern

Code -11/



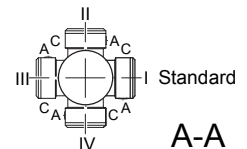
Flansch mit Durchgangslöchern

Code -37/  
(Code -27/)



Flanschmasse

BG50G..	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	250	215	180	16	13.5	244	4	80	d+23.5	d <sub>ML</sub> +23.5
klein -27/	200	165	130	12	11	241	3.5	83	d+23.5	d <sub>ML</sub> +23.5

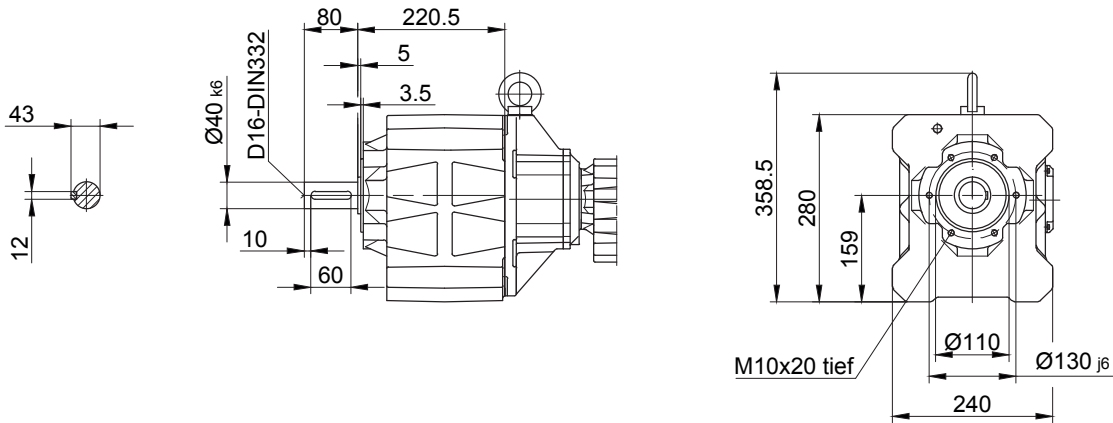


Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BG50G10-../D05..	170	313	123	783.5	11	100	117	825.5	886.5	928	-
BG50G10-../D06..	170	313	123	783.5	11	100	119	825.5	886.5	928	-
BG50G10-../D07..	190	313	123	803.5	11	100	119	845.5	906.5	948	-
BG50G10-../D..08..	200	317	156	817.5	11	115	136.5	883.5	924.5	991	883.5
BG50G10-../D..09..	251	331.5	181	883	11	124	158	976	990	1080.5	976

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

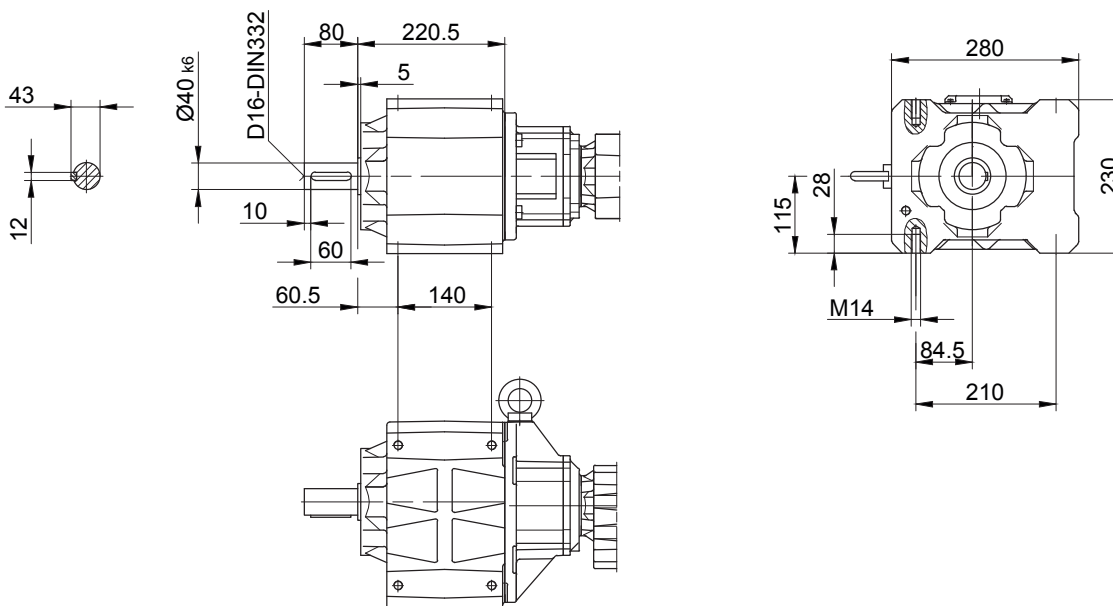
Flansch mit Gewindelöchern

Code -71/



Fuss mit Gewindelöchern links und rechts

Code -61LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

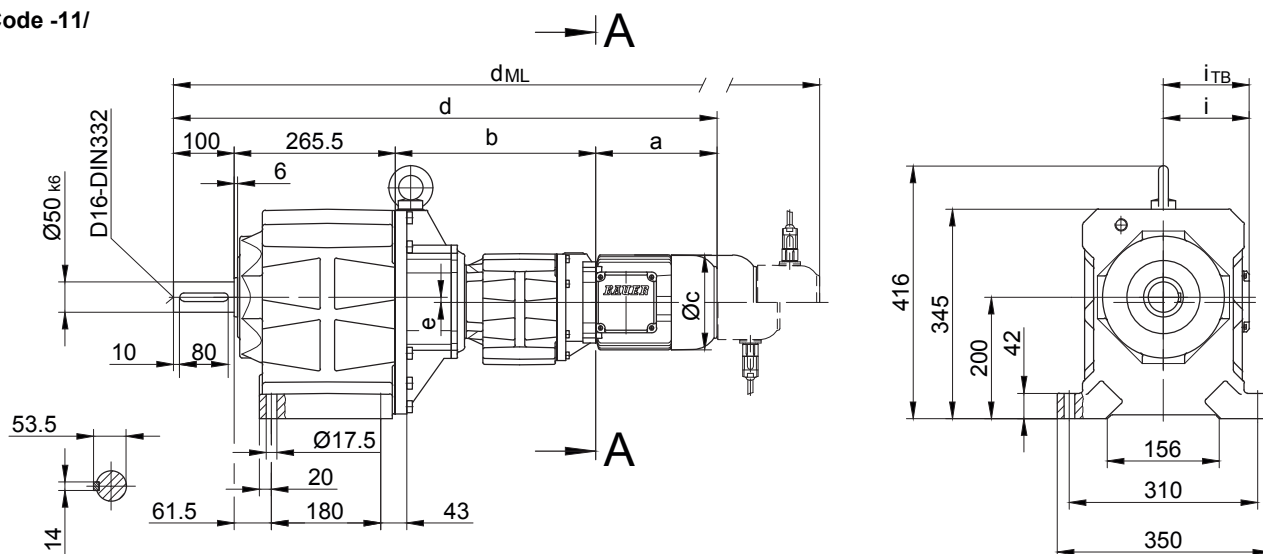
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG60G20

Fussausführung mit Durchgangslöchern

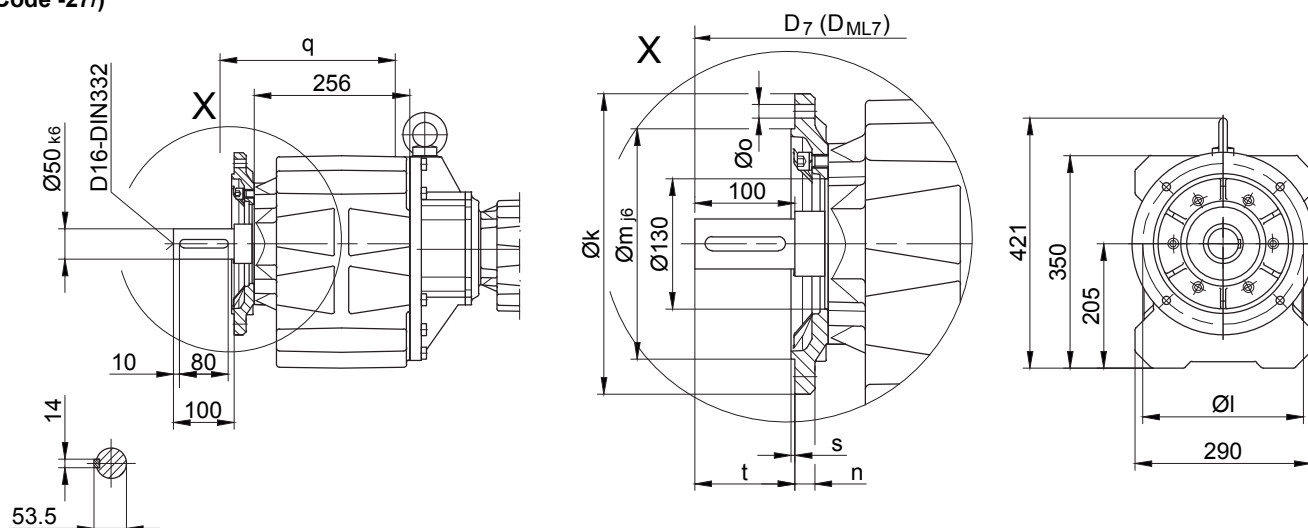
Code -11/



Flansch mit Durchgangslöchern

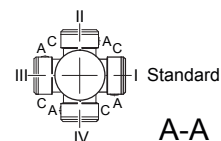
Code -37/

(Code -27/)



Flanschmasse

BG60G..	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	300	265	230	20	13.5	289	4	100	d+23.5	d <sub>ML</sub> +23.5
klein -27/	250	215	180	16	13.5	286	4	103	d+23.5	d <sub>ML</sub> +23.5



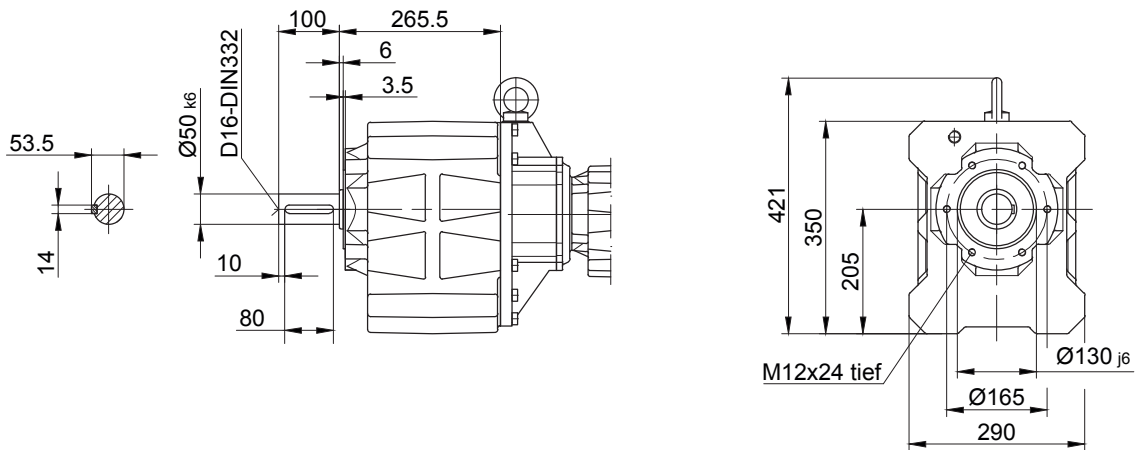
Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG60G20-../D05..	170	326	123	861.5	8.5	100	117	903.5	964.5	1006	-
BG60G20-../D06..	170	326	123	861.5	8.5	100	119	903.5	964.5	1006	-
BG60G20-../D07..	190	326	123	881.5	8.5	100	119	923.5	984.5	1026	-
BG60G20-../D..08..	200	330	156	895.5	8.5	115	136.5	961.5	1002.5	1069	961.5
BG60G20-../D..09..	251	344.5	181	961	8.5	124	158	1054	1068	1158.5	1054

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



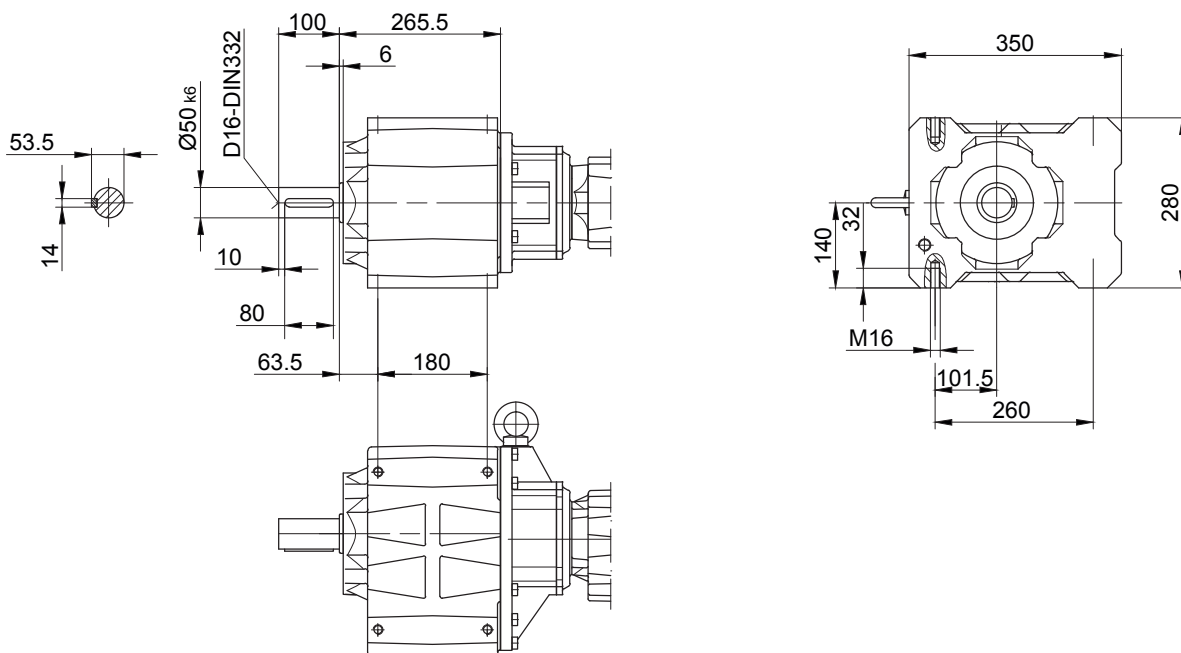
Flansch mit Gewindelöchern

Code -71/



Fuss mit Gewindelöchern links und rechts

Code -61LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

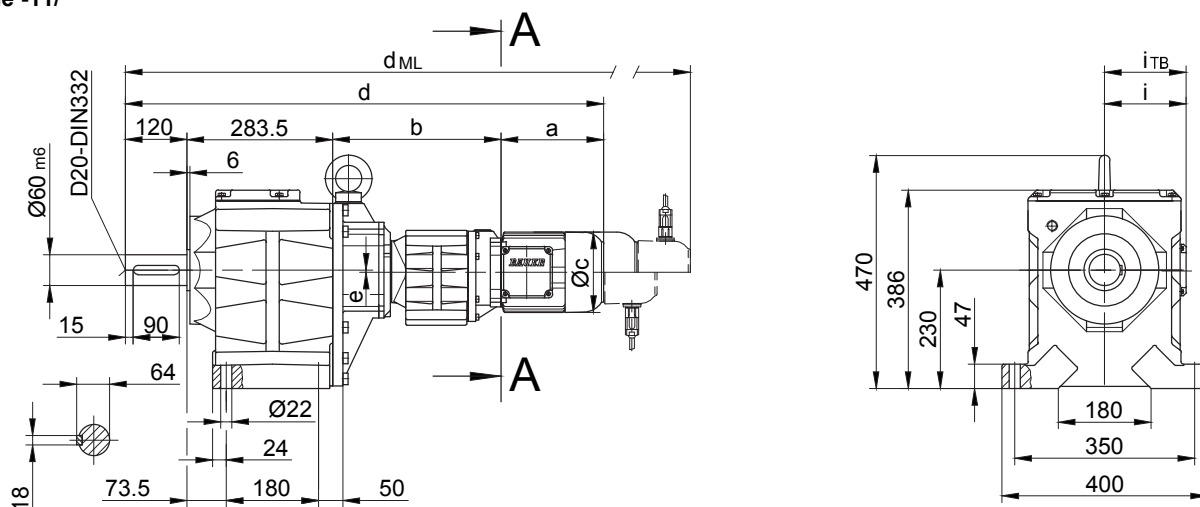
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG70G20

Fussausführung mit Durchgangslöchern

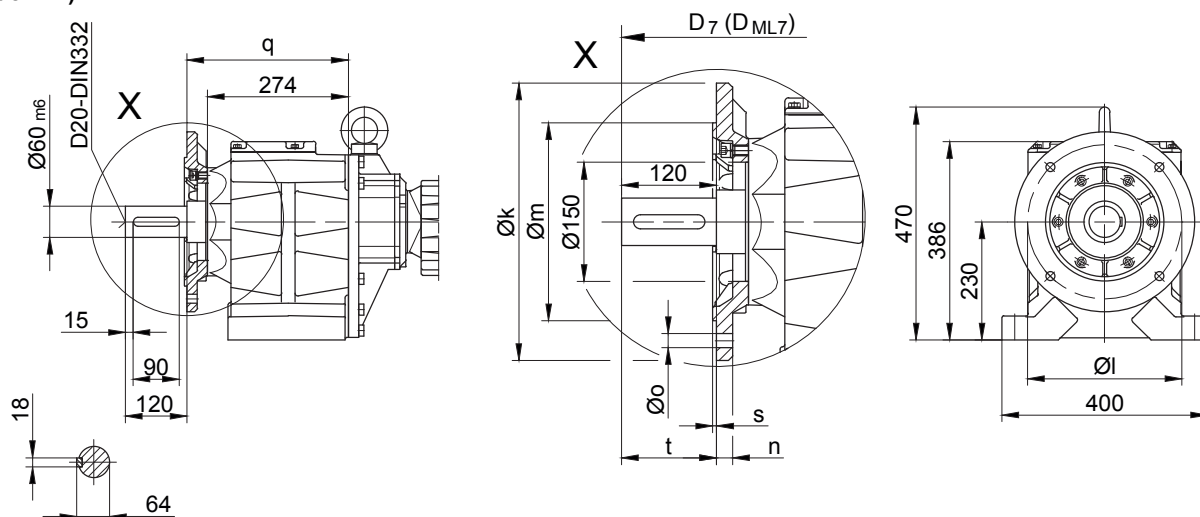
Code -11/



Flansch mit Durchgangslöchern

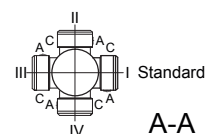
Code -37/

(Code -27/)



Flanschmasse

BG70G..	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	350	300	250 <sub>h6</sub>	20	17.5	314	5	120	d+30.5	d <sub>ML</sub> +30.5
klein -27/	300	265	230 <sub>j6</sub>	20	13.5	322	4	112	d+30.5	d <sub>ML</sub> +30.5

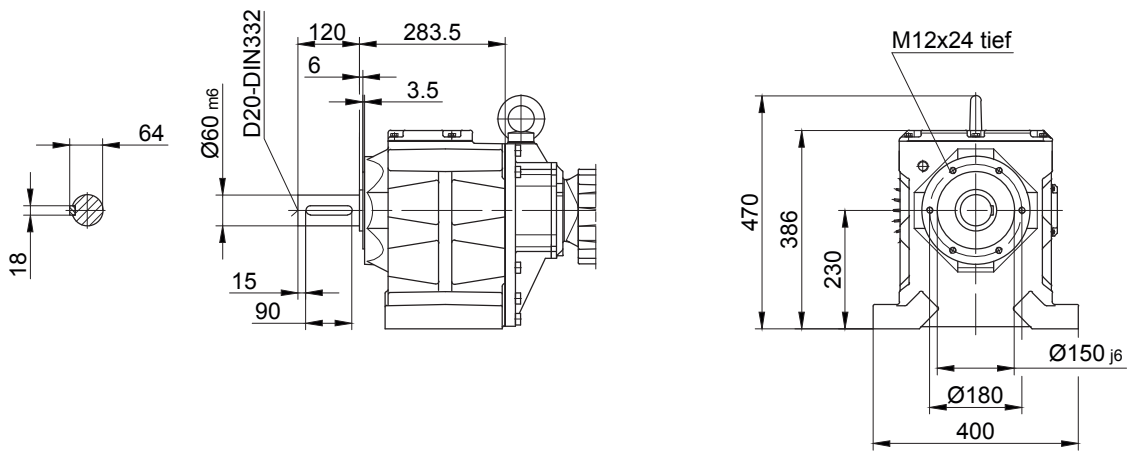


Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BG70G20-../D05..	170	324	123	897.5	1	100	117	939.5	1000.5	1042	-
BG70G20-../D06..	170	324	123	897.5	1	100	119	939.5	1000.5	1042	-
BG70G20-../D07..	190	324	123	917.5	1	100	119	959.5	1020.5	1062	-
BG70G20-../D..08..	200	328	156	931.5	1	115	136.5	997.5	1038.5	1105	997.5
BG70G20-../D..09..	251	342.5	181	997	1	124	158	1090	1104	1194.5	1090

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

Flansch mit Gewindelöchern

Code -71/



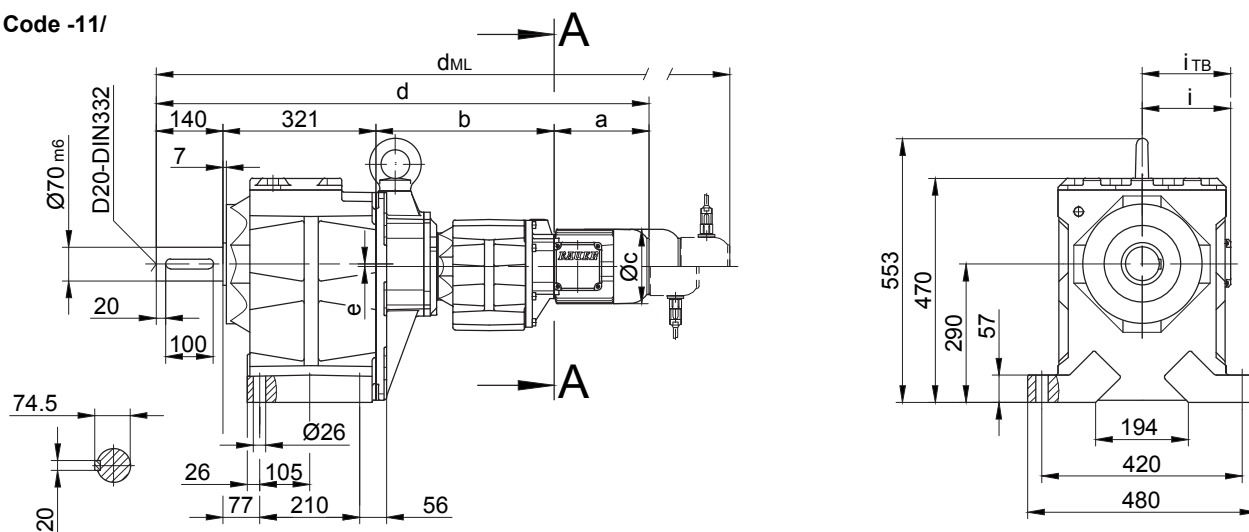
# Stirnrad-Getriebemotoren Reihe BG

## Maßbild

### BG80G40

Fussausführung mit Durchgangslöchern

Code -11/

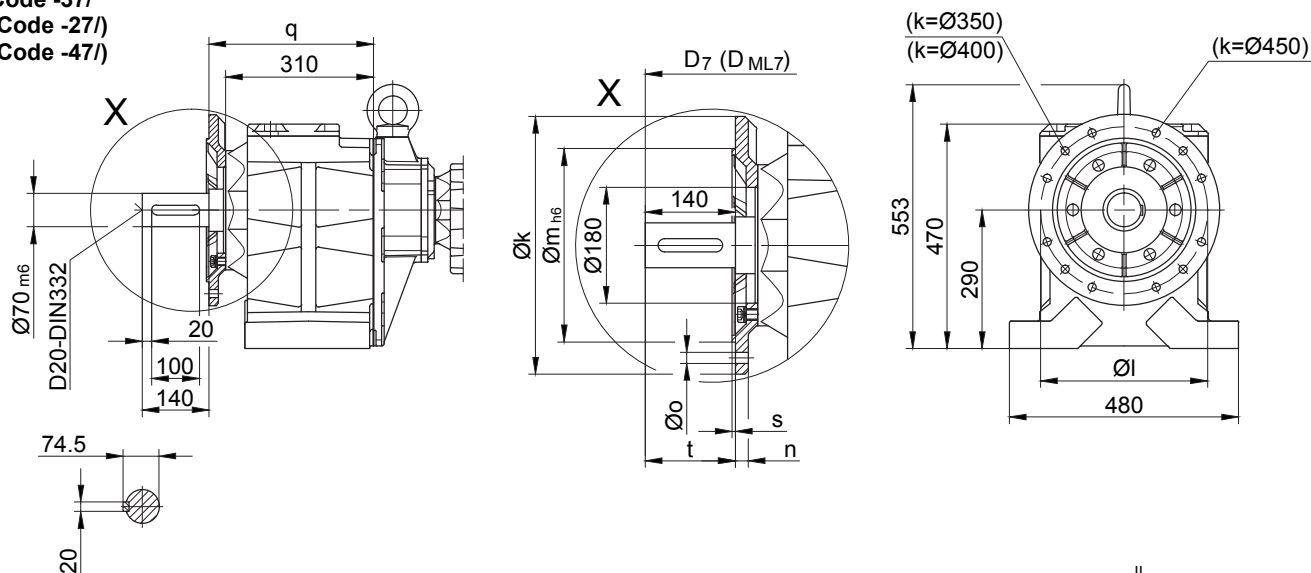


Flansch mit Durchgangslöchern

Code -37/

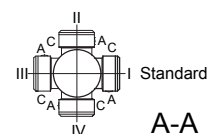
(Code -27/)

(Code -47/)



Flanschmasse

BG80G..	k	l	m	n	o	q	s	t	$D_7$	$D_{ML7}$
Standard -37/	400	350	300	20	4 x $\text{Ø}17.5$	345	5	140	$d+24$	$d_{ML}+24$
klein -27/	350	300	250	20	4 x $\text{Ø}17.5$	345	5	140	$d+24$	$d_{ML}+24$
gross -47/	450	400	350	22	8 x $\text{Ø}17.5$	355	5	130	$d+24$	$d_{ML}+24$

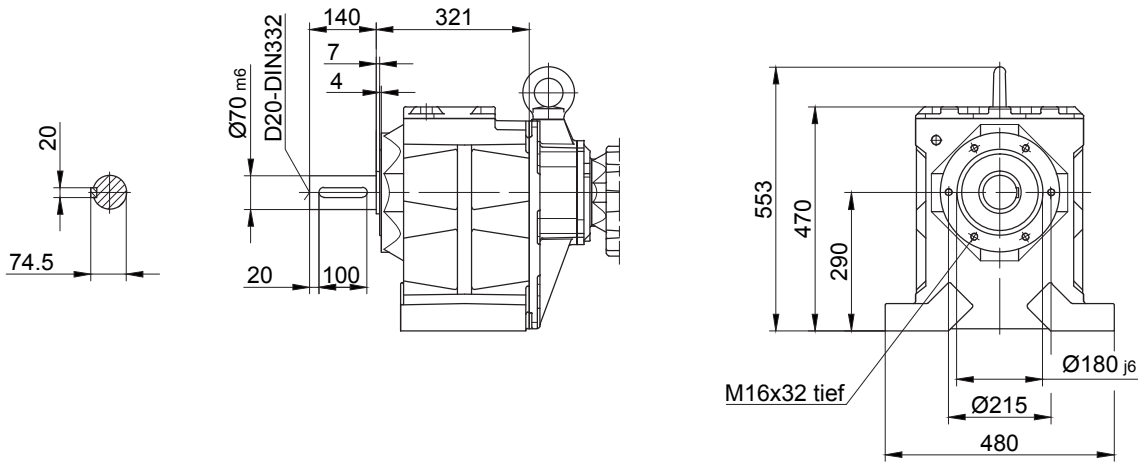


Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							$i_{TB}$	ES..	G	ES../ZS..-G	RR/RL
								$d_{ML}$	$d_{ML}$	$d_{ML}$	$d_{ML}$
BG80G40-../D..08..	200	373	156	1034	-	115	136.5	1100	1141	1207.5	1100
BG80G40-../D..09..	251	387.5	181	1099.5	-	124	158	1192.5	1206.5	1297	1192.5
BG80G40-../D..11..	319	394	228	1174	-	181	181	1272	1281	1376.5	1272

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

Flansch mit Gewindelöchern

Code -71/



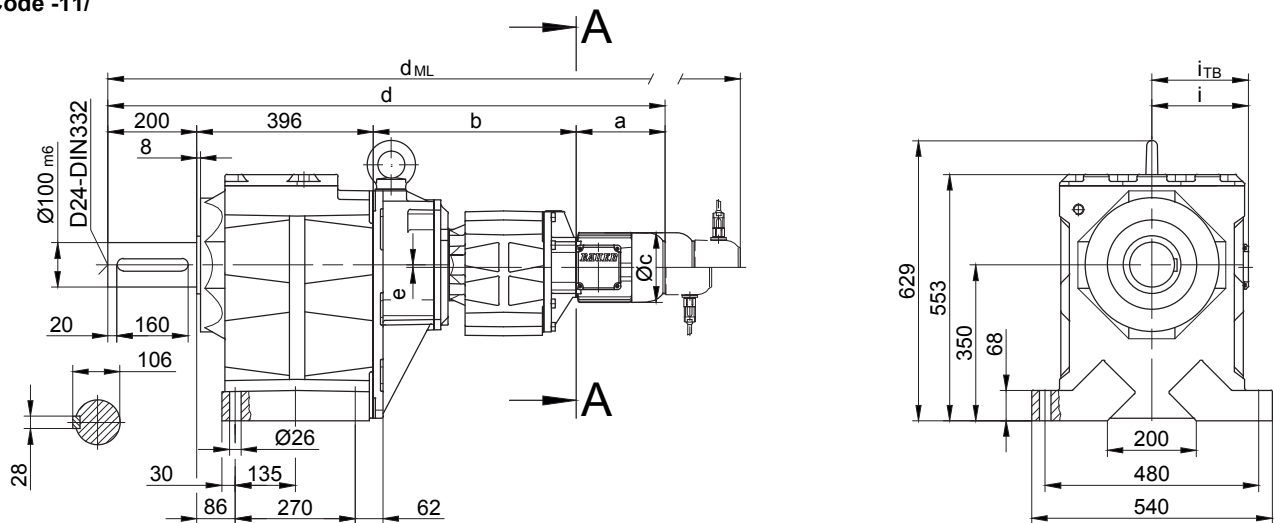
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG90G50

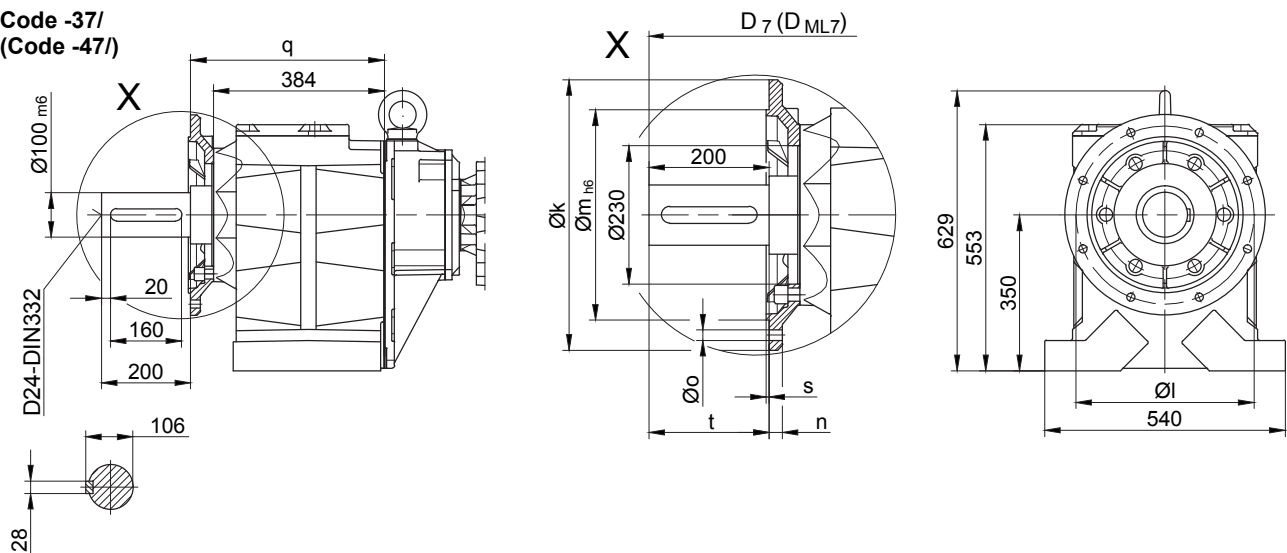
Fussausführung mit Durchgangslöchern

Code -11/



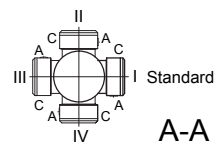
Fussausführung mit Durchgangslöchern

Code -37/  
(Code -47/)



Flanschmasse

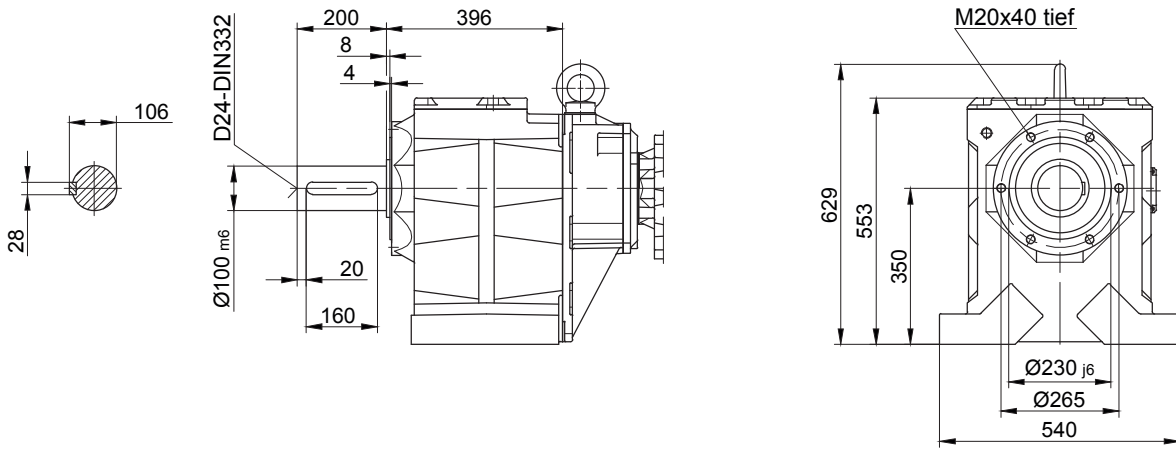
BG90G...	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	450	400	350	22	17.5	439	5	200	d+43	d <sub>ML</sub> +43
gross -47/	550	500	450	22	17.5	444	5	195	d+43	d <sub>ML</sub> +43



Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	ES../ZS..	G	ES../ZS..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG90G50-../D..08..	200	456	156	1252	6	115	136.5	1318	1359	1425.5	1318
BG90G50-../D..09..	251	470.5	181	1317.5	6	124	158	1410.5	1424.5	1514	1410.5
BG90G50-../D..11..	319	477	228	1392	6	181	181	1490	1499	1594.5	1490
BG90G50-../D..13..	393	490	258	1479	6	218	218	1590	1586	1694.5	1590
BG90G50-../D..16..	429	504	322	1529	6	244	244	1673	1637	1777	1673
BG90G50-../D..18..	528	535	368	1659	6	244	244	1808	1767	1912	1808

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

Flansch mit Gewindelöchern  
Code -71/



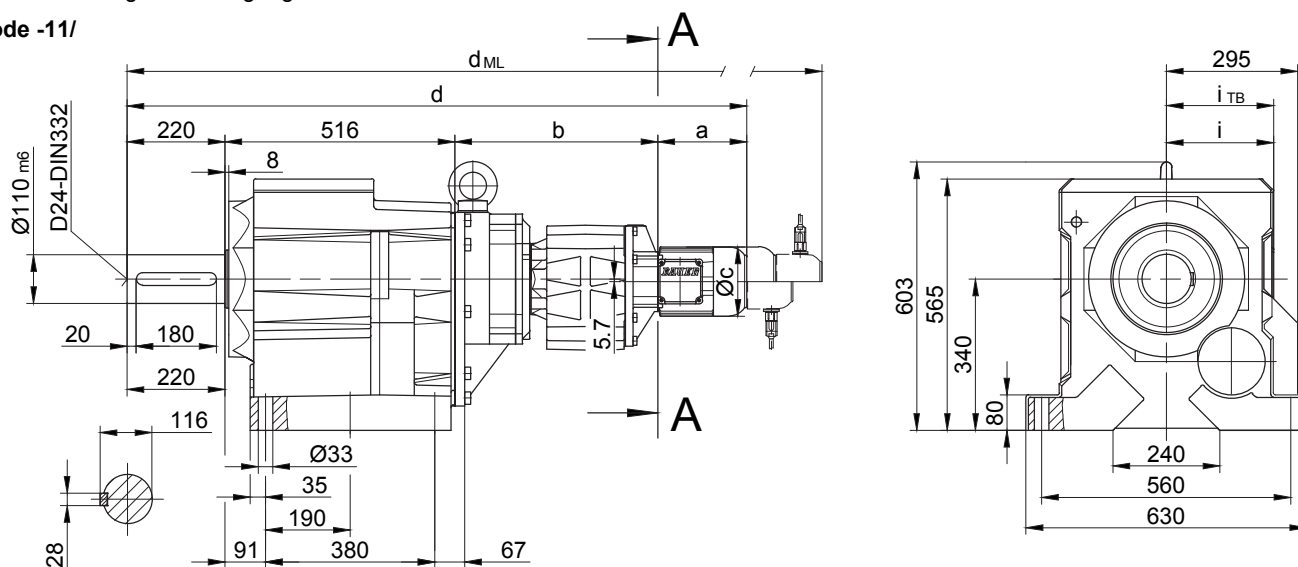
# Stirrad-Getriebemotoren Reihe BG

## Maßbild

### BG100G50

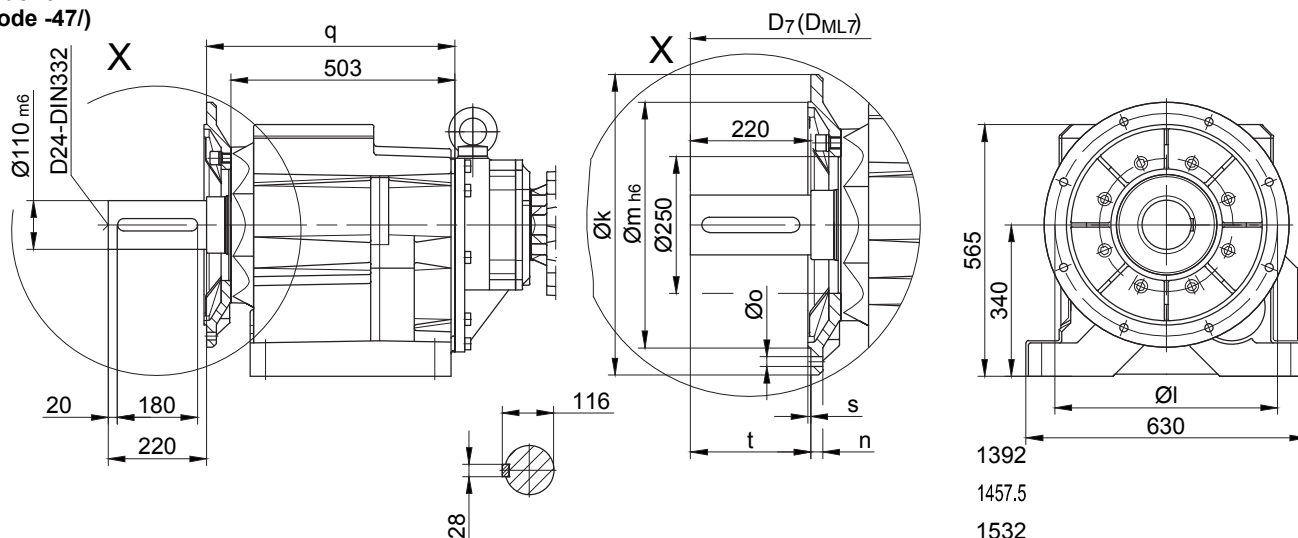
Fussausführung mit Durchgangslöchern

Code -11/



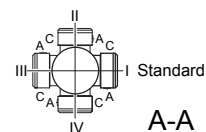
Flansch mit Durchgangslöchern

Code -37/  
(Code -47/)



Flanschmasse

BG100(Z)	k	l	m	n	o	q	s	t	D <sub>7</sub>	D <sub>ML7</sub>
Standard -37/	550	500	450	22	17.5	558	5	220	d+42	d <sub>ML</sub> +42
gross -47/	660	600	550	25	22	552	6	226	d+42	d <sub>ML</sub> +42



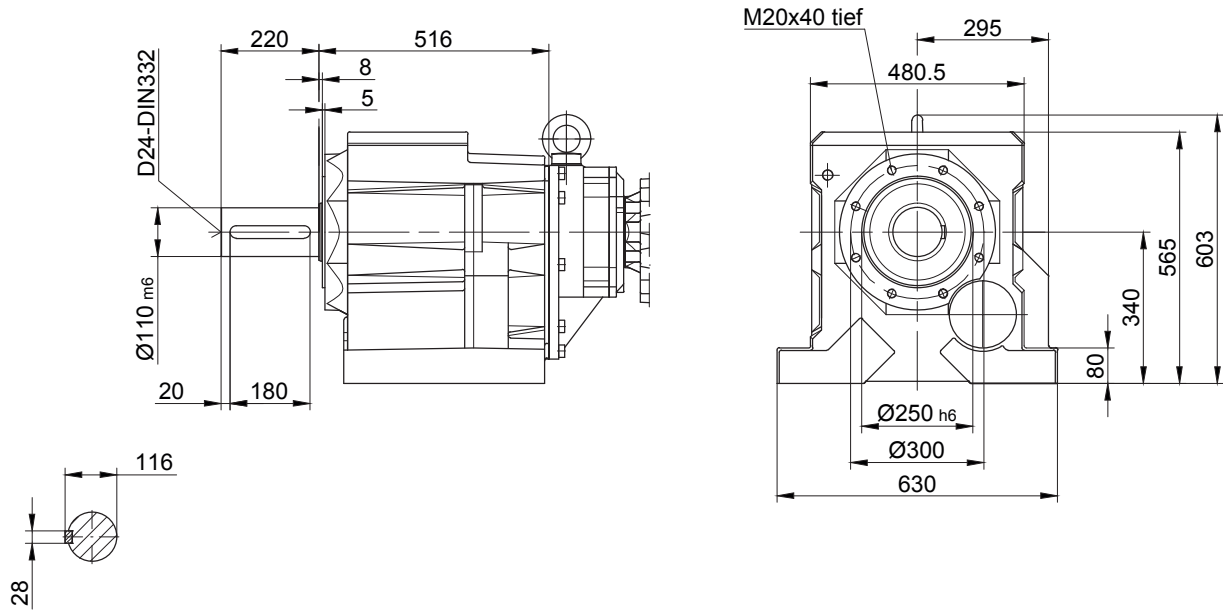
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	ES../ZS..	G	ES../ZS..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BG100G50-../D..08..	200	456	156	1392	115	136.5	1458	1499	1565.5	1458
BG100G50-../D..09..	251	470.5	181	1457.5	124	158	1550.5	1564.5	1655	1550.5
BG100G50-../D..11..	319	477	228	1532	181	181	1630	1639	1734.5	1630
BG100G50-../D..13..	393	490	258	1619	218	218	1730	1726	1834.5	1730
BG100G50-../D..16..	429	504	322	1669	244	244	1813	1777	1917	1813
BG100G50-../D..18..	528	535	368	1799	288	288	1948	1907	2052	1948

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

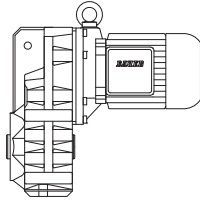


Flansch mit Gewindelöchern

Code 71/







# 11

Seite

---

## Maßbilder der Flach-Getriebemotoren

391-442

- Standard
- Doppelgetriebe

### Zusatzmaßbilder

- Vielkeilverzahnung nach DIN 5480
  - Schrumpfscheibe (SSV)
  - Schrumpfscheibenverbindung mit Abdeckung (SSV)
  - Bohrbild Seite (H)
  - Gummipuffer für Drehmomentstütze
  - Montagehilfe für Hohlwelle
  - Montagehilfe für Vielkeilverzahnung
  - Verschlusskappen (VK)
  - Verschlussdeckel (VD)
-

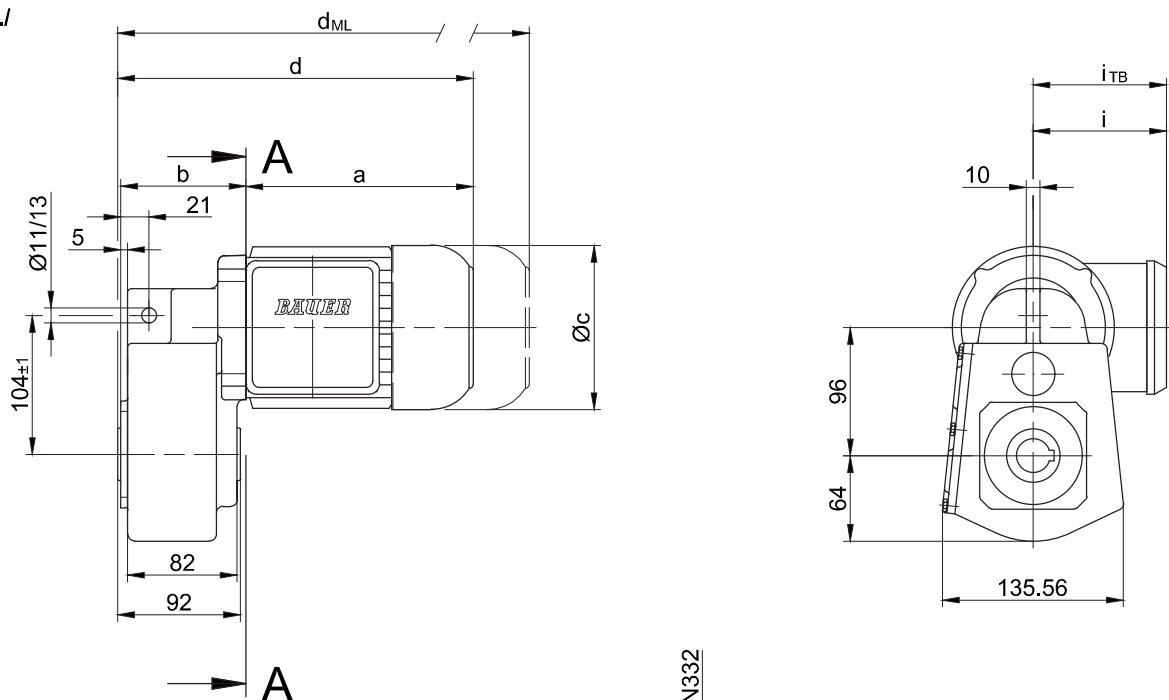
# Flach-Getriebemotoren Reihe BF

## Maßbild

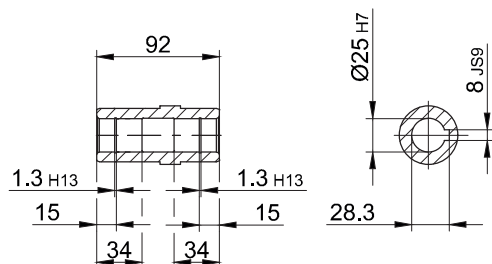
### BF06

mit Drehmomentstütze

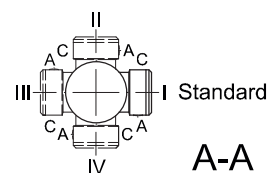
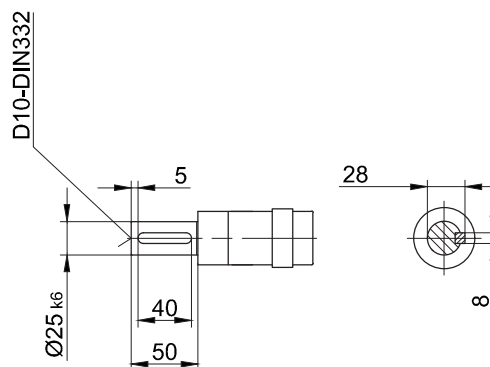
Code -0./



Code -4/



Code -1/

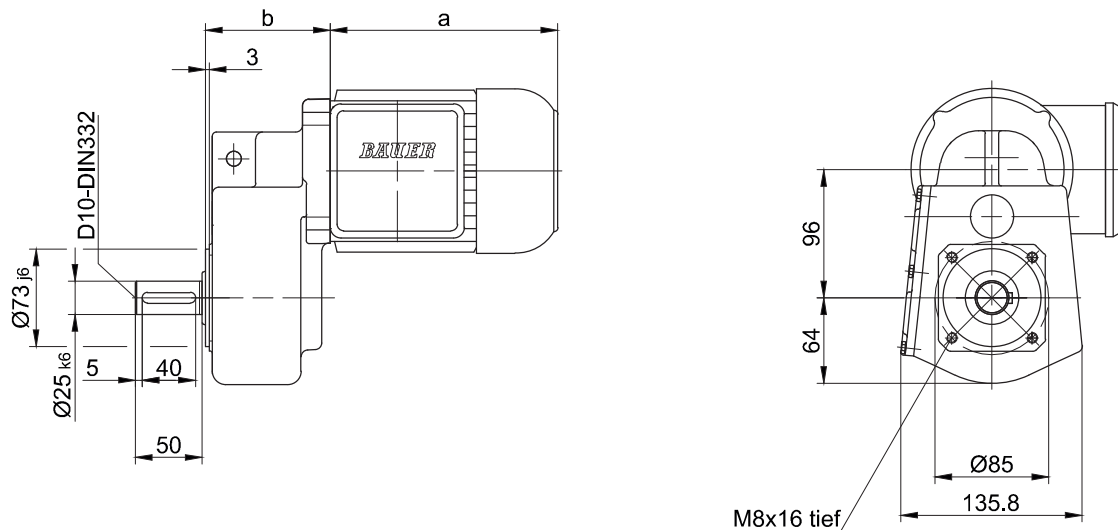


Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BF06-../D05..	170	93.5	123	267.5	100	117	309.5	370.5	412.5	-
BF06-../D06..	170	93.5	123	267.5	100	119	309.5	370.5	412.5	-
BF06-../D07..	190	94.5	123	287.5	100	119	329.5	390.5	432.5	-
BF06-../D08..	200	141	156	344	115	136.5	410	451	517.5	410

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

Flansch mit Gewindelöchern

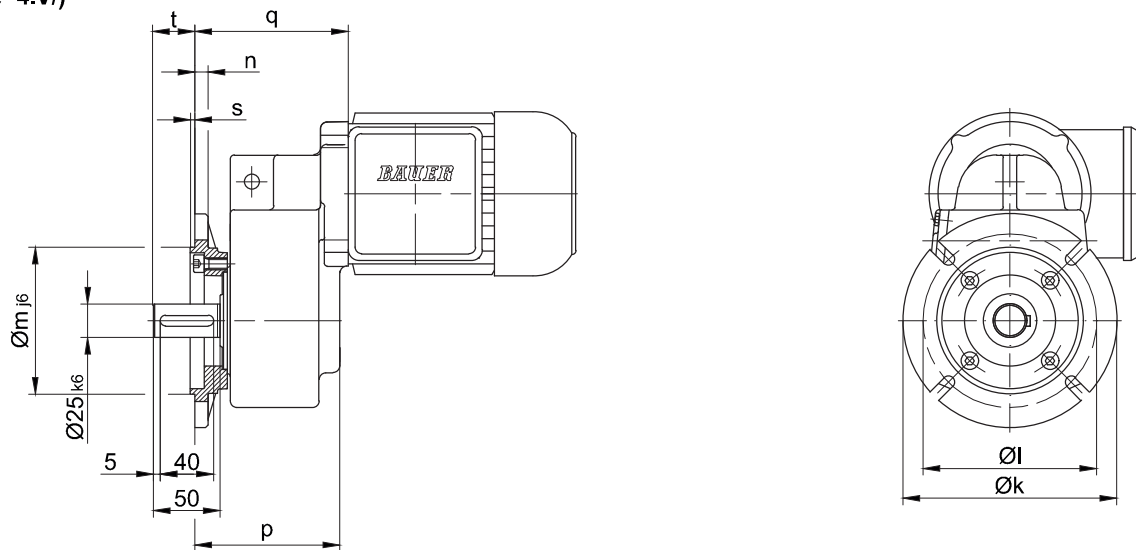
Code -7./



Flansch mit Durchgangslöchern

Code -3.V/

(Code -4.V/)



Flanschmasse

BF06	k	l	m	n	o	p	q <sub>1</sub> )	q <sub>2</sub> )	s	t
Standard -3./	140	115	95	10	9	108.5	115	163	3	31.5
gross -4./	160	130	110	10	9	108.5	115	163	3.5	31.5

1) nur bei Motorgrößen D05; D06; D07

2) nur bei Motorgröße D08..

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

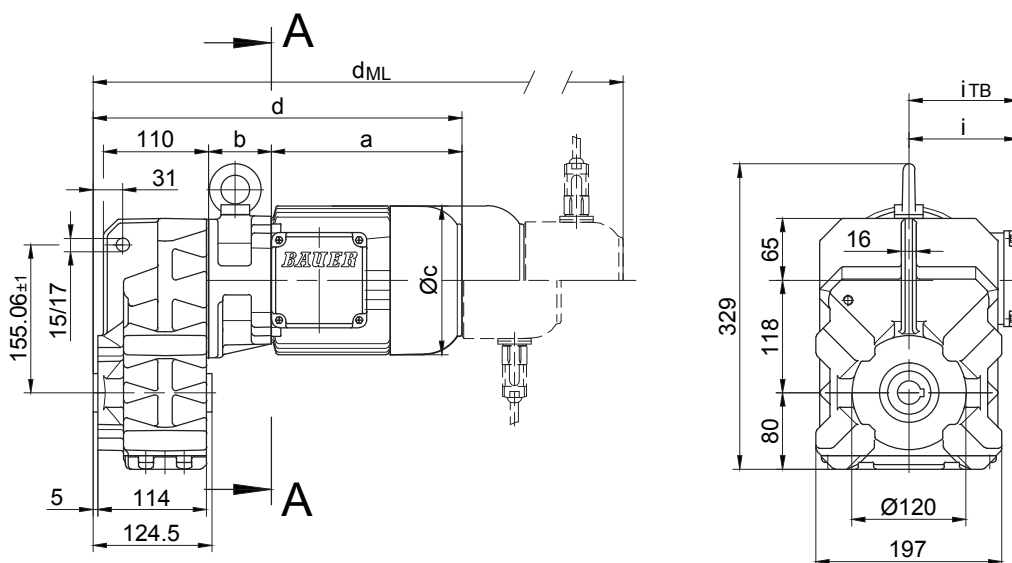
# Flach-Getriebemotoren Reihe BF

## Maßbild

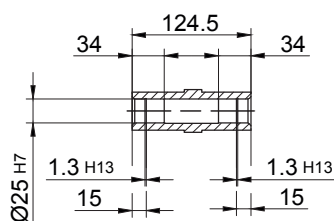
### BF10 - BF10Z

mit Drehmomentstütze

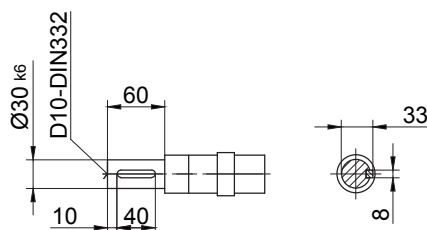
Code -0./



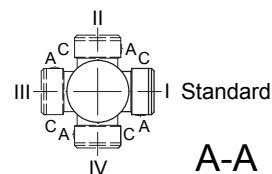
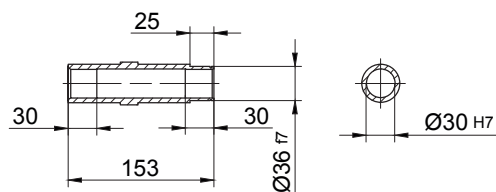
Code -4/



Code -1/



Code -5/



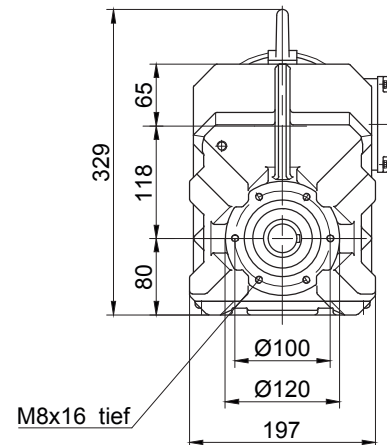
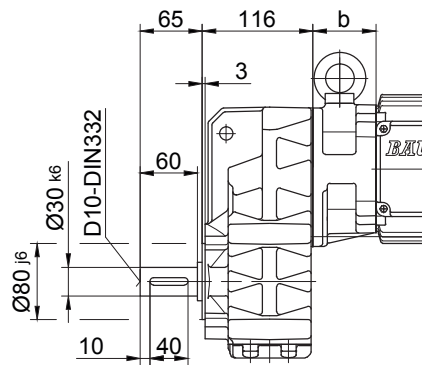
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BF10Z-../D04..	143	86	111	350	90	112	393.5	412.5	455.5	-
BF10-../D05..	170	62	123	353	100	117	395	456	497.5	-
BF10Z-../D05..	170	88	123	379	100	117	421	482	523.5	-
BF10-../D06..	170	62	123	353	100	119	395	456	497.5	-
BF10Z-../D06..	170	88	123	379	100	119	421	482	523.5	-
BF10-../D07..	190	62	123	373	100	119	415	476	517.5	-
BF10Z-../D07..	190	88	123	399	100	119	441	502	543.5	-
BF10-../D..08..	200	66	156	387	115	136.5	453	494	560.5	453
BF10Z-../D..08..	200	132	156	453	115	136.5	519	560	526.5	519
BF10-../D..09..	251	80.5	181	452.5	124	158	545.5	559.5	650	545.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### BF10 - BF10Z

Flansch mit Gewindelöchern

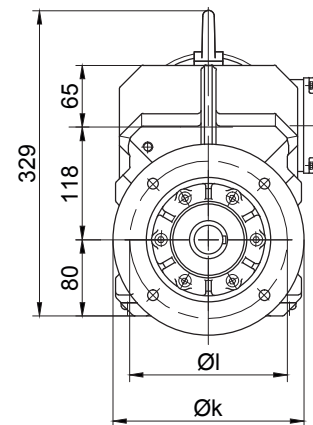
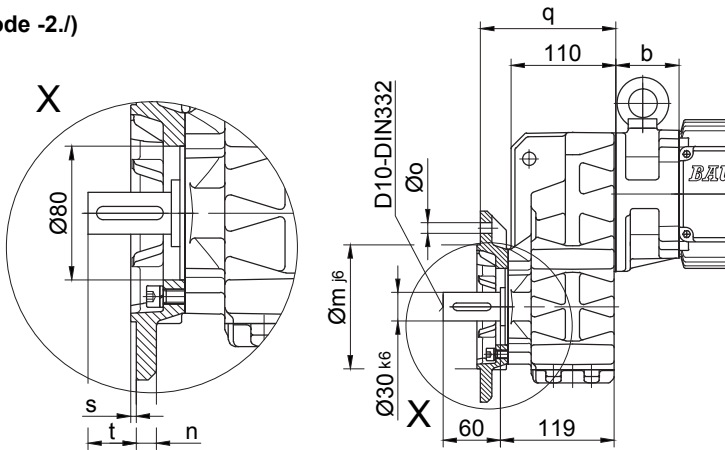
Code -7./



Flansch mit Durchgangslöchern

Code -3./

(Code -2./)

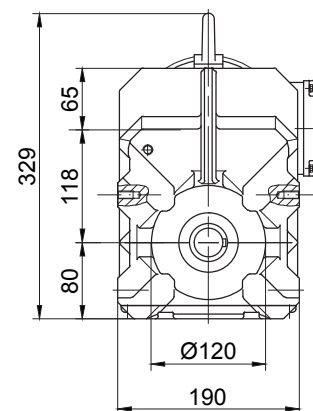
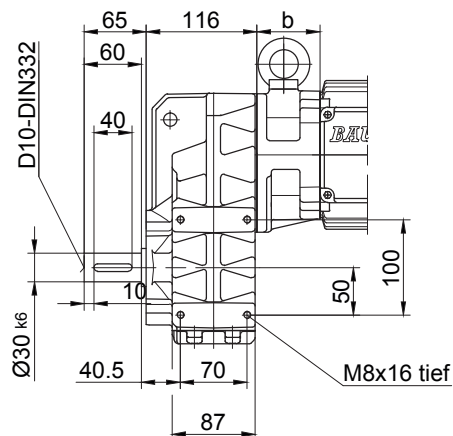


Flanschmasse

BF10(Z)	k	l	m	n	o	q	s	t
Standard -3./	200	165	130	12	11	142	3.5	39
klein -2./	160	130	110	10	9	135	3.5	46

Fuss mit Gewindelöchern links und rechts

Code -6.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

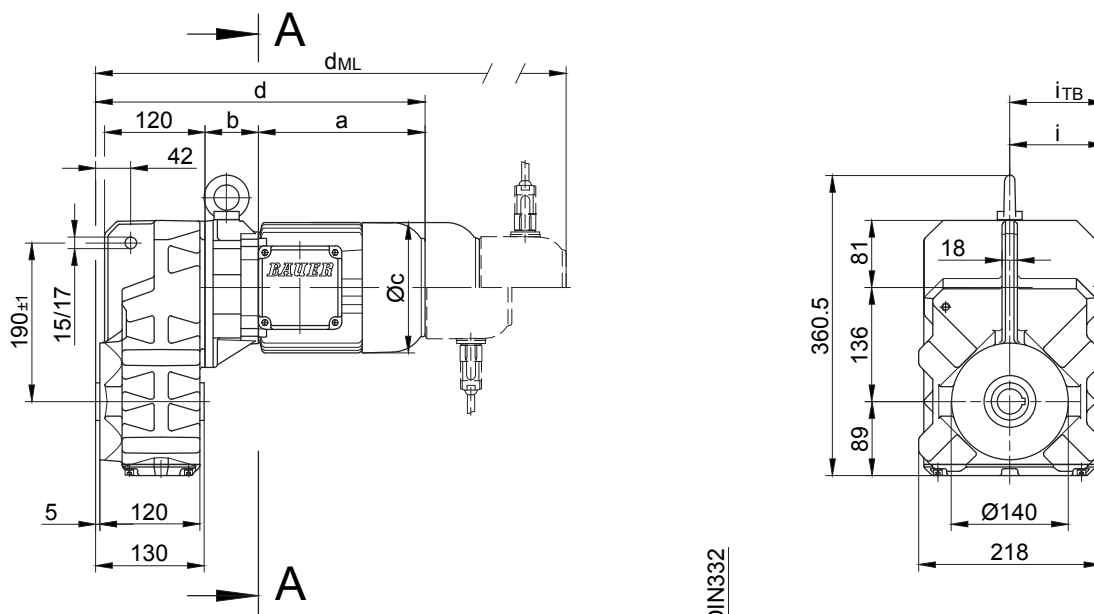
# Flach-Getriebemotoren Reihe BF

## Maßbild

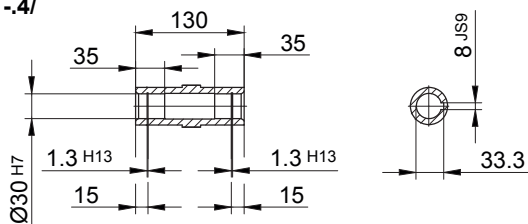
### BF20 - BF20Z

mit Drehmomentstütze

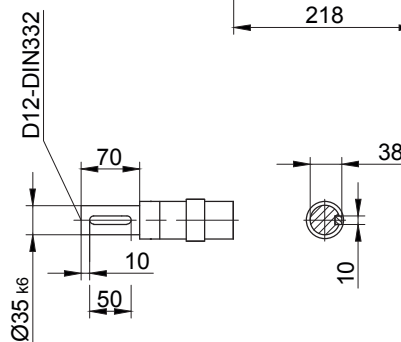
Code -0./



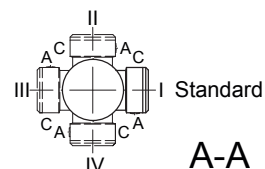
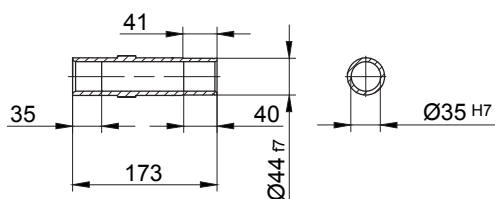
Code -4/



Code -1/



Code -5/



Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BF20Z-../D04..	143	100	111	374	90	112	417.5	436.5	479.5	-
BF20-../D05..	170	60	123	361	100	117	403	464	505.5	-
BF20Z-../D05..	170	102	123	403	100	117	445	506	547.5	-
BF20-../D06..	170	60	123	361	100	119	403	464	505.5	-
BF20Z-../D06..	170	102	123	403	100	119	445	506	547.5	-
BF20-../D07..	190	60	123	381	100	119	423	484	525.5	-
BF20Z-../D07..	190	102	123	423	100	119	466	526	567.5	-
BF20-../D..08..	200	64	156	395	115	136.5	461	502	568.5	461
BF20Z-../D..08..	200	146	156	477	115	136.5	543	584	650.5	543
BF20-../D..09..	251	78.5	181	460.5	124	158	553.5	567.5	658	553.5

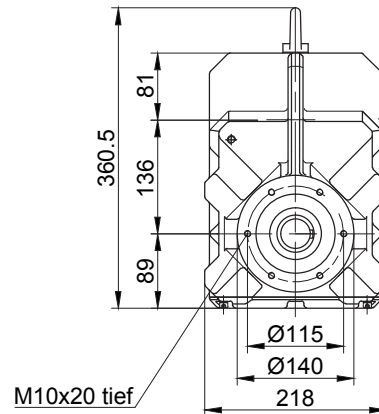
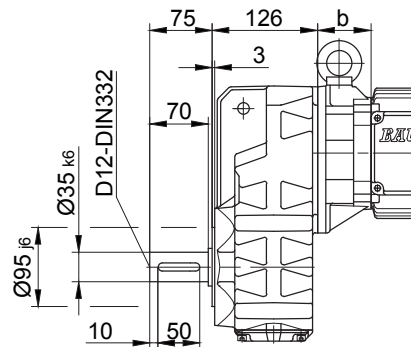
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



### BF20 - BF20Z

Flansch mit Gewindelöchern

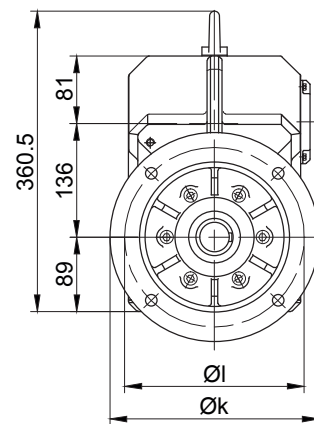
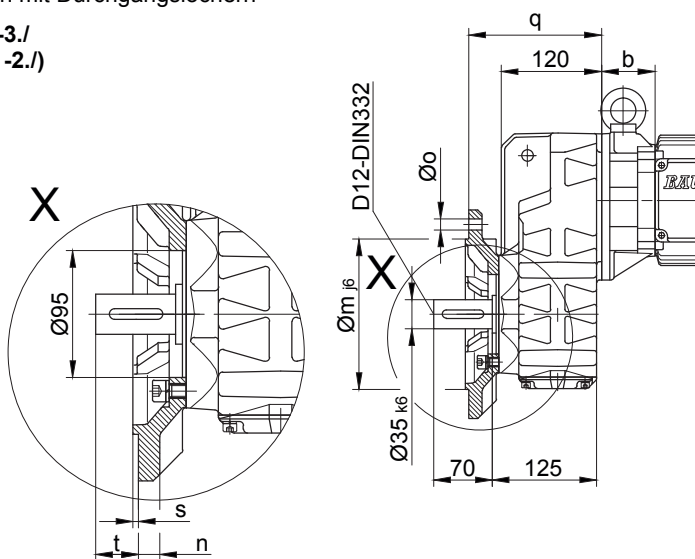
Code -7./



Flansch mit Durchgangslöchern

Code -3./

(Code -2./)

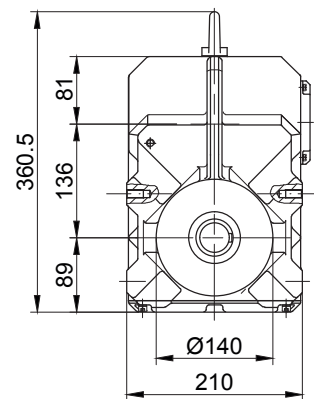
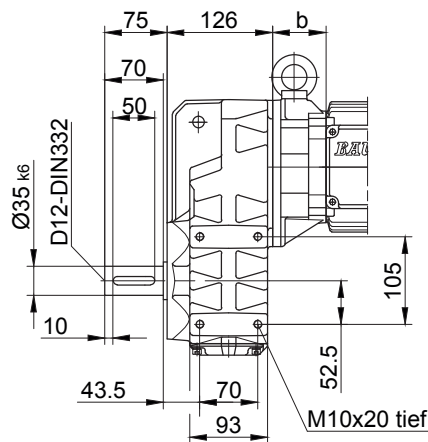


Flanschmasse

BF20(Z)	k	l	m	n	o	q	s	t
Standard -3./	250	215	180	16	13.5	159	4	42
klein -2./	200	165	130	12	11	150	3.5	51

Fuss mit Gewindelöchern links und rechts

Code -6.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

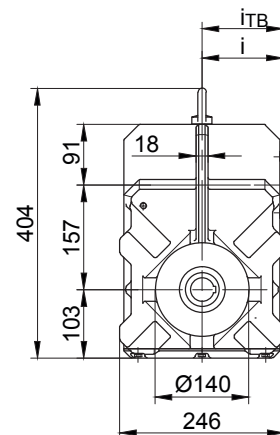
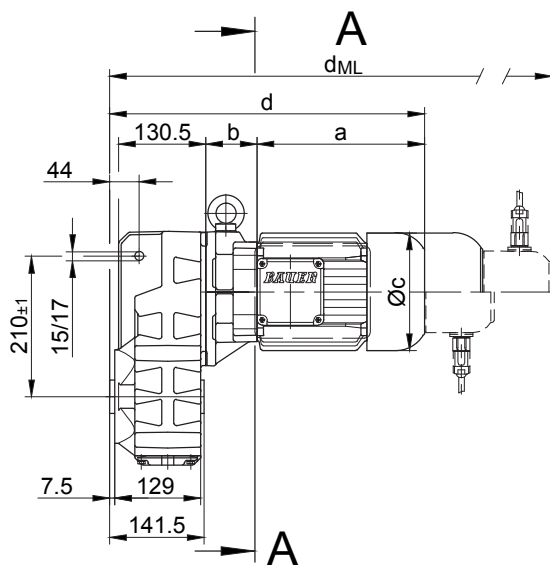
# Flach-Getriebemotoren Reihe BF

## Maßbild

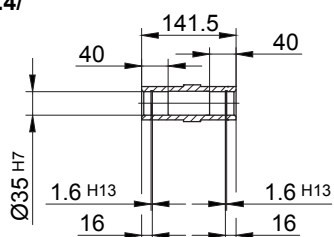
### BF30 - BF30Z

mit Drehmomentstütze

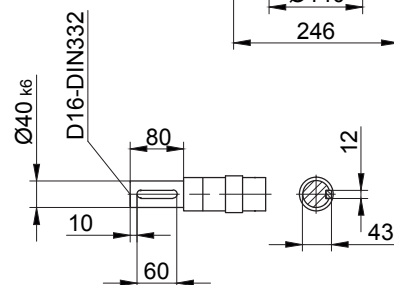
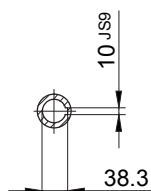
Code -0/



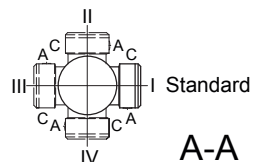
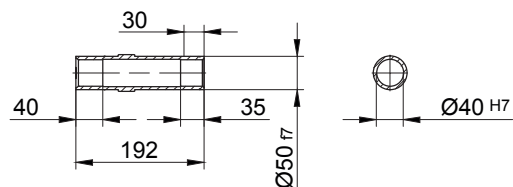
Code -4/



Code -1/



Code -5/



A-A

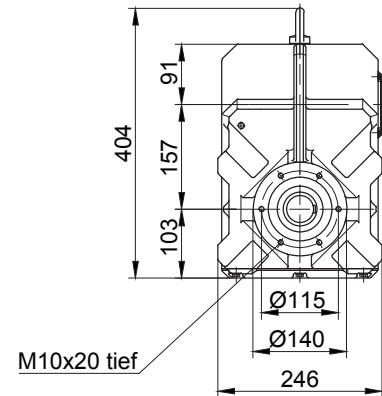
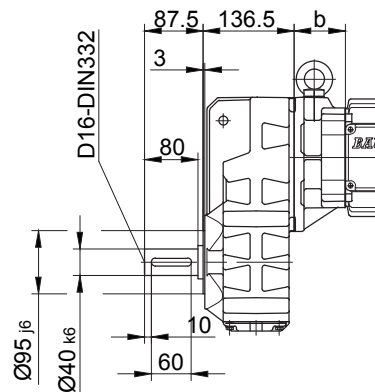
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						$i_{TB}$	E../ES..	G	E../ES..-G	RR/RL
							$d_{ML}$	$d_{ML}$	$d_{ML}$	$d_{ML}$
BF30-../D05..	170	58	123	373	100	117	415	476	518	-
BF30Z-../D05..	170	133.5	123	448	100	117	490	551	593	-
BF30-../D06..	170	58	123	373	100	119	415	476	518	-
BF30Z-../D06..	170	133.5	123	448	100	119	490	551	593	-
BF30-../D07..	190	58	123	393	100	119	435	496	538	-
BF30Z-../D07..	190	133.5	123	468	100	119	510	571	613	-
BF30-../D..08..	200	62	156	406	115	136.5	472	513	579.5	472
BF30Z-../D..08..	200	137.5	156	481	115	136.5	547	588	654.5	547
BF30-../D..09..	251	76.5	181	471	124	158	564	578	668	558
BF30Z-../D..09..	251	152	181	547	124	158	640	654	744	634
BF30-../D..11..	319	83	228	546	181	181	644	653	746	635

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### BF30 - BF30Z

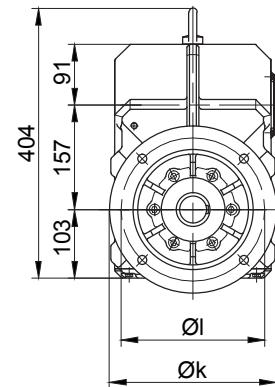
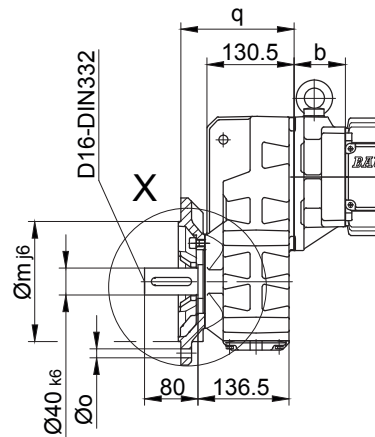
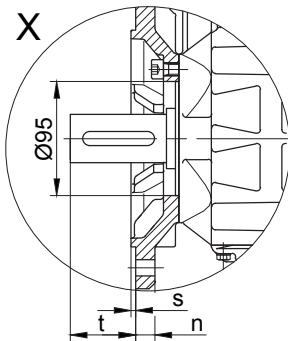
Flansch mit Gewindelöchern

Code -7./



Flansch mit Durchgangslöchern

Code -3./  
(Code -2./)

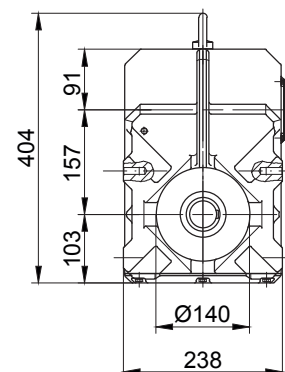
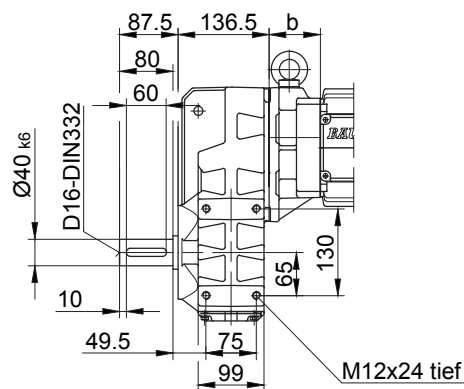


Flanschmasse

BF30(Z)	k	l	m	n	o	q	s	t
Standard -3./	250	215	180	16	13.5	169.5	4	54.5
klein -2./	200	165	130	12	11	160.5	3.5	63.5

Fuss mit Gewindelöchern links und rechts

Code -6.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

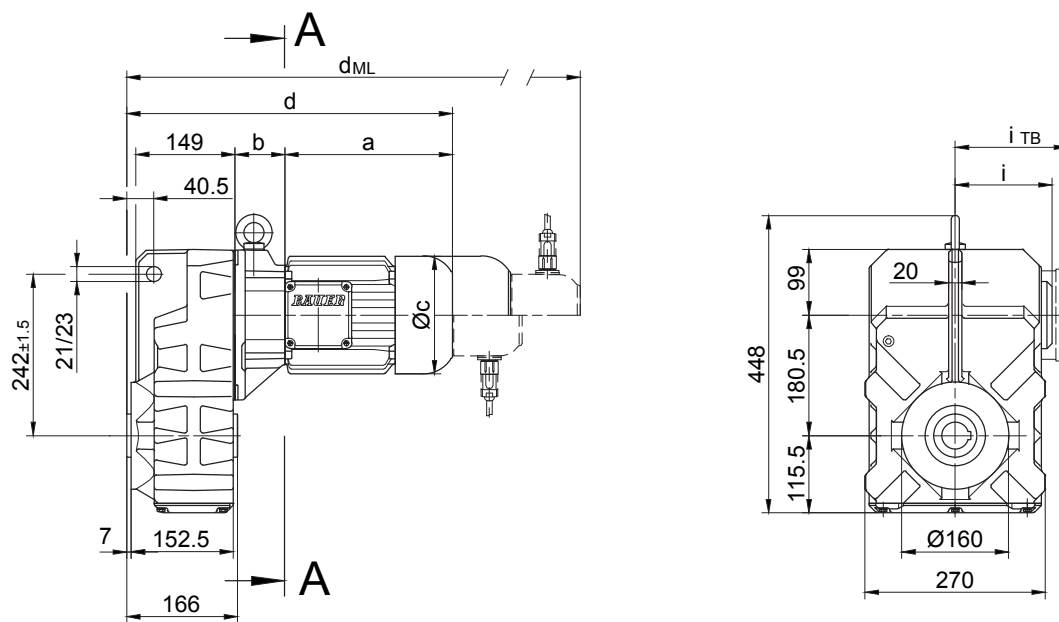
# Flach-Getriebemotoren Reihe BF

## Maßbild

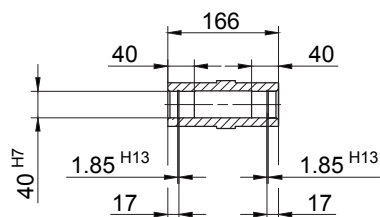
### BF40 - BF40Z

mit Drehmomentstütze

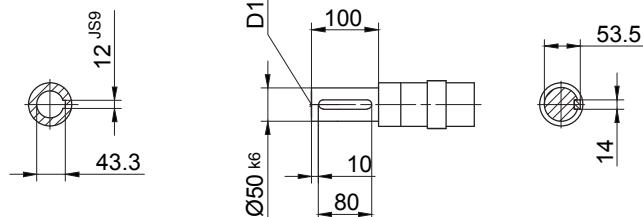
Code -0./



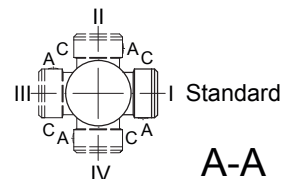
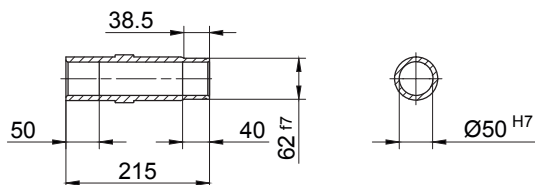
Code -4/



Code -1/



Code -5/



A-A

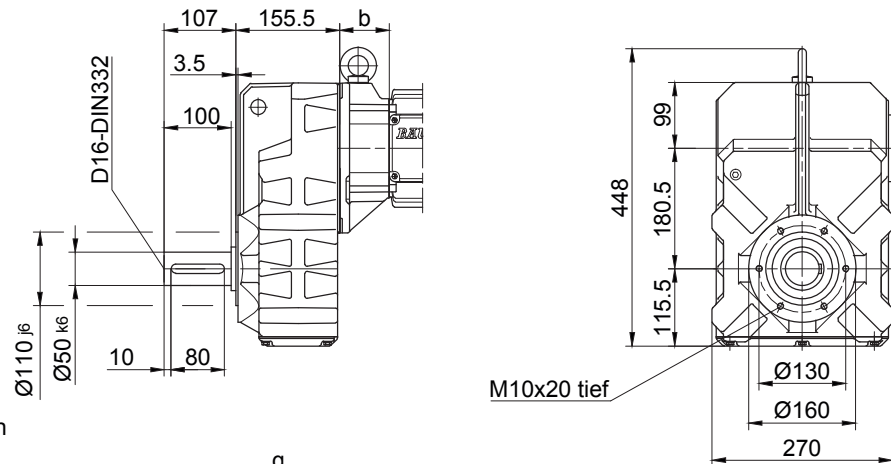
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
						d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BF40Z-../D05..	170	138.5	123	472	100	117	514	575	617	-
BF40Z-../D06..	170	138.5	123	472	100	119	514	575	617	-
BF40Z-../D07..	190	138.5	123	492	100	119	534	595	637	-
BF40-../D..08..	200	60	156	422	115	136.5	488	529	595	488
BF40Z-../D..08..	200	142.5	156	506	115	136.5	572	613	679	572
BF40-../D..09..	251	74.5	181	489	124	158	582	596	686	576
BF40Z-../D..09..	251	157	181	570	124	158	663	677	767	657
BF40-../D..11..	319	81	228	563	181	181	661	670	763	659

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### BF40 - BF40Z

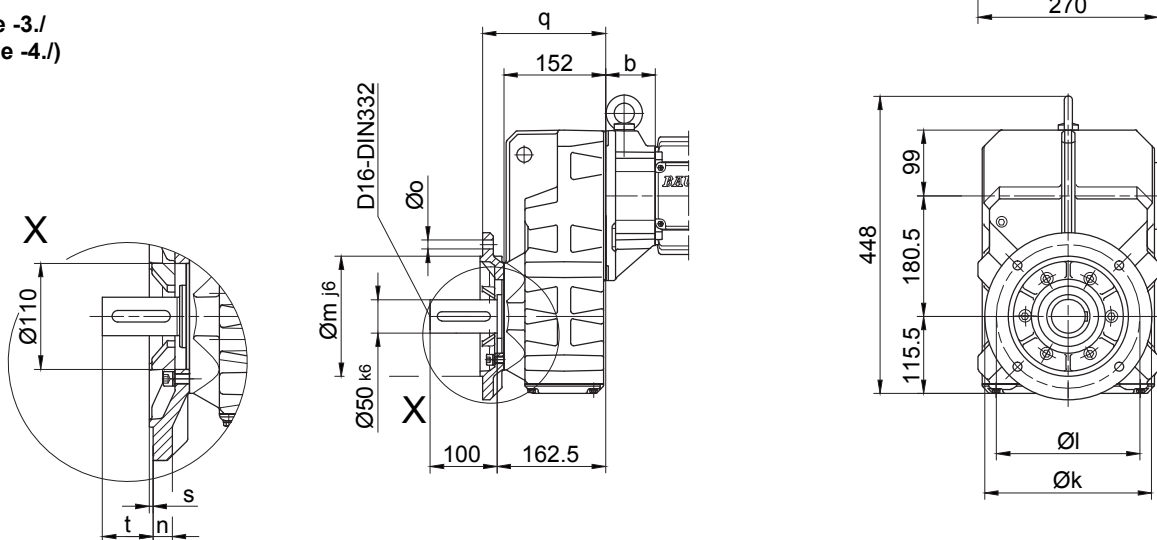
Flansch mit Gewindelöchern

Code -7./



Flansch mit Durchgangslöchern

Code -3./  
(Code -4./)

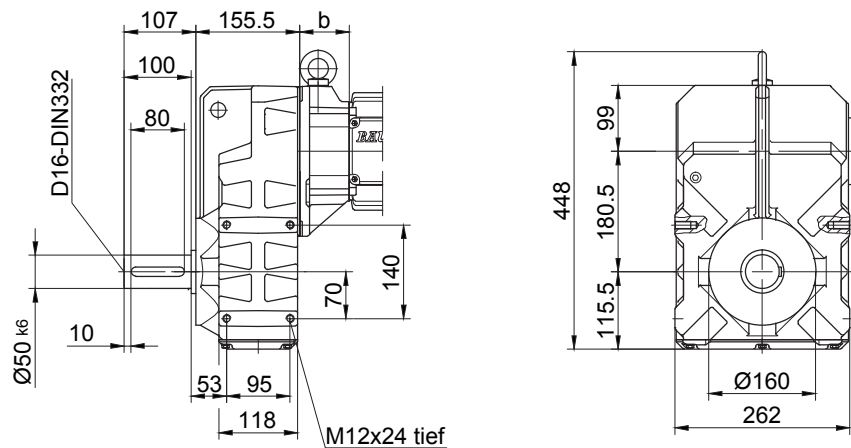


Flanschmasse

BF40(Z)	k	l	m	n	o	q	s	t
Standard -3./	250	215	180	16	13.5	184	4	78.5
gross -4./	300	265	230	20	13.5	190	4	72.5

Fuss mit Gewindelöchern links und rechts

Code -6.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

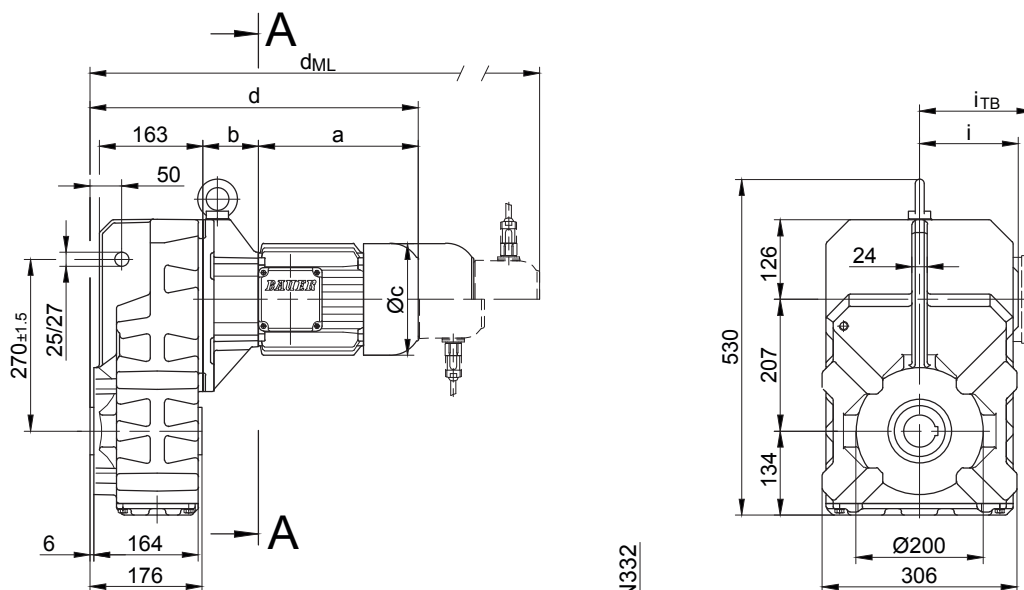
# Flach-Getriebemotoren Reihe BF

## Maßbild

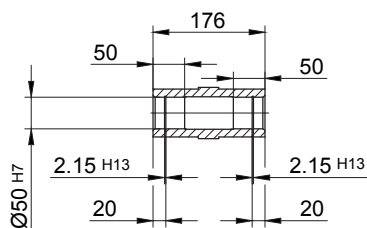
### BF50 - BF50Z

mit Drehmomentstütze

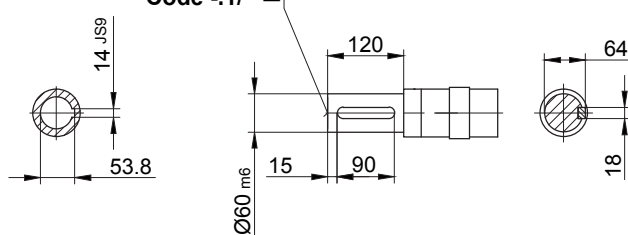
Code -0./



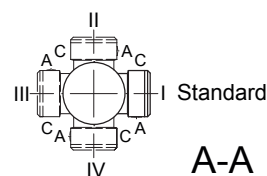
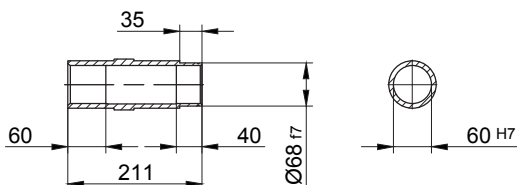
Code -4/



Code -1/



Code -5/



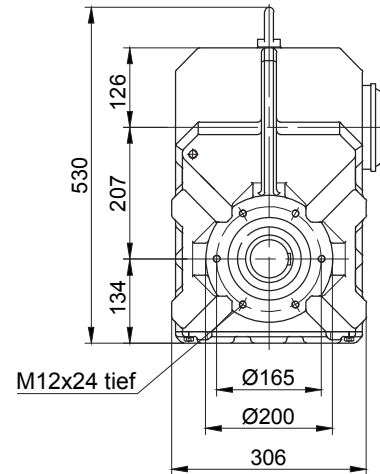
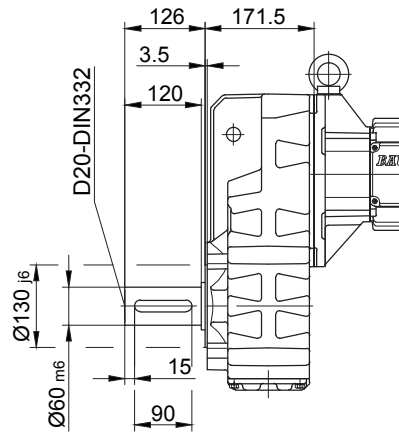
Typ	a	b	c	d	i	i <sub>TB</sub>	Ausführung mit Motoranbauten			
							E./ES./ZS	G	E./ES./ZS-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BF50Z-../D05..	170	155	123	502.5	100	117	544.5	605.5	647	-
BF50Z-../D06..	170	155	123	502.5	100	119	544.5	605.5	647	-
BF50Z-../D07..	190	155	123	522.5	100	119	464.5	625.5	667	-
BF50-../D..08..	200	73	156	450.5	115	136.5	516.5	557.5	624	516.5
BF50Z-../D..08..	200	159	156	536	115	136.5	602.5	643.5	710	602.5
BF50-../D..09..	251	87.5	181	516	124	158	609	623	713.5	609
BF50Z-../D..09..	251	173.5	181	602	124	158	695	709	799.5	695
BF50-../D..11..	319	94	228	590.5	181	181	688.5	697.5	793	688.5
BF50-../D..13..	393	107	258	677.5	218	218	788.5	784.5	893	788.5
BF50-../D..16..	429	121	322	627.5	244	244	871.5	835.5	975.5	871.5
BF50-../D..18..	528	143	368	848.5	288	288	997.5	956.5	1101.5	997.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### BF50 - BF50Z

Flansch mit Gewindelöchern

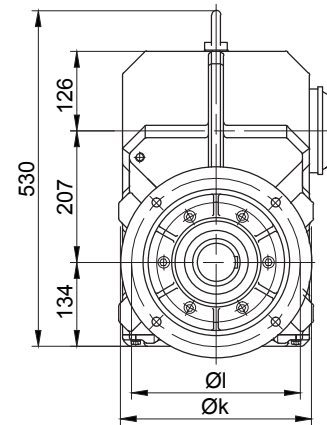
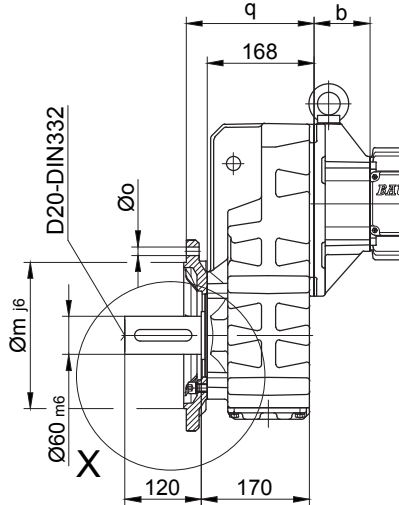
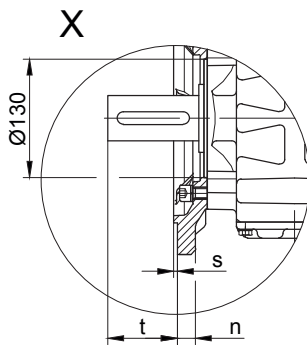
Code -7./



Flansch mit Durchgangslöchern

Code -3./

(Code -2./)

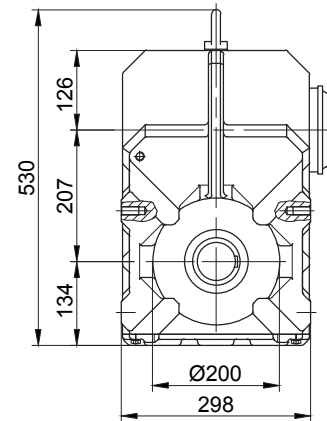
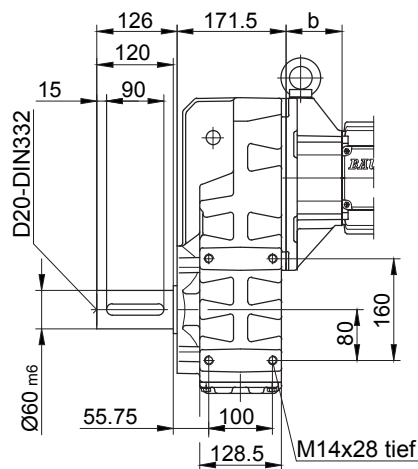


Flanschmasse

BF50(Z)	k	l	m	n	o	q	s	t
Standard -3./	300	265	230	20	13.5	201	4	96.5
klein -2./	250	215	180	16	13.5	198	4	99.5

Fuss mit Gewindelöchern links und rechts

Code -6.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

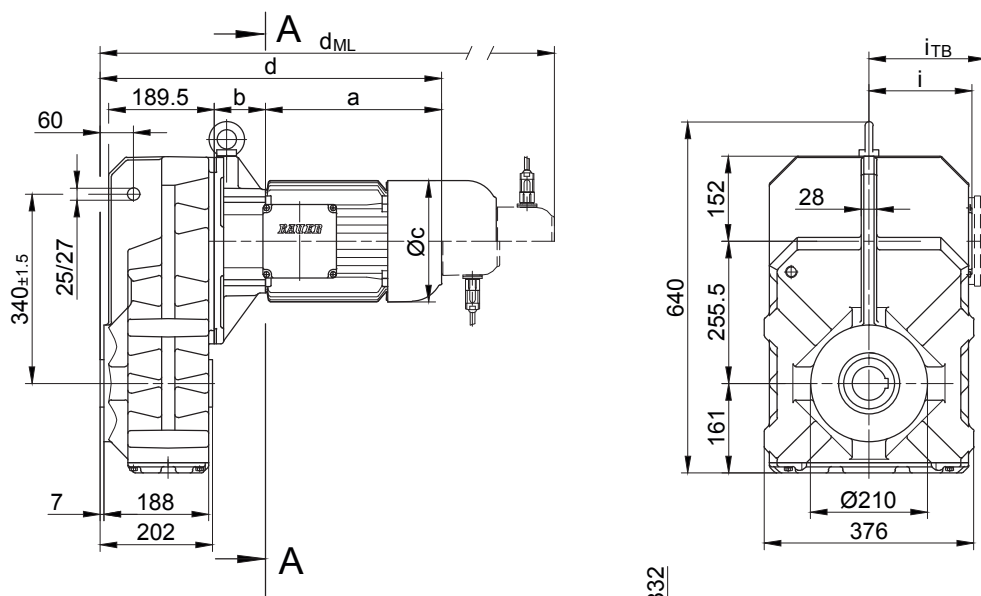
# Flach-Getriebemotoren Reihe BF

## Maßbild

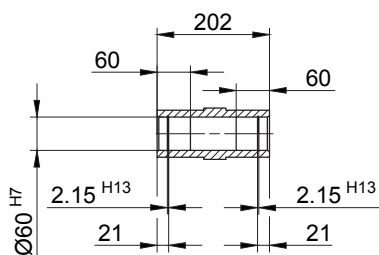
### BF60 - BF60Z

mit Drehmomentstütze

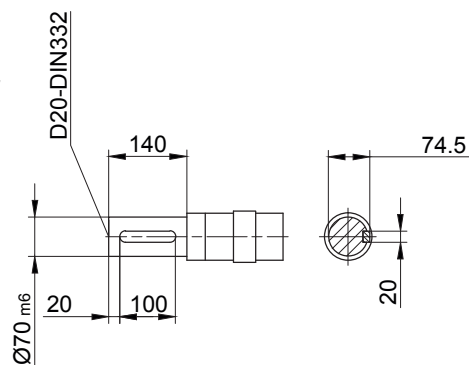
Code -0./



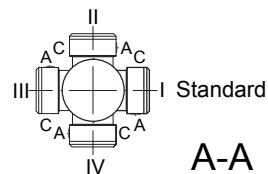
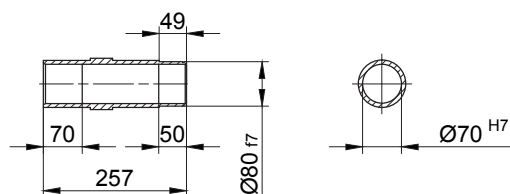
Code -4/



Code -1/



Code -5/



A-A

Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	ES../ZS..	G	ES../ZS..-G	RR/RL
						d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BF60Z-../D..08..	200	181	156	586	115	136.5	652	693	759.5	652
BF60-../D..09..	251	85.5	181	541.5	124	158	634.5	648.5	739	634.5
BF60Z-../D..09..	251	195.5	181	651.5	124	158	744.5	758.5	849	744.5
BF60-../D..11..	319	92	228	616	181	181	714	723	818.5	714
BF60Z-../D..11..	319	202	228	726	181	181	824	833	928.5	824
BF60-../D..13..	393	105	258	703	218	218	814	810	918.5	814
BF60-../D..16..	429	119	322	753	244	244	897	861	1001	897
BF60-../D..18..	528	141	368	874	288	288	1023	982	1127	1023

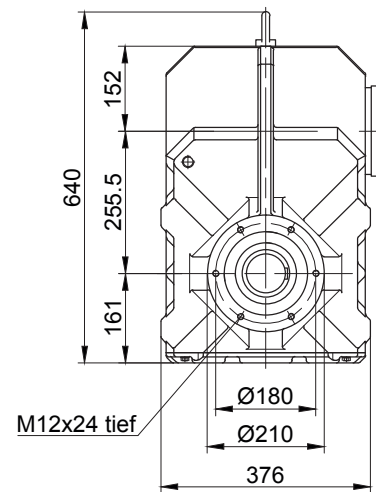
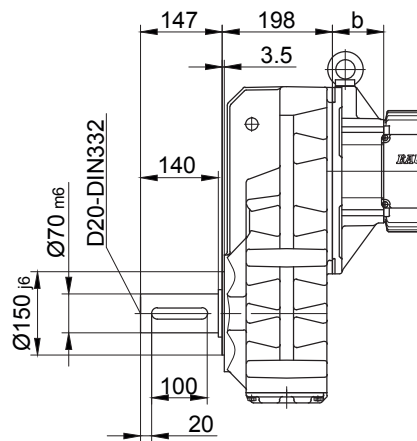
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



### BF60 - BF60Z

Flansch mit Gewindelöchern

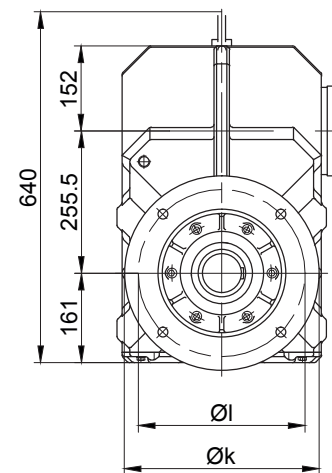
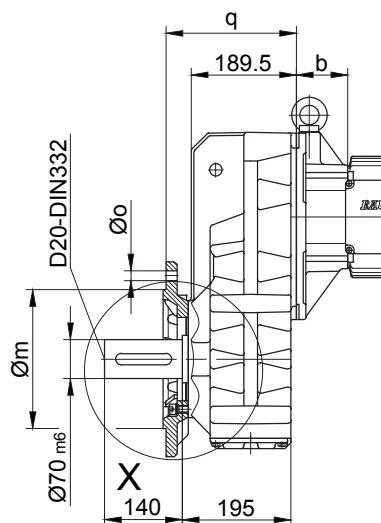
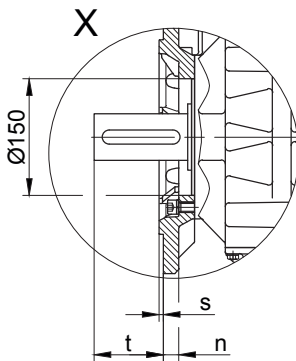
Code -7./



Flansch mit Durchgangslöchern

Code -3./

(Code -2./)

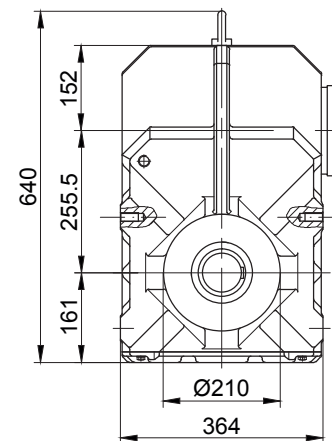
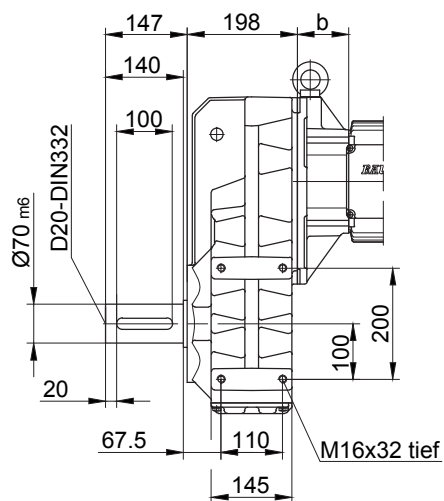


Flanschmasse

BF60(Z)	k	l	m	n	o	q	s	t
Standard -3./	350	300	250 <sub>h6</sub>	20	17.5	234.5	5	110.5
klein -2./	300	265	230 <sub>j6</sub>	20	13.5	242.5	4	102.5

Fuss mit Gewindelöchern links und rechts

Code -6.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

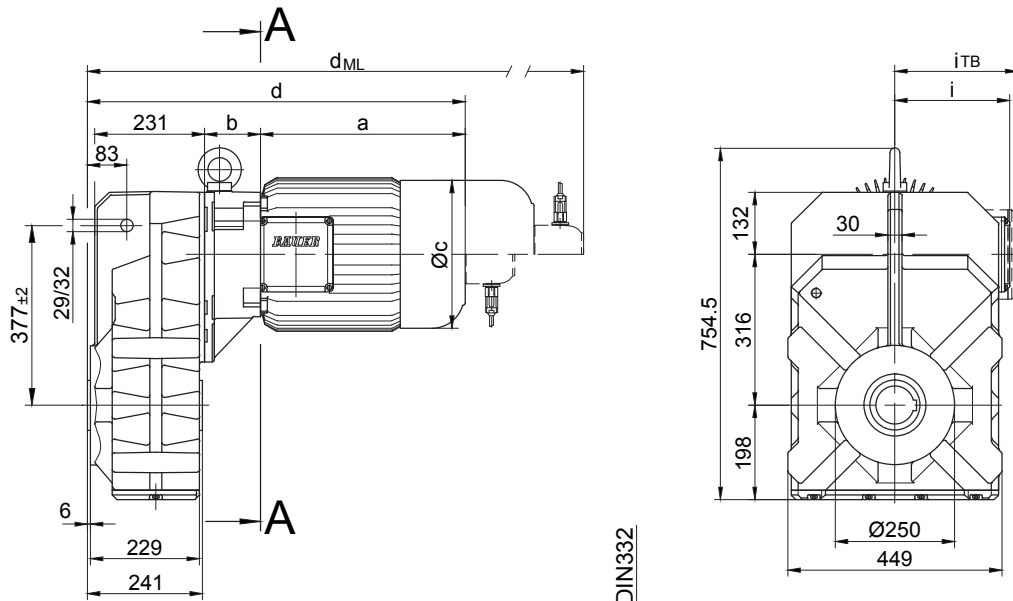
# Flach-Getriebemotoren Reihe BF

## Maßbild

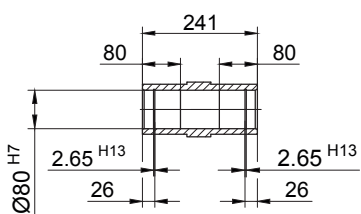
### BF70 - BF70Z

mit Drehmomentstütze

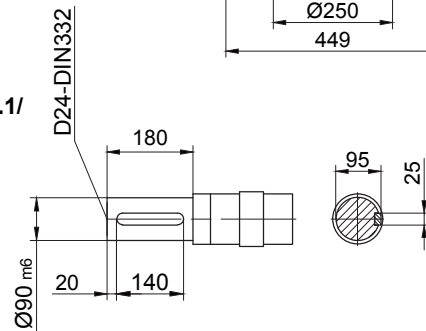
Code -0./



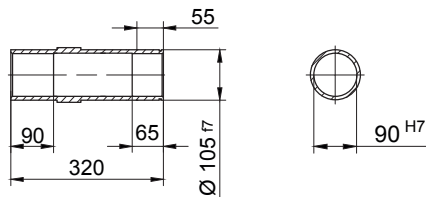
Code -4/



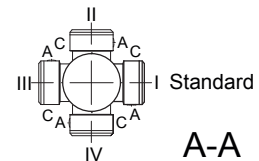
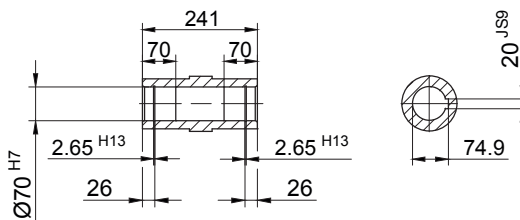
Code -1/



Code -5/



Code -4/K70



A-A

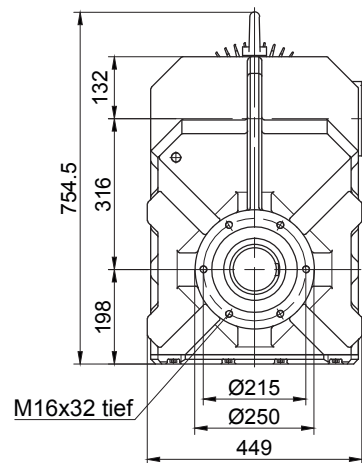
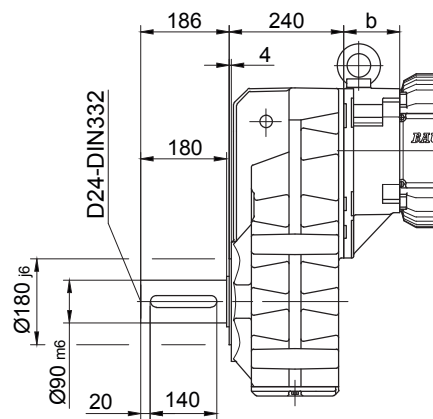
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	ES../ZS..	G	ES../ZS..-G	RR/RL
						d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BF70Z-../D..08..	200	202	156	648	115	136.5	714	755	821.5	714
BF70-../D..09..	251	83.5	181	580.5	124	158	673.5	687.5	778	673.5
BF70Z-../D..09..	251	216.5	181	713.5	124	158	806.5	820.5	911	806.5
BF70-../D..11..	319	90	228	655	181	181	753	762	857.5	753
BF70Z-../D..11..	319	223	228	788	181	181	886	895	990.5	886
BF70-../D..13..	393	103	258	742	218	218	853	849	957.5	853
BF70Z-../D..13..	393	236	258	875	218	217	986	982	1090.5	986
BF70-../D..16..	429	117	322	792	244	243	936	900	1040	936
BF70Z-../D..16..	429	250	322	925	244	243	1069	1033	1173	1069
BF70-../D..18..	528	139	368	913	288	288	1062	1021	1166	1062
BF70Z-../D..18..	528	272	368	1046	288	288	1195	1154	1299	1195

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### BF70 - BF70Z

Flansch mit Gewindelöchern

Code -7./

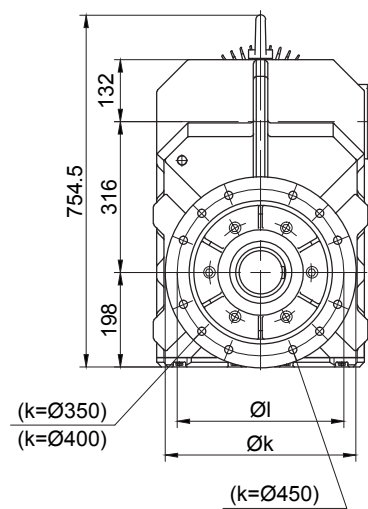
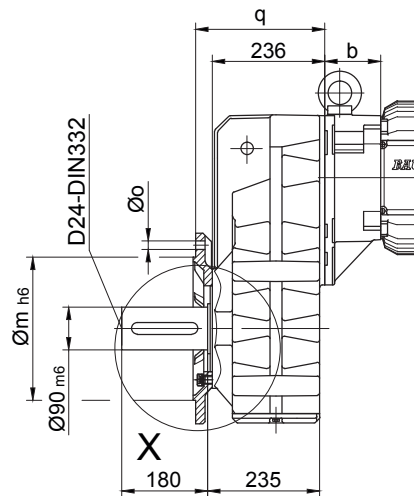
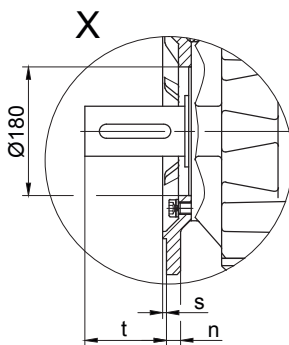


Flansch mit Durchgangslöchern

Code -3./

(Code -2./)

(Code -4./)

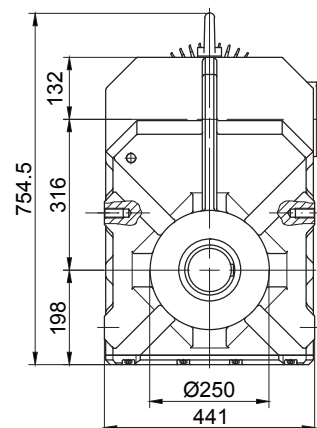
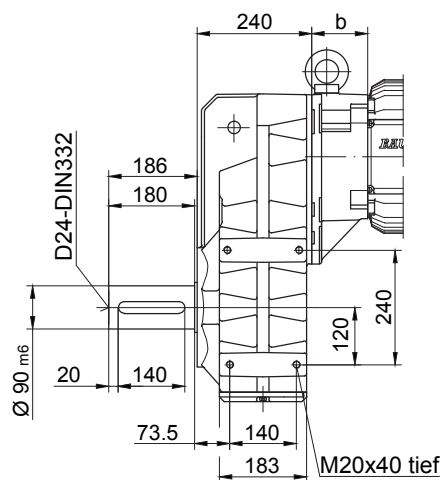


Flanschmasse

BF70(Z)	k	l	m	n	o	q	s	t
Standard -3./	400	350	300	20	4xØ17.5	271	5	155
klein -2./	350	300	250	20	4xØ17.5	271	5	155
gross -4./	450	400	350	22	8xØ17.5	281	5	145

Fuss mit Gewindelöchern links und rechts

Code -6.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

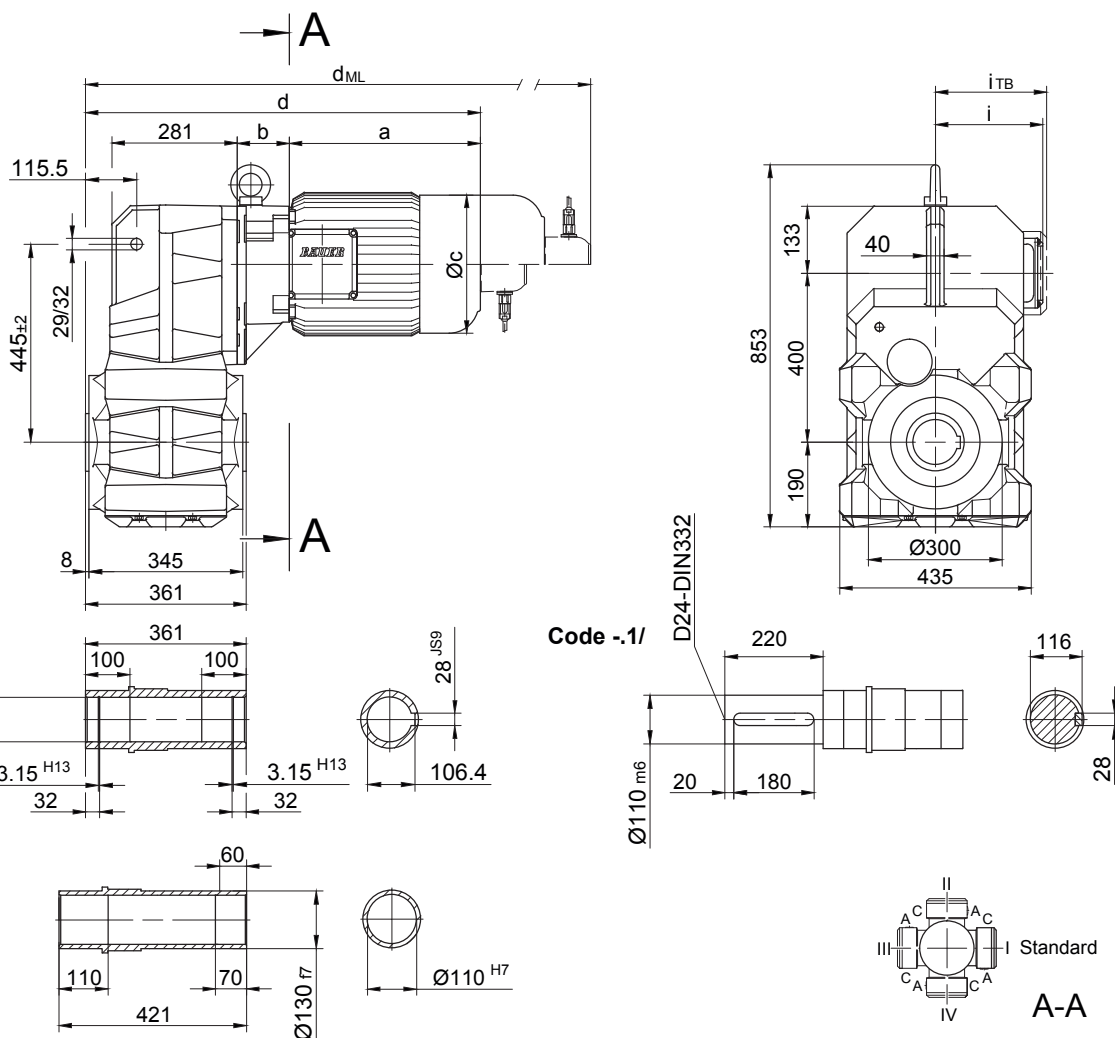
# Flach-Getriebemotoren Reihe BF

## Maßbild

### BF80 - BF80Z

mit Drehmomentstütze

Code -0/



11

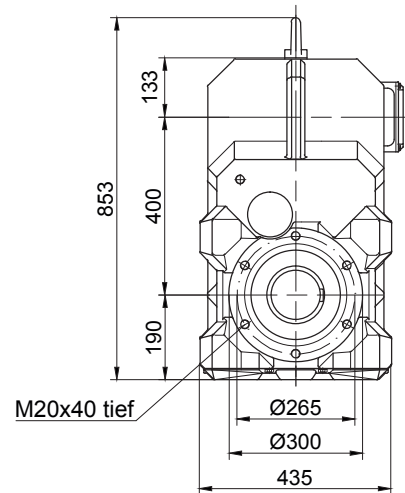
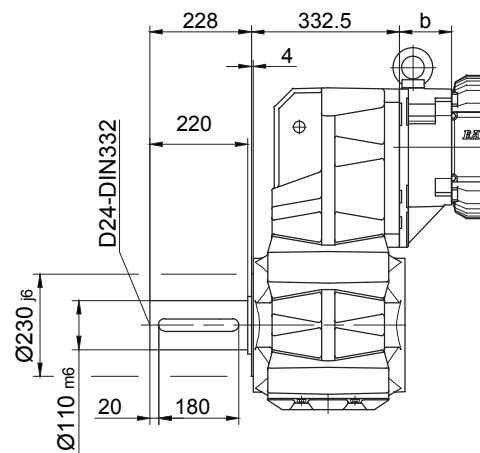
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						$i_{TB}$	ES../ZS..	G	ES../ZS..-G	RR/RL
						$d_{ML}$	$d_{ML}$	$d_{ML}$	$d_{ML}$	
BF80Z-../D..08..	200	202	156	742.5	115	136.5	808.5	849.5	916	808.5
BF80-../D..09..	251	83.5	181	675	124	158	768	782	872.5	768
BF80Z-../D..09..	251	216.5	181	808	124	158	901	915	1005.5	901
BF80-../D..11..	319	90	228	749.5	181	181	847.5	856.5	952	847.5
BF80Z-../D..11..	319	223	228	882.5	181	181	980.5	989.5	1085	980.5
BF80-../D..13..	393	103	258	836.5	218	218	947.5	943.5	1052	947.5
BF80Z-../D..13..	393	236	258	969.5	218	218	1080.5	1076.5	1185	1080.5
BF80-../D..16..	429	117	322	886.5	244	244	1030.5	994.5	1134.5	1030.5
BF80Z-../D..16..	429	250	322	1019.5	244	244	1163.5	1127.5	1267.5	1163.5
BF80-../D..18..	528	139	368	1007.5	288	288	1156.5	1115.5	1260.5	1156.5
BF80Z-../D..18..	528	272	368	1140.5	288	288	1289.5	1248.5	1393.5	1289.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### BF80 - BF80Z

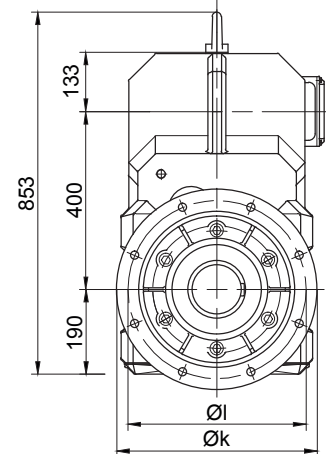
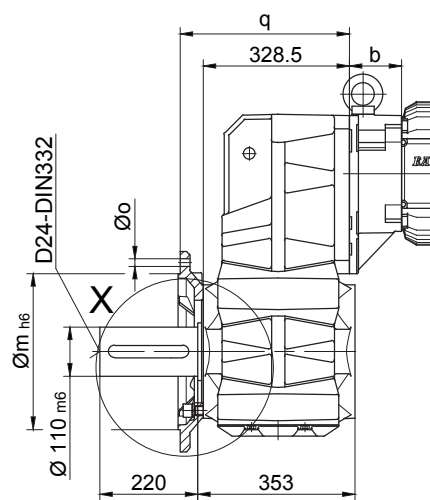
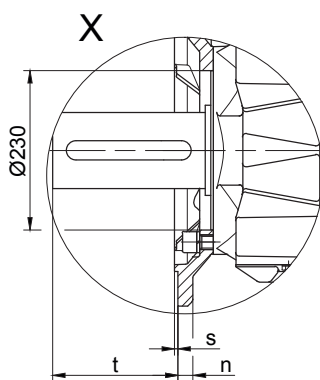
Flansch mit Gewindelöchern

Code -7./



Flansch mit Durchgangslöchern

Code -3./  
(Code -4./)

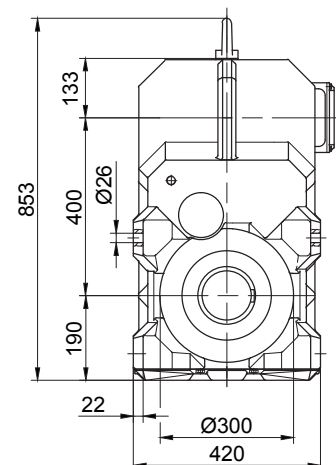
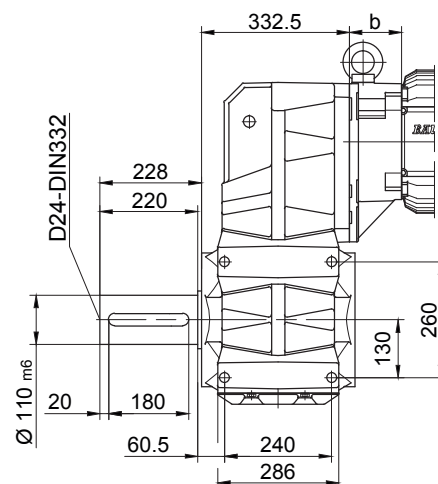


Flanschmasse

BF80(Z)	k	l	m	n	o	q	s	t
Standard -3./	450	400	350	22	17.5	383.5	5	177
gross -4./	550	500	450	22	17.5	388.5	5	172

Fuss mit Durchgangslöchern links und rechts

Code -1.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

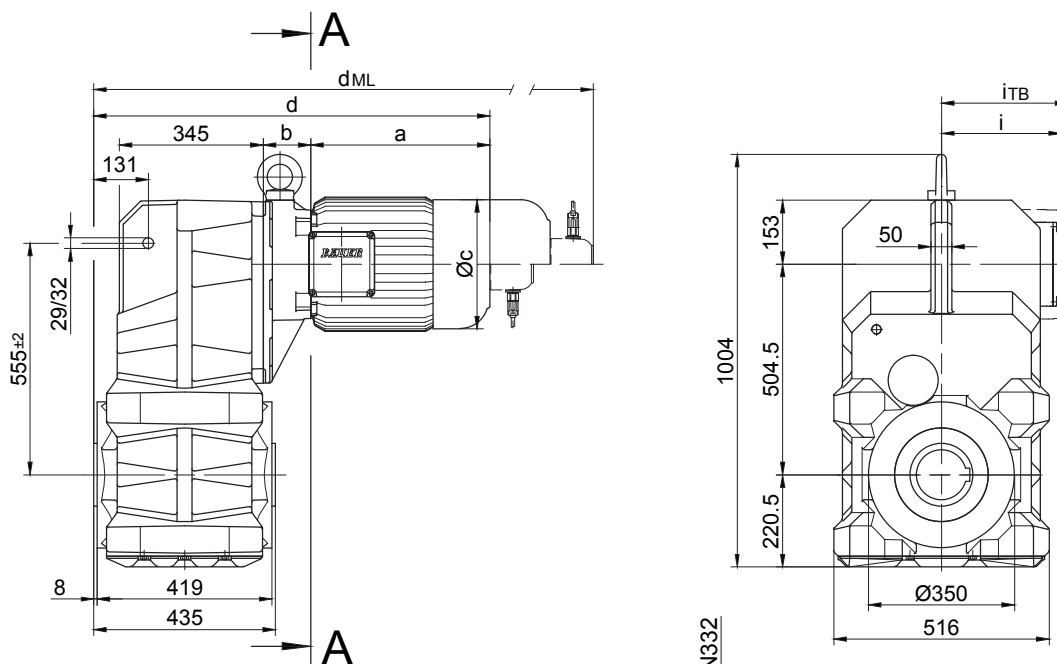
# Flach-Getriebemotoren Reihe BF

## Maßbild

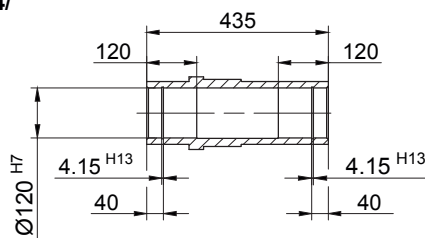
### BF90 - BF90Z

mit Drehmomentstütze

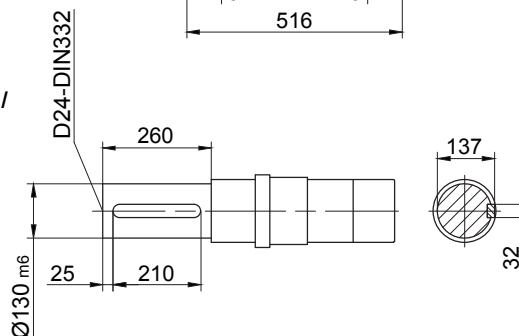
Code -0./



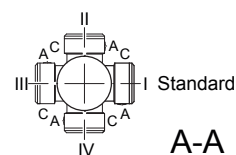
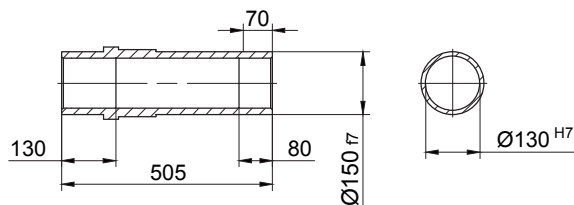
Code -4/



Code -1/



Code -5/



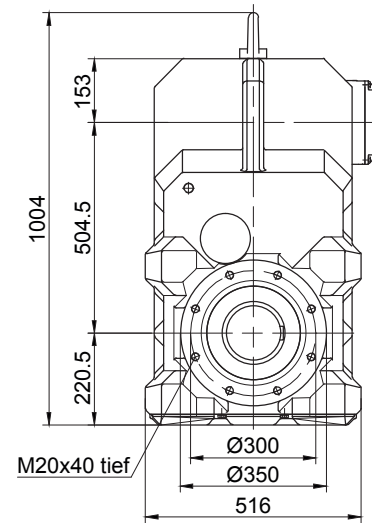
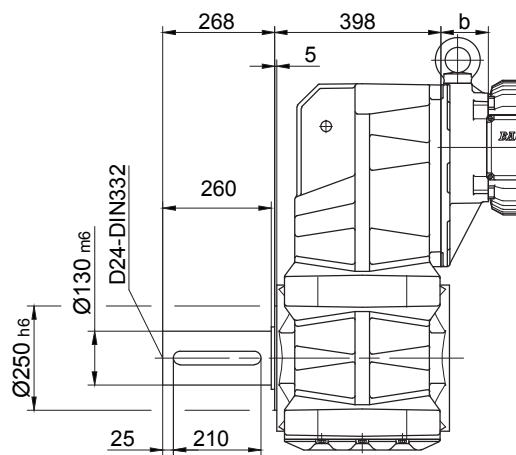
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	ES../ZS..	G	ES../ZS..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BF90Z-../D..09..	251	252.5	181	909	124	158	1002	1016	1106	916
BF90-../D..11..	319	87	228	812	181	181	910	919	1012	908
BF90Z-../D..11..	319	259	228	984	181	181	1082	1091	1184	1080
BF90-../D..13..	393	100	258	899	218	218	1010	1006	1111	1007
BF90Z-../D..13..	393	272	258	1071	218	218	1182	1178	1283	1179
BF90-../D..16..	429	114	322	949	244	244	1093	1057	1197	1093
BF90Z-../D..16..	429	286	322	1121	244	244	1265	1229	1369	1265
BF90-../D..18..	528	136	368	1060	288	288	1209	1168	1313	1209

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### BF90 - BF90Z

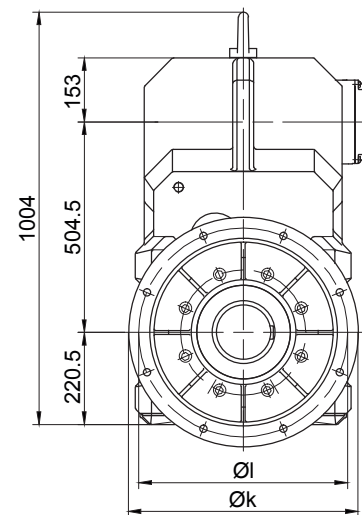
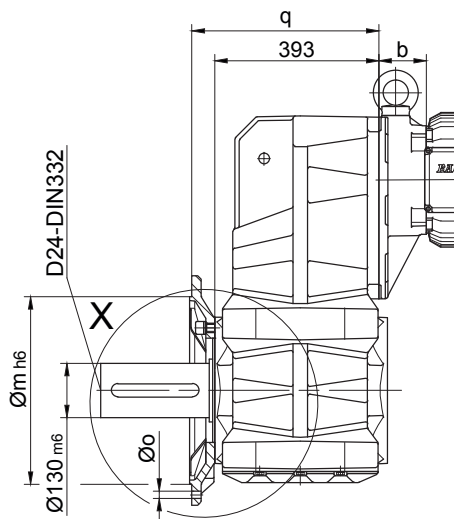
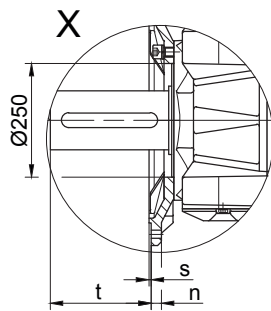
Flansch mit Gewindelöchern

Code -7./



Flansch mit Durchgangslöchern

Code -3./  
(Code -4./)

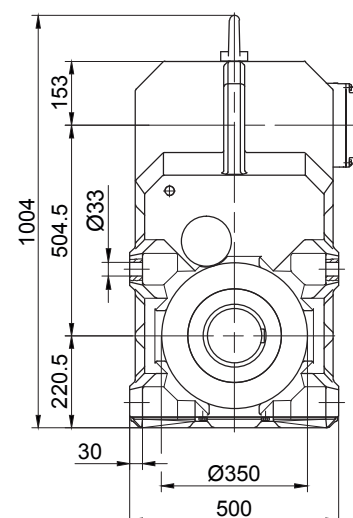
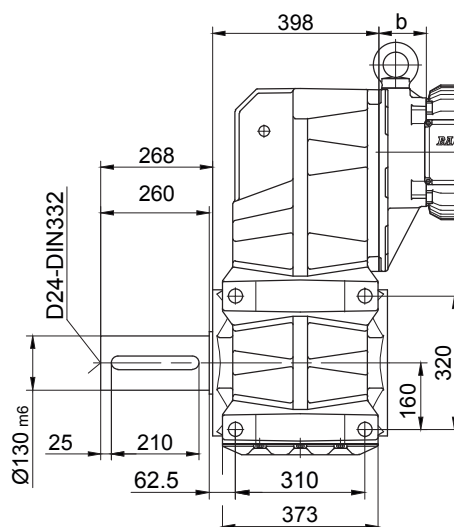


Flanschmasse

BF90(Z)	k	l	m	n	o	q	s	t
Standard -3./	550	500	450	22	17.5	448	5	218
gross -4./	660	600	550	25	22	442	6	224

Fuss mit Durchgangslöchern links und rechts

Code -1.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

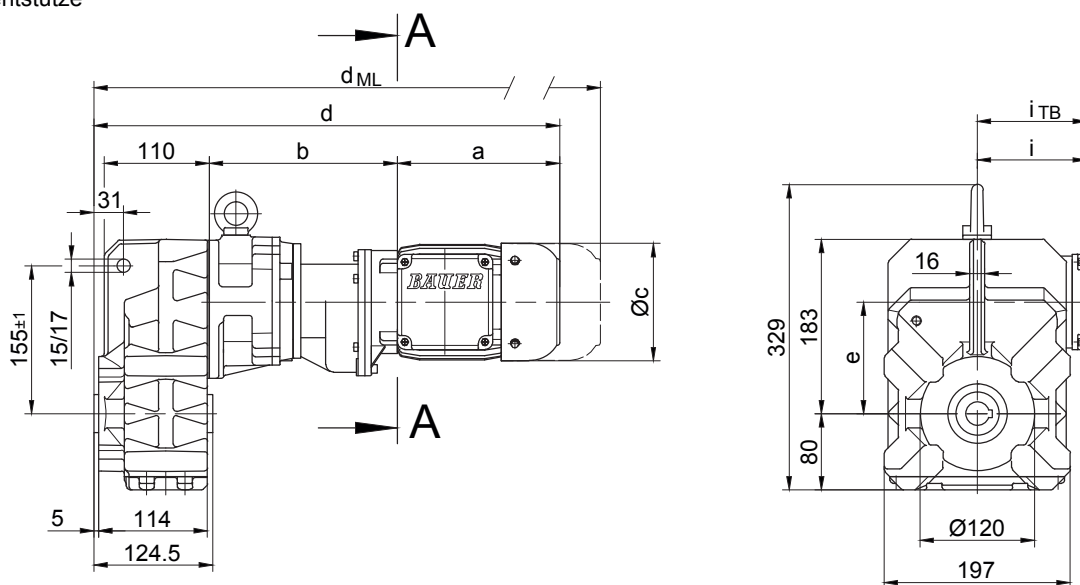
# Flach-Getriebemotoren Reihe BF

## Maßbild

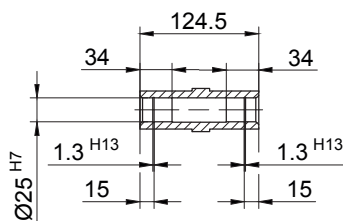
### BF10G06

mit Drehmomentstütze

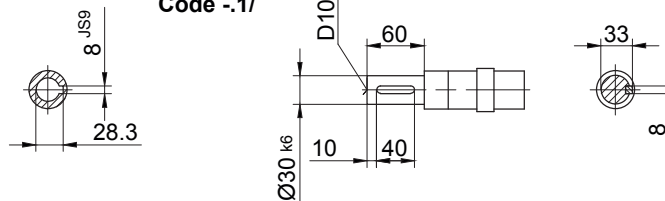
Code -0./



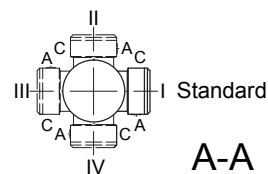
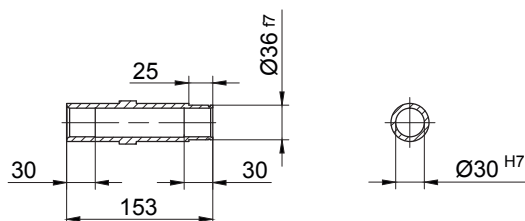
Code -4/



Code -1/



Code -5/



A-A

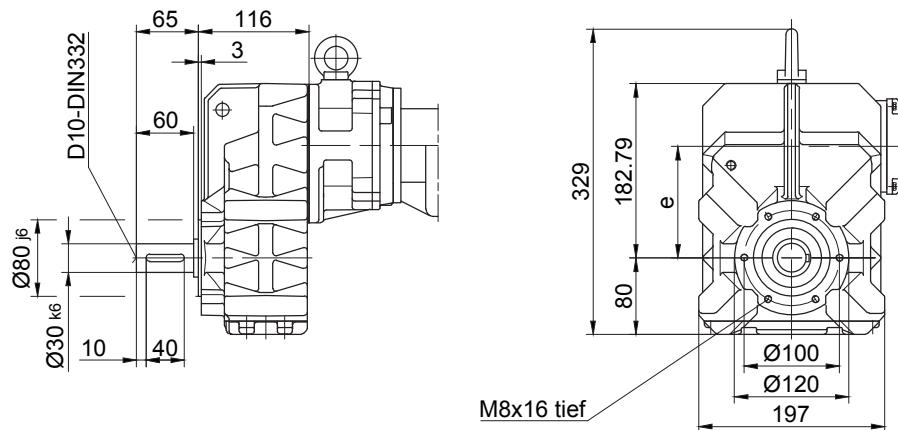
Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BF10G06-../D04..	143	195	111	459	117	90	112	502.5	521.5	564.5	502.5
BF10G06-../D05..	170	197	123	489	117	100	117	531	592	634	530
BF10G06-../D06..	170	197	123	489	117	100	119	531	592	634	530
BF10G06-../D07..	190	197	123	509	117	100	119	551	612	654	550
BF10G06-../D..08..	200	241	156	562	117	115	136.5	628	669	735.5	628

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



Flansch mit Gewindelöchern

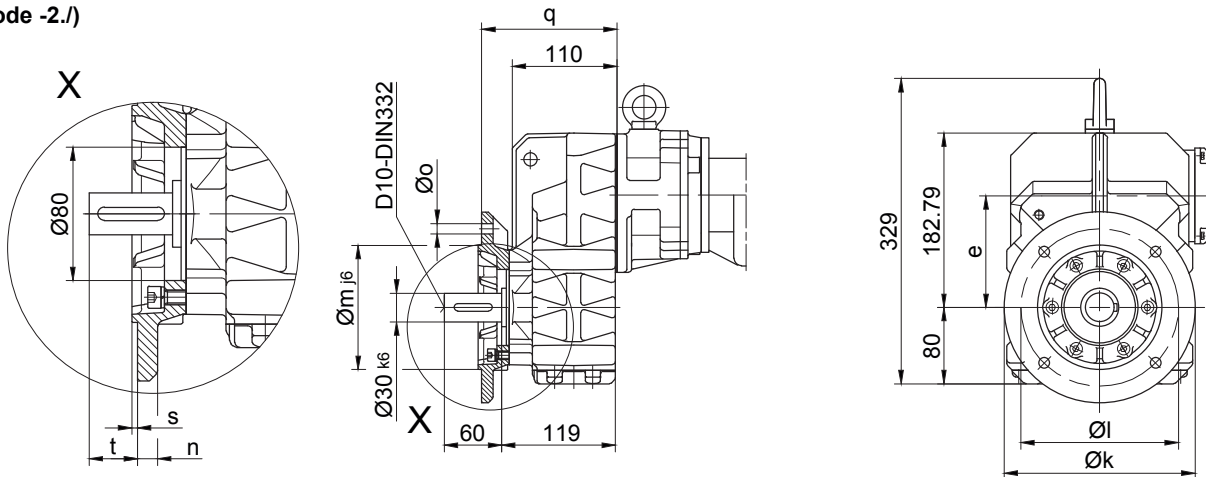
Code -7./



Flansch mit Durchgangslöchern

Code -3./

(Code -2./)

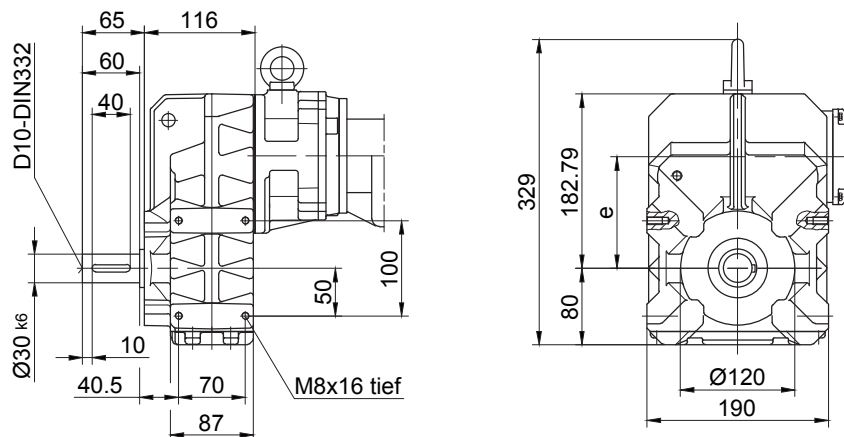


Flanschmasse

BF10G..	k	l	m	n	o	q	s	t
Standard -3./	200	165	130	12	11	142	3.5	39
klein -2./	160	130	110	10	9	135	3.5	46

Fuss mit Gewindelöchern links und rechts

Code -6.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

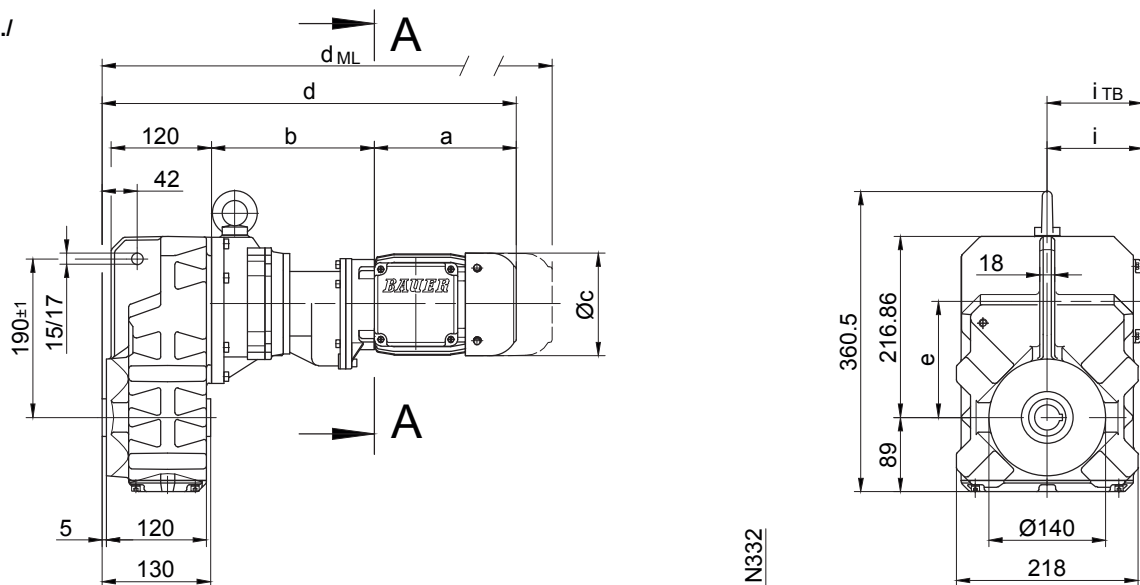
# Flach-Getriebemotoren Reihe BF

## Maßbild

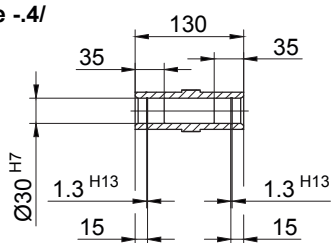
### BF20G06

mit Drehmomentstütze

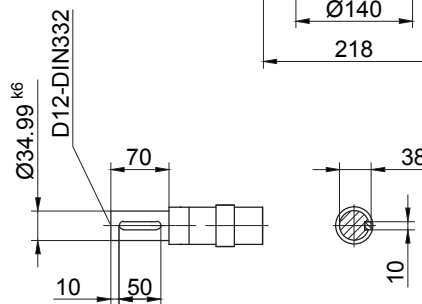
Code -0./



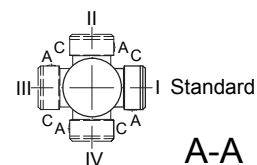
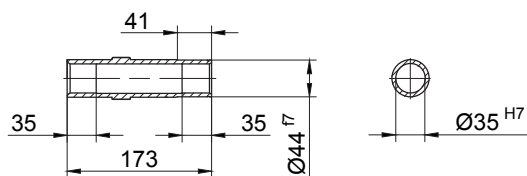
Code -4/



Code -1/



Code -5/

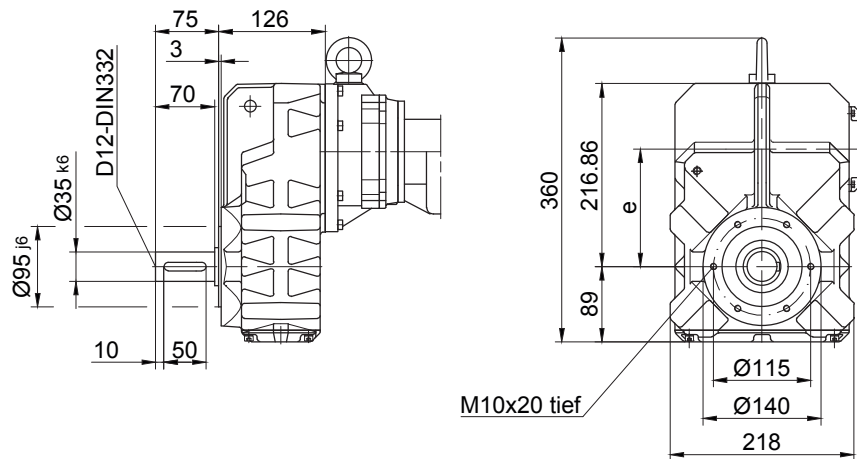


Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BF20G06-../D04..	143	193	111	467	135	90	112	510.5	529.5	572.5	-
BF20G06-../D05..	170	195	123	497	135	100	117	539	600	642	-
BF20G06-../D06..	170	195	123	497	135	100	119	539	600	642	-
BF20G06-../D07..	190	195	123	517	135	100	119	559	620	662	-
BF20G06-../D..08..	200	239	156	570	135	115	136.5	636	677	743.5	636

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

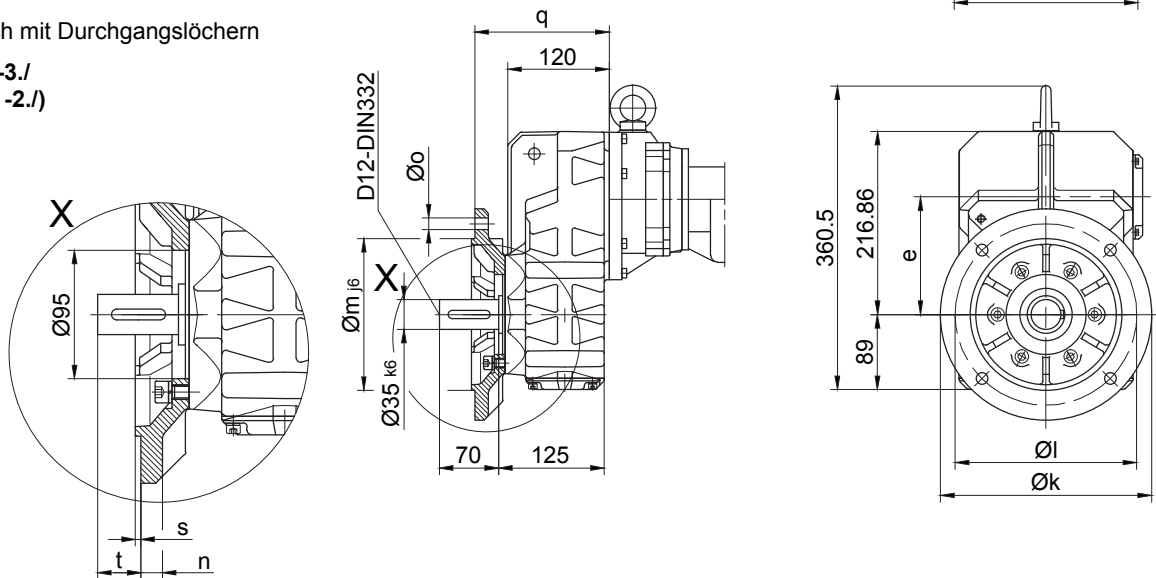
Flansch mit Gewindelöchern

Code -7./



Flansch mit Durchgangslöchern

Code -3./  
(Code -2./)

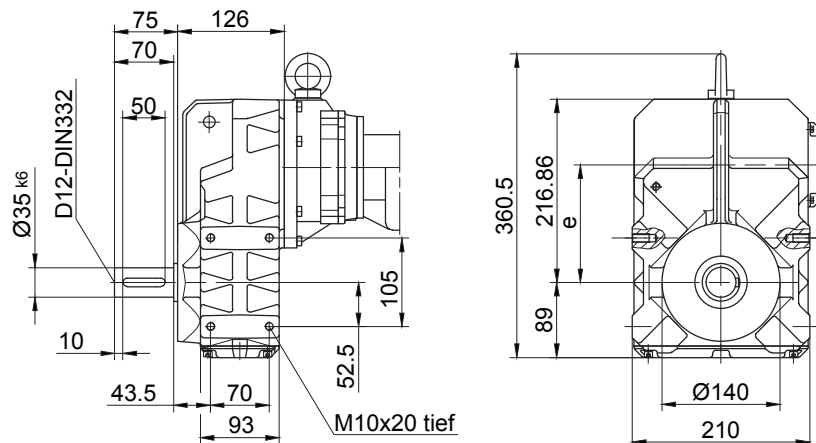


Flanschmasse

BF20G..	k	l	m	n	o	q	s	t
Standard -3./	250	215	180	16	13.5	159	4	42
klein -2./	200	165	130	12	11	150	3.5	51

Fuss mit Gewindelöchern links und rechts

Code -6.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

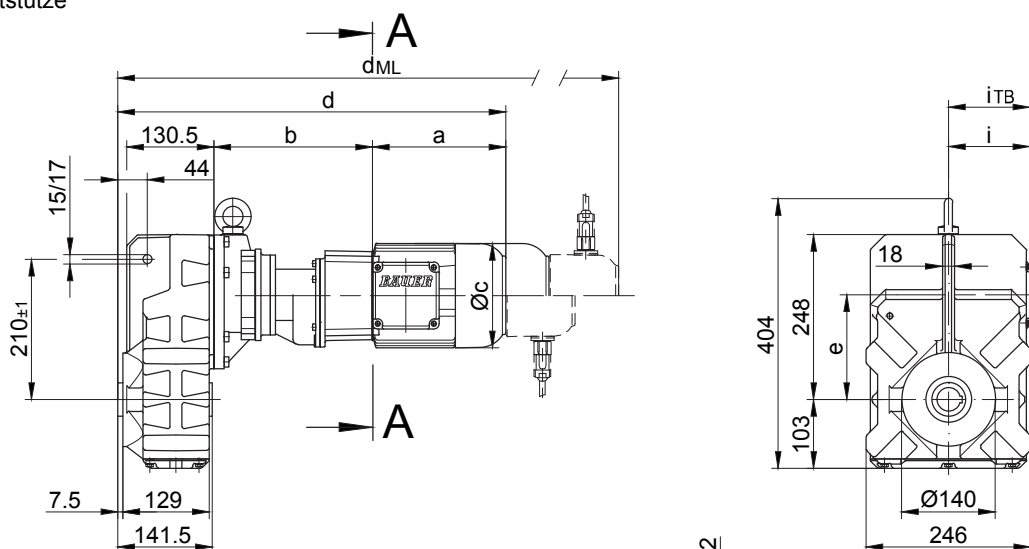
# Flach-Getriebemotoren Reihe BF

## Maßbild

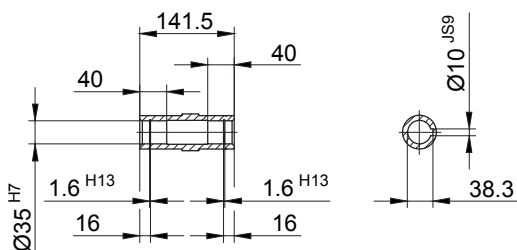
### BF30G06

mit Drehmomentstütze

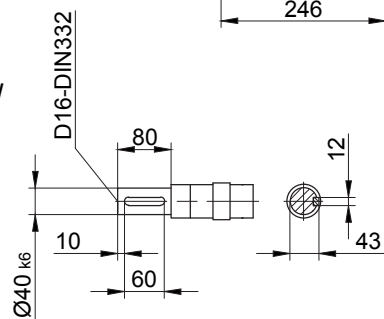
Code -0./



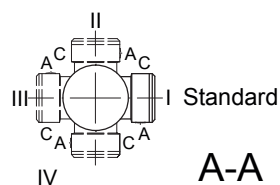
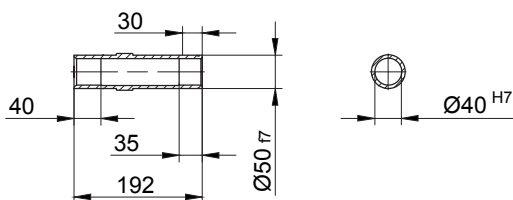
Code -4./



Code -1./



Code -5./



A-A

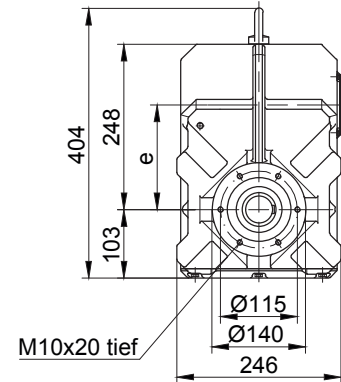
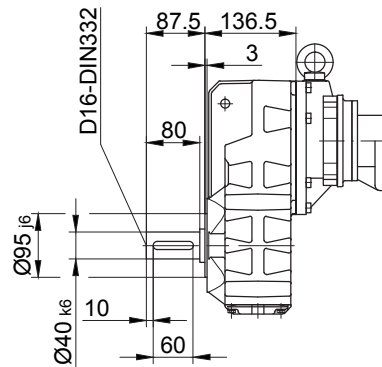
Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BF30G06-../D04..	143	191	111	478	156	90	112	521.5	540.5	583.5	-
BF30G06-../D05..	170	193	123	508	156	100	117	550	611	653	-
BF30G06-../D06..	170	193	123	508	156	100	119	550	611	653	-
BF30G06-../D07..	190	193	123	528	156	100	119	570	631	673	-
BF30G06-../D..08..	200	237	156	581	156	115	136.5	647	688	754.5	647

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### BF30G06

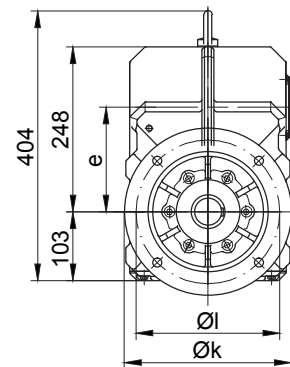
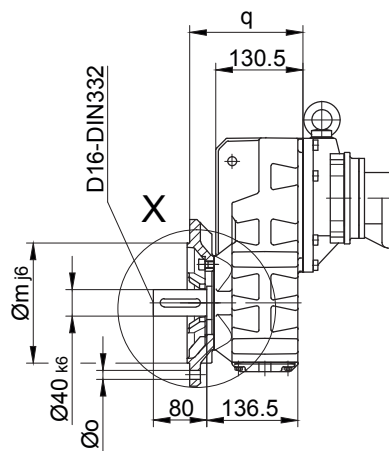
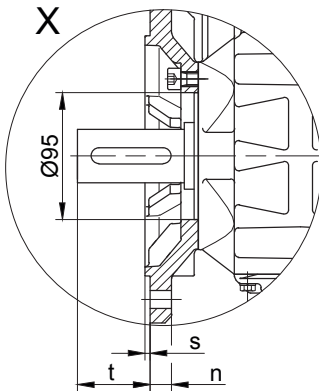
Flansch mit Gewindelöchern/

Code -7./



Flansch mit Durchgangslöchern

Code -3./  
(Code -2./)

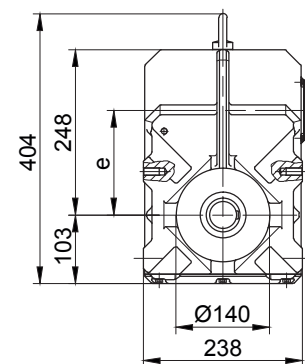
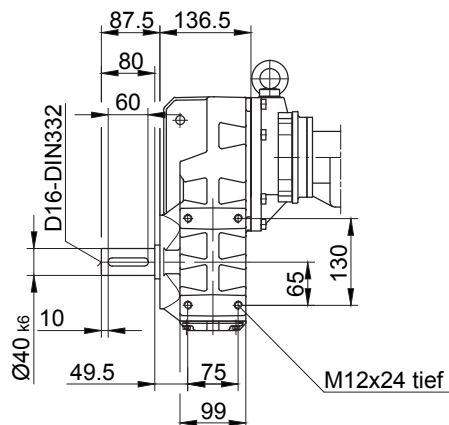


Flanschmasse

BF30G..	k	l	m	n	o	q	s	t
Standard -3./	250	215	180	16	13.5	169.5	4	54.5
klein -2./	200	165	130	12	11	160.5	3.5	63.5

Fuss mit Gewindelöchern links und rechts

Code -6.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

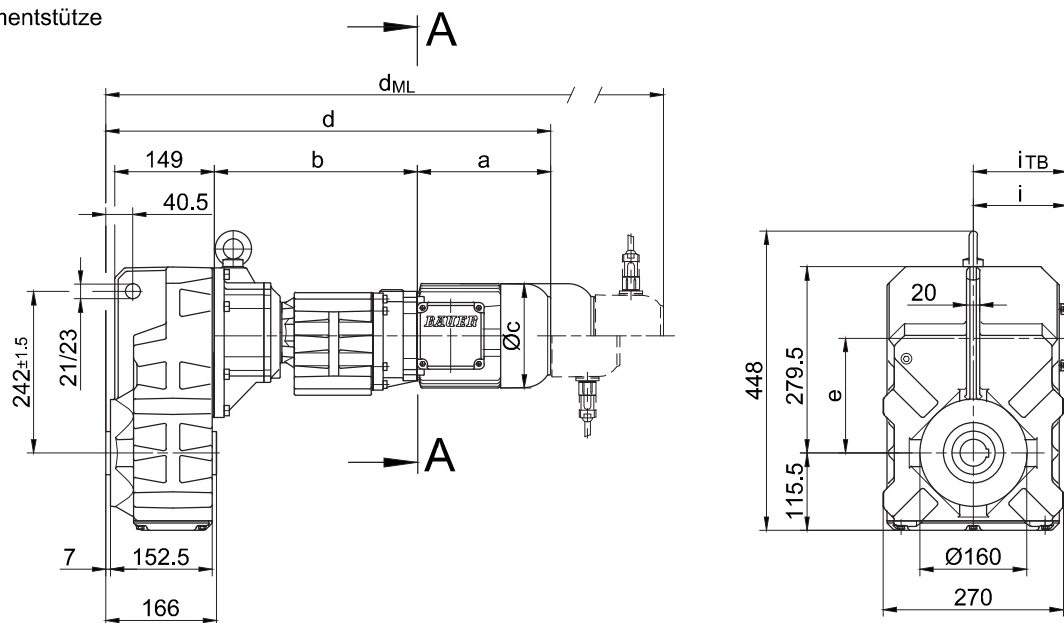
# Flach-Getriebemotoren Reihe BF

## Maßbild

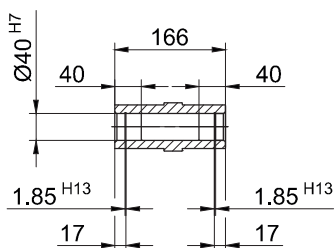
### BF40G10

mit Drehmomentstütze

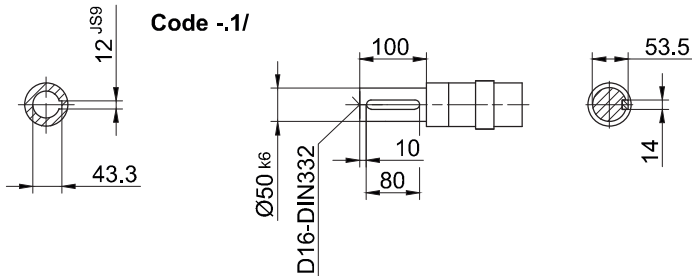
Code -0/



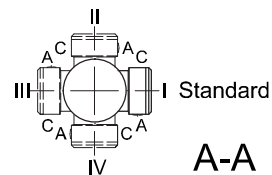
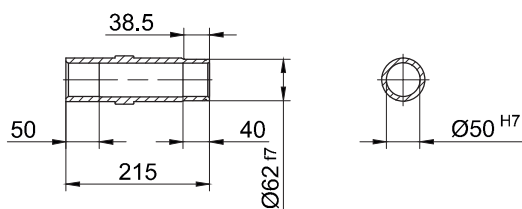
Code -4/



Code -1/



Code -5/



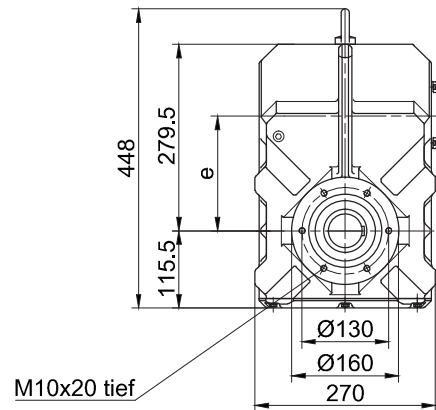
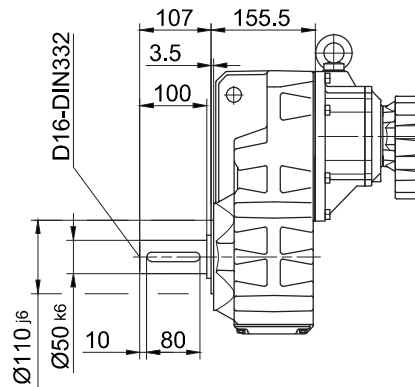
A-A

Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BF40G10-../D05..	170	300	123	633	176	100	117	675	736	778	-
BF40G10-../D06..	170	300	123	633	176	100	119	675	736	778	-
BF40G10-../D07..	190	300	123	653	176	100	119	695	756	798	-
BF40G10-../D..08..	200	304	156	666	176	115	136.5	732	773	839.5	732
BF40G10-../D..09..	251	318.5	181	732	176	124	158	825	839	929	819

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

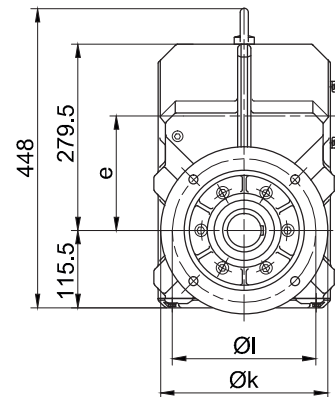
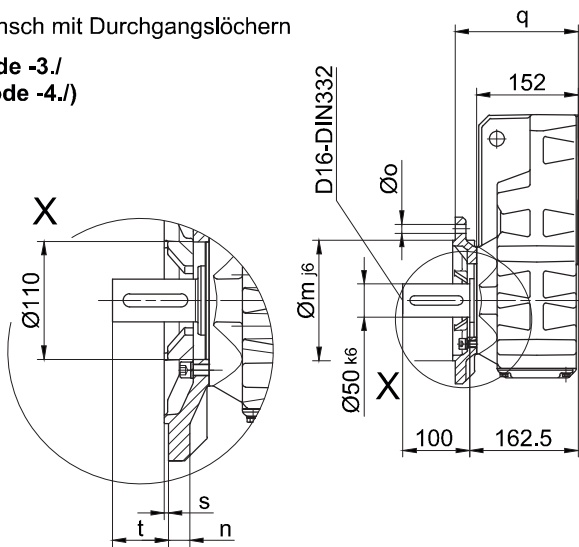
Flansch mit Gewindelöchern

Code -7./



Flansch mit Durchgangslöchern

Code -3./  
(Code -4./)

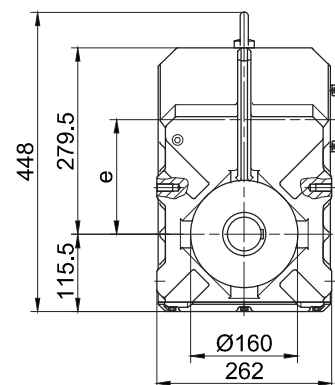
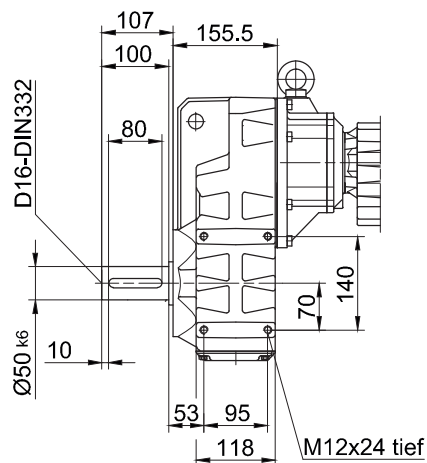


Flanschmasse

BF40G..	k	l	m	n	o	q	s	t
Standard -3./	250	215	180	16	13.5	184	4	78.5
gross -4./	300	265	230	20	13.5	190	4	72.5

Fuss mit Gewindelöchern links und rechts

Code -6.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

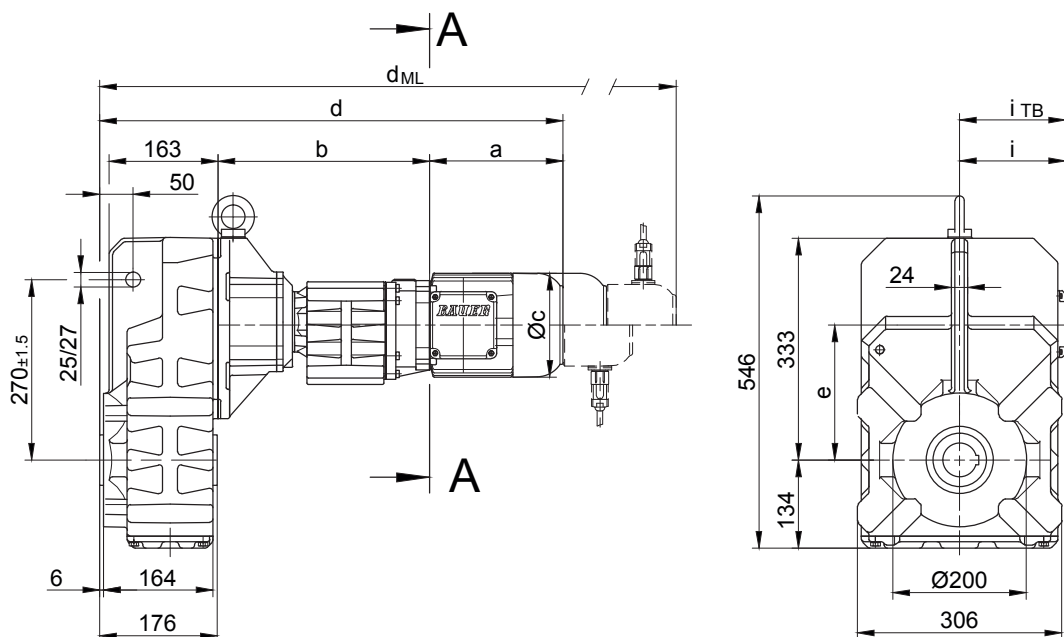
# Flach-Getriebemotoren Reihe BF

## Maßbild

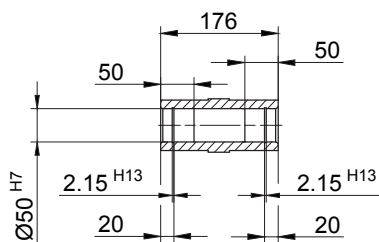
### BF50G10

mit Drehmomentstütze

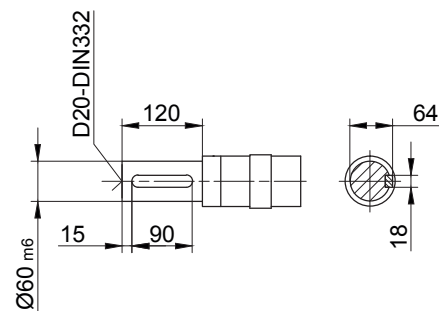
Code -0./



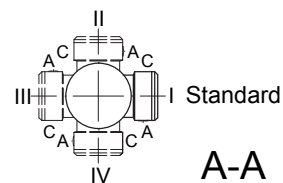
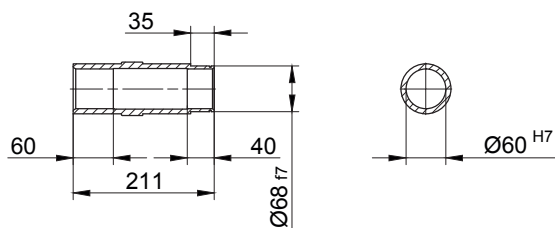
Code -4/



Code -1/



Code -5/



A-A

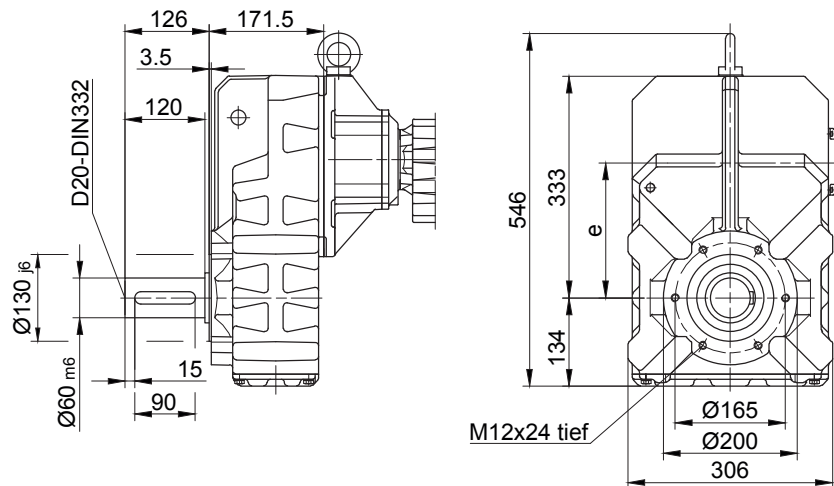
Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E./ES..	G	E./ES..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BF50G10-../D05..	170	313	123	661	202	100	117	703	764	806	-
BF50G10-../D06..	170	313	123	661	202	100	119	703	764	806	-
BF50G10-../D07..	190	313	123	681	202	100	119	723	784	826	-
BF50G10-../D..08..	200	317	156	694	202	115	136.5	760	801	867.5	760
BF50G10-../D..09..	251	332	181	760	202	124	158	853	867	957	847

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



Flansch mit Gewindelöchern

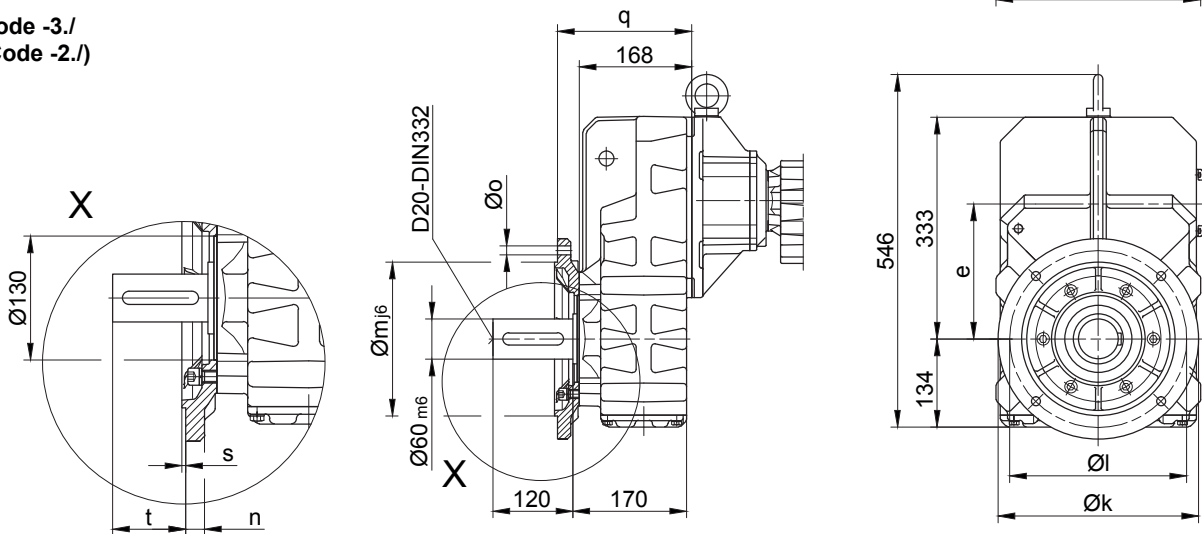
Code -7./



Flansch mit Durchgangslöchern

Code -3./

(Code -2./)

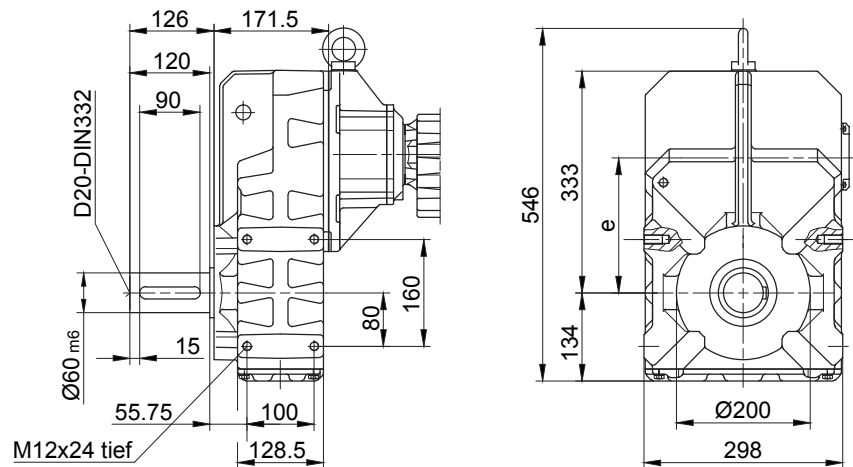


Flanschmasse

BF50G..	k	l	m	n	o	q	s	t
Standard -3./	300	265	230	20	13.5	201	4	96.5
klein -2./	250	215	180	16	13.5	198	4	99.5

Fuss mit Gewindelöchern links und rechts

Code -6.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

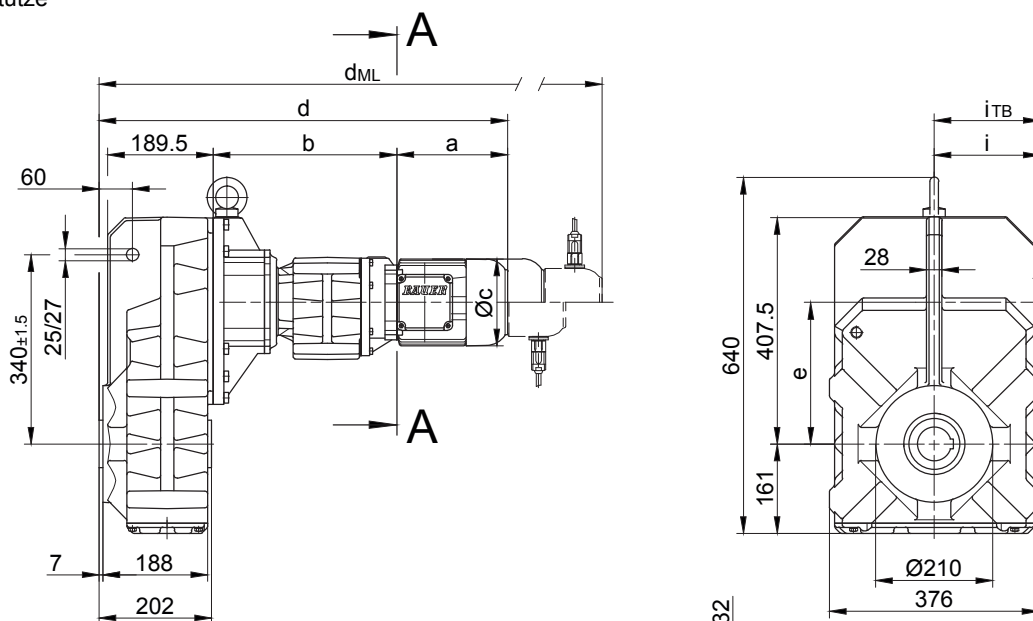
# Flach-Getriebemotoren Reihe BF

## Maßbild

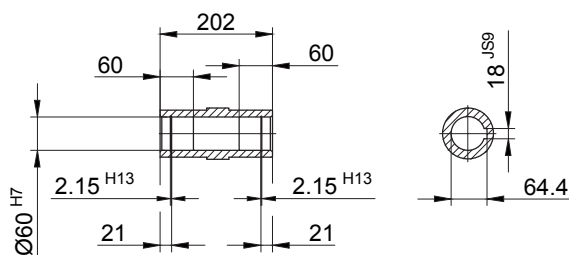
### BF60G20

mit Drehmomentstütze

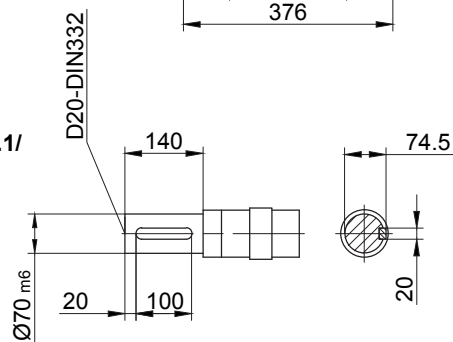
Code -0./



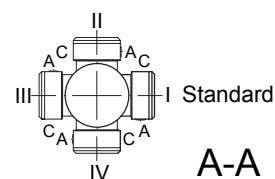
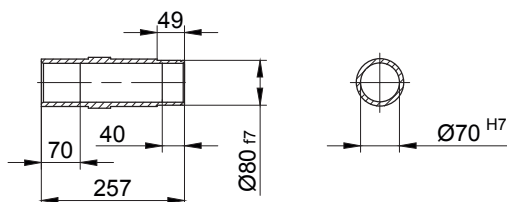
Code -4./



Code -1./



Code -5./

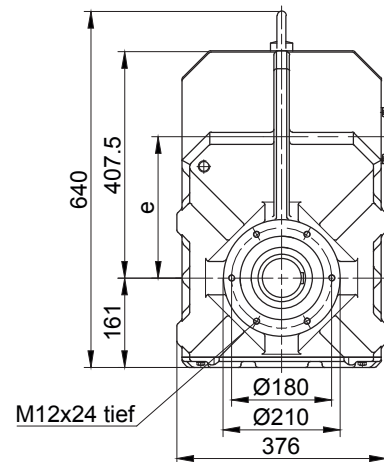
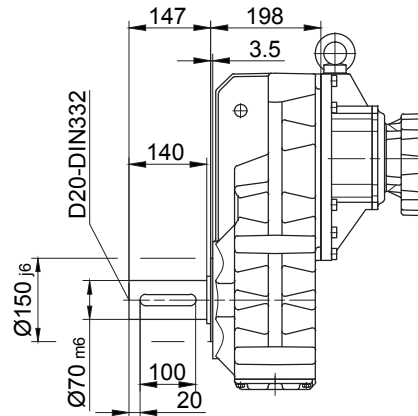


Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BF60G20-../D05..	170	326	123	702	254	100	117	744	805	847	-
BF60G20-../D06..	170	326	123	702	254	100	119	742	805	847	-
BF60G20-../D07..	190	326	123	722	254	100	119	764	825	867	-
BF60G20-../D..08..	200	330	156	735	254	115	136.5	801	842	908.5	801
BF60G20-../D..09..	251	344.5	181	800	254	124	158	893	907	973	866

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

Flansch mit Gewindelöchern

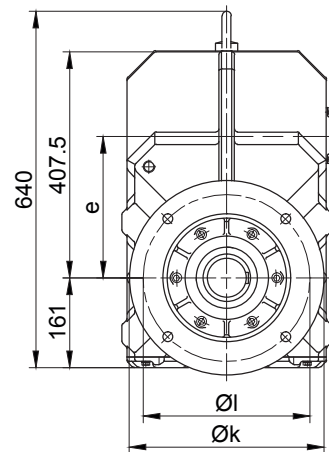
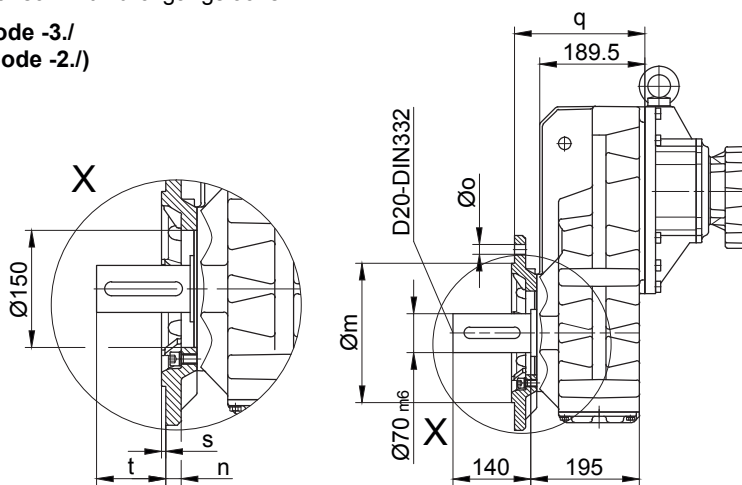
Code -7./



Flansch mit Durchgangslöchern

Code -3./

(Code -2./)

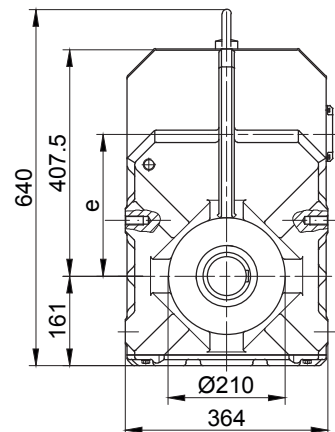
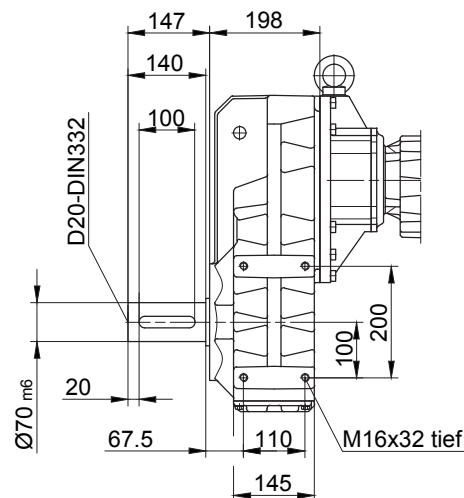


Flanschmasse

BF60G..	k	l	m	n	o	q	s	t
Standard -3./	350	300	250 <sub>h6</sub>	20	17.5	234.5	5	110.5
klein -2./	300	265	230 <sub>j6</sub>	20	13.5	242.5	4	102.5

Fuss mit Gewindelöchern links und rechts

Code -6.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

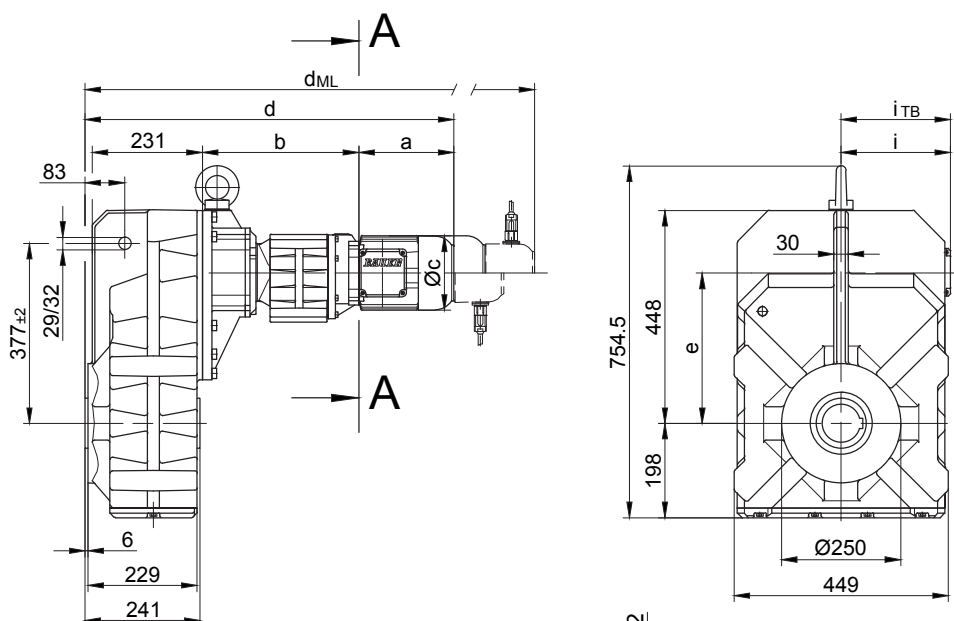
# Flach-Getriebemotoren Reihe BF

## Maßbild

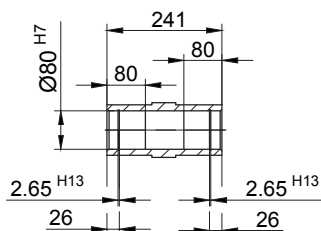
### BF70G20

mit Drehmomentstütze

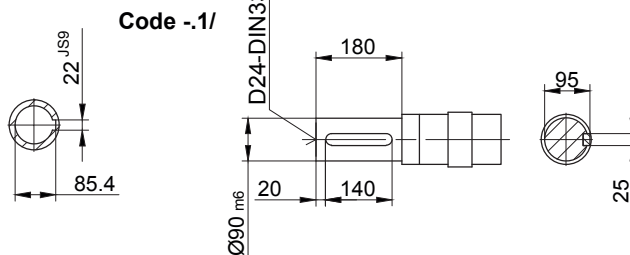
Code -0./



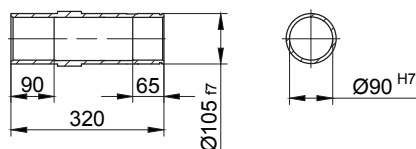
Code -4/



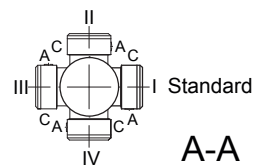
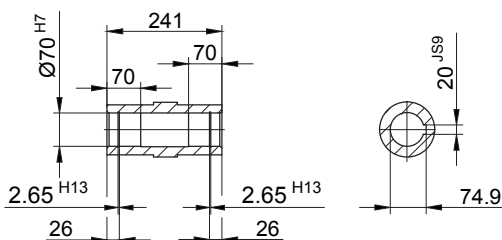
Code -1/



Code -5/



Code -4/K70

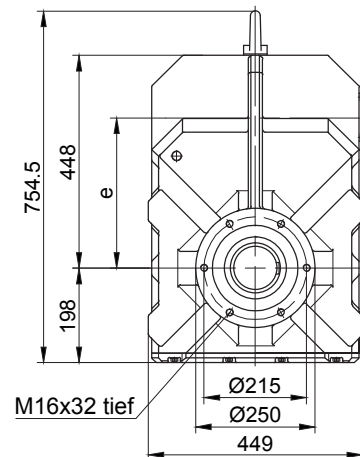
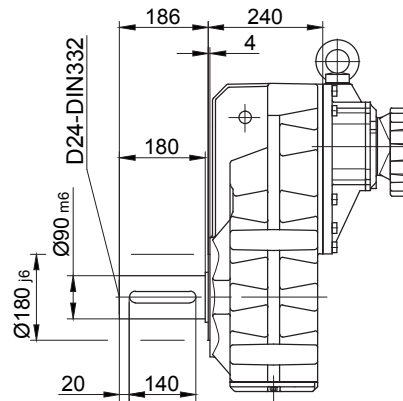


Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BF70G20-../D05..	170	324	123	741	315	100	117	783	844	886	-
BF70G20-../D06..	170	324	123	741	315	100	119	783	844	886	-
BF70G20-../D07..	190	324	123	761	335	100	119	803	864	906	-
BF70G20-../D..08..	200	328	156	775	315	115	136.5	841	882	948.5	841
BF70G20-../D..09..	251	342.5	181	839	315	124	158	932	946	1036	926

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

Flansch mit Gewindelöchern

Code -7./

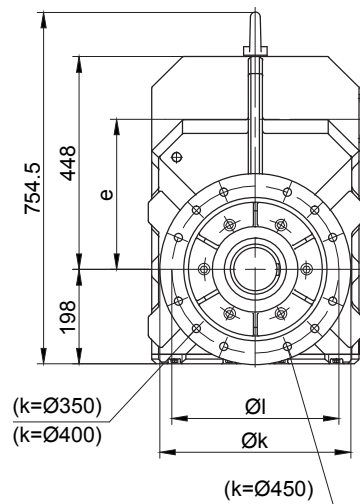
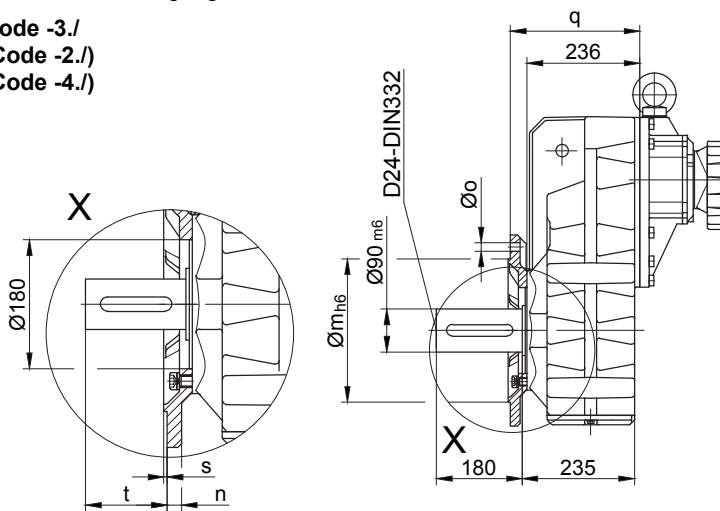


Flansch mit Durchgangslöchern

Code -3./

(Code -2./)

(Code -4./)

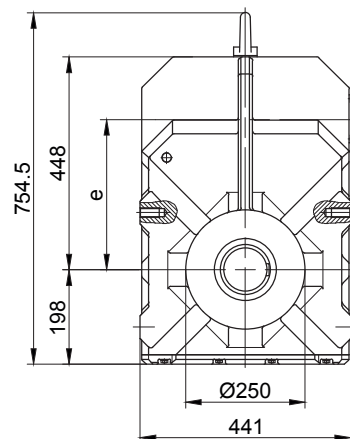
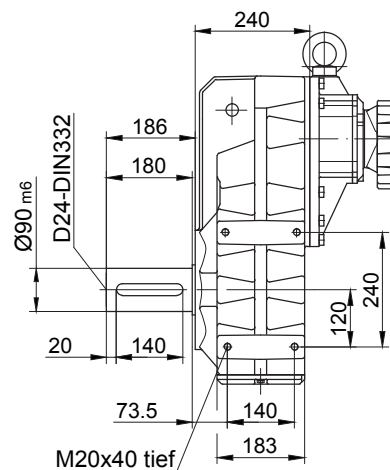


Flanschmasse

BF70G..	k	l	m	n	o	q	s	t
Standard -3./	400	350	300	20	4x17.5	271	5	155
klein -2./	350	300	250	20	4x17.5	271	5	155
gross -4./	450	400	350	22	8x17.5	281	5	145

Fuss mit Gewindelöchern links und rechts

Code -6.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

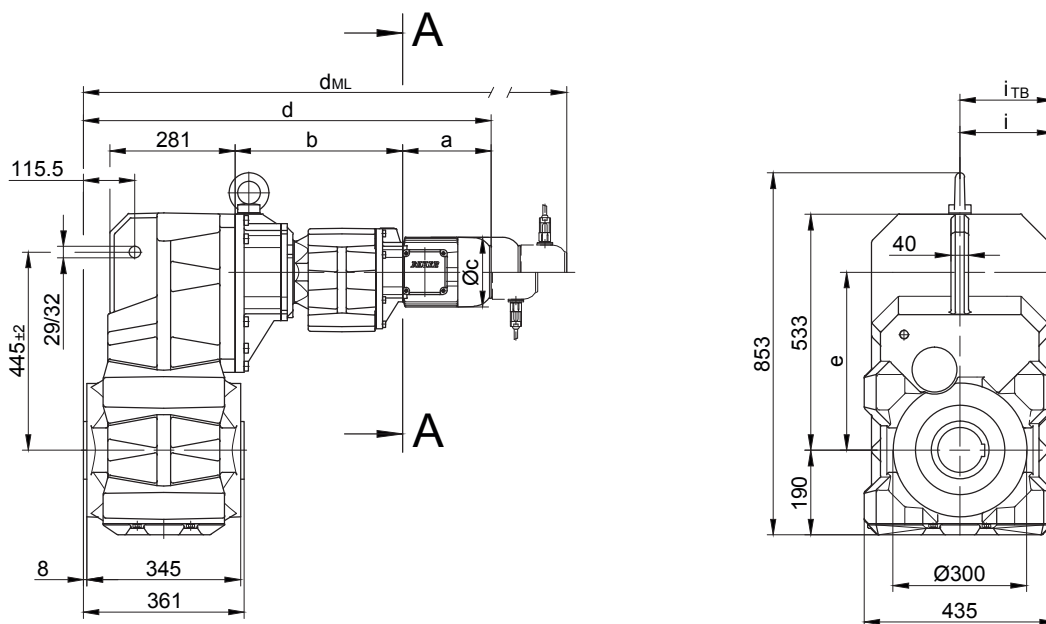
# Flach-Getriebemotoren Reihe BF

## Maßbild

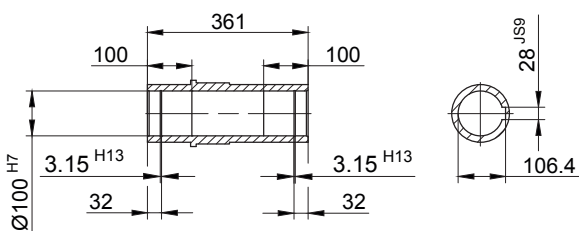
### BF80G40

mit Drehmomentstütze

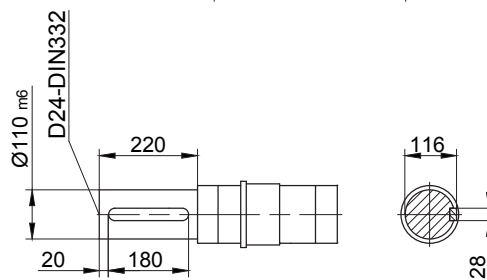
Code -0./



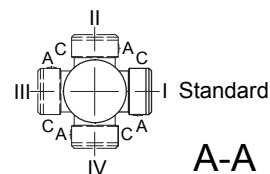
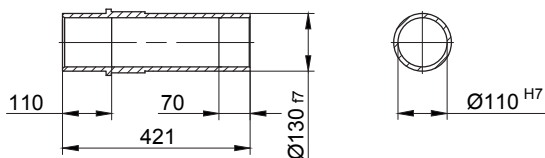
Code -4/



Code -1/



Code -5/

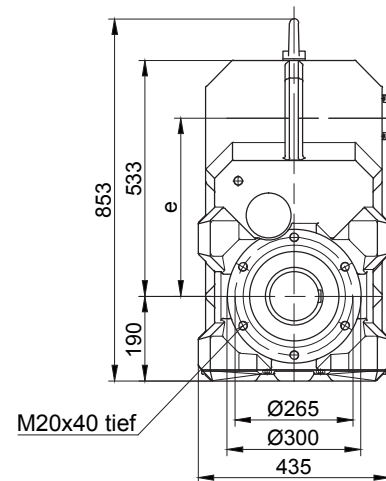
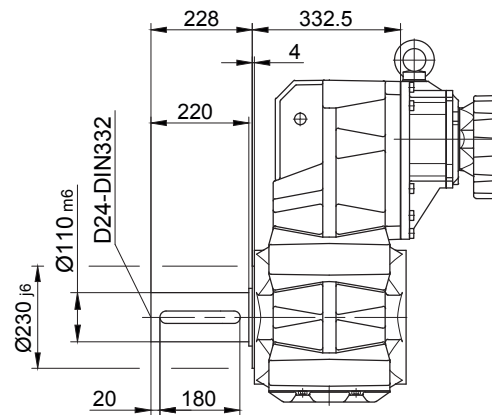


Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	ES..	G	ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BF80G40-../D..08..	200	376	156	916.5	400	115	136.5	982.5	1023.5	1090	982.5
BF80G40-../D..09..	251	390.5	181	982	400	124	158	1075	1089	1179.5	1075
BF80G40-../D..11..	319	397	228	1056.5	400	181	181	1154.5	1163.5	1259	1154.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

Flansch mit Gewindelöchern

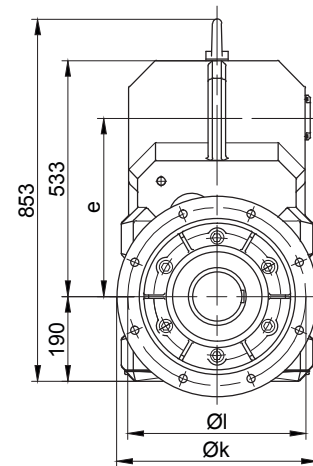
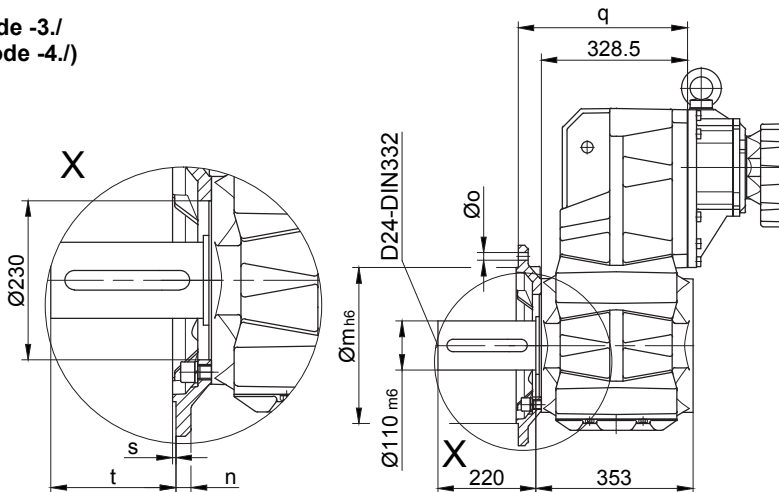
Code -7./



Flansch mit Durchgangslöchern

Code -3./

(Code -4./)

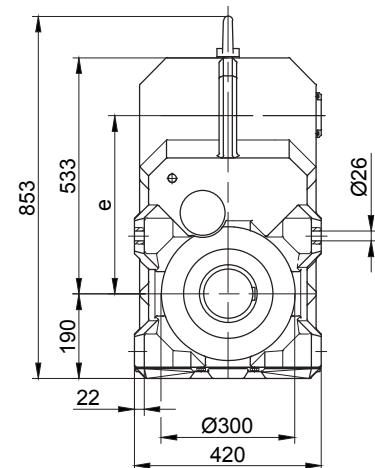
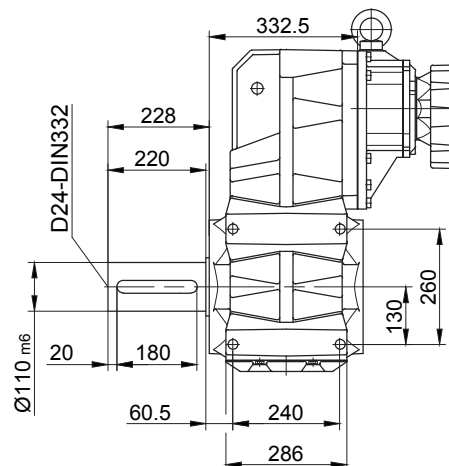


Flanschmasse

BF80G..	k	l	m	n	o	q	s	t
Standard -3./	450	400	350	22	17.5	383.5	5	177
gross -4./	550	500	450	22	17.5	388.5	5	172

Fuss mit Durchgangslöchern links und rechts

Code -1.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

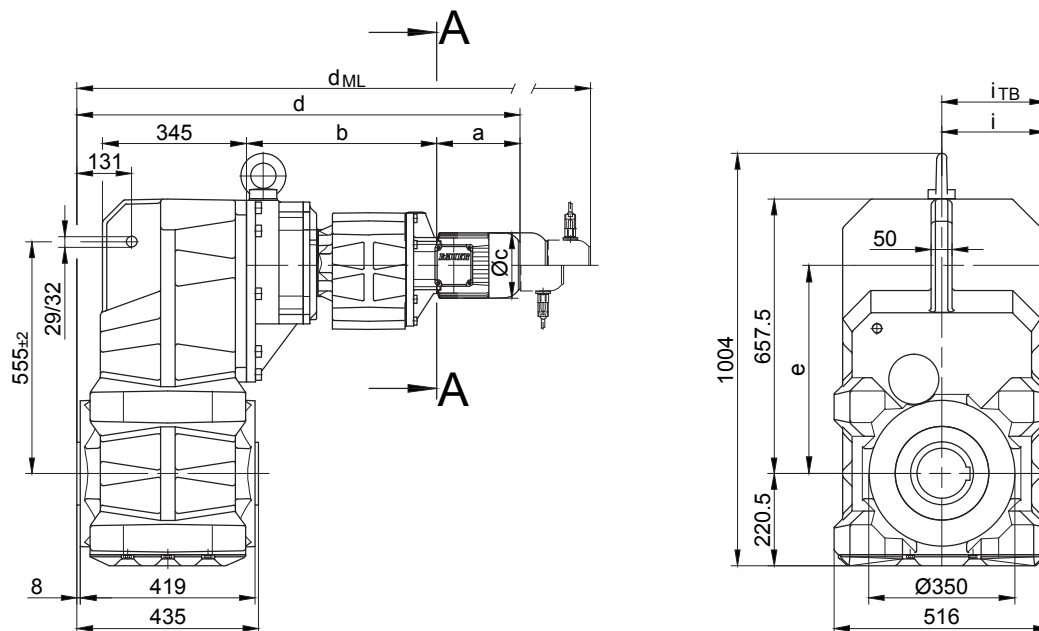
# Flach-Getriebemotoren Reihe BF

## Maßbild

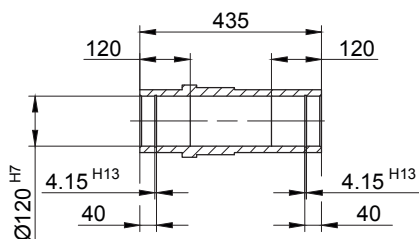
### BF90G50

mit Drehmomentstütze

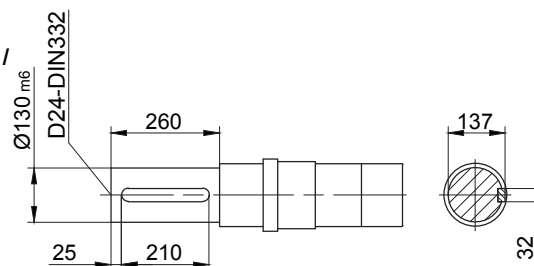
Code -0./



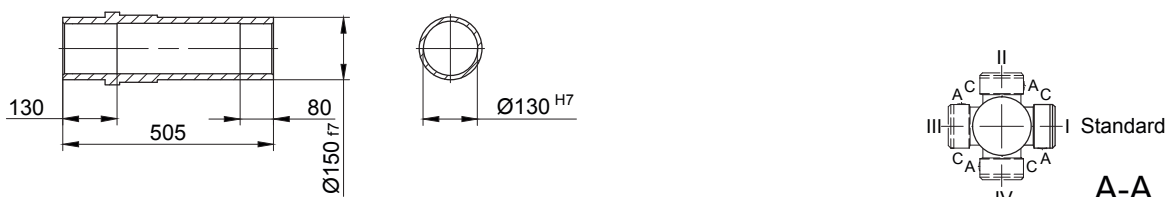
Code -4/



Code -1/



Code -5/



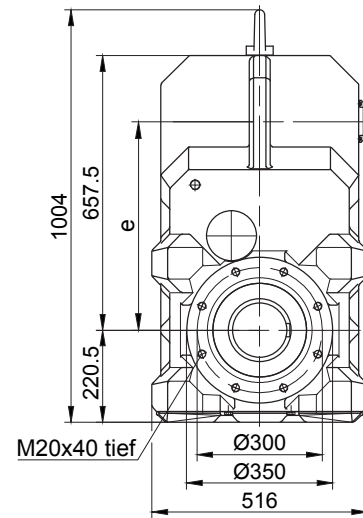
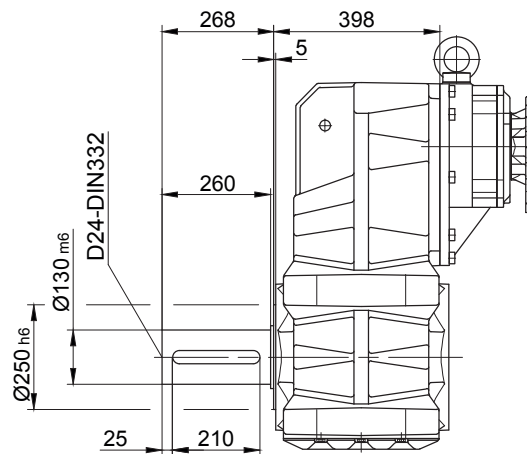
Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							$i_{TB}$	ES../ZS..	G	ES../ZS..-G	RR/RL
								$d_{ML}$	$d_{ML}$	$d_{ML}$	$d_{ML}$
BF90G50-../D..08..	200	456	156	1062	503	115	136.5	1128	1169	1235.5	1128
BF90G50-../D..09..	251	470.5	181	1127.5	499	124	158	1220.5	1234.5	1325	1220.5
BF90G50-../D..11..	319	477	228	1202	499	181	181	1300	1309	1404.5	1300
BF90G50-../D..13..	393	490	258	1289	499	218	218	1400	1396	1504.5	1400
BF90G50-../D..16..	429	504	322	1339	499	244	244	1483	1447	1587	1483
BF90G50-../D..18..	528	535	368	1469	499	288	288	1618	1577	1722	1618

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



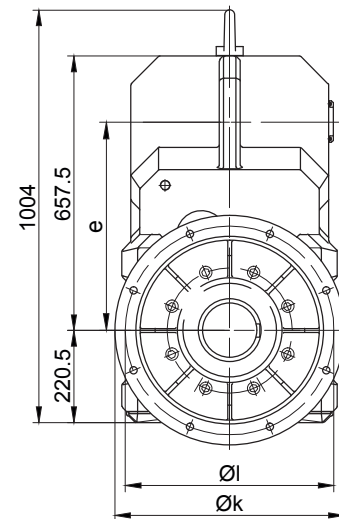
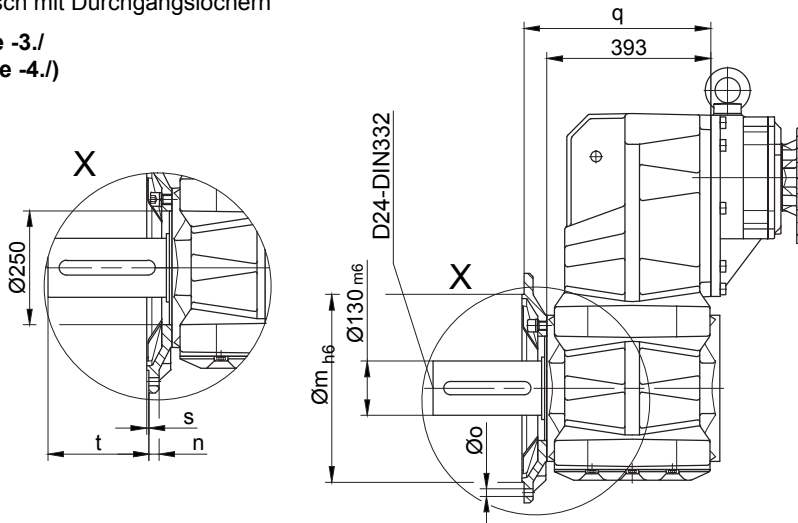
Flansch mit Gewindelöchern

Code -7./



Flansch mit Durchgangslöchern

Code -3./  
(Code -4./)

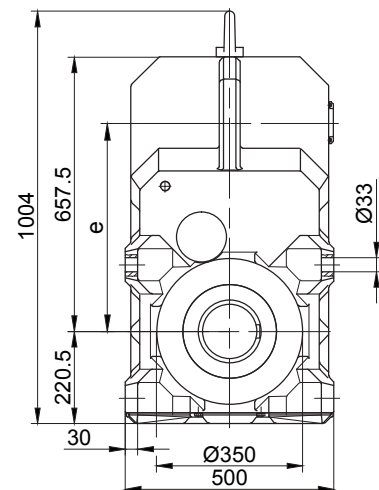
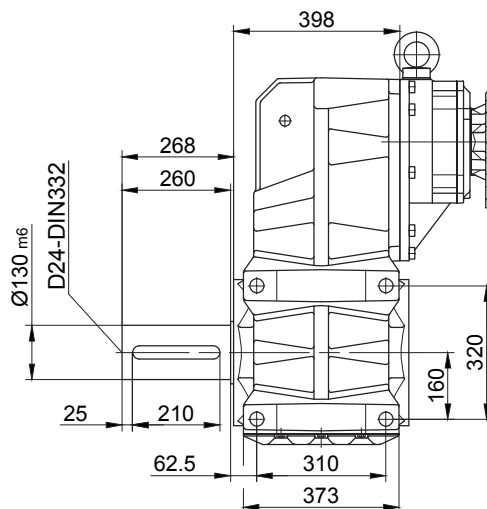


Flanschmasse

BF90G..	k	l	m	n	o	q	s	t
Standard -3./	550	500	450	22	17.5	448	5	218
gross -4./	660	600	550	25	22	442	6	224

Fuss mit Durchgangslöchern links und rechts

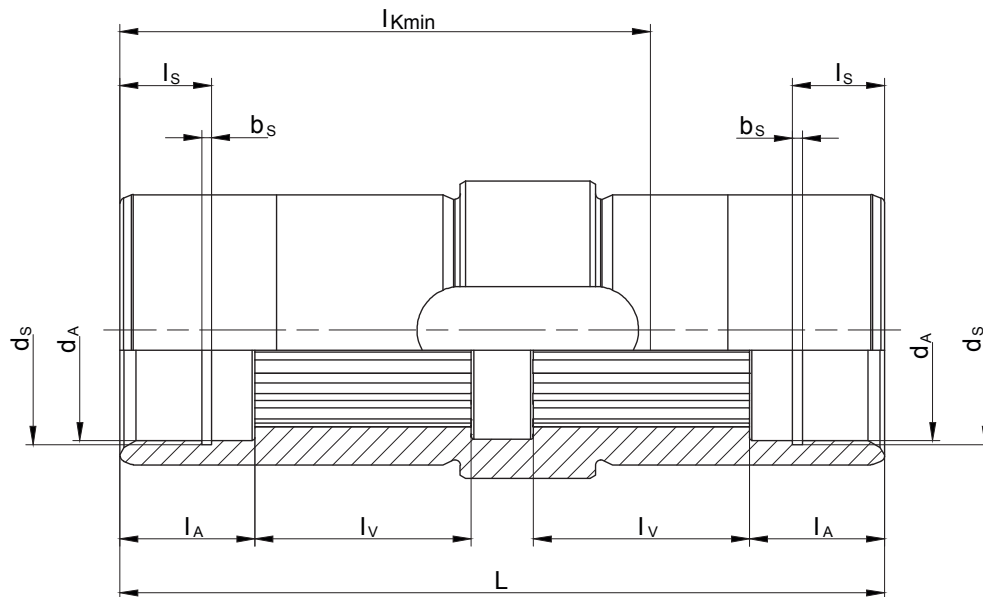
Code -1.LR/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



### Vielkeilverzahnung BF



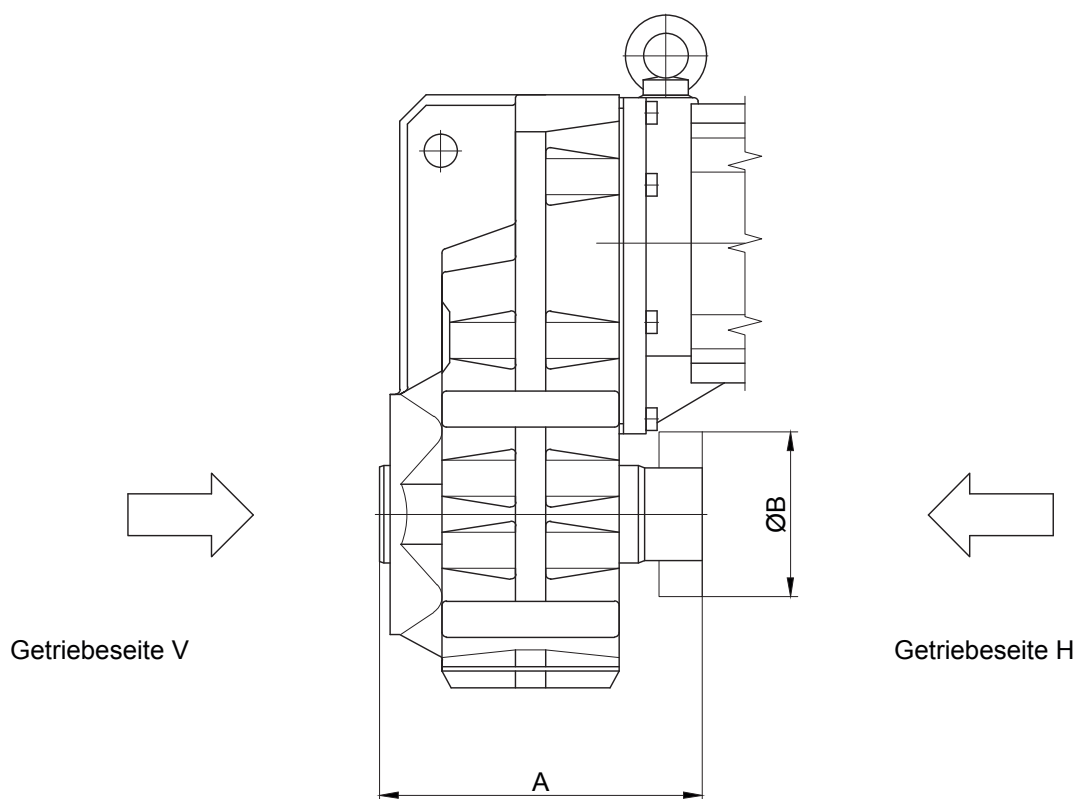
Typ	Vielkeilverzahnung nach DIN 5480	$d_A$ [mm]	$l_A$ [mm]	$l_V$ [mm]	$l_{Kmin}$ [mm]	$L$ [mm]	$d_s$ [mm]	$l_s$ [mm]	$b_s$ [mm]
BF06	N25x1.25x18x9H	30 <sup>G7</sup>	22	20	68	92	31.4 <sup>H12</sup>	15	1.3 <sup>H13</sup>
BF10	N30x1.25x22x9H	30.5 <sup>G7</sup>	22	33.5	87	124.5	31.4 <sup>H12</sup>	15	1.3 <sup>H13</sup>
BF20	N35x2x16x9H	36 <sup>G7</sup>	22	35	92	130	37 <sup>H12</sup>	9.5	1.6 <sup>H13</sup>
BF30	N40x2x18x9H	41 <sup>G7</sup>	25	40	103	141.5	42.5 <sup>H12</sup>	15	1.85 <sup>H13</sup>
BF40	N50x2x24x9H	51 <sup>G7</sup>	25	48	120	166	53 <sup>H12</sup>	9.5	2.15 <sup>H13</sup>
BF50	N60x2x28x9H	61 <sup>G7</sup>	25	55	123	176	63 <sup>H12</sup>	17	2.15 <sup>H13</sup>
BF60	N70x2x34x9H	72 <sup>G7</sup>	25	70	147	202	75 <sup>H12</sup>	17	2.65 <sup>H13</sup>
BF70	N85x3x27x9H	86 <sup>G7</sup>	26	85	185	241	88.5 <sup>H12</sup>	17	3.15 <sup>H13</sup>
BF80	N110x3x35x9H	112 <sup>G7</sup>	50	90	292	361	116 <sup>H12</sup>	30	4.15 <sup>H13</sup>
BF90	N130x5x24x9H	131.5 <sup>G7</sup>	60	110	365	435	134 <sup>H12</sup>	30	4.15 <sup>H13</sup>

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Schrumpfscheibenverbindung (SSV)

(Code BF10-5/...)

(Code BF10Z-5/...)



11

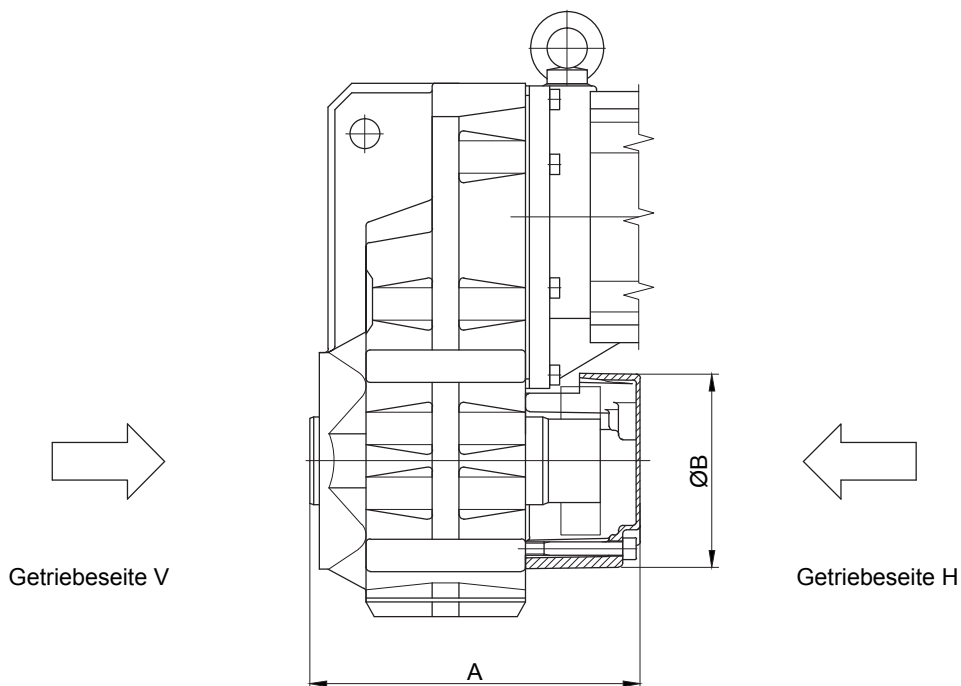
Typ	SSV Ringfeder	SSV STÜWE	A	B
BF10	RfN 4161 036x072	HSD 36-22x36	153	72
BF20	RfN 4161 044x080	HSD 44-22x44	173	80
BF30	RfN 4161 050x090	HSD 50-22x50	192	90
BF40	RfN 4161 062x110	HSD 62-22x62	215	110
BF50	RfN 4161 068x115	HSD 68-22x68	211	115
BF60	RfN 4161 080x141	HSD 80-22x80	257	140
BF70	RfN 4161 105x185	HSD 110-22x105	320	185
BF80	RfN 4161 130x215	HSD 125-22x130	421	215
BF90	RfN 4161 150x263	HSD 155-22x150	505	263

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Schrumpfscheibenverbindung mit Abdeckhaube (SSV)

(Code BF10-.5A/...)

(Code BF10Z-.5A/...)



11

Typ	SSV Ringfeder	SSV STÜWE	A	B
BF10	RfN 4161 036x072	HSD 36-22x36	174	120
BF20	RfN 4161 044x080	HSD 44-22x44	211	140
BF30	RfN 4161 050x090	HSD 50-22x50	223	140
BF40	RfN 4161 062x110	HSD 62-22x62	245	160
BF50	RfN 4161 068x115	HSD 68-22x68	227	200
BF60	RfN 4161 080x141	HSD 80-22x80	290	210
BF70	RfN 4161 105x185	HSD 110-22x105	359	250
BF80	RfN 4161 130x215	HSD 125-22x130	463	300
BF90	RfN 4161 150x263	HSD 155-22x150	557	350

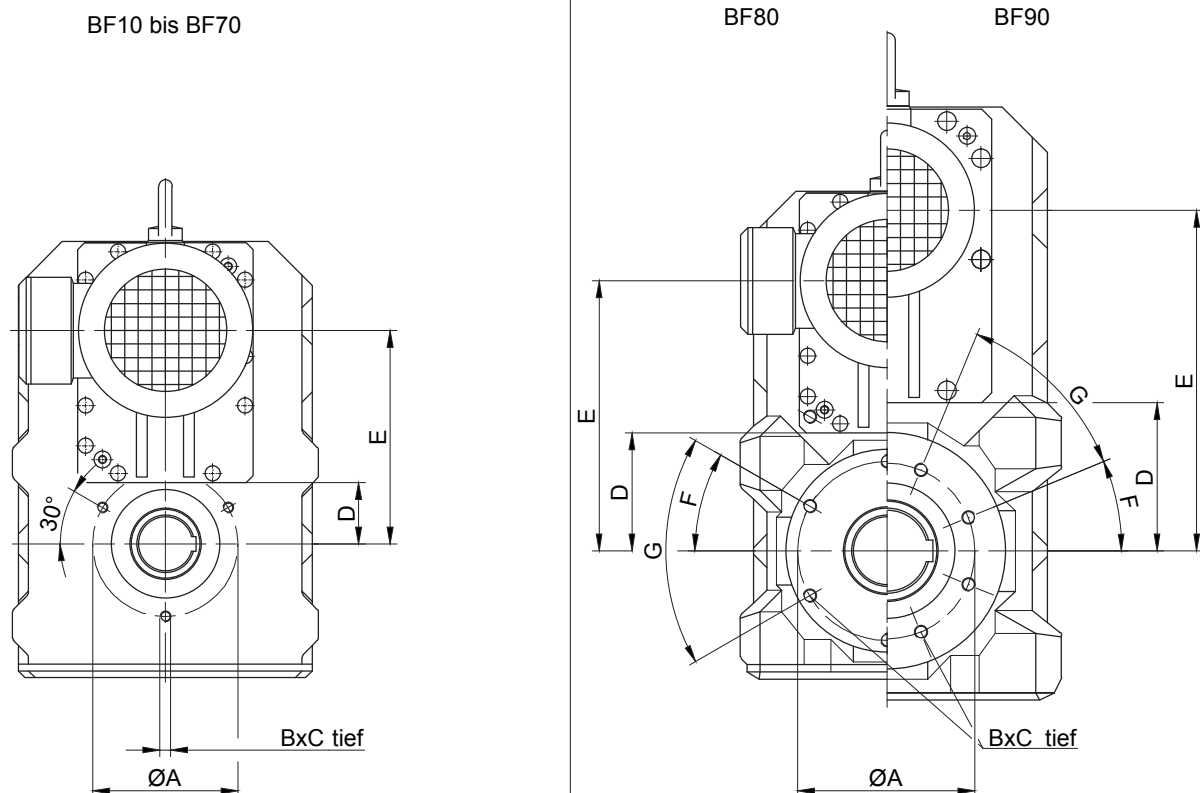
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Flach-Getriebemotoren Reihe BF

## Zusatzmaßbild

### Bohrbild Getriebeseite Hinten (H) zur Befestigung der Abdeckung

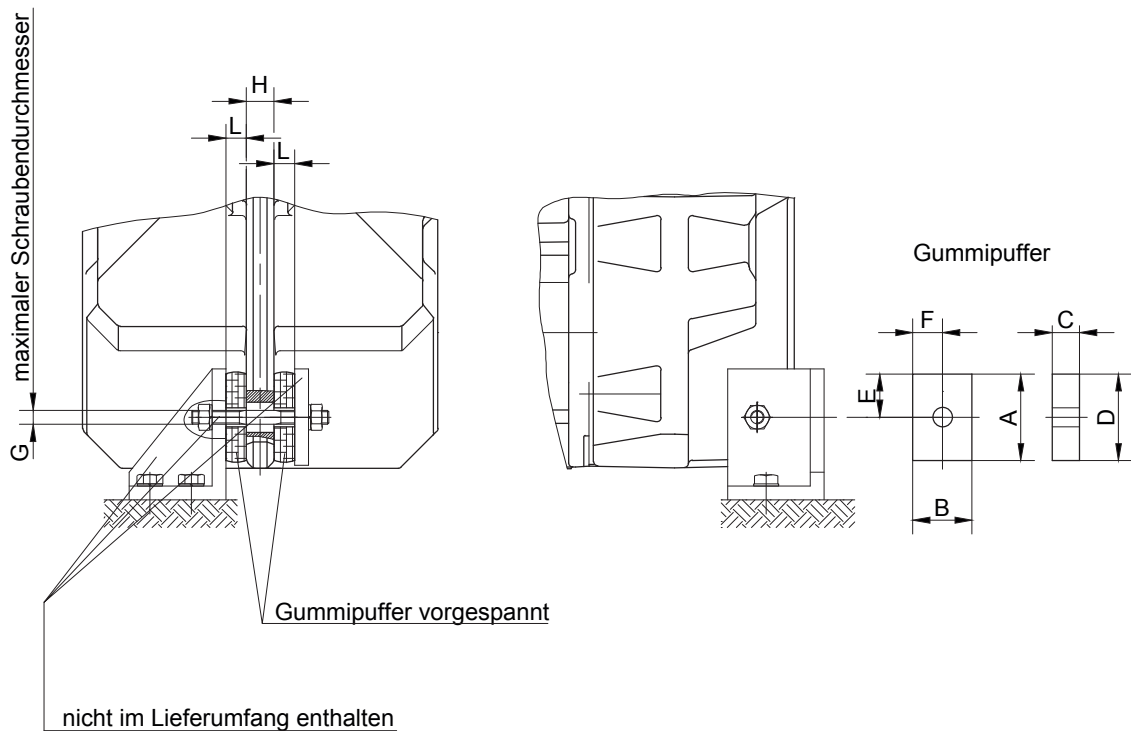
→ Verschlussdeckel



Getriebe	Maße (mm)						
	A	B	C	D	E	F	G
BF10	100	M8	16	35	118	-	-
BF20	115	M10	20	39	136	-	-
BF30	115	M10	20	44	157	-	-
BF40	130	M10	20	52	180.5	-	-
BF50	165	M12	24	60	207	-	-
BF60	180	M12	24	69	255.5	-	-
BF70	215	M16	32	89	316	-	-
BF80	265	M20	40	173	400	30°	6x60°
BF90	300	M20	40	219	504.5	22.5°	8x45°

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Gummipuffer für Drehmomentstütze



Werkstoff: Naturkautschuk  
Härte 50 $\pm$ 5 Shore A

Abmessungen des Querlochs:  
Siehe Maßbild des jeweiligen Getriebes

11

Getriebe	Pos.	Masse (mm)								
		A	B	C	D	E	F	G	H	L
BF06	Pos.0	30	30	12	12	15	15	M10	10	10
BF10	Pos.1	48	32	15	14	24	16	M10	16	13.5
BF20	Pos.1	48	32	15	14	24	16	M10	18	13
BF30	Pos.2	63	43	20	14	31.5	21.5	M10	18	17
BF40	Pos.2	63	43	20	14	31.5	21.5	M10	20	16.5
BF50	Pos.3	88	60	25	22	44	30	M18	24	21.5
BF60	Pos.3	88	60	25	22	44	30	M18	28	21
BF70	Pos.4	123	88	30	26	61.5	44	M20	30	25.5
BF80	Pos.5	133	103	35	26	66.5	51.5	M20	40	30
BF90	Pos.5	133	103	35	26	66.5	51.5	M20	50	29.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

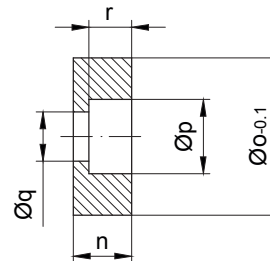
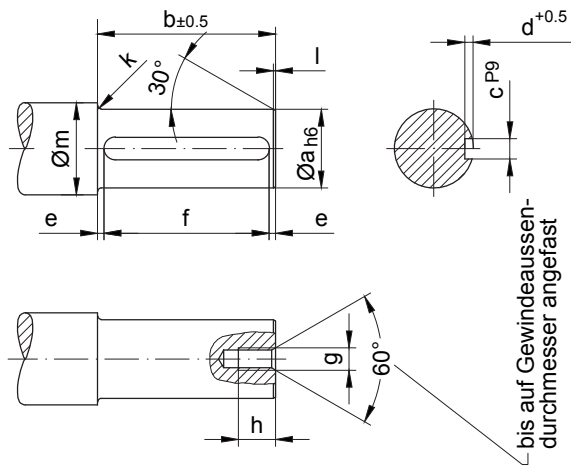
# Flach-Getriebemotoren Reihe BF

## Zusatzmaßbild

### Montagehilfe für Hohlwelle mit Passfedernut

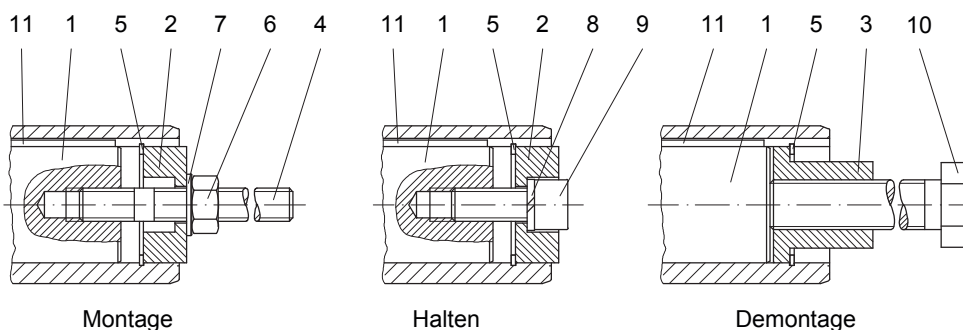
Pos.1 Wellenzapfen

\* Pos.2 Scheibe



✓<sup>x</sup>, Kanten gebrochen  
Werkstoff:  
C45 DIN 17200

Typ	Masse (mm)															
	Pos.1 Wellenzapfen											Pos.2 Scheibe				
	a	b	c	d	e	f	g	h	k	l	m	n	o	p	q	r
BF06	25	70	8	4	3.5	63 <sup>+0.5</sup>	M8	18	2	1.5	33	13.5	24.8	15	9	8.5
BF10	25	102	8	4	6	90 <sup>+0.5</sup>	M8	18	2.5	1.5	33	13.5	24.8	15	9	8.5
BF20	30	108	8	4	9	90 <sup>+0.5</sup>	M10	20	3	1.5	38	15	29.8	18	11	10
BF30	35	118	10	5	9	100 <sup>+0.5</sup>	M10	20	3	1.5	43	16	34.8	18	11	10
BF40	40	141	12	5	8	125 <sup>+0.5</sup>	M12	22	3	2	48	18	39.8	20	13.5	12
BF50	50	148	14	5.5	11.5	125 <sup>+0.5</sup>	M16	30	3.5	2	58	21	49.8	26	17.5	15
BF60	60	173	18	7	6.5	160 <sup>+0.5</sup>	M20	38	3.5	2	68	24	59.8	33	22	18
BF70	80	205	22	9	12.5	180 <sup>+0.5</sup>	M20	38	4	2	90	27	79.8	33	22	20
BF70-K70	70	205	20	7.5	12.5	180 <sup>+0.5</sup>	M20	38	4	2	90	27	69.8	33	22	20
BF80	100	317	28	10	18.5	280 <sup>+0.5</sup>	M24	45	4	3	110	32	99.8	40	26	25
BF90	120	383	32	11	11.5	360 <sup>+0.5</sup>	M24	45	4.5	3	130	35	119.8	40	26	28



Die dargestellten Teile werden zur Montage benötigt. NUR \*gekennzeichneten Teile sind im Montagehilfeset enthalten.

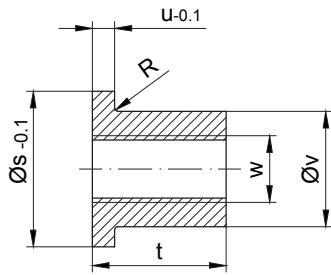
Schraube Pos.9 ist durch geeignete Maßnahmen gegen Losbrechen zu sichern!

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



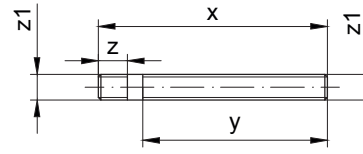
### Montagehilfe für Hohlwelle mit Passfedernut

Pos.3 Hülse



✓<sup>x</sup>, Kanten gebrochen  
Werkstoff: C45 DIN 17200

Pos.4 Gewindebolzen



Werkstoff: Stahl, Zugfestigkeit  $\geq$  1000N/mm<sup>2</sup>  
Gewinde gerollt

Typ	Masse (mm)											* Sicherungsring DIN 472	Sechskantmutter DIN 934-8	Scheibe DIN 125-S1	Federring DIN 7980	* Zylinderschraube DIN 912-8,8	Anzugsmomente [Nm]	Sechskantschraube DIN EN 24017-8,8	Passfedernut DIN 6885 Breite x Höhe x Länge							
	Pos.3 Hülse						Pos.4 Gewindebolzen													Pos.5	Pos.6	Pos.7	Pos.8	Pos.9	Pos.10	Pos.11
	s	t	u	v	w	R	x	y	z	z1																
BF06	24.8	24	5	15.4	M12	0.8	160	130	20	M8	25x1.2	M8	8.4	8	M8x30	5	M12x110	A 8x7x63								
BF10	24.8	24	5	15.4	M12	0.8	160	130	20	M8	25x1.2	M8	8.4	8	M8x30		M12x140	A 8x7x90								
BF20	29.8	28	5	19.8	M14	0.8	170	135	23	M10	30x1.2	M10	10.5	10	M10x30	8	M14x150	A 8x7x90								
BF30	34.8	28	5	23	M14	-	180	145	23	M10	35x1.5	M10	10.5	10	M10x35		M14x160	A 10x8x100								
BF40	39.8	40	6	27.7	M20	0.8	210	170	28	M12	40x1.75	M12	13	12	M12x35	16	M20x200	A 12x8x125								
BF50	49.8	48	6	36	M24	-	230	175	37	M16	50x2.0	M16	17	16	M16x40	30	M24x210	A 14x9x125								
BF60	59.8	60	6	44	M30	-	270	205	45	M20	60x2.0	M20	21	20	M20x50	42	M30x250	A 18x11x160								
BF70	79.8	60	8	55	M30	-	310	240	45	M20	80x2.5	M20	21	20	M20x50		M30x280	A 22x14x180								
BF70-K70	69.8	60	8	53	M30	-	310	240	45	M20	70x2.5	M20	21	20	M20x50		M30x280	A 20x12x180								
BF80	99.8	72	10	75	M36	-	440	360	55	M24	100x3.0	M24	25	24	M24x60	100	M36x410	A 28x16x280								
BF90	119.8	72	10	80	M36	-	510	430	55	M24	120x4.0	M24	25	24	M24x60		M36x480	A 32x18x360								

Die dargestellten Teile werden zur Montage benötigt. NUR \*gekennzeichneten Teile sind im Montagehilfeset enthalten.

Schraube Pos.9 ist durch geeignete Maßnahmen gegen Losbrechen zu sichern!

Optional:	Typ	Ø s	Bestelltext
	BF06	25	Id.Nr.4103921 Montagehilfe "halten"
	BF10	25	Id.Nr.4103921 Montagehilfe "halten"
	BF20	30	Id.Nr.4103939 Montagehilfe "halten"
	BF30	35	Id.Nr.4103947 Montagehilfe "halten"
	BF40	40	Id.Nr.4103955 Montagehilfe "halten"
	BF50	50	Id.Nr.4103963 Montagehilfe "halten"
	BF60	60	Id.Nr.4103971 Montagehilfe "halten"
	BF70	80	Id.Nr.4103980 Montagehilfe "halten"
	BF70-K70	70	Id.Nr.4104765 Montagehilfe "halten"
	BF80	100	Id.Nr.4103998 Montagehilfe "halten"
	BF90	120	Id.Nr.4104005 Montagehilfe "halten"

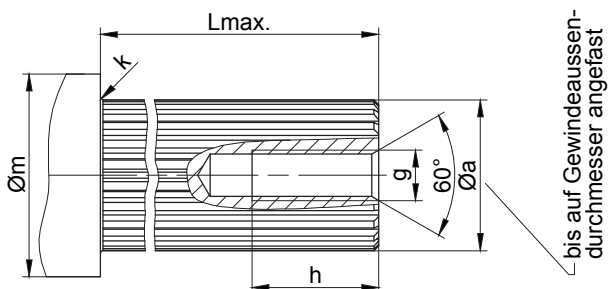
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Flach-Getriebemotoren Reihe BF

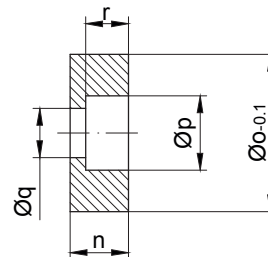
## Zusatzmaßbild

### Montagehilfe für Flachgetriebe mit Vielkeilverzahnung

Pos.1 Wellenzapfen

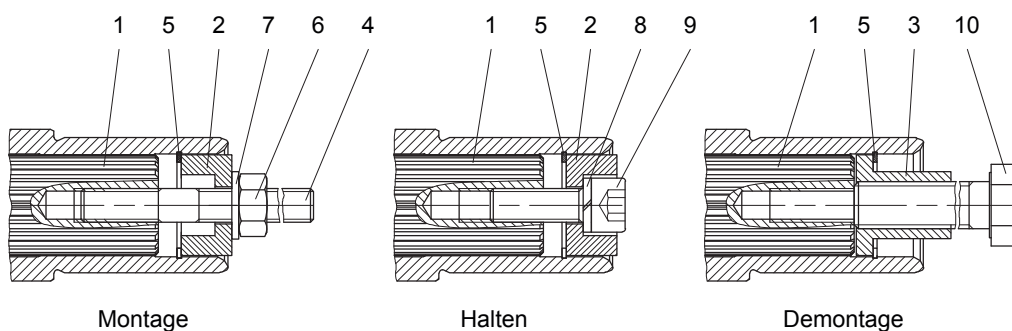


\* Pos.2 Scheibe



✓<sup>x</sup>, Kanten gebrochen  
Werkstoff:  
C45 DIN 17200

Typ	Masse (mm)										
	Pos.1 Wellenzapfen						Pos.2 Scheibe				
	a	g	h	k	Lmax.	m	n	o	p	q	r
BF06	DIN 5480-W25x1.25x18x8f	M8	20	2	70	33	13	29.9	15	9	8
BF10	DIN 5480-W30x1.25x22x8f	M10	25	2.5	100	33	15	30.4	18	11	10
BF20	DIN 5480-W35x2x16x8f	M10	25	3	115	38	14	35.9	18	11	10
BF30	DIN 5480-W40x2x18x8f	M12	30	3	120	43	18	40.9	20	13.5	12
BF40	DIN 5480-W50x2x24x8f	M16	35	3	150	48	17.5	50.9	26	17.5	12.5
BF50	DIN 5480-W60x2x28x8f	M20	40	3.5	150	58	24	60.9	33	22	18
BF60	DIN 5480-W70x2x34x8f	M20	40	3.5	175	68	24	71.9	33	22	18
BF70	DIN 5480-W85x3x27x8f	M20	40	4	215	90	22	85.9	33	22	16
BF80	DIN 5480-W110x3x35x8f	M24	50	4	320	110	32	111.9	40	26	25
BF90	DIN 5480-W130x5x24x8f	M24	50	4.5	390	130	25	131.4	40	26	18



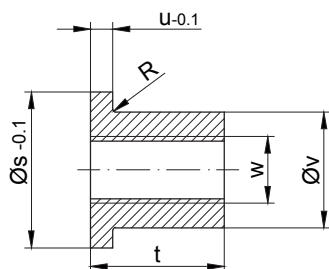
Die dargestellten Teile werden zur Montage benötigt. NUR\* gekennzeichneten Teile sind im Montagehilfeset enthalten.

Schraube Pos.9 ist durch geeignete Maßnahmen gegen Losbrechen zu sichern!

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

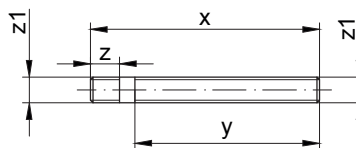
### Montagehilfe für Flachgetriebe mit Vielkeilverzahnung

Pos.3 Hülse



✓<sup>x/</sup> Kanten gebrochen  
Werkstoff:  
C45 DIN 17200

Pos.4 Gewindebolzen



Werkstoff: Stahl, Zugfestigkeit  $\geq$   
1000N/mm<sup>2</sup>  
Gewinde gerollt

Typ	Masse (mm)										* Sicherungsring DIN 472	Sechskantmutter DIN 934-8	Schleibe DIN 125-St	Federring DIN 7980	* Zylinderschraube DIN 7984-8,8	Anzugsmomente [Nm]	Sechskantschraube DIN EN 24017-8,8						
	Pos.3 Hülse						Pos.4 Gewindebolzen											Pos.5	Pos.6	Pos.7	Pos.8	Pos.9	Pos.10
	s	t	u	v	w	R	x	y	z	z1													
BF06	29.9	24	5	15.4	M12	0.8	160	130	20	M8	25x1.2	M8	8.4	8	M8x30	5	M12x110						
BF10	30.4	28	5	19.8	M14	-	170	135	23	M10	30x1.2	M10	10.5	10	M10x30	8	M14x150						
BF20	35.9	28	5	23	M14	-	180	145	23	M10	35x1.5	M10	10.5	10	M10x35		M14x160						
BF30	40.9	40	6	27.7	M20	-	210	170	28	M12	40x1.75	M12	13	12	M12x35	16	M20x200						
BF40	50.9	48	6	36	M24	0.8	230	175	37	M16	50x2.0	M16	17	16	M16x40	30	M24x210						
BF50	60.9	60	6	44	M30	-	270	205	45	M20	60x2.0	M20	21	20	M20x50	42	M30x250						
BF60	71.9	60	6	53	M30	0.8	310	240	45	M20	70x2.5	M20	21	20	M20x50		M30x280						
BF70	85.9	60	8	65	M30	0.8	310	240	45	M20	85x3	M20	21	20	M20x50		M30x280						
BF80	111.9	72	10	85	M36	0.8	440	360	55	M24	112x4	M24	25	24	M24x60	100	M36x410						
BF90	131.4	72	10	95	M36	0.8	510	430	55	M24	130x4	M24	25	24	M24x60		M36x480						

Die dargestellten Teile werden zur Montage benötigt. NUR\* gekennzeichneten Teile sind im Montagehilfeset enthalten.

Schraube Pos.9 ist durch geeignete Maßnahmen gegen Losbrechen zu sichern!

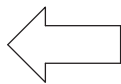
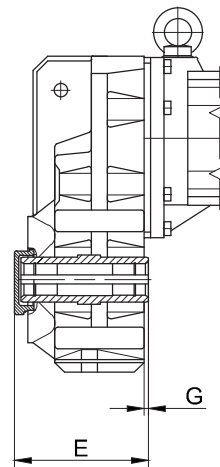
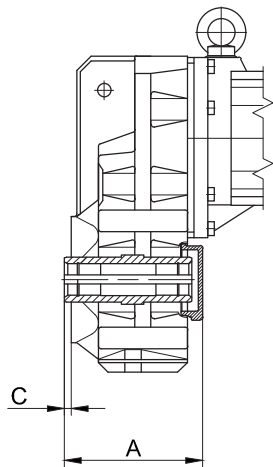
Optional:	Typ	Ø s	Bestelltext
	BF06	30	Id.Nr.4105125 Montagehilfe "halten"
	BF10	30.5	Id.Nr.4105133 Montagehilfe "halten"
	BF20	36	Id.Nr.4105141 Montagehilfe "halten"
	BF30	41	Id.Nr.4105150 Montagehilfe "halten"
	BF40	51	Id.Nr.4105168 Montagehilfe "halten"
	BF50	61	Id.Nr.4105176 Montagehilfe "halten"
	BF60	72	Id.Nr.4105184 Montagehilfe "halten"
	BF70	86	Id.Nr.4105192 Montagehilfe "halten"
	BF80	112	Id.Nr.4105206 Montagehilfe "halten"
	BF90	131.5	Id.Nr.4105214 Montagehilfe "halten"

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

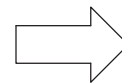
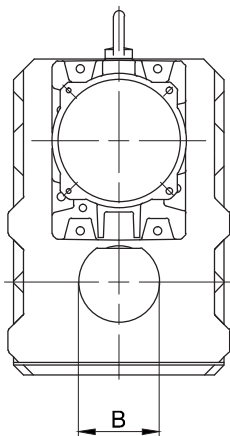
# Flach-Getriebemotoren Reihe BF

## Zusatzmaßbild

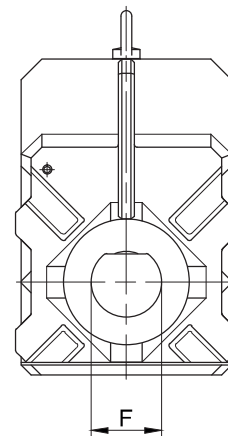
### Verschlusskappen (VK)



Getriebeseite H



Getriebeseite V



Verschlusskappe HINTEN

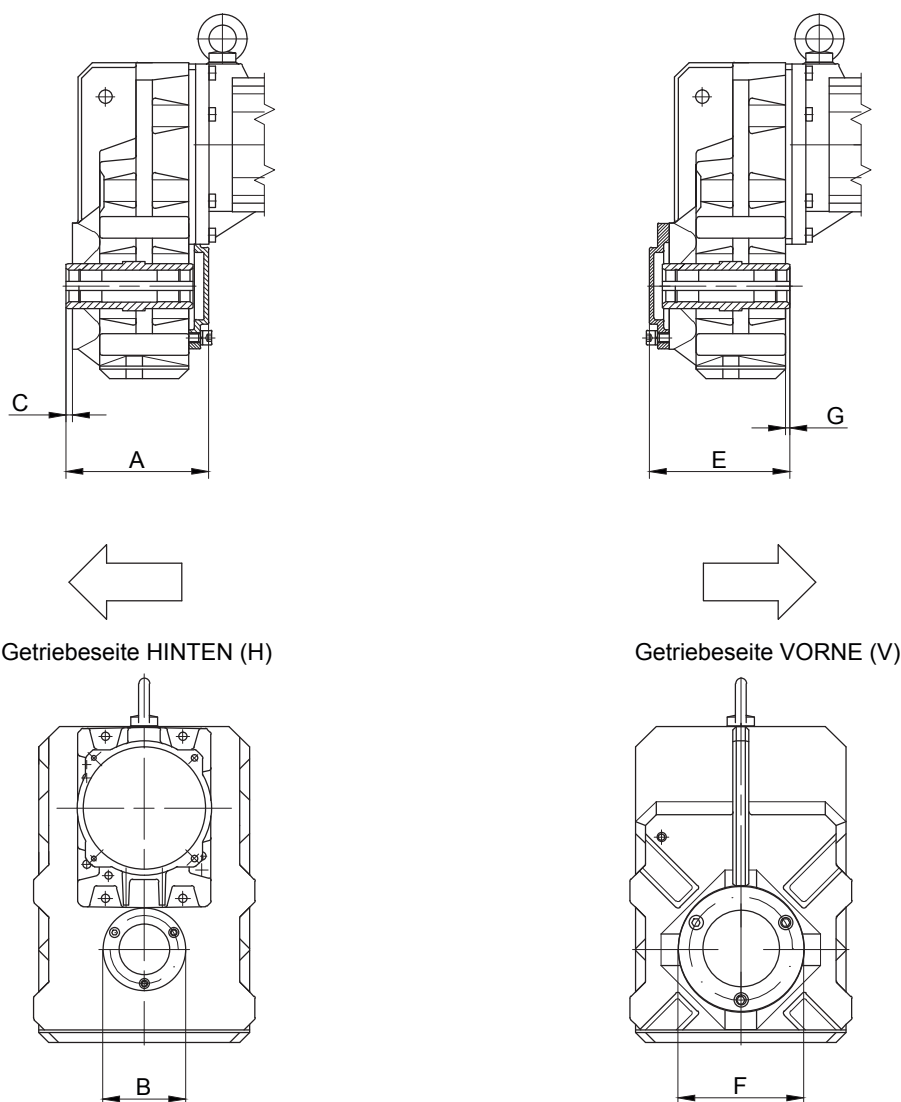
Typ	A	B	C
BF10	134	78	5
BF20	142	85	5
BF30	153.5	90	7.5
BF40	179.5	110	7
BF50	192	125	6
BF60	222	140	7
BF70	258	170	6

Verschlusskappe VORNE

Typ	E	F	G
BF30	149	78	7.5
BF50	189.5	110	6
BF70	262	130	6

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Verschlussdeckel (VD)



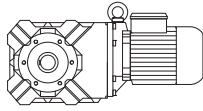
Verschlussdeckel HINTEN			
Typ	A	B	C
BF80	376	300	8
BF90	442	350	8

Verschlussdeckel VORNE			
Typ	E	F	G
BF10	135.5	120	5
BF20	144	139.5	5
BF30	153	139.5	7.5
BF40	179.5	160	7
BF50	191.5	199	6
BF60	221.5	210	7
BF70	258	250	6
BF80	376	300	8
BF90	442	350	8

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



# 12



Seite

---

## Maßbilder der Kegelrad-Getriebemotoren

443-496

- Standard
- Doppelgetriebe

### Zusatzmaßbilder

- Vielkeilverzahnung nach DIN 5480
  - Schrumpfscheibenverbindung (SSV)
  - Schrumpfscheibenverbindung mit Abdeckung (SSV)
  - Gummipuffer für Drehmomentstütze
  - Lage der Drehmomentstütze
  - Fuß mit Gewindelöchern
  - Fußplatte mit Durchgangslöchern
  - Montagehilfe für Hohlwelle
  - Montagehilfe für Vielkeilverzahnung
  - Verschlusskappen (VK)
  - Verschlussdeckel (VD)
-

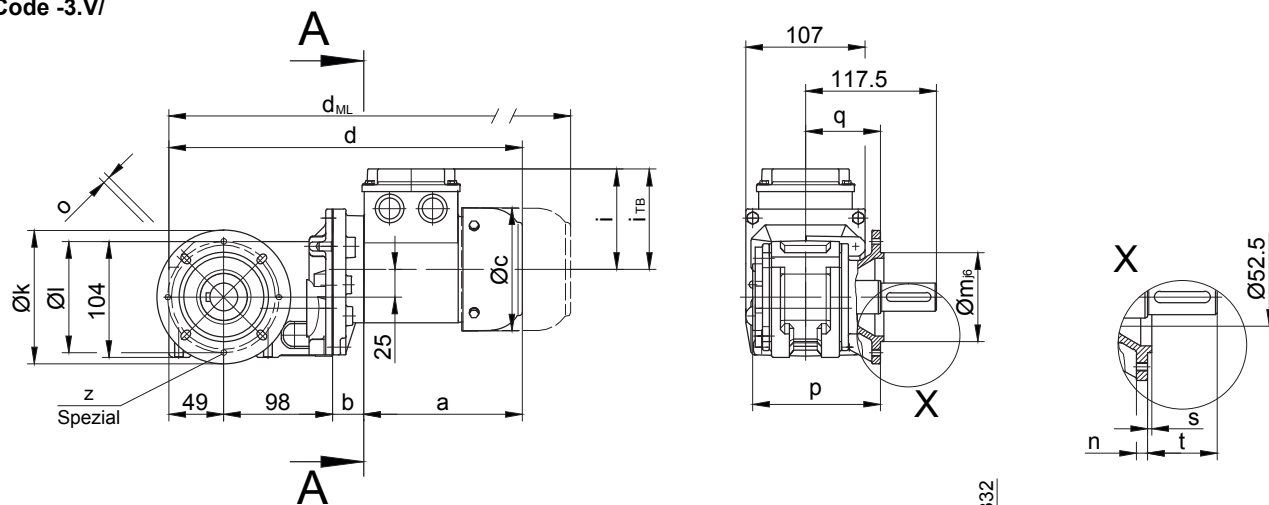
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

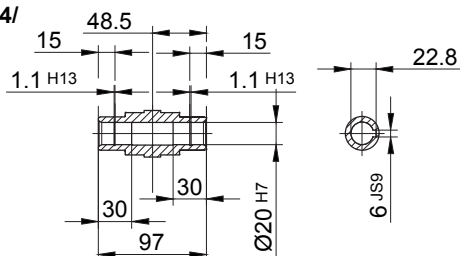
### BK06

Flansch mit Durchgangslöchern vorne

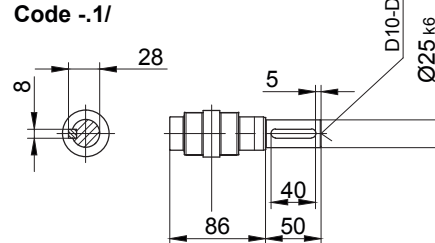
Code -3.V/



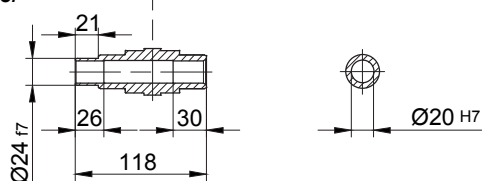
Code -.4/



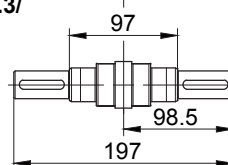
Code -.1/



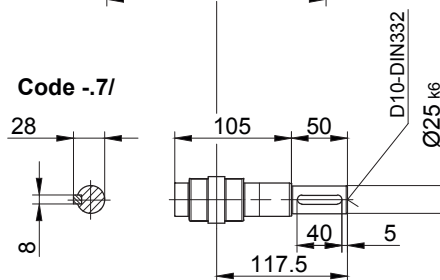
Code -.5/



Code -.3/

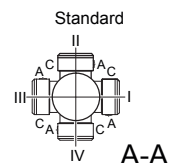


Code -.7/



Flanschmasse

BK06	k	l	m	n	o	p	q	s	t	z
Standard -37V/	120	100	80	8	6.6	115	67.5	3	50	-
Spezial -37V/	120	100	80	8	6.6	115	67.5	3	50	4xM6



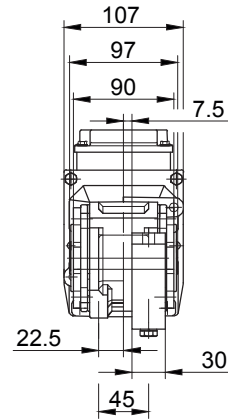
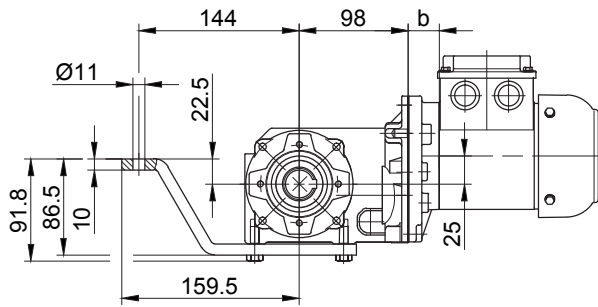
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BK06-../D04..	143	28	111	318	90	112	361.5	380.5	423.5	-
BK06-../D05..	170	30	123	347	100	117	389	450	491.5	-
BK06-../D06..	170	30	123	347	100	119	389	450	491.5	-
BK06-../D07..	190	30	123	367	100	119	409	470	511.5	-
BK06-../D..08..	200	74	156	421	115	136.5	487	528	594.5	487

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



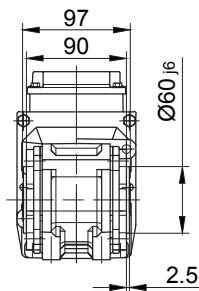
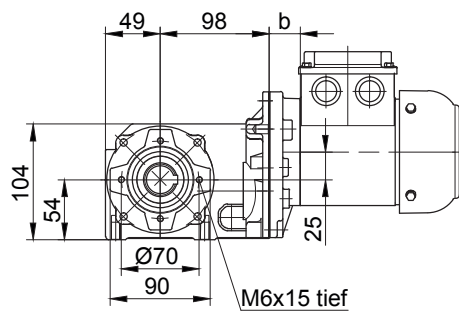
Drehmomentstütze vorne

Code -5.V/



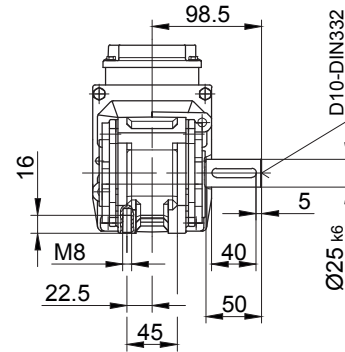
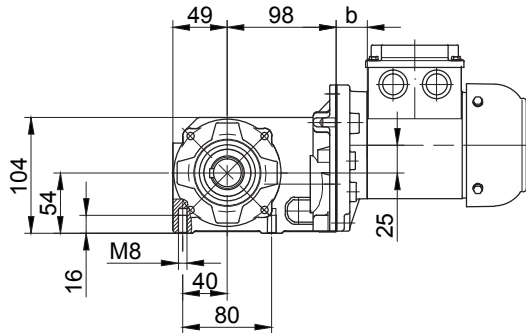
Flansch mit Gewindelöchern vorne

Code -7.V/



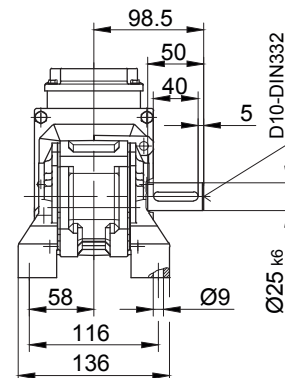
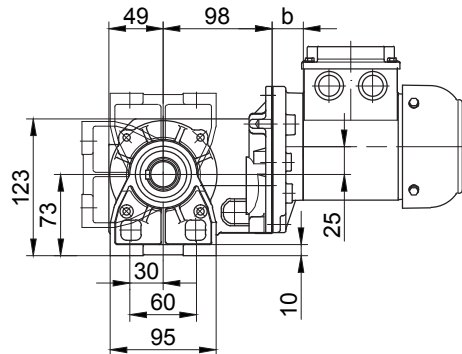
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

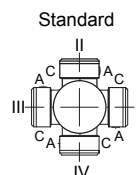
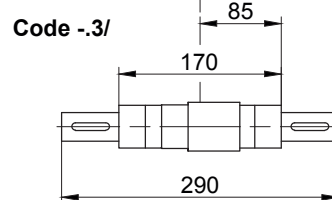
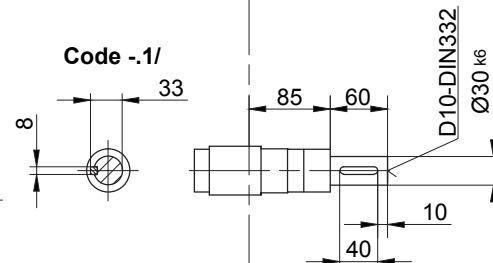
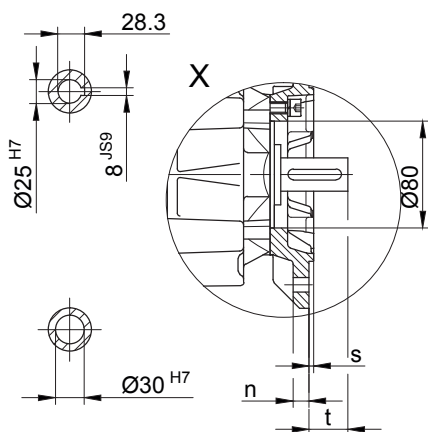
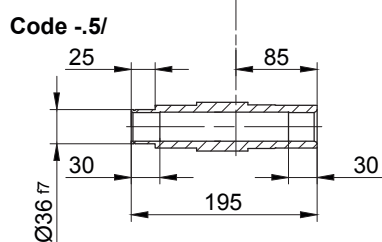
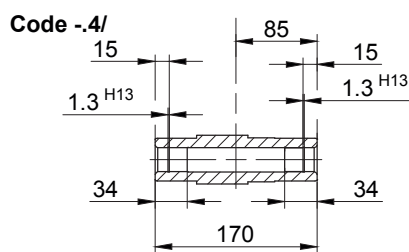
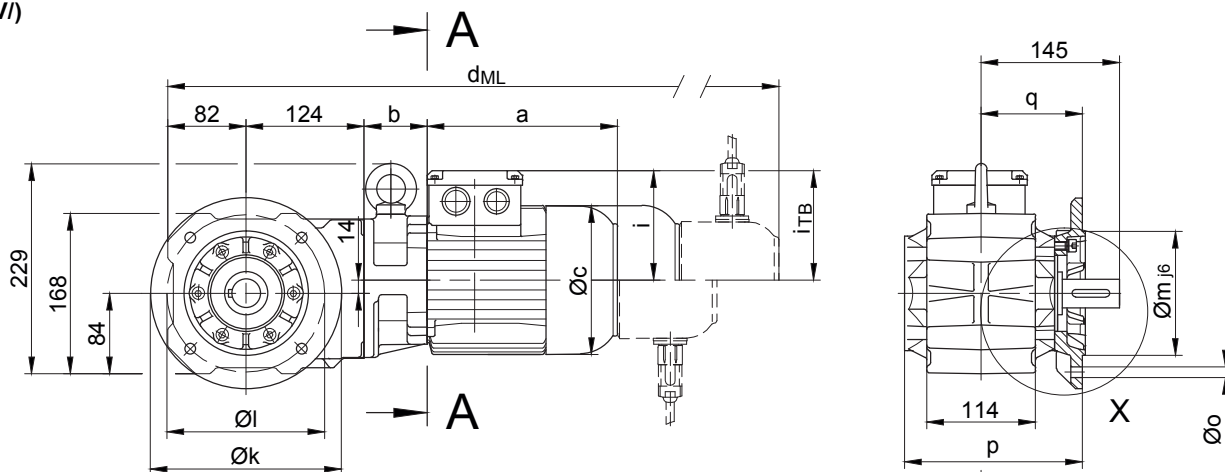
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

### BK10 - BK10Z

Flansch mit Durchgangslöchern vorne

Code -3.V/  
(Code -2.V/)



A-A

Flanschmasse

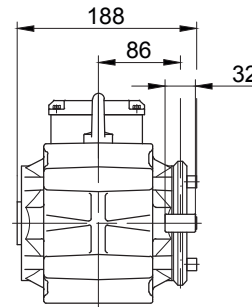
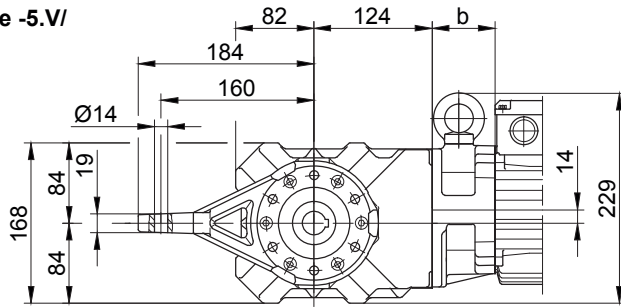
BK10(Z)	k	l	m	n	o	p	q	s	t
Standard -3.V/	200	165	130	12	11	186.5	106	3.5	39
klein -2.V/	160	130	110	10	9	179.5	99	3.5	46

Typ	a	b	c	d	i	i <sub>TB</sub>	Ausführung mit Motoranbauten			
							E./ES..	G	E./ES.-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BK10Z-../D04..	143	86	111	435	90	112	478.5	497.5	540.5	-
BK10-../D05..	170	62	123	438	100	117	480	541	582.5	-
BK10Z-../D05..	170	88	123	464	100	117	506	567	608.5	-
BK10-../D06..	170	62	123	438	100	119	480	541	582.5	-
BK10Z-../D06..	170	88	123	464	100	119	506	567	608.5	-
BK10-../D07..	190	62	123	458	100	119	500	561	602.5	-
BK10Z-../D07..	190	88	123	484	100	119	526	587	628.5	-
BK10-../D..08..	200	66	156	472	115	136.5	538	579	645.5	538
BK10Z-../D..08..	200	132	156	538	115	136.5	604	645	711.5	604
BK10-../D..09..	251	80.5	181	537.5	124	158	630.5	644.5	735	630.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

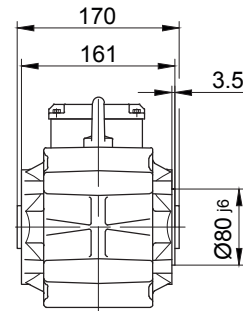
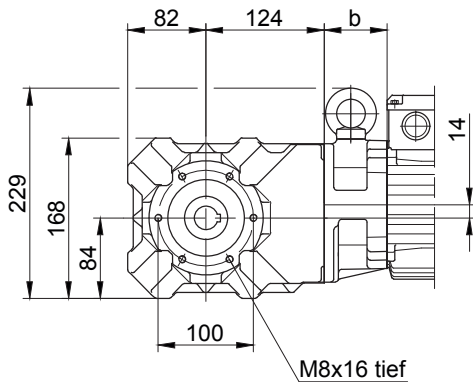
Drehmomentstütze vorne

Code -5.V/



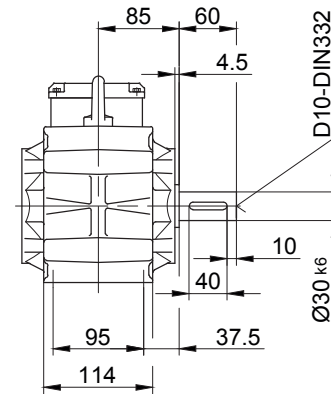
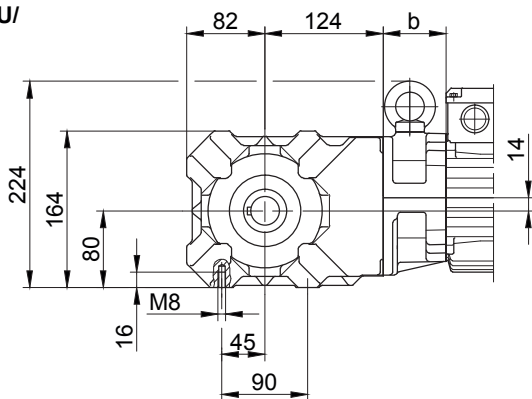
Flansch mit Gewindelöchern vorne

Code -7.V/



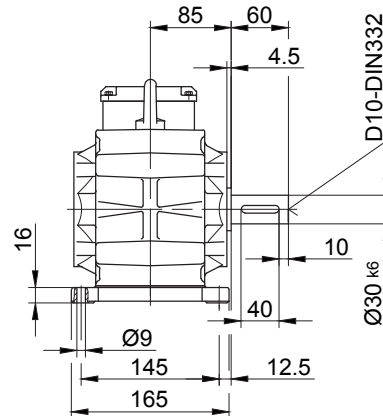
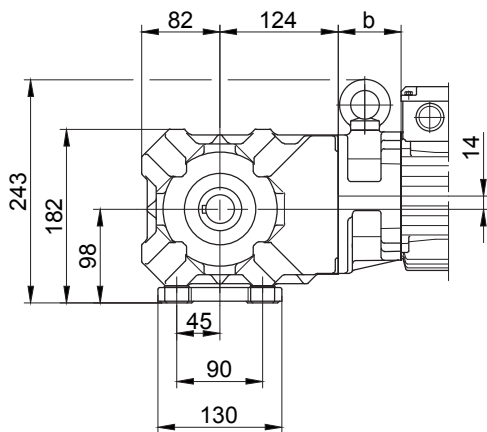
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

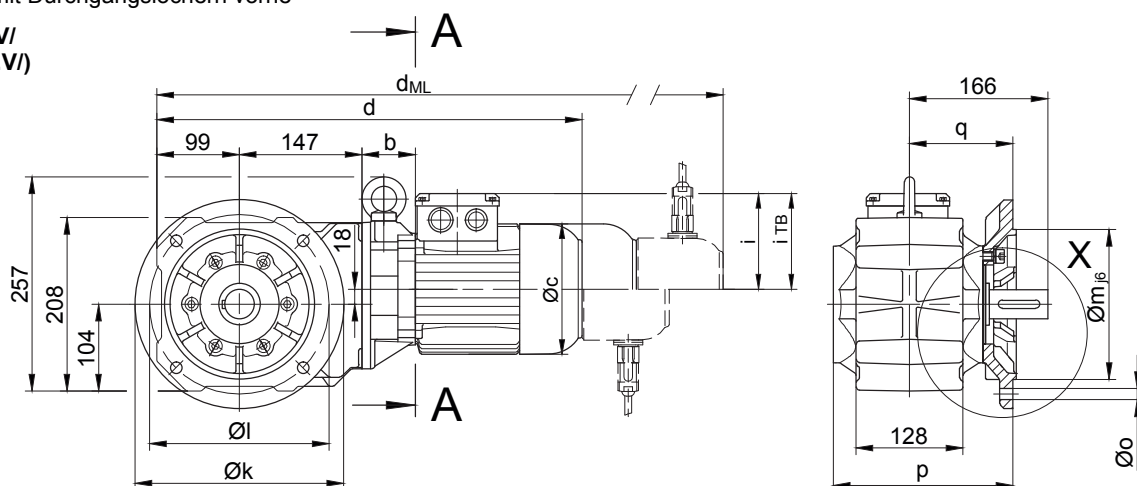
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

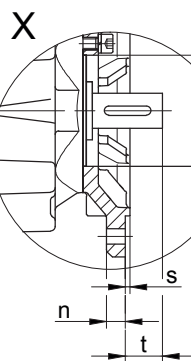
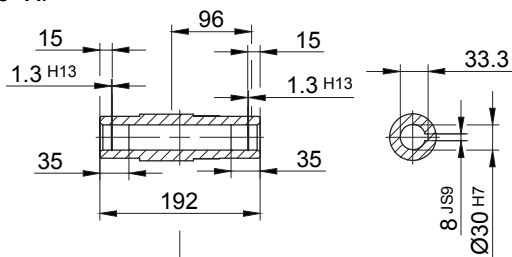
### BK20 - BK20Z

Flansch mit Durchgangslöchern vorne

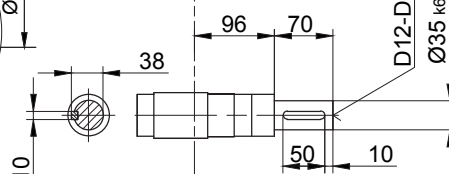
Code -3.V/  
(Code -2.V/)



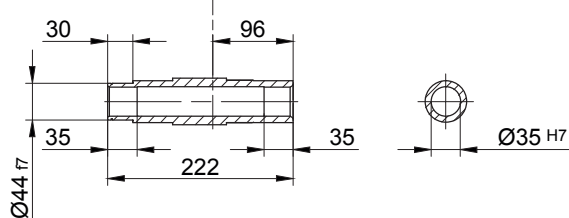
Code -4/



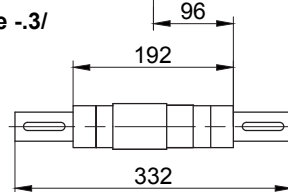
Code -1/



Code -5/



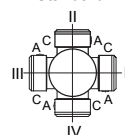
Code -3/



Flanschmasse

BK20(Z)	k	l	m	n	o	p	q	s	t
Standard -3.V/	250	215	180	16	13.5	215.5	124	4	42
klein -2.V/	200	165	130	12	11	206.5	115	3.5	51

Standard



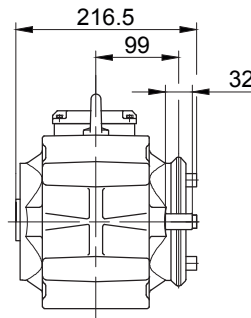
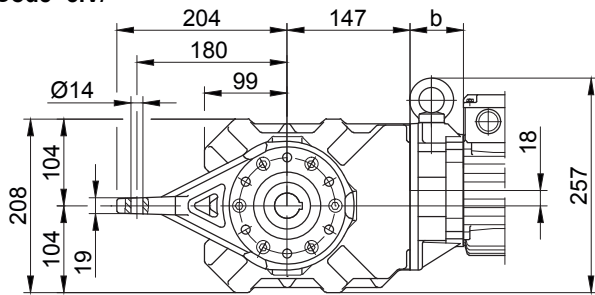
A-A

Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	ES../ZS..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BK20Z-../D04..	143	100	111	489	90	112	532.5	551.5	594.5	-
BK20-../D05..	170	60	123	476	100	117	518	579	620.5	-
BK20Z-../D05..	170	102	123	518	100	117	560	621	662.5	-
BK20-../D06..	170	60	123	476	100	119	518	579	620.5	-
BK20Z-../D06..	170	102	123	518	100	119	560	621	662.5	-
BK20-../D07..	190	60	123	496	100	119	538	599	640.5	-
BK20Z-../D07..	190	102	123	538	100	119	580	641	682.5	-
BK20-../D..08..	200	64	156	510	115	136.5	576	617	683.5	576
BK20Z-../D..08..	200	146	156	592	115	136.5	658	699	765.5	658
BK20-../D..09..	251	78.5	181	575.5	124	158	668.5	682.5	773	668.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

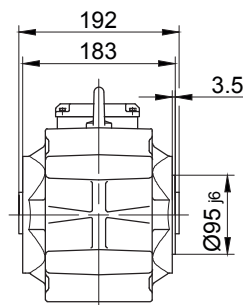
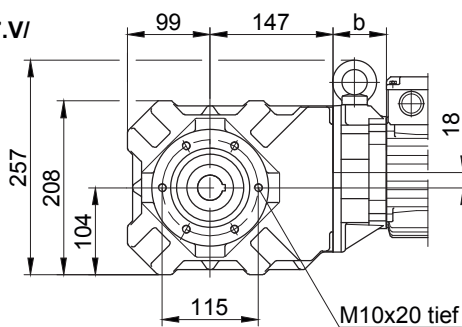
Drehmomentstütze vorne

Code -5.V/



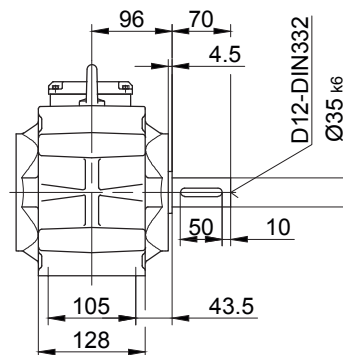
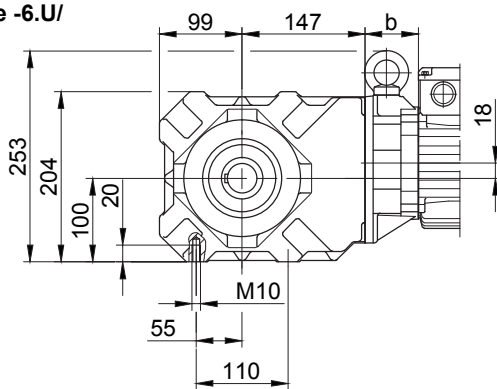
Flansch mit Gewindelöchern vorne

Code -7.V/



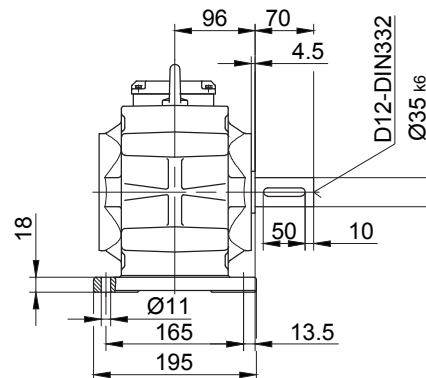
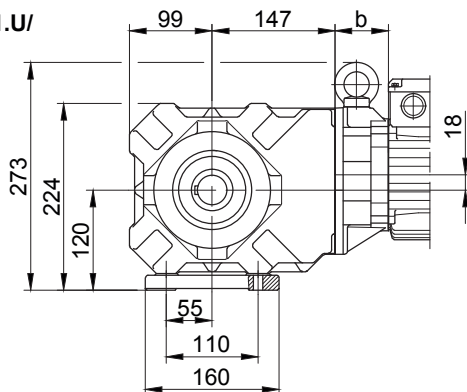
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

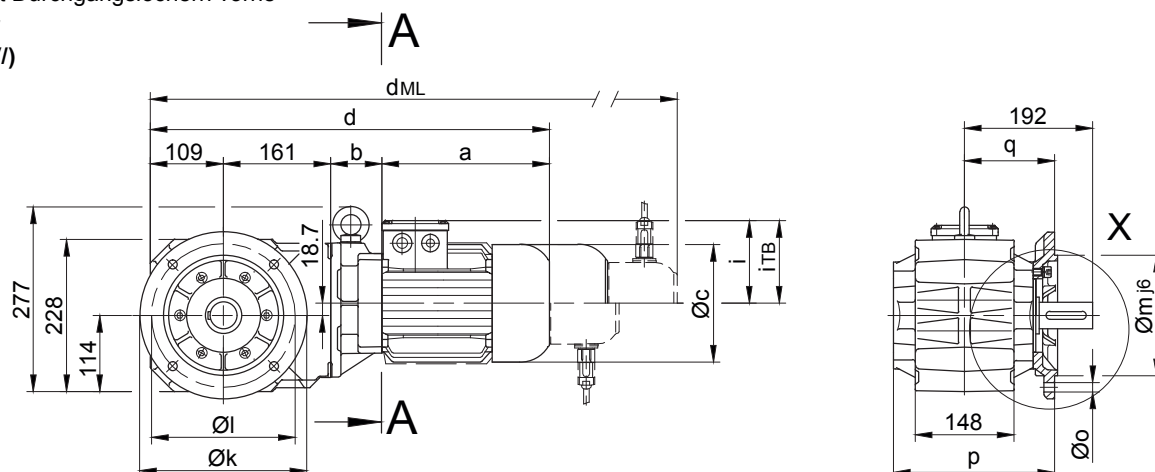
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

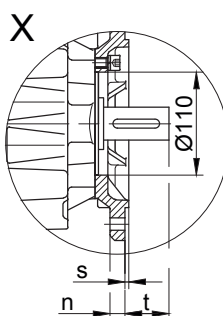
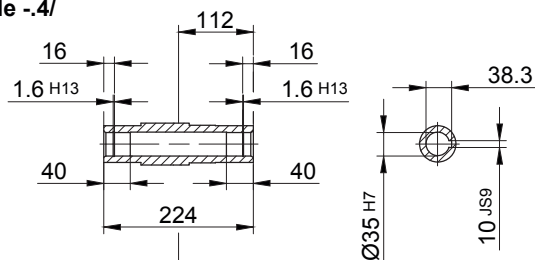
### BK30 - BK30Z

Flansch mit Durchgangslöchern vorne

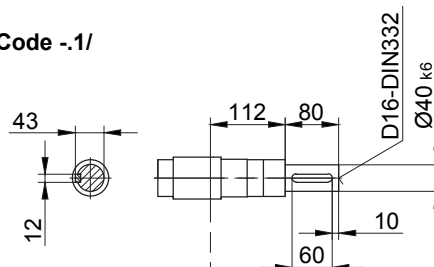
Code -3.V/  
(Code -2.V/)



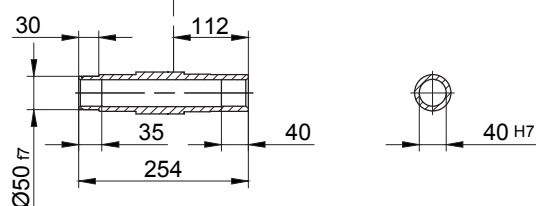
Code -4/



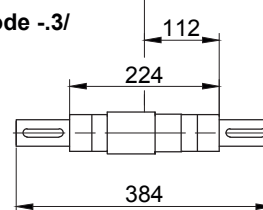
Code -1/



Code -5/

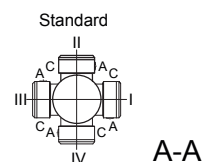


Code -3/



Flanschmasse

BK30(Z)	k	l	m	n	o	p	q	s	t
Standard -3.V/	250	215	180	16	13.5	242	135	4	57
Klein -2.V/	200	165	130	12	11	239	132	3.5	60



A-A

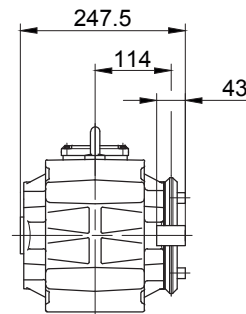
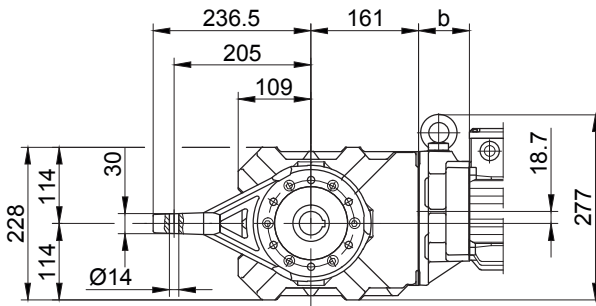
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E./ES..	G	E./ES..-G	RR/RL
						d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BK30-../D05..	170	58	123	498	100	117	540	601	642.5	-
BK30Z-../D05..	170	133.5	123	573.5	100	117	615.5	676.5	718	-
BK30-../D06..	170	58	123	498	100	119	540	601	642.5	-
BK30Z-../D06..	170	133.5	123	573.5	100	119	615.5	676.5	718	-
BK30-../D07..	190	58	123	518	100	119	560	621	662.5	-
BK30Z-../D07..	190	133.5	123	593.5	100	119	635.5	696.5	738	-
BK30-../D..08..	200	62	156	532	115	136.5	598	639	705.5	598
BK30Z-../D..08..	200	137.5	156	607.5	115	136.5	673.5	714.5	781	673.5
BK30-../D..09..	251	76.5	181	597.5	124	158	690.5	704.5	795	690.5
BK30Z-../D..09..	251	152	181	673	124	158	766	780	870.5	766
BK30-../D..11..	319	83	228	672	181	181	770	779	874.5	770

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### BK30 - BK30Z

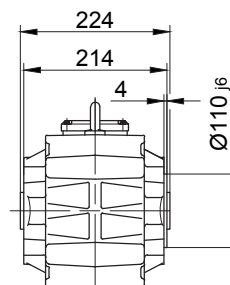
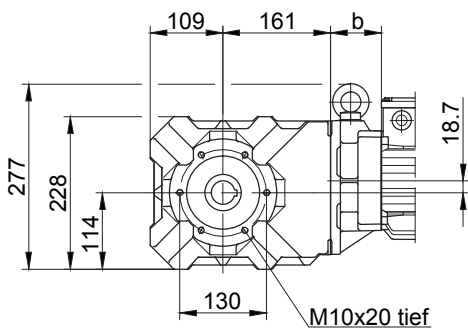
Drehmomentstütze vorne

Code -5.V/



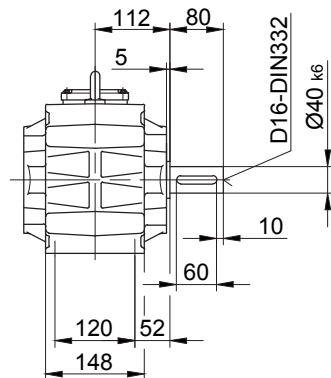
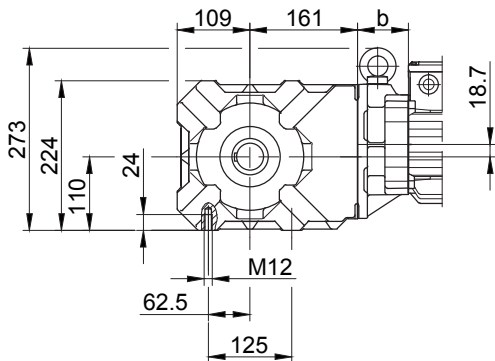
Flansch mit Gewindelöchern vorne

Code -7.V/



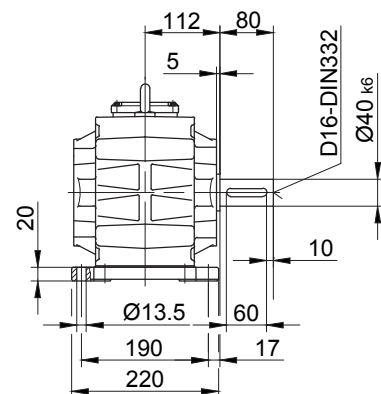
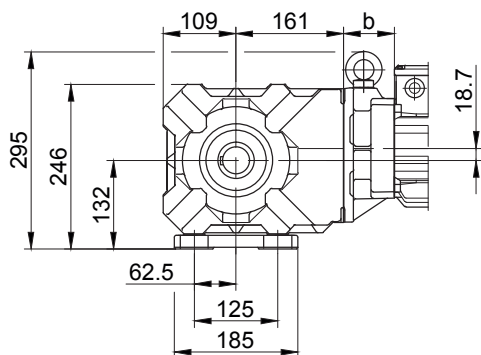
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

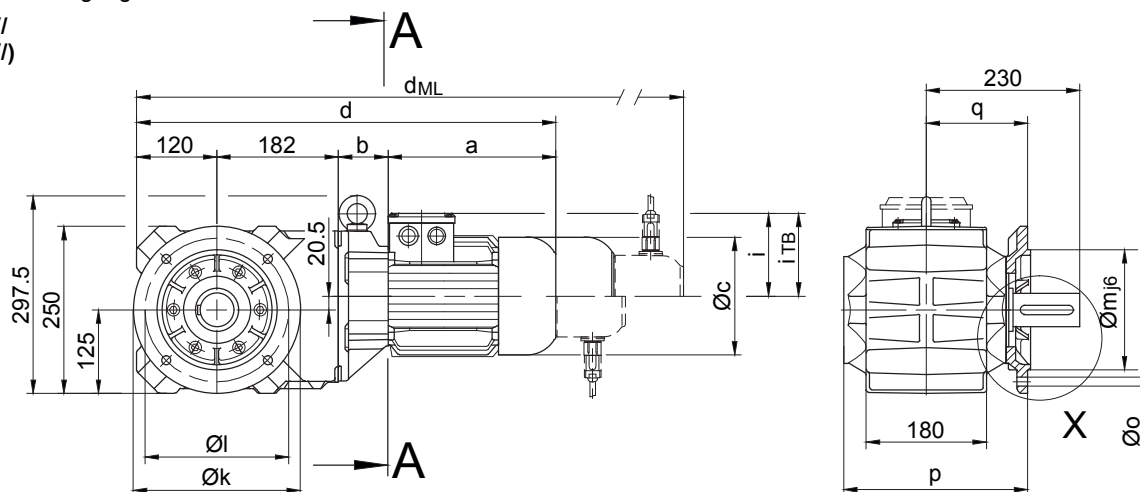
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

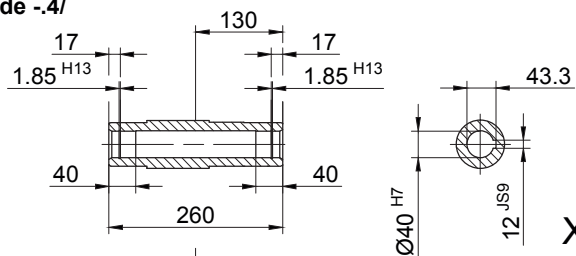
### BK40 - BK40Z

Flansch mit Durchgangslöchern vorne

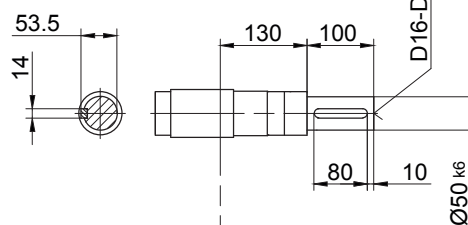
Code -3.V/  
(Code 4.V/)



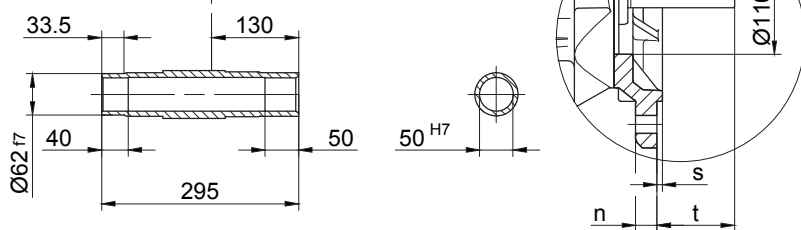
Code -4/



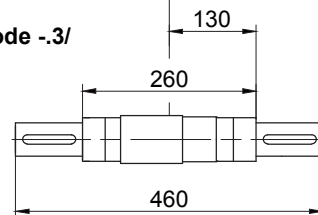
Code -1/



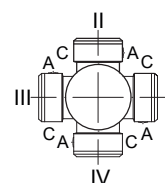
Code -5/



Code -3/



Standard



A-A

Flanschmasse

BK40(Z)	k	l	m	n	o	p	q	s	t
Standard -3V/	250	215	180	16	13.5	276	152	4	78
gross -4V/	300	265	230	20	13.5	282	158	4	72

Type	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E./ES..	G	E./ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BK40Z-../D05..	170	138.5	123	610.5	100	117	652.5	713.5	755	-
BK40Z-../D06..	170	138.5	123	610.5	100	119	652.5	713.5	755	-
BK40Z-../D07..	190	138.5	123	630.5	100	119	672.5	733.5	775	-
BK40-../D..08..	200	60	156	562	115	136.5	628	669	735.5	628
BK40Z-../D..08..	200	142.5	156	644.5	115	136.5	710.5	751.5	818	710.5
BK40-../D..09..	251	74.5	181	627.5	124	158	720.5	734.5	825	720.5
BK40Z-../D..09..	251	157	181	710	124	158	803	817	907.5	803
BK40-../D..11..	319	81	228	702	181	181	800	809	904.5	800

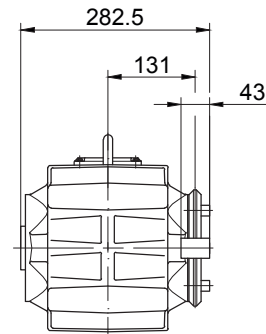
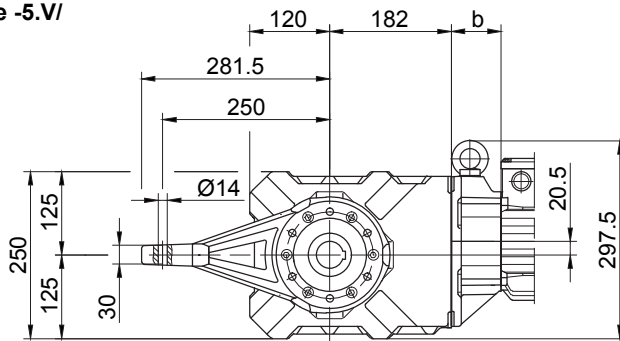
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



### BK40 - BK40Z

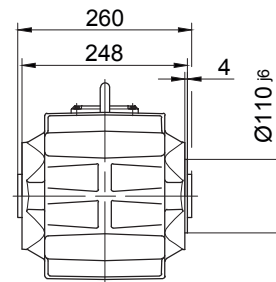
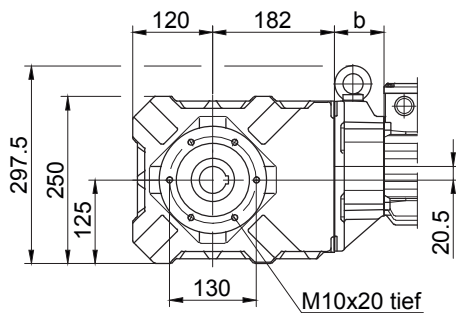
Drehmomentstütze vorne

Code -5.V/



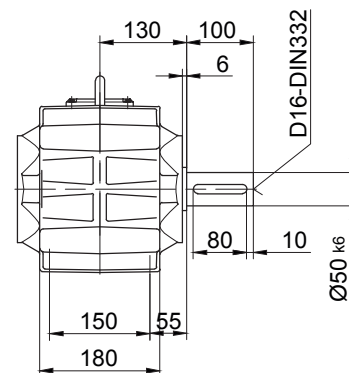
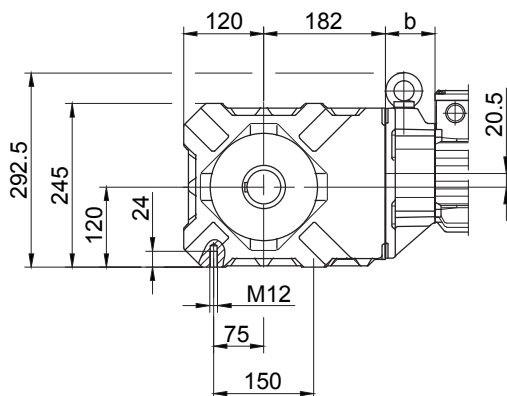
Flansch mit Gewindelöchern vorne

Code -7.V/



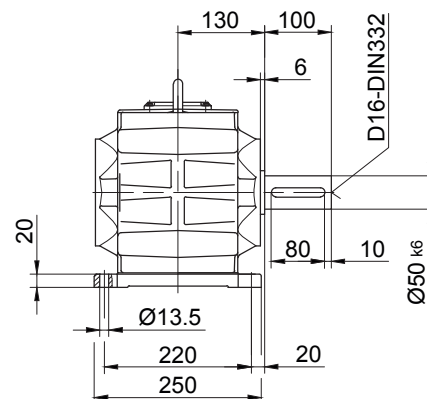
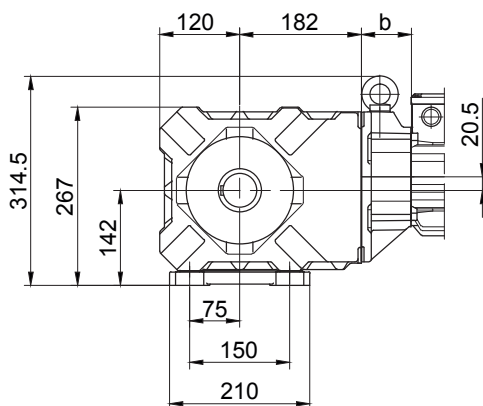
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

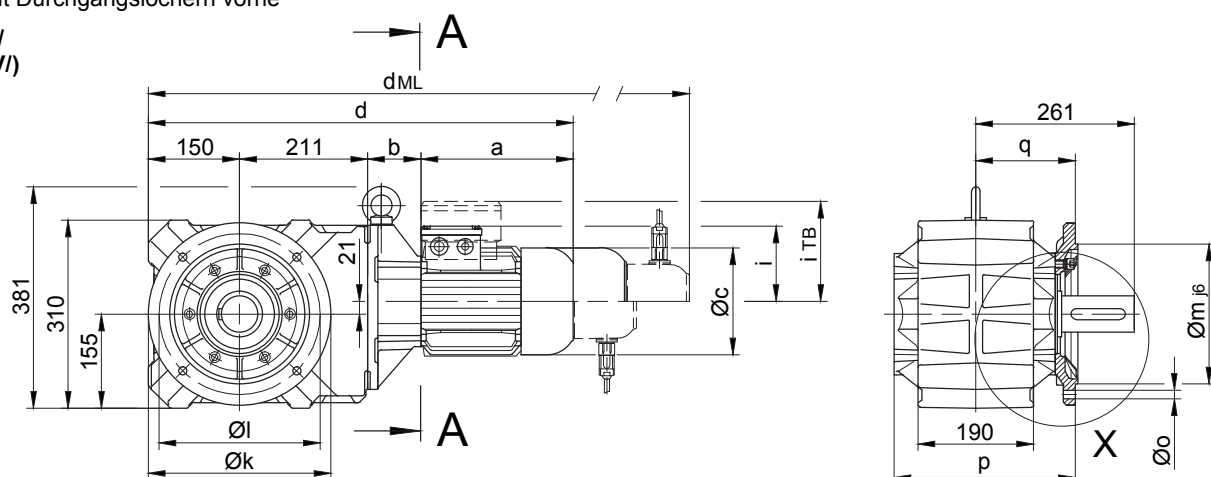
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

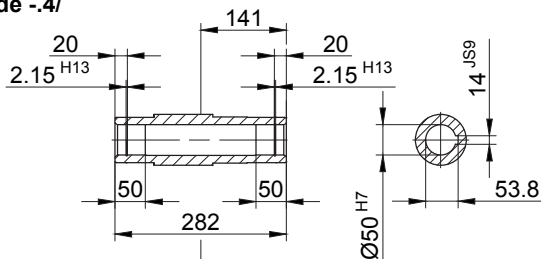
### BK50 - BK50Z

Flansch mit Durchgangslöchern vorne

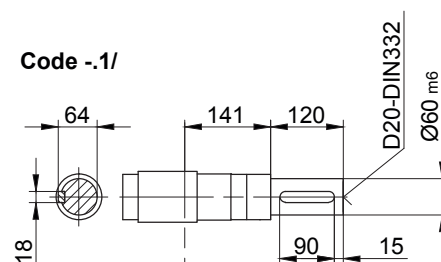
Code -3.V/  
(Code -2.V/)



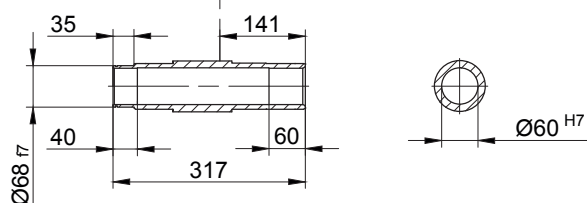
Code -4/



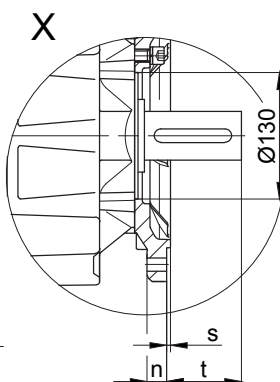
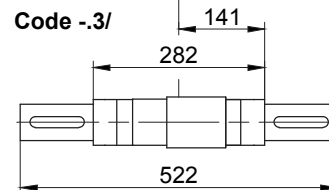
Code -1/



Code -5/



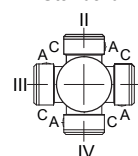
Code -3/



Flanschmasse

BK50(Z)	k	l	m	n	o	p	q	s	t
Standard -3.V/	300	265	230	20	13.5	298.5	164	4	97
klein -2.V/	250	215	180	16	13.5	296	161	4	100

Standard



A-A

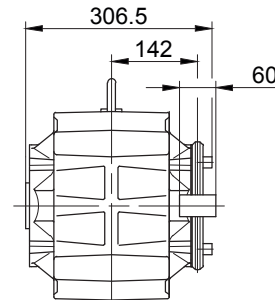
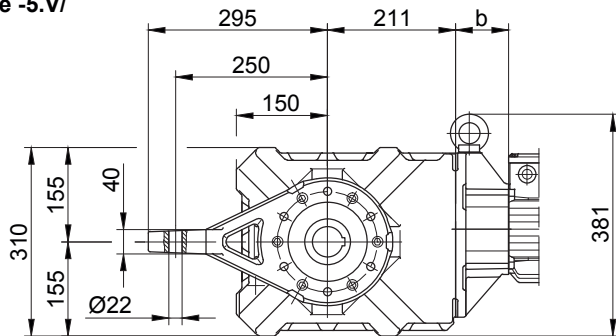
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E..ES../ZS..	G	E..ES../ZS..-G	RR/RL
						d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BK50Z-../D05..	170	155	123	686	100	117	728	789	830.5	-
BK50Z-../D06..	170	155	123	686	100	119	728	789	830.5	-
BK50Z-../D07..	190	155	123	706	100	119	748	809	850.5	-
BK50-../D..08..	200	73	156	634	115	136.5	700	741	807.5	700
BK50Z-../D..08..	200	159	156	720	115	136.5	786	827	893.5	786
BK50-../D..09..	251	87.5	181	699.5	124	158	792.5	806.5	897	792.5
BK50Z-../D..09..	251	173.5	181	785.5	124	158	878.5	892.5	983	878.5
BK50-../D..11..	319	94	228	774	181	181	872	881	976.5	872
BK50-../D..13..	393	107	258	861	218	218	972	968	1076.5	972
BK50-../D..16..	429	121	322	911	244	244	1055	1019	1159	1055
BK50-../D..18..	528	143	368	1032	288	288	1181	1140	1285	1181

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### BK50 - BK50Z

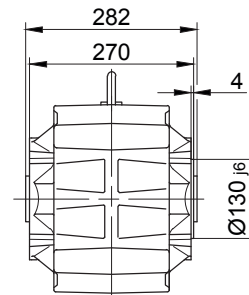
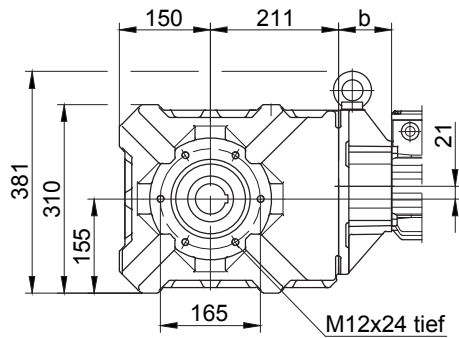
Drehmomentstütze vorne

Code -5.V/



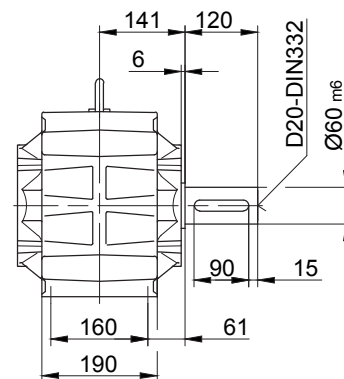
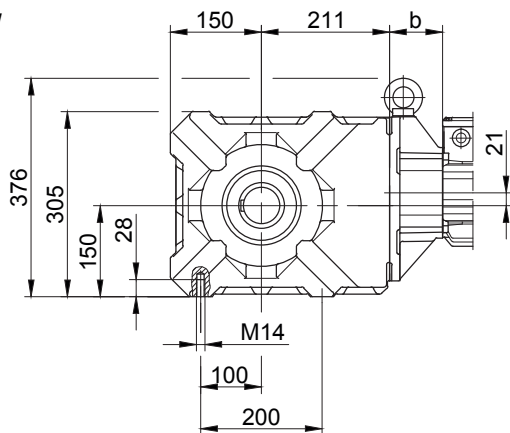
Flansch mit Gewindelöchern vorne

Code -7.V/



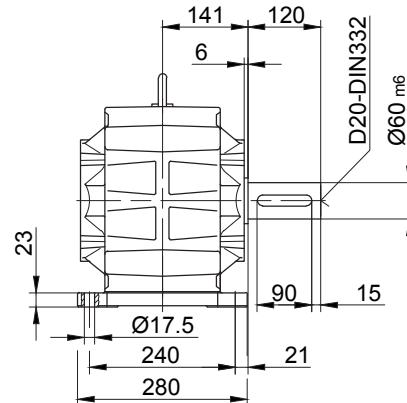
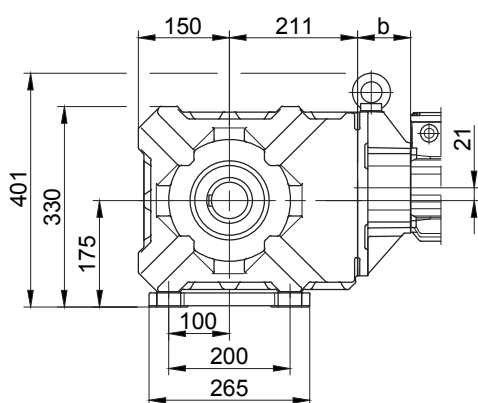
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



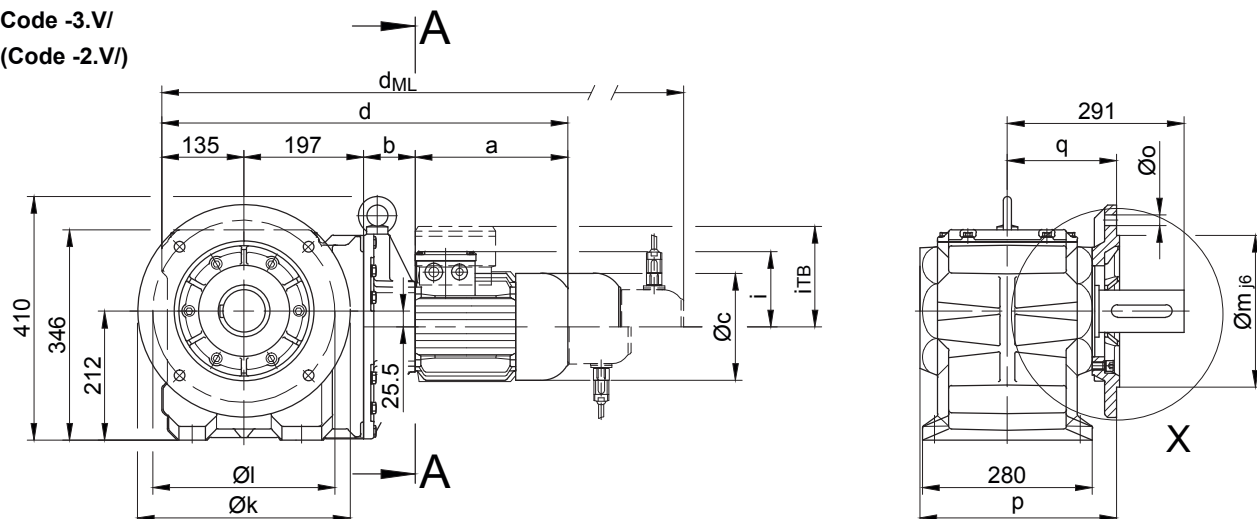
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Kegelrad-Getriebemotoren Reihe BK

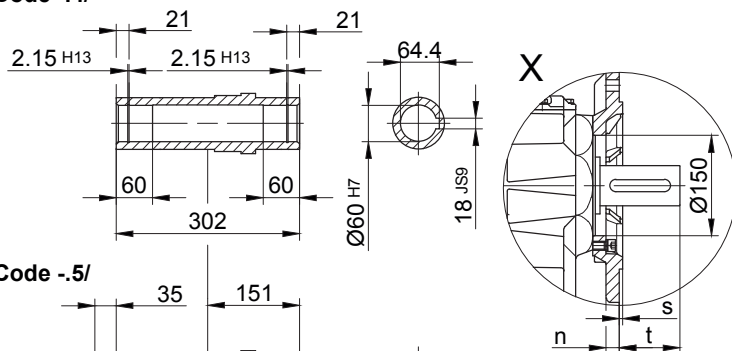
## Maßbild

### BK60 - BK60Z

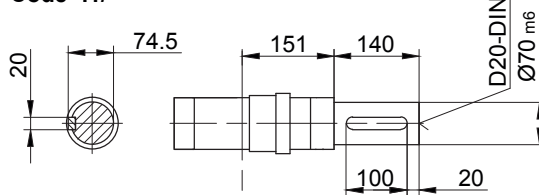
Code -3.V/  
(Code -2.V/)



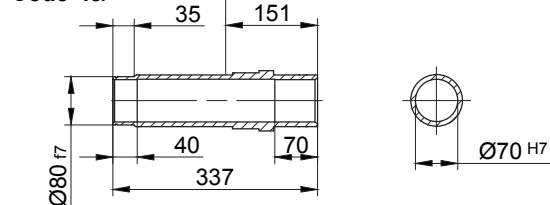
Code -4/



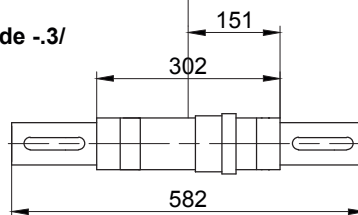
Code -1/



Code -5/

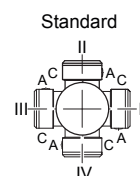


Code -3/



Flanschmasse

BK60(Z)	k	l	m	n	o	p	q	s	t
Standard -3.V/	350	300	250 <sub>h6</sub>	20	17.5	324	180	5	111
klein -2.V/	300	265	230 <sub>j6</sub>	20	13.5	332	188	4	103



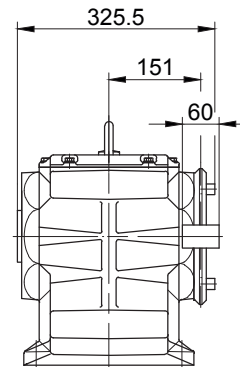
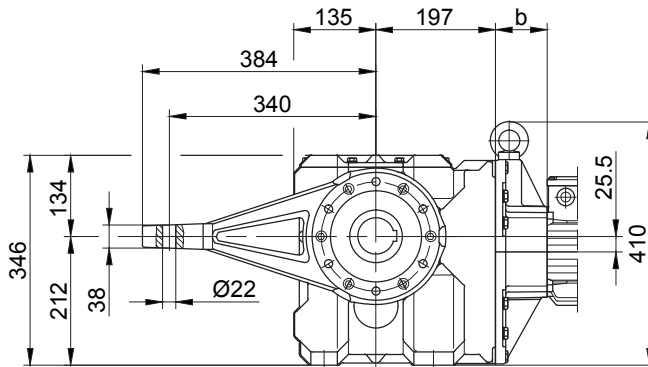
A-A

Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	ES./ZS..	G	ES./ZS..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BK60Z-../D..08..	200	181	156	713	115	136.5	779	820	886.5	779
BK60-../D..09..	251	85.5	181	668.5	124	158	761.5	775.5	866	761.5
BK60Z-../D..09..	251	195.5	181	778.5	124	158	871.5	885.5	976	871.5
BK60-../D..11..	319	92	228	743	181	181	841	850	945.5	841
BK60Z-../D..11..	319	202	228	853	181	181	951	960	1055.5	951
BK60-../D..13..	393	105	258	830	218	218	941	937	1045.5	941
BK60-../D..16..	429	119	322	880	244	244	1024	988	1128	1024
BK60Z-../D..16..	528	141	368	902	288	288	1146	1010	1150	1146

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

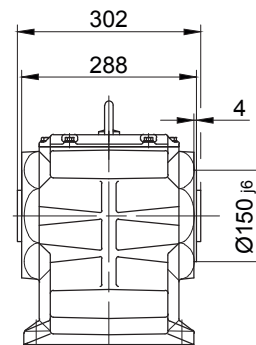
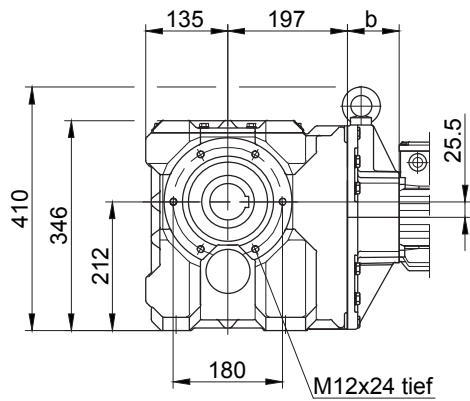
Drehmomentstütze vorne

Code -5.V/



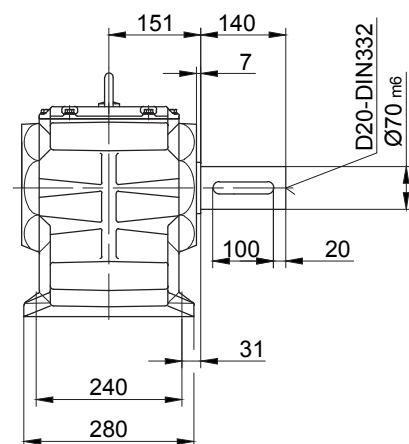
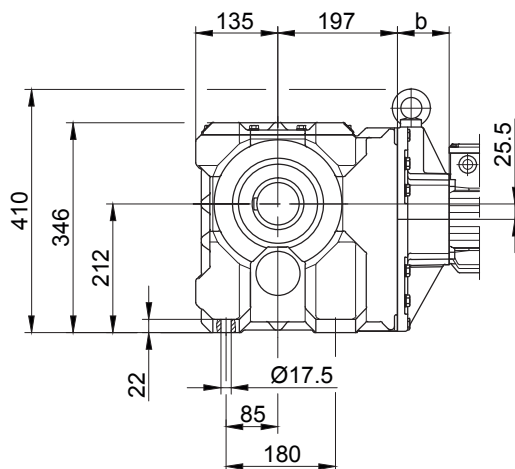
Flansch mit Gewindelöchern vorne

Code -7.V/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

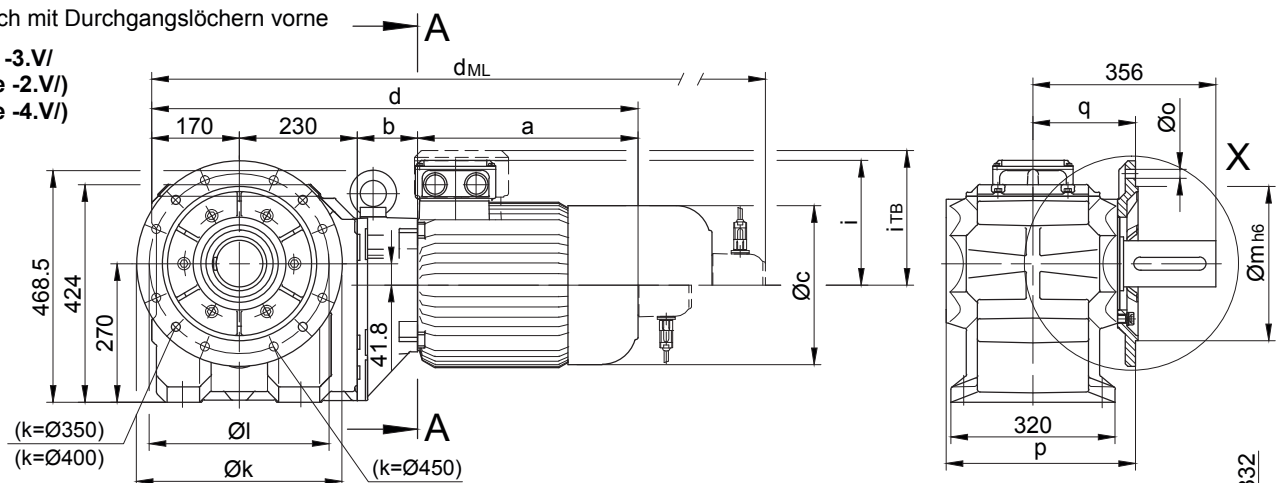
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

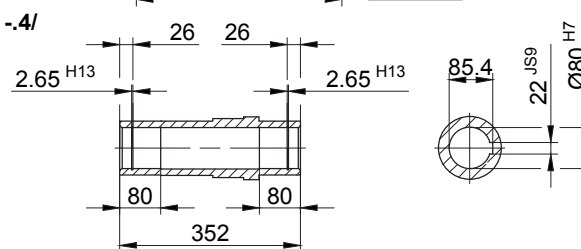
### BK70 - BK70Z

Flansch mit Durchgangslöchern vorne

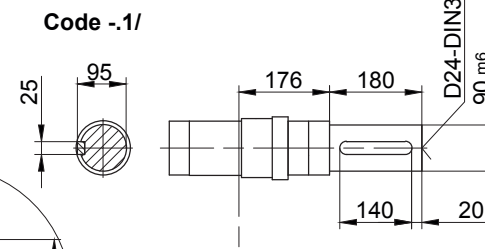
Code -3.V/  
(Code -2.V/)  
(Code -4.V/)



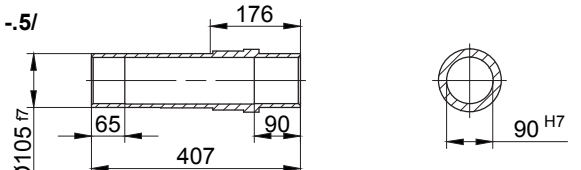
Code -4/



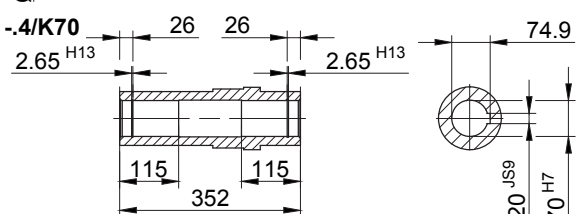
Code -1/



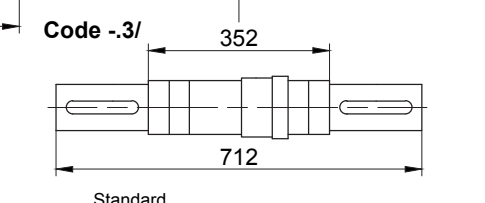
Code -5/



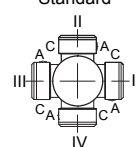
Code -4/K70



Code -3/



Standard



A-A

Flanschmasse

BK70(Z)	k	l	m	n	o	p	q	s	t
Standard -3.V/	400	350	300	20	4 x Ø17.5	369	200	5	156
klein -2.V/	350	300	250	20	4 x Ø17.5	369	200	5	156
gross -4.V/	450	400	350	22	8 x Ø17.5	379	210	5	146

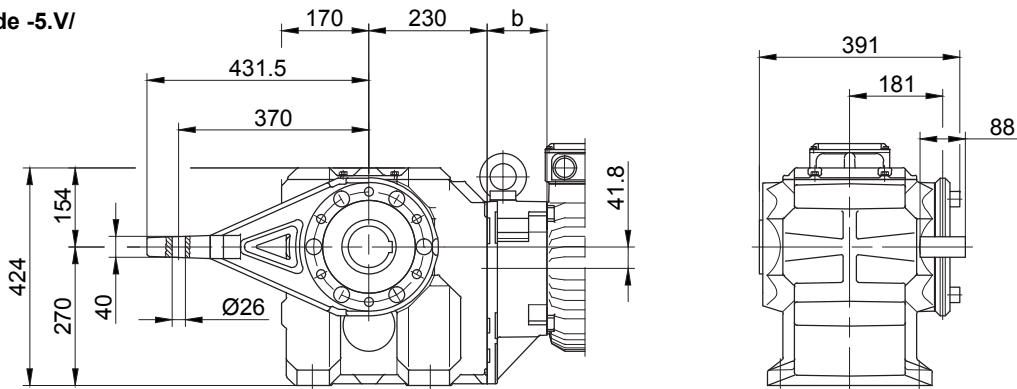
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	ES../ZS..	G	ES../ZS..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BK70Z-./D..08..	200	202	156	802	115	136.5	868	909	975.5	868
BK70-./D..09..	251	83.5	181	734.5	124	158	827.5	841.5	932	827.5
BK70Z-./D..09..	251	216.5	181	867.5	124	158	960.5	974.5	1065	960.5
BK70-./D..11..	319	90	228	809	181	181	907	916	1011.5	907
BK70Z-./D..11..	319	223	228	942	181	181	1040	1049	1144.5	1040
BK70-./D..13..	393	103	258	896	218	218	1007	1003	1111.5	1007
BK70Z-./D..13..	393	236	258	1029	218	218	1140	1136	1244.5	1140
BK70-./D..16..	429	117	322	946	244	244	1090	1054	1194	1090
BK70Z-./D..16..	429	250	322	1079	244	244	1223	1187	1327	1223
BK70-./D..18..	528	139	368	1067	288	288	1216	1175	1320	1216
BK70Z-./D..18..	528	272	368	1200	288	288	1349	1308	1453	1349

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### BK70 - BK70Z

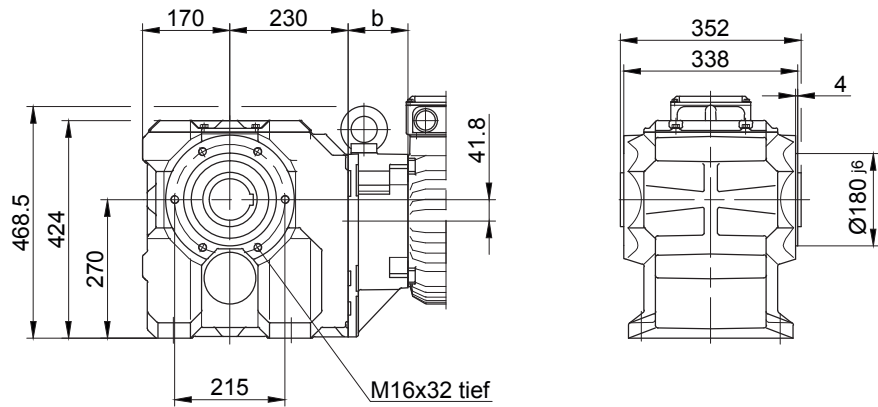
Drehmomentstütze vorne

Code -5.V/



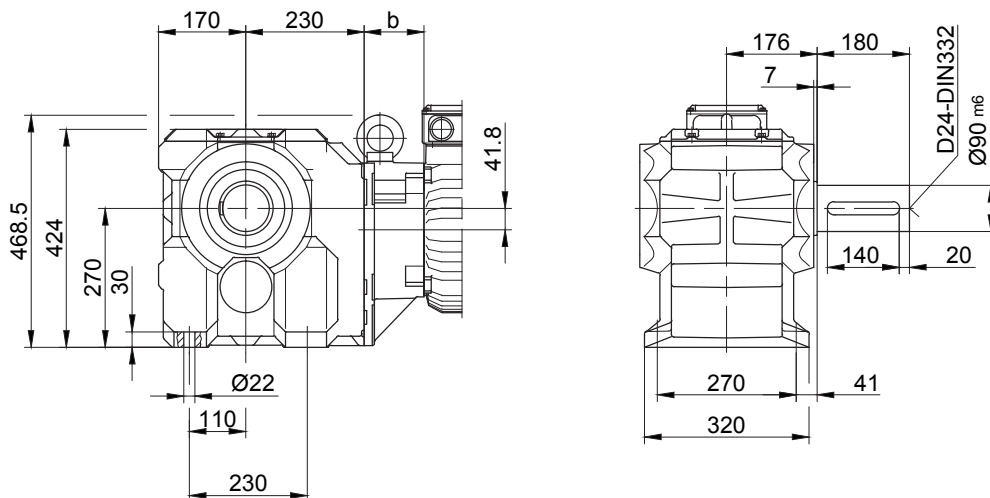
Flansch mit Gewindelöchern vorne

Code -7.V/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

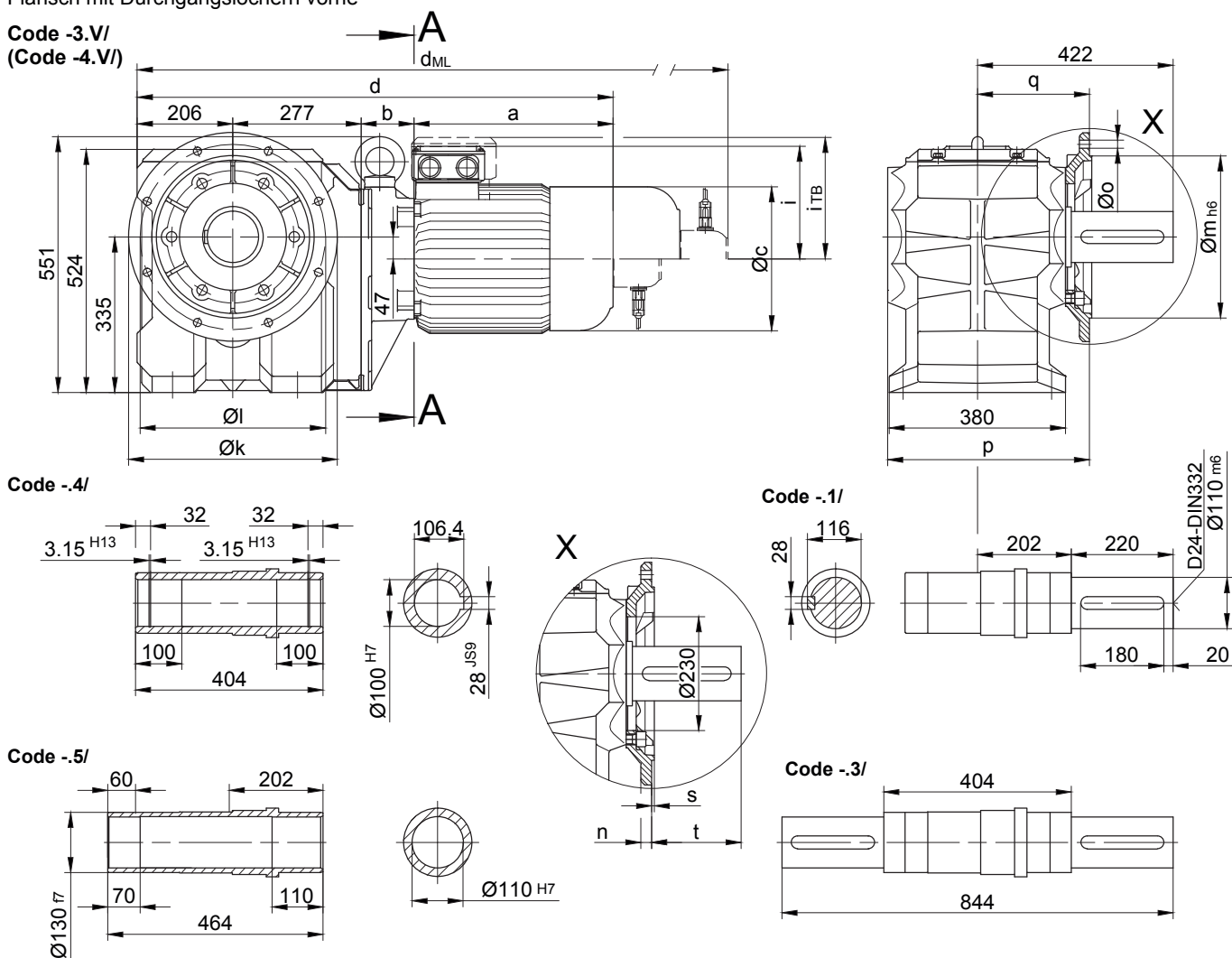
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

### BK80 - BK80Z

Flansch mit Durchgangslöchern vorne

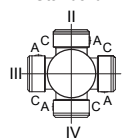
Code -3.V/  
(Code -4.V/)



Flanschmasse

BK80(Z)	k	l	m	n	o	p	q	s	t
Standard -3.V/	450	400	350	22	17.5	439	245	5	177
gross -4.V/	550	500	450	22	17.5	444	250	5	172

Standard



A-A

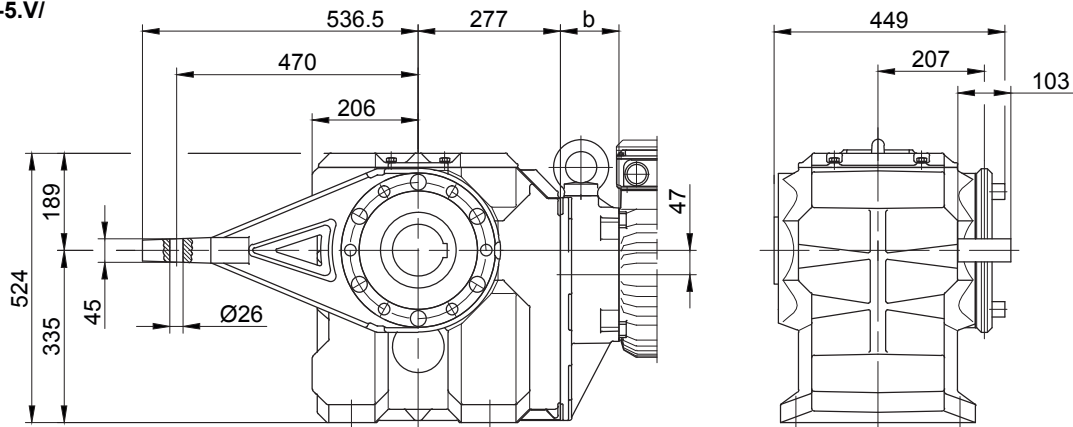
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						$i_{TB}$	ES../ZS..	G	ES../ZS..-G	RR/RL
						$d_{ML}$	$d_{ML}$	$d_{ML}$	$d_{ML}$	
BK80Z-../D..09..	251	252.5	181	986.5	124	158	1079.5	1093.5	1184	1079.5
BK80-../D..11..	319	87	228	889	181	182	987	996	1091.5	987
BK80Z-../D..11..	319	259	228	1061	181	182	1159	1168	1263.5	1159
BK80-../D..13..	393	100	258	976	218	218	1087	1083	1191.5	1087
BK80Z-../D..13..	393	272	258	1148	218	218	1259	1255	1363.5	1259
BK80-../D..16..	429	114	322	1026	244	244	1170	1134	1274	1170
BK80Z-../D..16..	429	286	322	1198	244	244	1342	1306	1446	1342
BK80-../D..18..	528	136	368	1147	288	288	1296	1255	1400	1296
BK80Z-../D..18..	528	308	368	1319	288	288	1468	1427	1572	1468

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



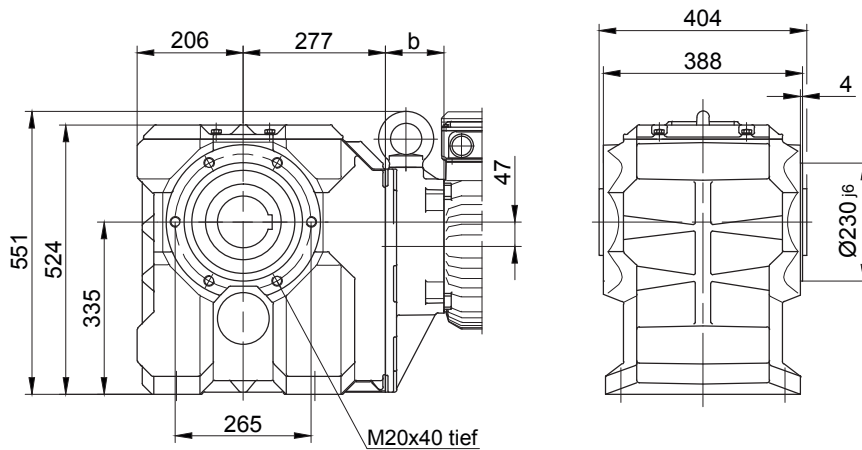
Drehmomentstütze vorne

Code -5.V/



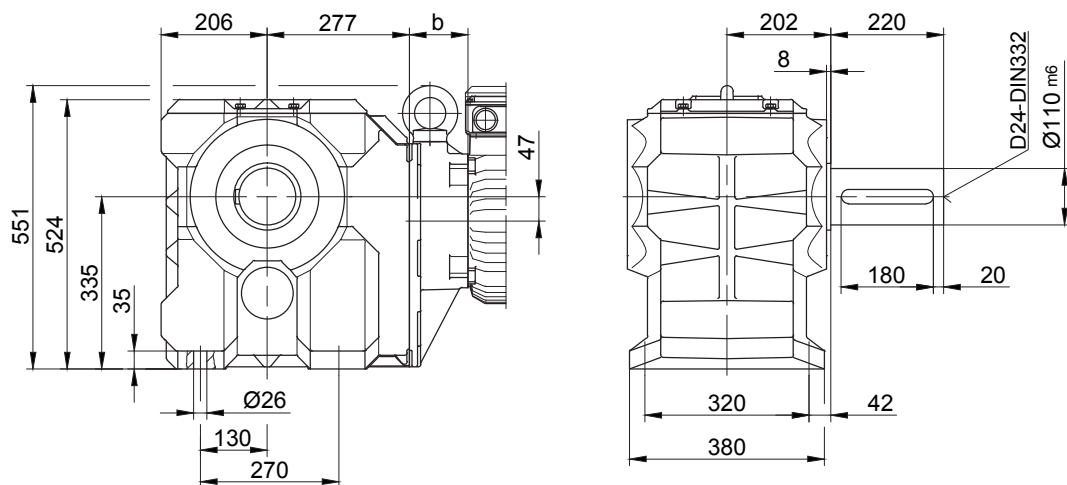
Flansch mit Gewindelöchern vorne

Code -7.V/



Fuss mit Durchgangslöchern unten/

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

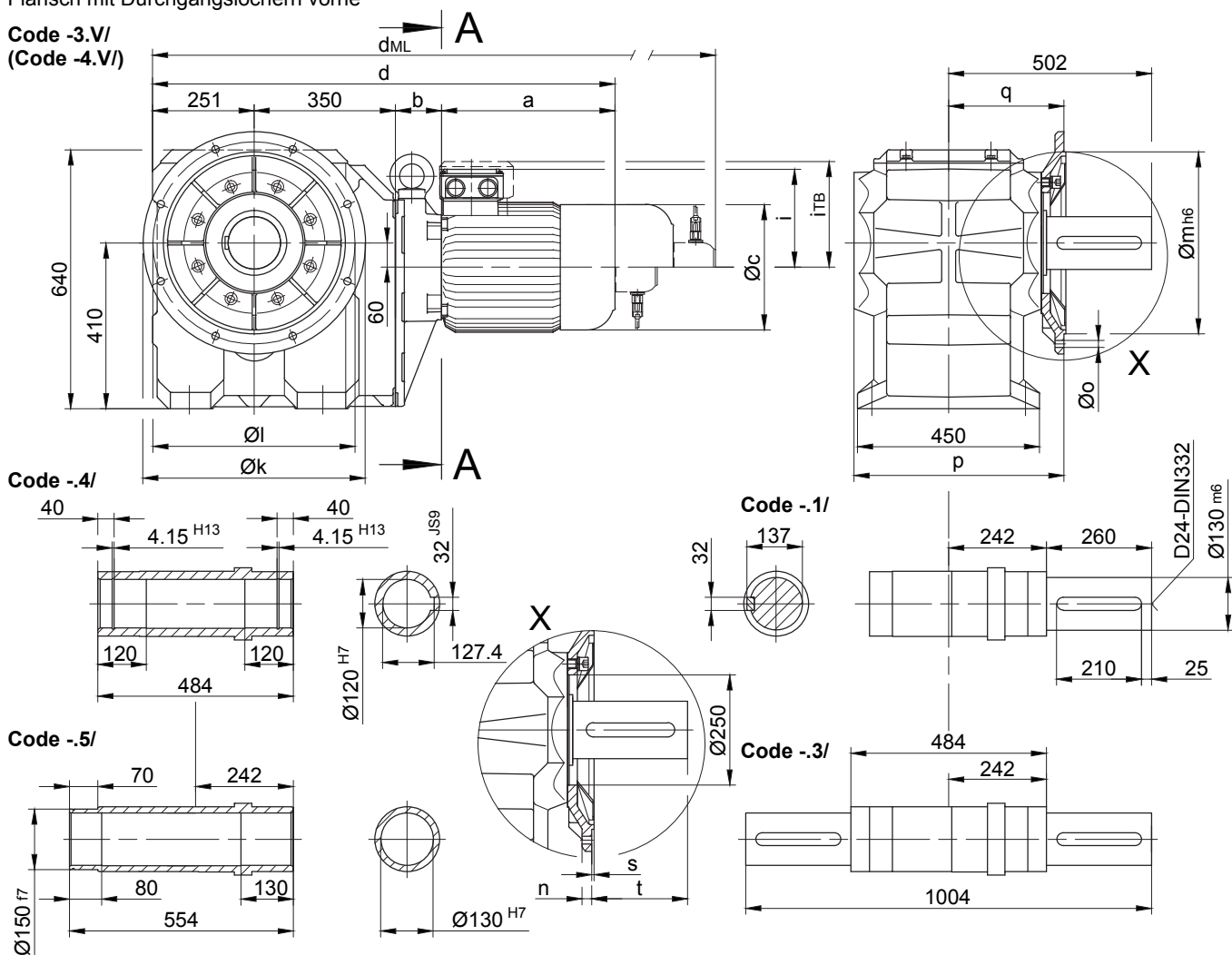
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

### BK90 - BK90Z

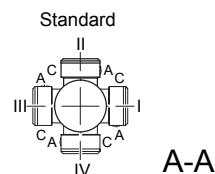
Flansch mit Durchgangslöchern vorne

Code -3.V/  
(Code -4.V/)



Flanschmasse

BK90(Z)	k	l	m	n	o	p	q	s	t
Standard -3.V/	550	500	450	22	17.5	519	285	5	217
gross -4.V/	660	600	550	25	22	513	279	6	223



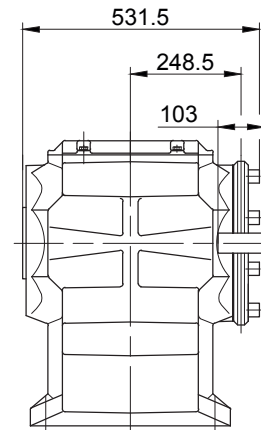
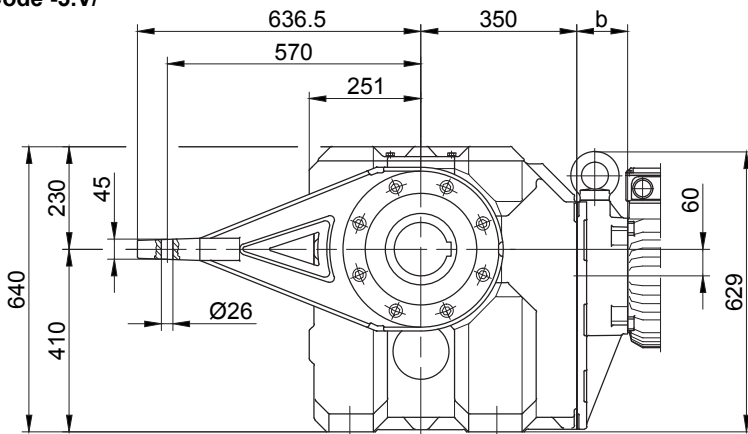
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	ES.../ZS..	G	ES.../ZS..-G	RR/RL
						d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BK90Z-.../D..09..	251	267	181	1119	124	158	1212	1226	1316.5	1212
BK90Z-.../D..11..	319	273.5	228	1193.5	181	181	1291.5	1300.5	1396	1291.5
BK90-.../D..13..	393	100	258	1020	218	218	1118	1127	1222.5	1118
BK90Z-.../D..13..	393	286.5	258	1280.5	218	218	1391.5	1387.5	1496	1391.5
BK90-.../D..16..	429	114	322	1108	244	244	1219	1215	1323.5	1219
BK90Z-.../D..16..	429	300.5	322	1330.5	244	244	1474.5	1438.5	1578.5	1474.5
BK90-.../D..18..	528	136	368	1166	288	288	1310	1274	1414	1310
BK90Z-.../D..18..	528	322.5	368	1451.5	288	288	1600.5	1559.5	1704.5	1600.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### BK90 - BK90Z

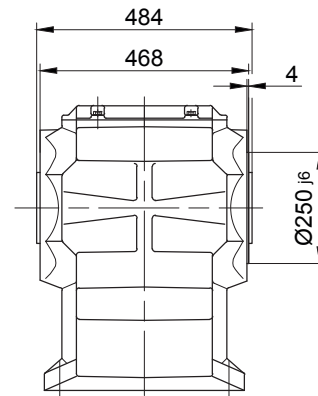
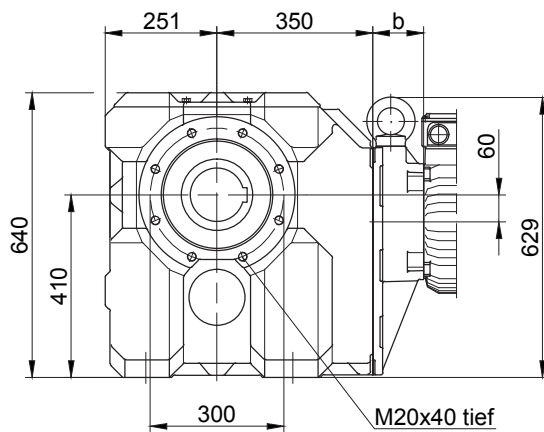
Drehmomentstütze vorne

Code -5.V/



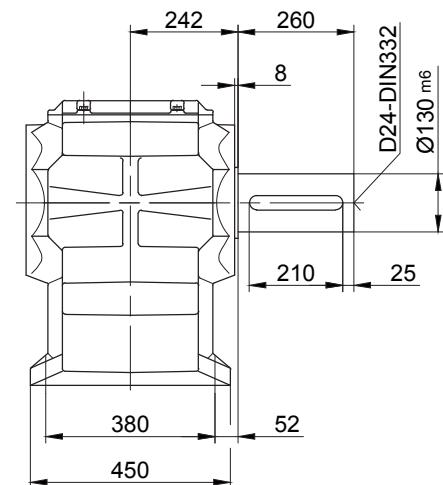
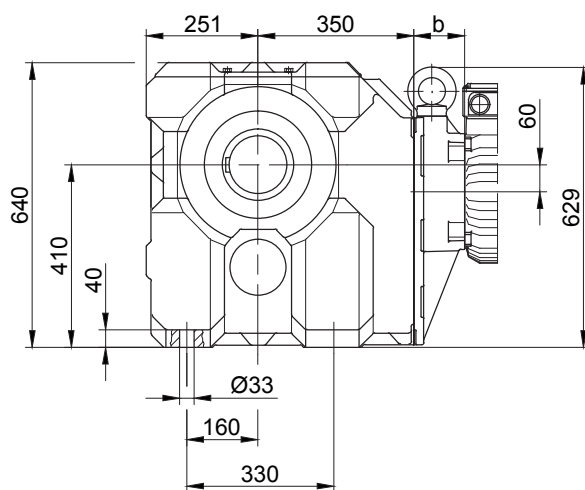
Flansch mit Gewindelöchern vorne

Code -7.V/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

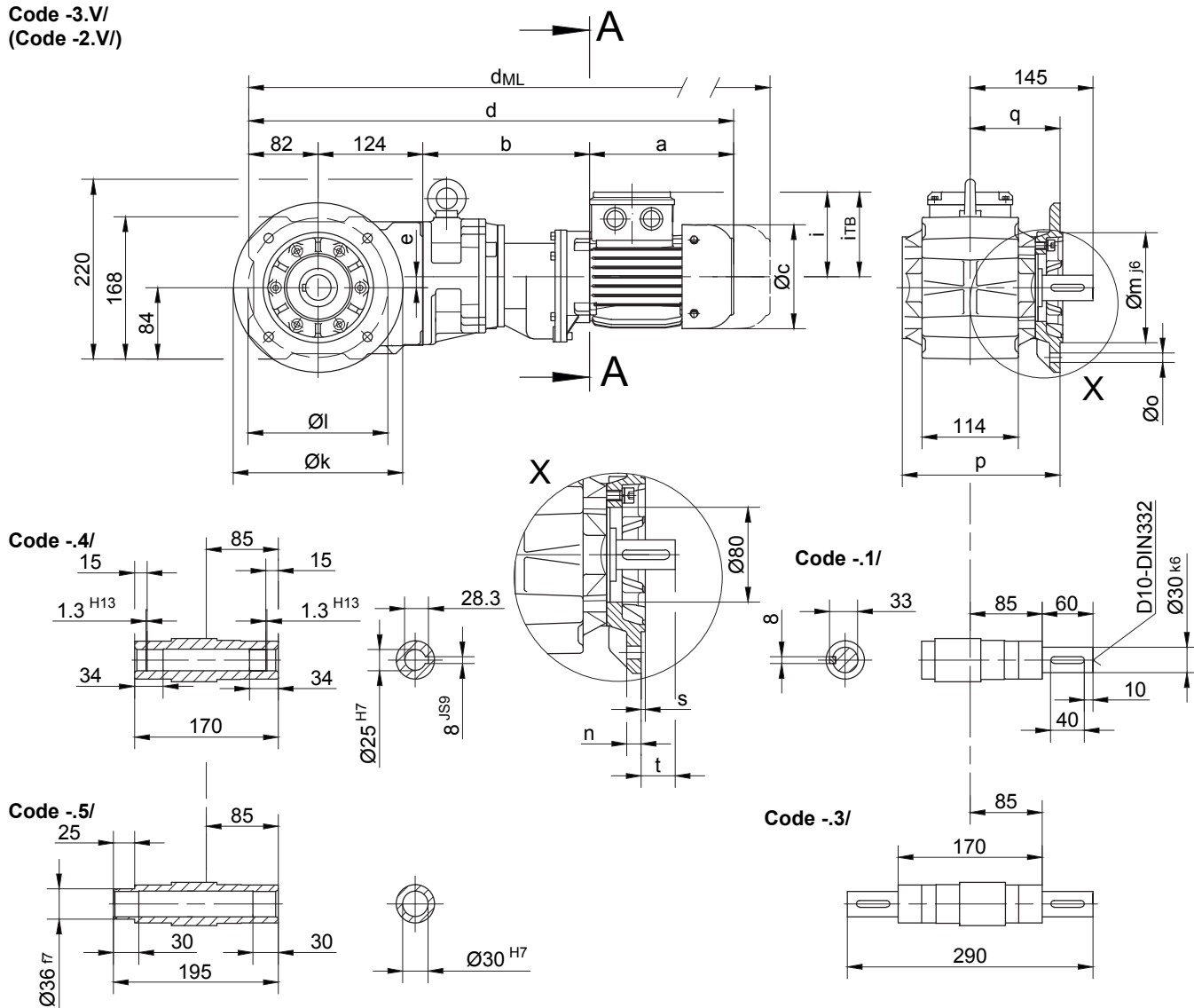
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

### BK10G06

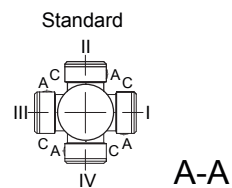
Flansch mit Durchgangslöchern vorne

Code -3.V/  
(Code -2.V/)



Flanschmasse

BK10G..	k	l	m	n	o	p	q	s	t
Standard -3.V/	200	165	130	12	11	186.5	106	3.5	39
klein -2.V/	160	130	110	10	9	179.5	99	3.5	46

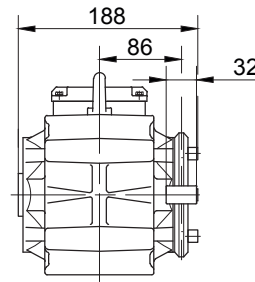
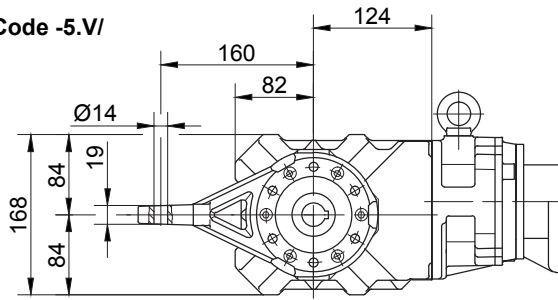


Typ	a	b	c	d	e	i	i <sub>TB</sub>	Ausführung mit Motoranbauten			
								E../ES..	G	E../ES..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BK10G06-../D04..	143	195	111	544	13	90	112	587.5	606.5	649.5	-
BK10G06-../D05..	170	197	123	573	13	100	117	615	676	715.5	-
BK10G06-../D06..	170	197	123	573	13	100	119	615	676	715.5	-
BK10G06-../D07..	190	197	123	593	13	100	119	635	696	737.5	-
BK10G06-../D..08..	200	241	156	647	13	115	136.5	713	754	820.5	713

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

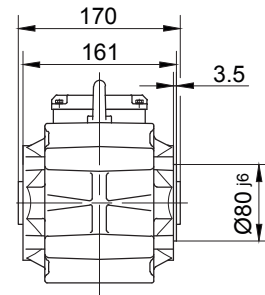
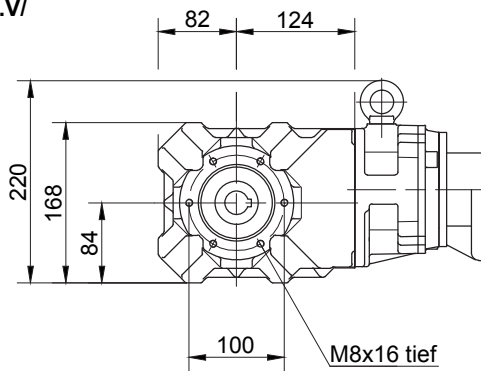
Drehmomentstütze vorne

Code -5.V/



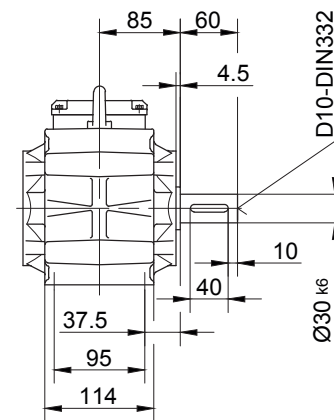
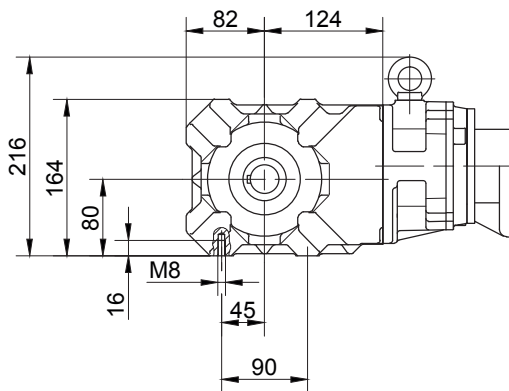
Flansch mit Gewindelöchern vorne

Code -7.V/



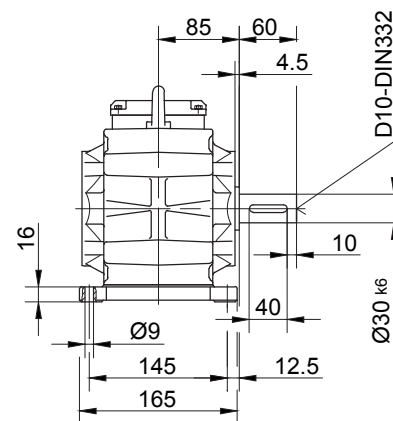
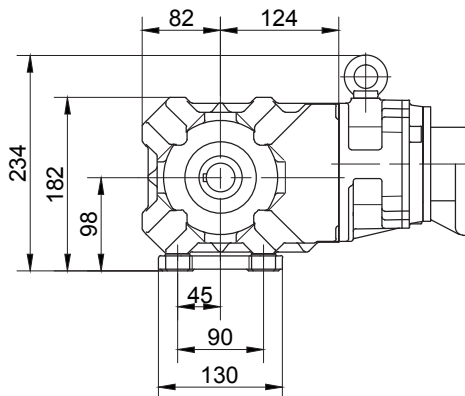
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Kegelrad-Getriebemotoren Reihe BK

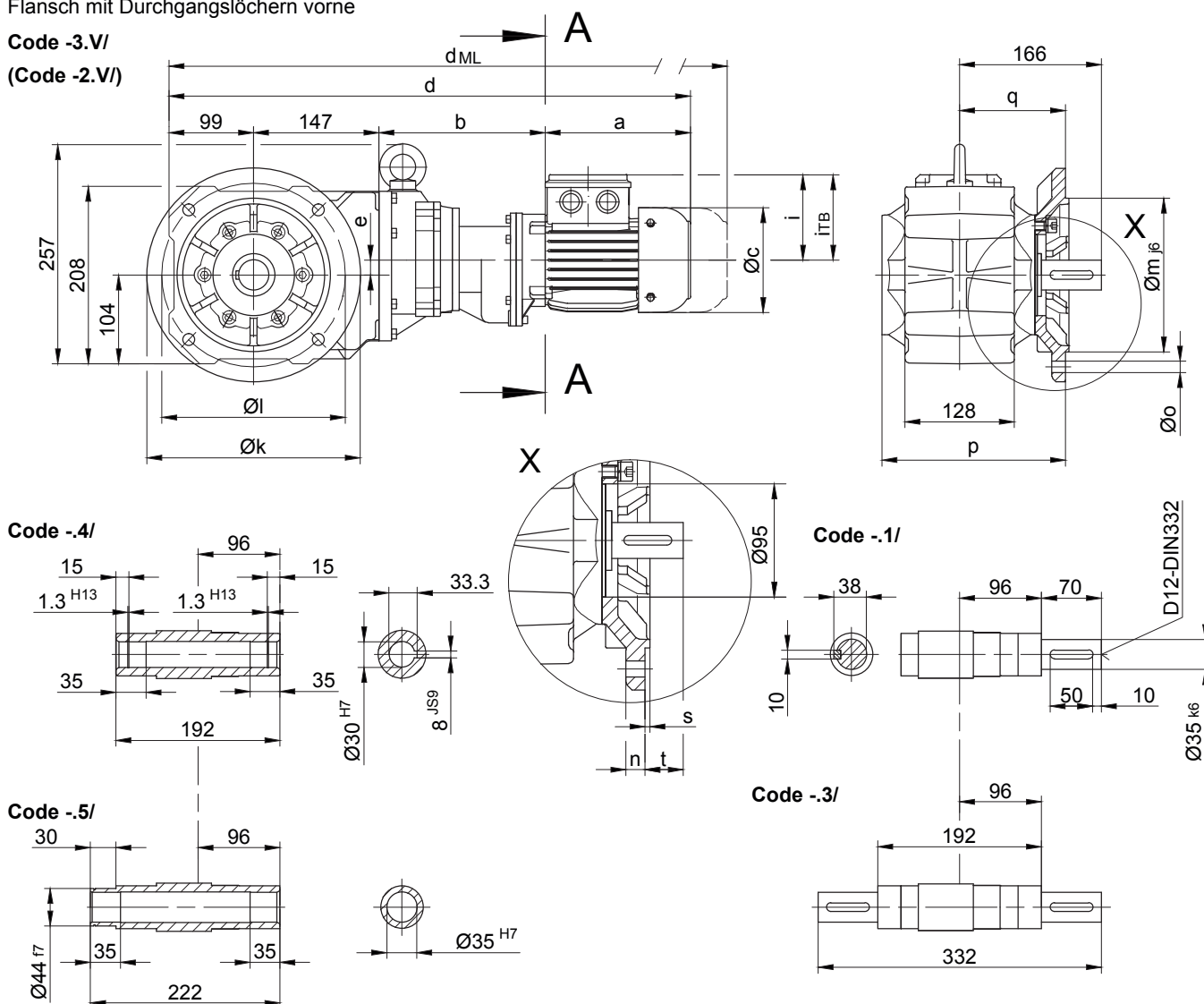
## Maßbild

### BK20G06

Flansch mit Durchgangslöchern vorne

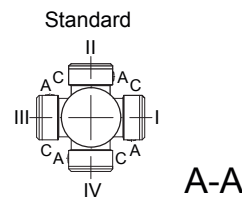
Code -3.V/

(Code -2.V/)



Flanschmasse

BK20G..	k	l	m	n	o	p	q	s	t
Standard -3.V/	250	215	180	16	13.5	215.5	124	4	42
klein -2.V/	200	165	130	12	11	206.5	115	3.5	51

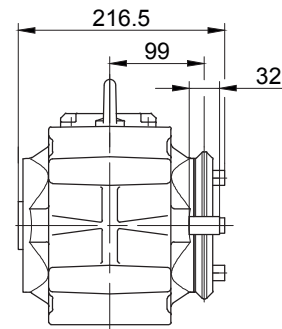
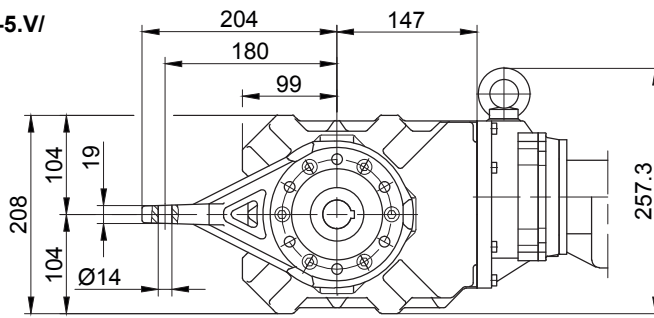


Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							$i_{TB}$	E./ES..	G	E./ES..-G	RR/RL
							$d_{ML}$	$d_{ML}$	$d_{ML}$	$d_{ML}$	
BK20G06-../D04..	143	193	111	582	17	90	112	625.5	644.5	687.5	-
BK20G06-../D05..	170	195	123	611	17	100	117	653	714	755.5	-
BK20G06-../D06..	170	195	123	611	17	100	119	653	714	755.5	-
BK20G06-../D07..	190	195	123	631	17	100	119	673	734	775.5	-
BK20G06-../D..08..	200	239	156	685	17	115	136.5	751	792	858.5	751

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

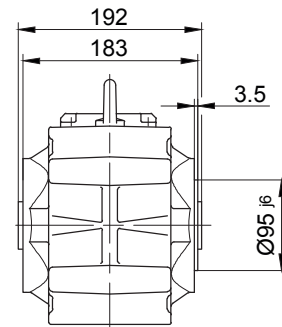
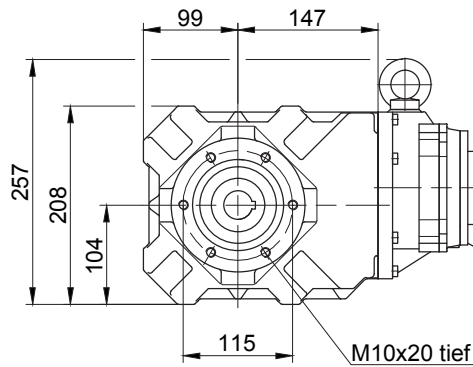
Drehmomentstütze vorne

Code -5.V/



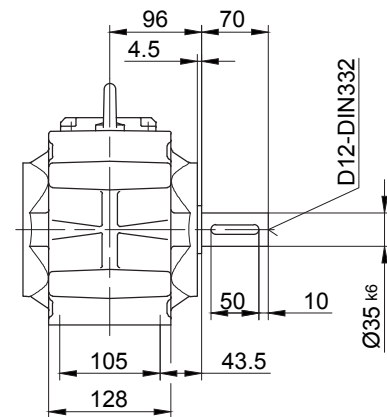
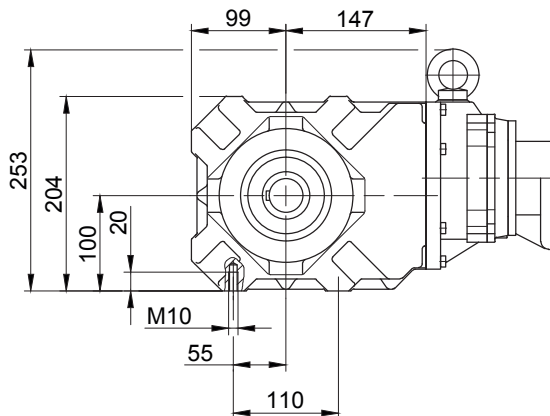
Flansch mit Gewindelöchern vorne

Code -7.V/



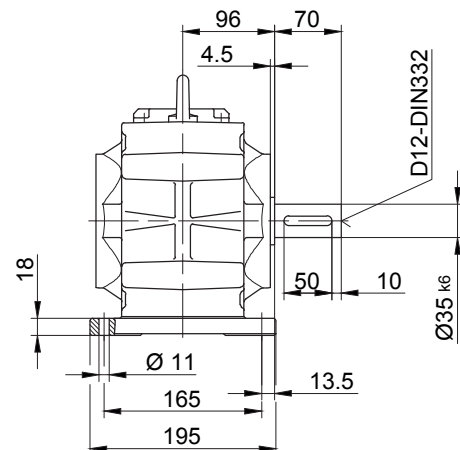
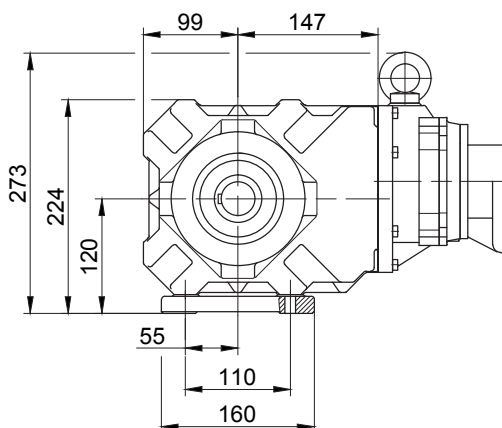
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Kegelrad-Getriebemotoren Reihe BK

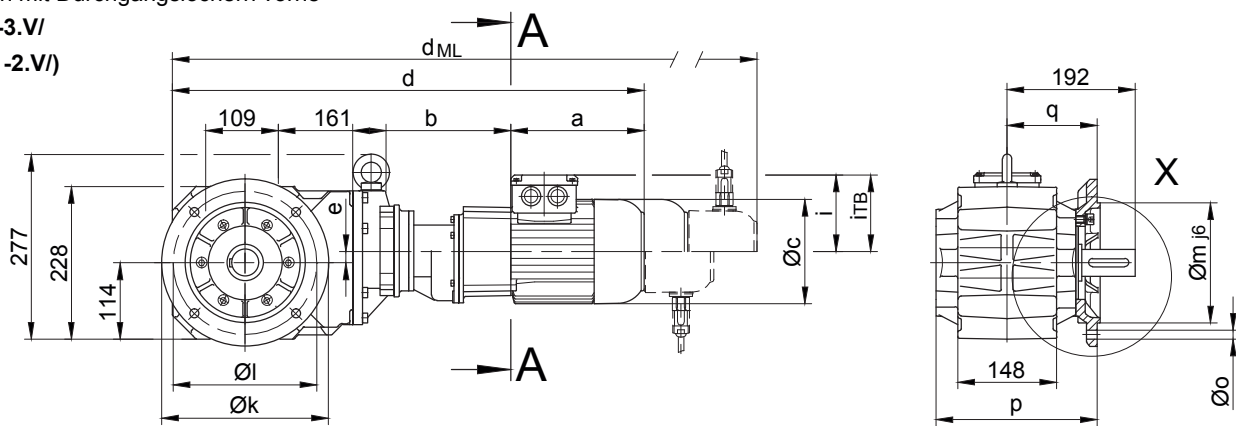
## Maßbild

### BK30G06

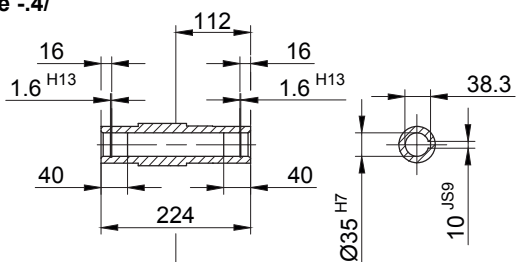
Flansch mit Durchgangslöchern vorne

Code -3.V/

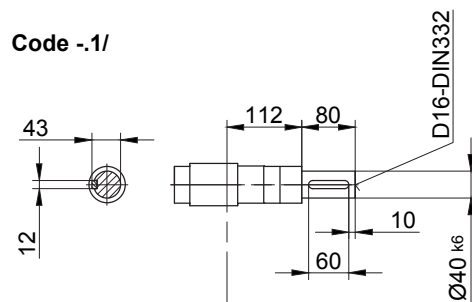
(Code -2.V/)



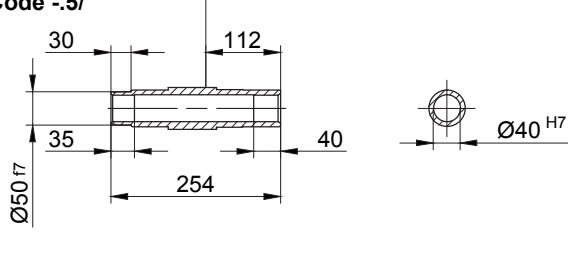
Code -4/



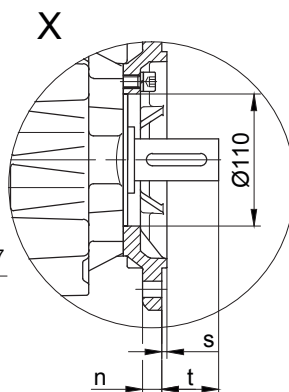
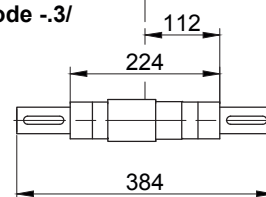
Code -1/



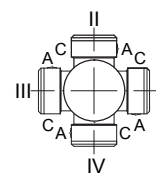
Code -5/



Code -3/



Standard



A-A

Flanschmasse

BK30G..	k	l	m	n	o	p	q	s	t
Standard -3.V/	250	215	180	16	13.5	242	135	4	57
klein -2.V/	200	165	130	12	11	239	132	3.5	60

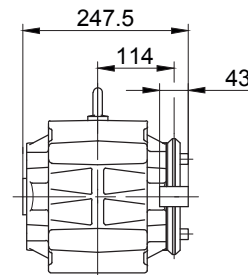
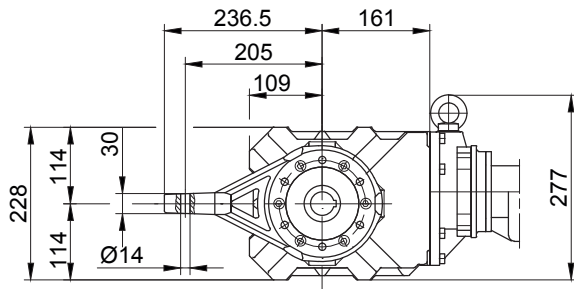
Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E./ES..	G	E./ES..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BK30G06-../D04..	143	191	111	604	17	90	112	647.5	666.5	709.5	-
BK30G06-../D05..	170	193	123	633	17	100	117	675	736	777.5	-
BK30G06-../D06..	170	193	123	633	17	100	119	675	736	777.5	-
BK30G06-../D07..	190	193	123	653	17	100	119	695	756	797.5	-
BK30G06-../D..08..	200	237	156	707	17	115	136.5	773	814	880.5	773

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



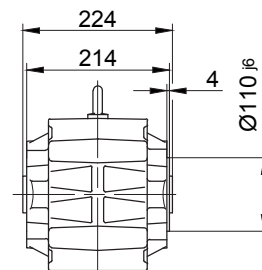
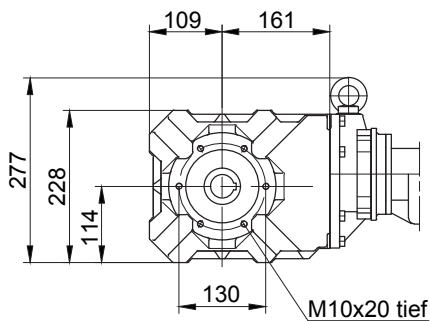
Drehmomentstütze vorne

Code -5.V/



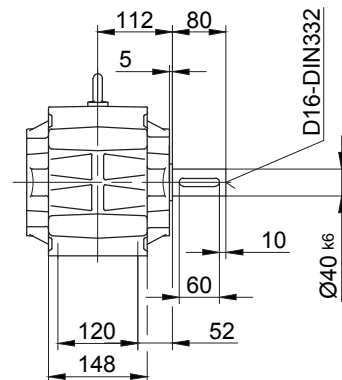
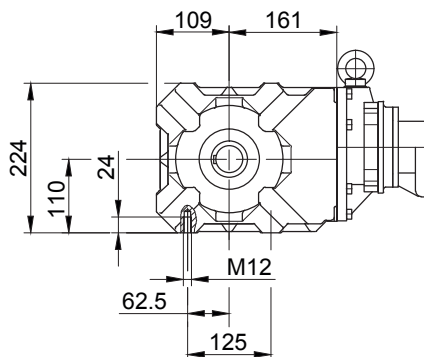
Flansch mit Gewindelöchern vorne

Code -7.V/



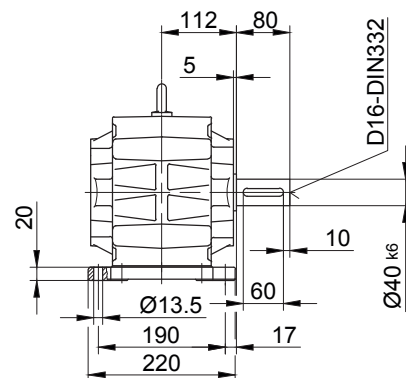
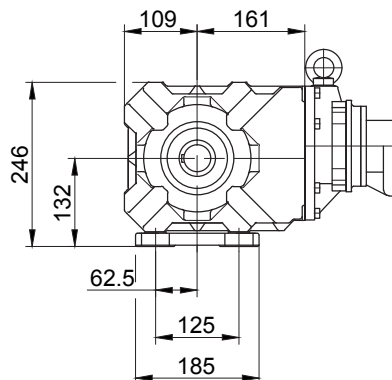
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

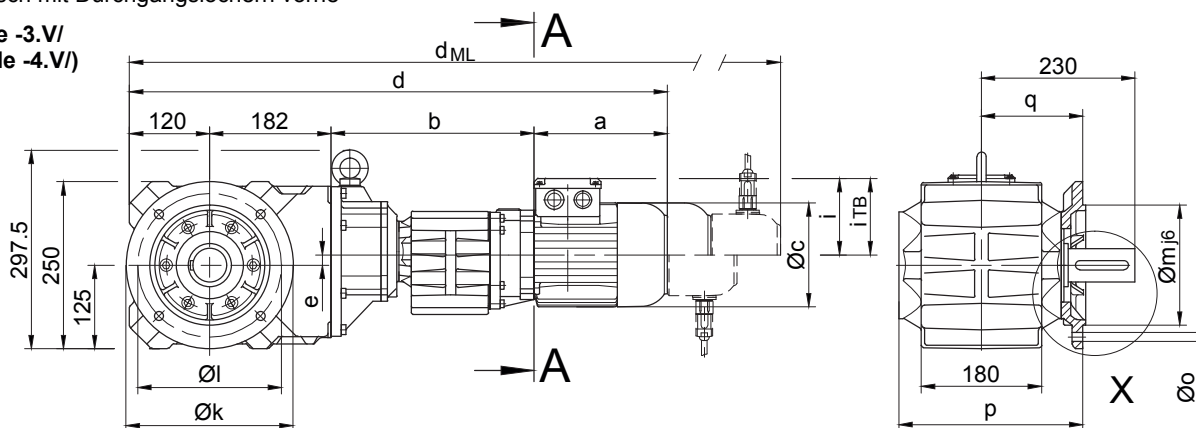
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

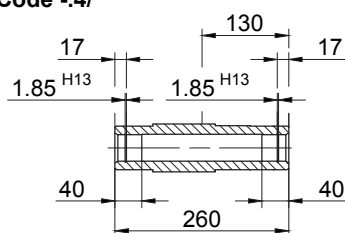
### BK40G10

Flansch mit Durchgangslöchern vorne

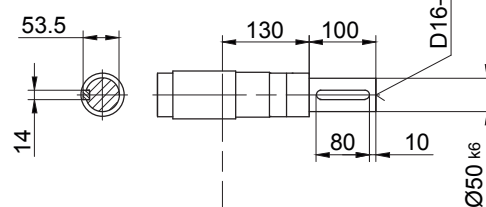
Code -3.V/  
(Code -4.V)



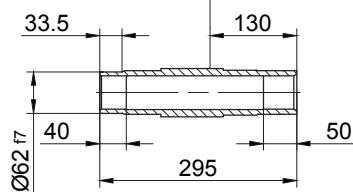
Code -4/



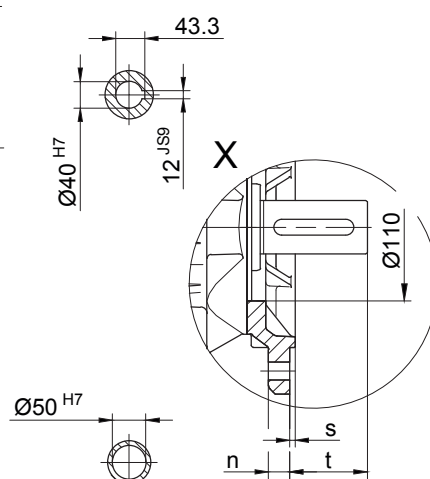
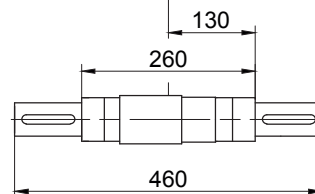
Code -1/



Code -5/



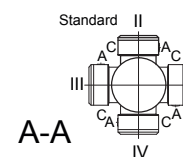
Code -3/



12

Flanschmasse

BK40G..	k	l	m	n	o	p	q	s	t
Standard -3.V/	250	215	180	16	13.5	276	152	4	78
gross -4.V/	300	265	230	20	13.5	282	158	4	72

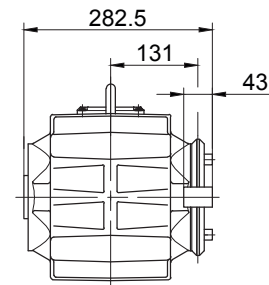
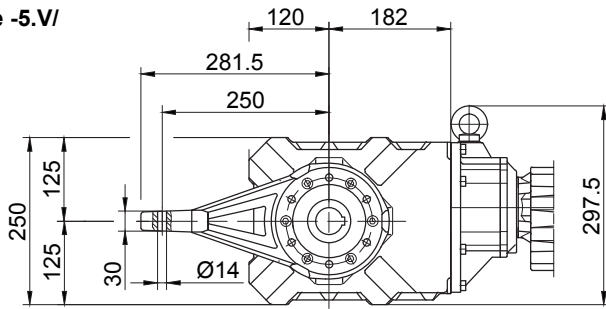


Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BK40G10-../D05..	170	300	123	772	15.5	100	117	814	875	916.5	-
BK40G10-../D06..	170	300	123	772	15.5	100	119	814	875	916.5	-
BK40G10-../D07..	190	300	123	792	15.5	100	119	834	895	936.5	-
BK40G10-../D..08..	200	304	156	806	15.5	115	136.5	872	913	979.5	872
BK40G10-../D..09..	251	318.5	181	871.5	15.5	124	158	964.5	978.5	1069	964.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

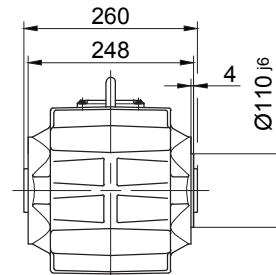
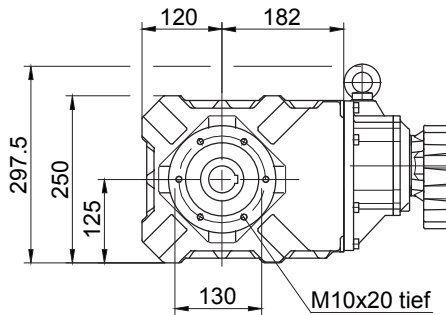
Drehmomentstütze vorne

Code -5.V/



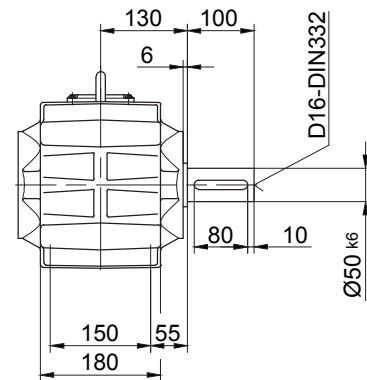
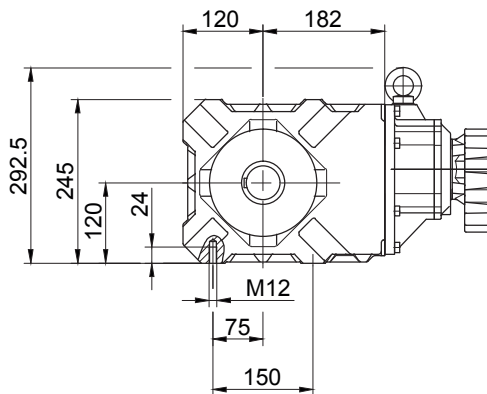
Flansch mit Gewindelöchern vorne

Code -7.V/



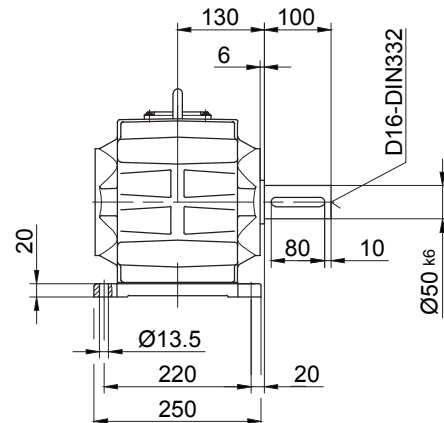
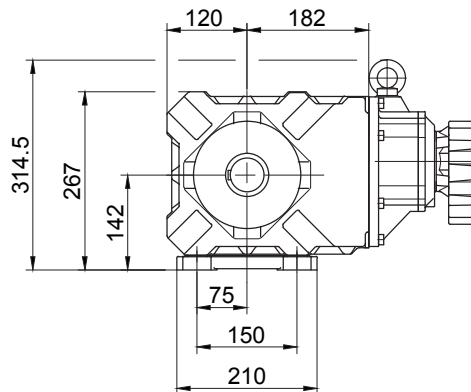
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

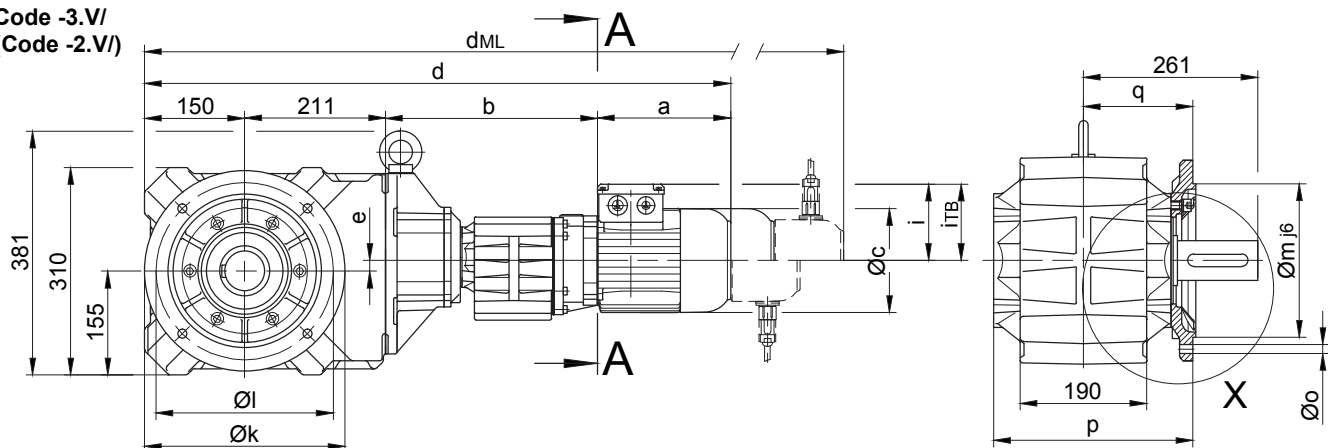
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

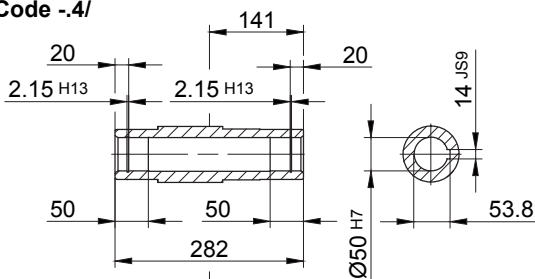
### BK50G10

Flansch mit Durchgangslöchern vorne

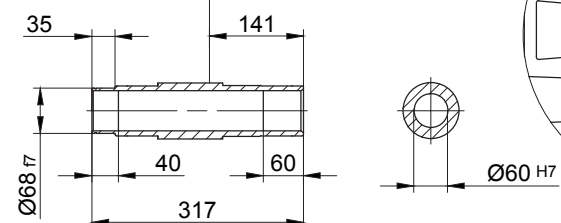
Code -3.V/  
(Code -2.V)



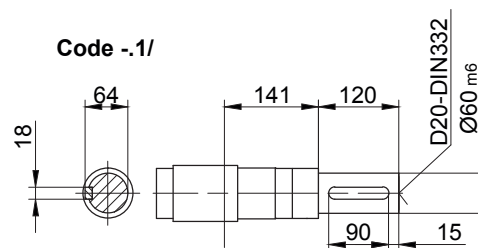
Code -4/



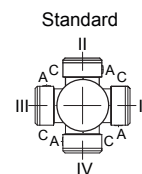
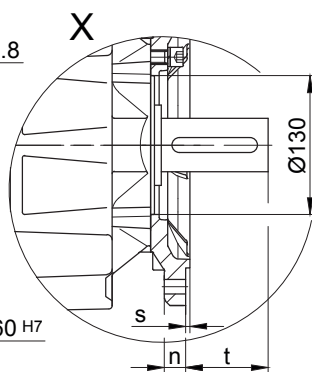
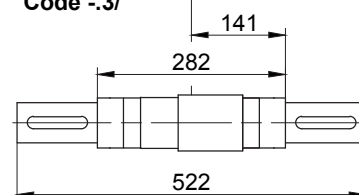
Code -5/



Code -1/



Code -3/



A-A

Flanschmasse

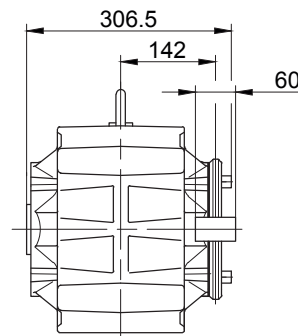
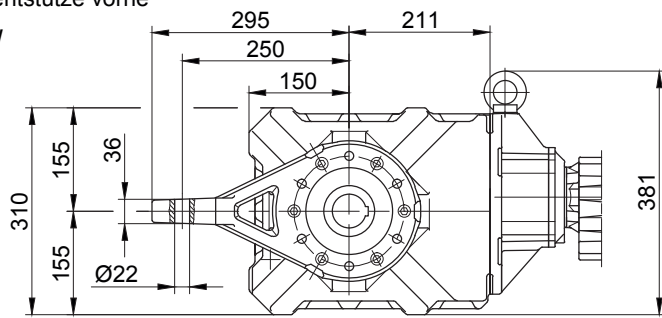
BK50G..	k	l	m	n	o	p	q	s	t
Standard -3.V/	300	265	230	20	13.5	298.5	164	4	97
klein -2.V/	250	215	180	16	13.5	296	161	4	100

Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RL/RR
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BK50G10-../D05..	170	313	123	844	16	100	117	886	947	988.5	-
BK50G10-../D06..	170	313	123	844	16	100	119	886	947	988.5	-
BK50G10-../D07..	190	313	123	864	16	100	119	906	967	1008.5	-
BK50G10-../D..08..	200	317	156	878	16	115	136.5	944	985	1051.5	944
BK50G10-../D..09..	251	331.5	181	943.5	16	124	158	1036.5	1050.5	1141	1036.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

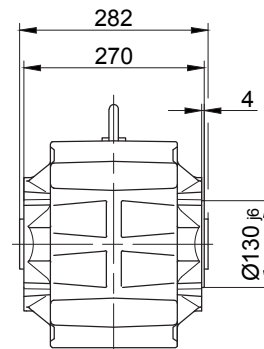
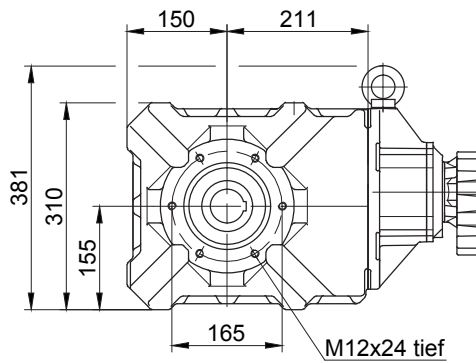
Drehmomentstütze vorne

Code -5.V/



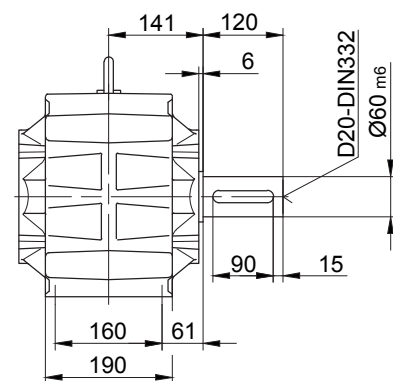
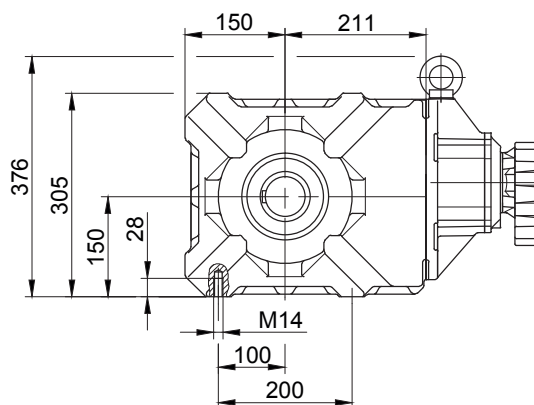
Flansch mit Gewindelöchern vorne

Code -7.V/



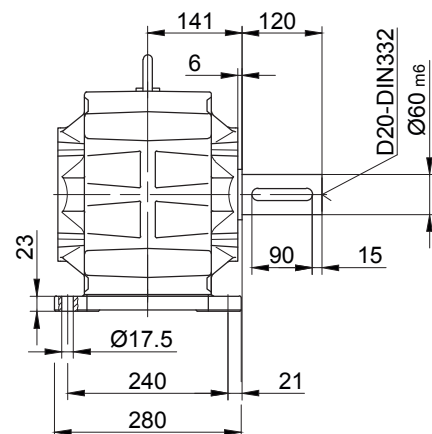
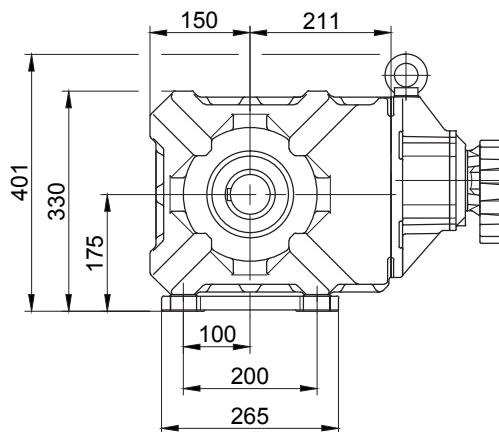
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

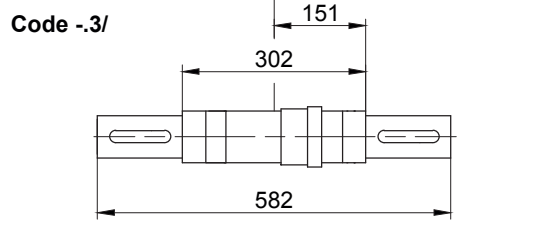
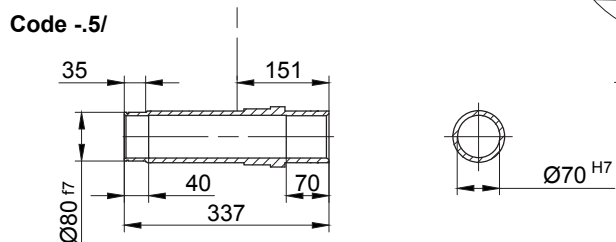
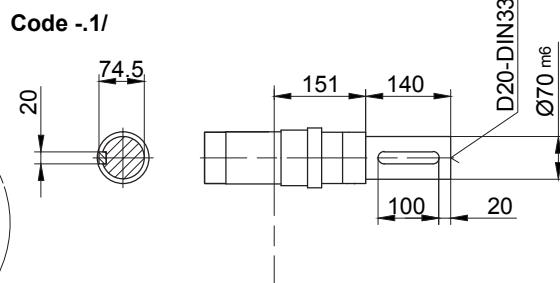
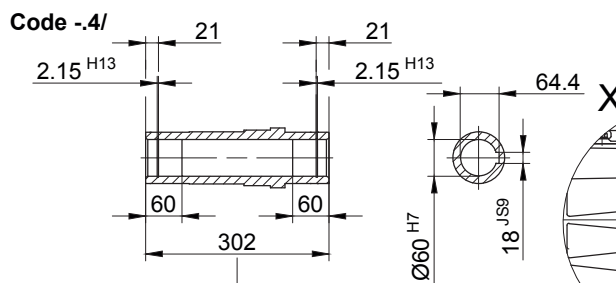
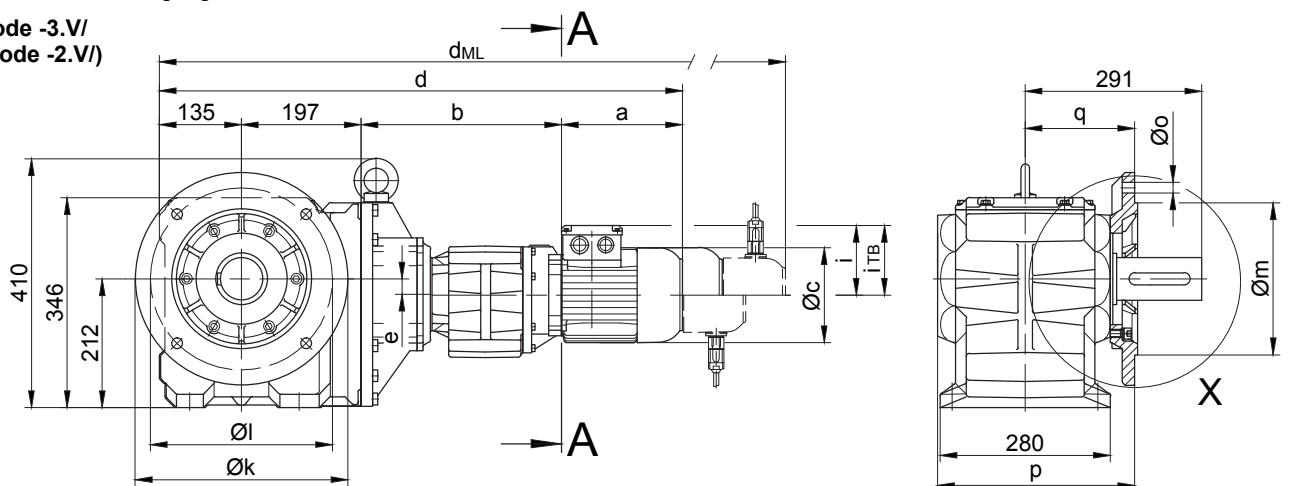
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

### BK60G20

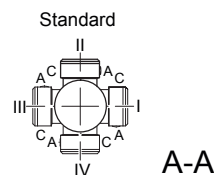
Flansch mit Durchgangslöchern vorne

Code -3.V/  
(Code -2.V/)



Flanschmasse

BK60G..	k	l	m	n	o	p	q	s	t
Standard -3.V/	350	300	250 <sub>h6</sub>	20	17.5	324	180	5	111
klein -2.V/	300	265	230 <sub>j6</sub>	20	13.5	332	188	4	103

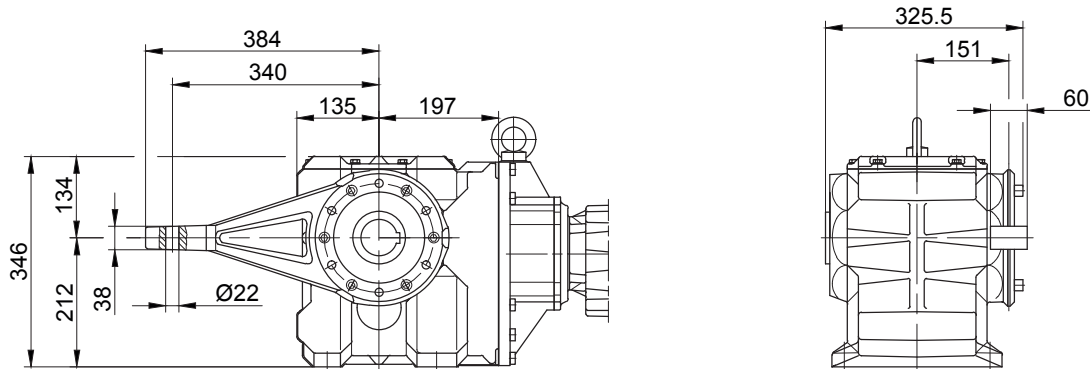


Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BK60G20-../D05..	170	326	123	828	27	100	117	870	931	972.5	-
BK60G20-../D06..	170	326	123	828	27	100	119	870	931	972.5	-
BK60G20-../D07..	190	326	123	848	27	100	119	890	951	992.5	-
BK60G20-../D..08..	200	330	156	862	27	115	136.5	928	969	1035.5	928
BK60G20-../D..09..	251	344.5	181	927.5	27	124	158	1020.5	1034.5	1125	1020.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

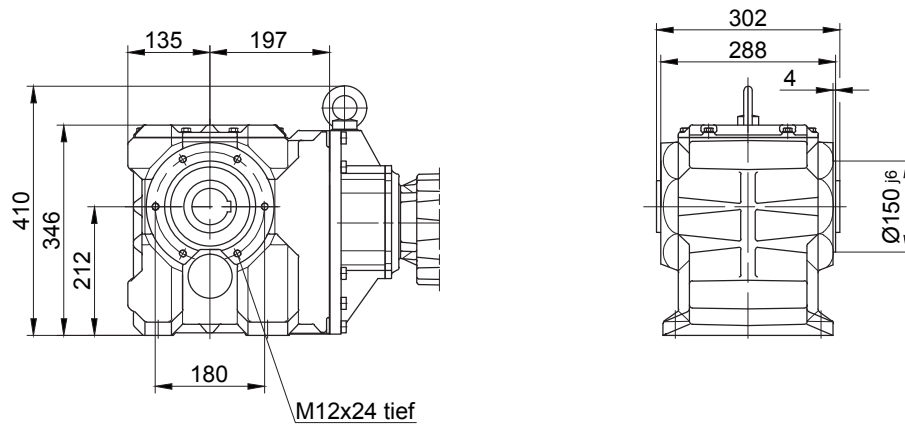
Drehmomentstütze vorne

Code -5.V/



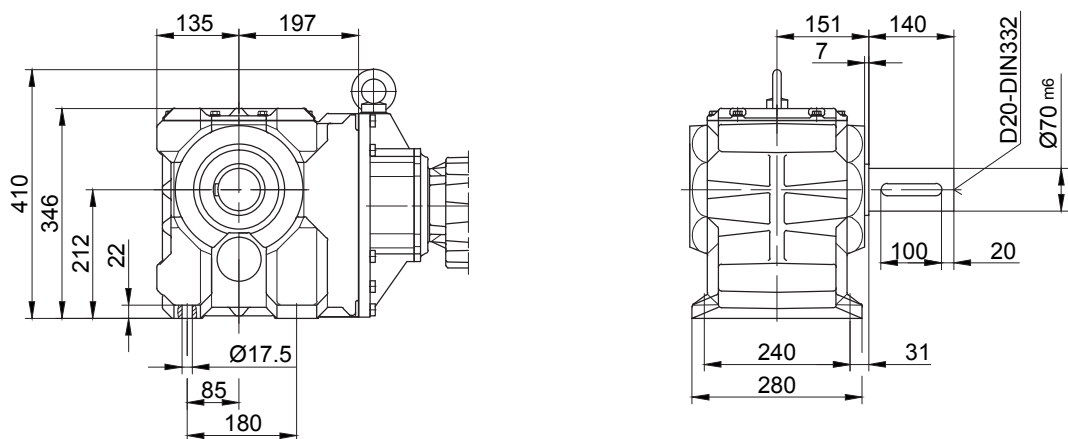
Flansch mit Gewindelöchern vorne

Code -7.V/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

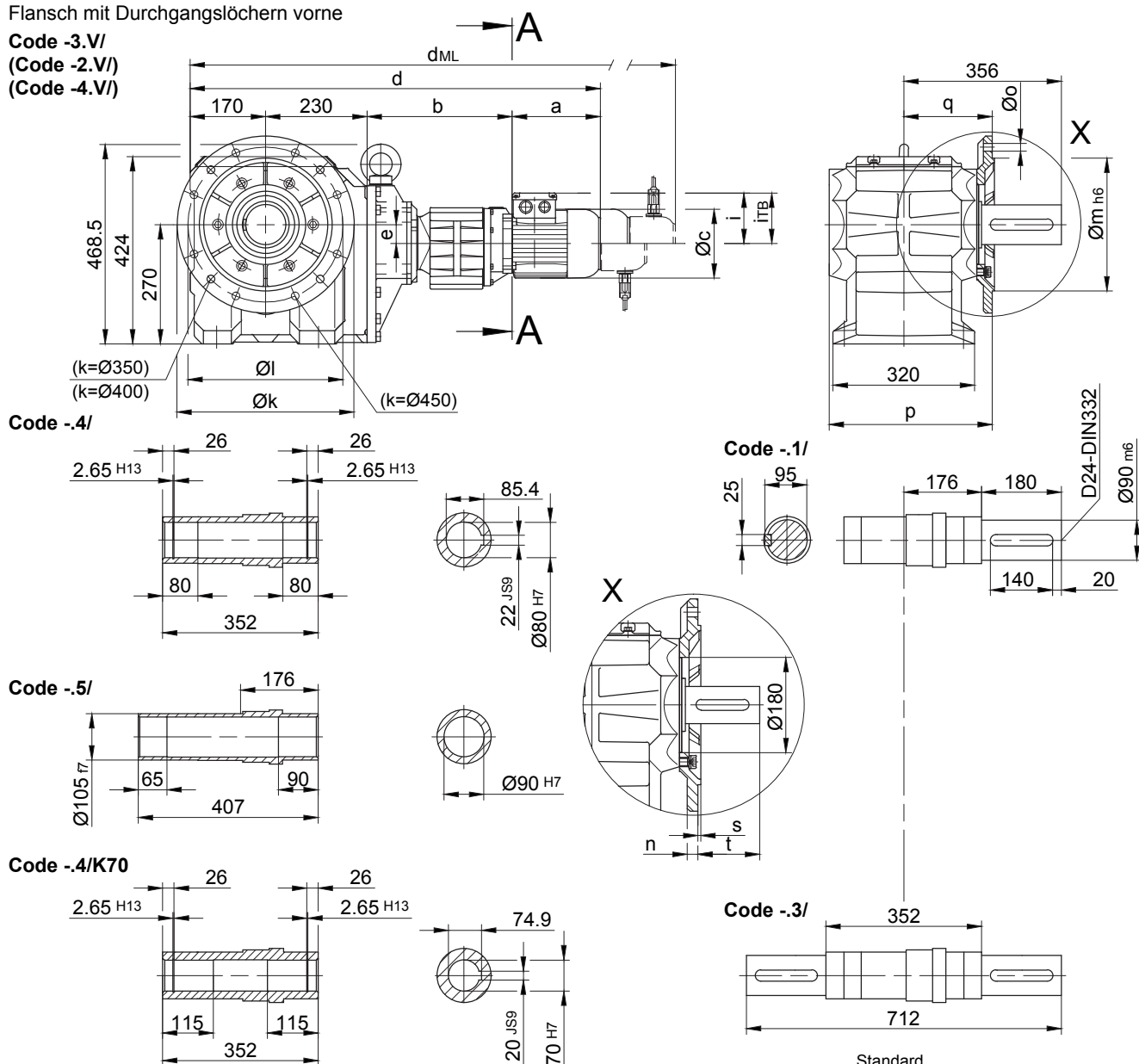
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

### BK70G20

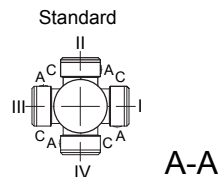
Flansch mit Durchgangslöchern vorne

Code -3.V/  
(Code -2.V)  
(Code -4.V)



Flanschmasse

BK70G..	k	l	m	n	o	p	q	s	t
Standard -3.V/	400	350	300	20	4 x 17.5	369	200	5	156
klein -2.V/	350	300	250	20	4 x 17.5	369	200	5	156
gross -4.V/	450	400	350	22	8 x 17.5	379	210	5	146



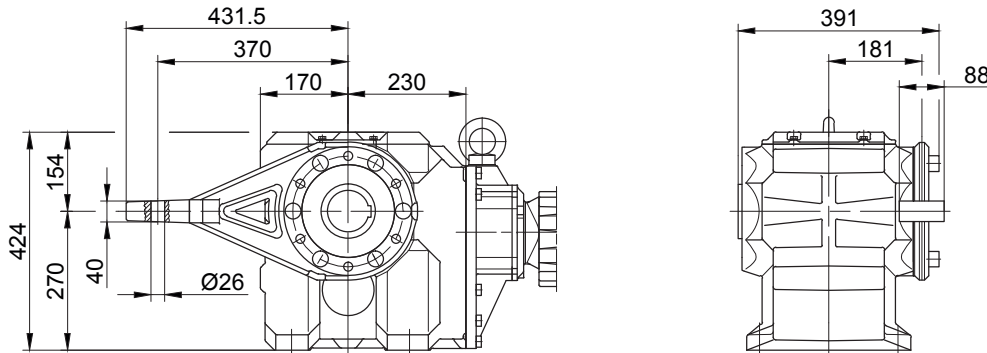
Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E./ES..	G	E./ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BK70G20-../D05..	170	324	123	894	43	100	117	936	997	1038.5	-
BK70G20-../D06..	170	324	123	894	43	100	119	936	997	1038.5	-
BK70G20-../D07..	190	324	123	914	43	100	119	956	1017	1058.5	-
BK70G20-../D..08..	200	328	156	928	43	115	136.5	994	1035	1101.5	994
BK70G20-../D..09..	251	342.5	181	993.5	43	124	158	1086.5	1100.5	1191	1086.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



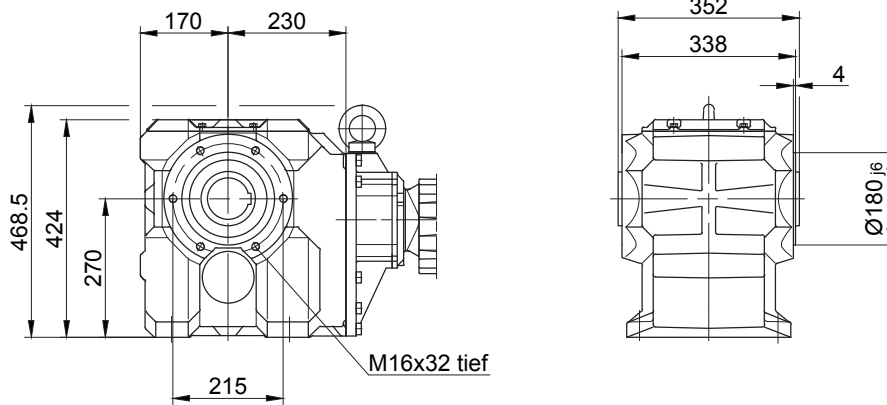
Drehmomentstütze vorne

Code -5.V/



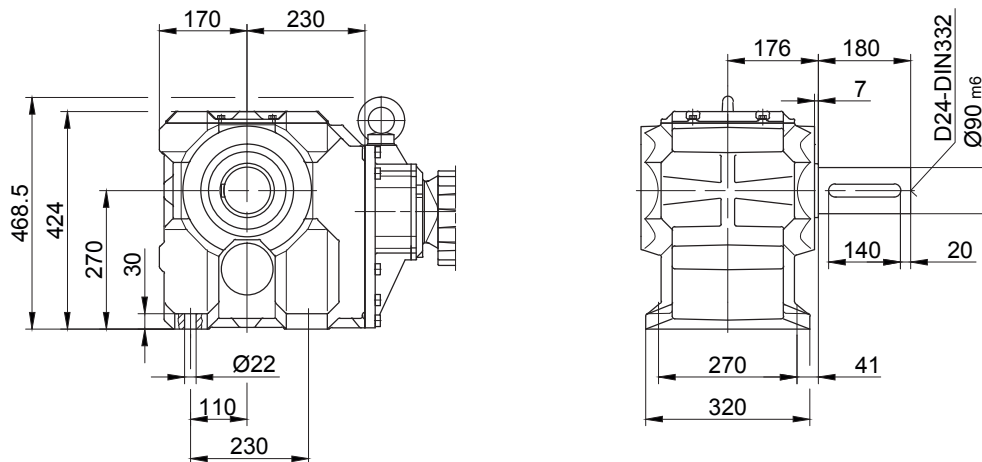
Flansch mit Gewindelöchern vorne

Code -7.V/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

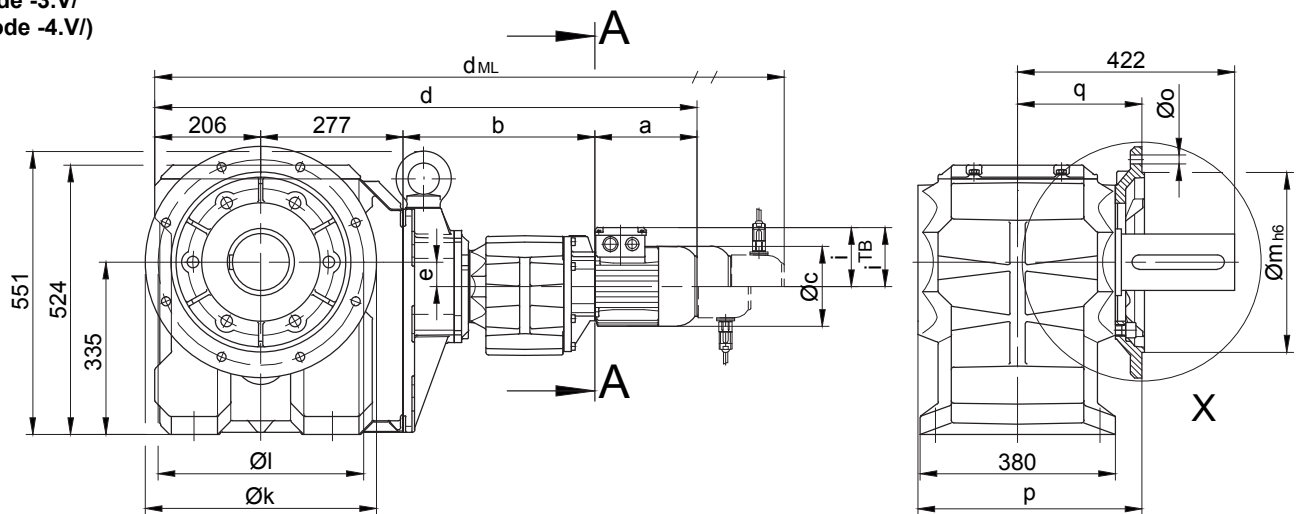
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

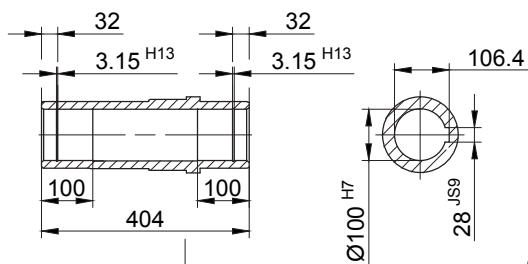
### BK80G40

Flansch mit Durchgangslöchern vorne

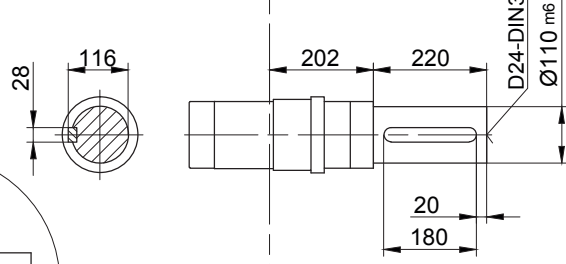
Code -3.V/  
(Code -4.V/)



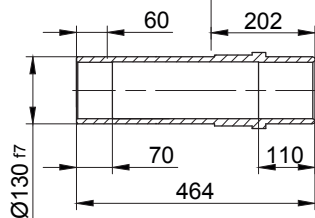
Code -4/



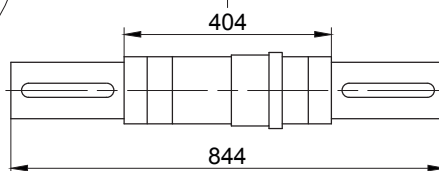
Code -1/



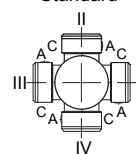
Code -5/



Code -3/



Standard



A-A

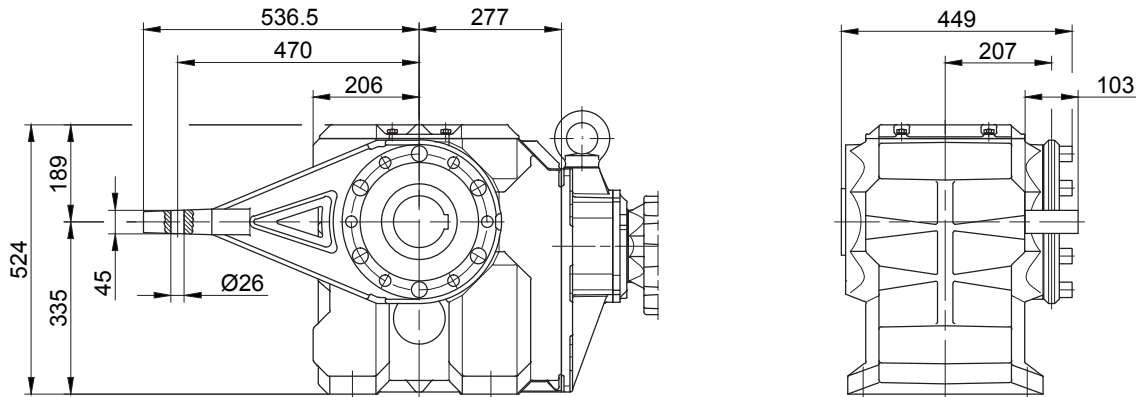
Flanschmasse

BK80G..	k	l	m	n	o	p	q	s	t
Standard -3.V/	450	400	350	22	17.5	439	245	5	177
gross -4.V/	550	500	450	22	17.5	444	250	5	172

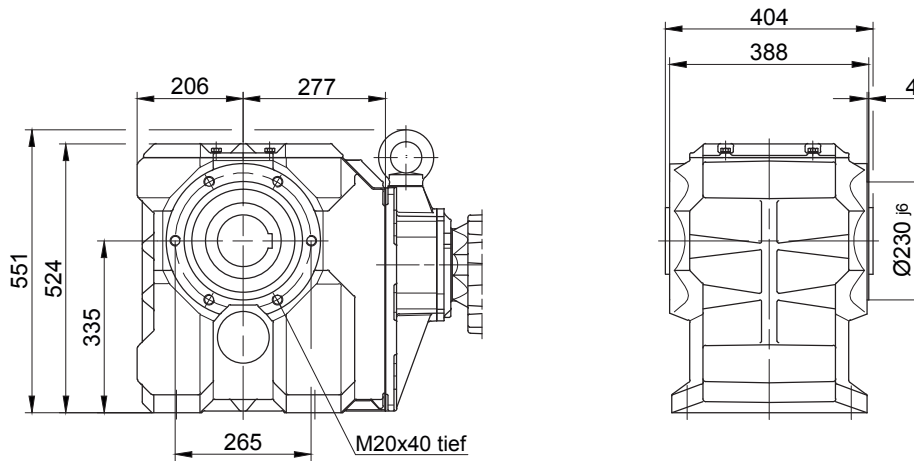
Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	ES..	G	ES..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BK80G40-../D..08..	200	373	156	1056	47	115	136.5	1122	1163	1229.5	1122
BK80G40-../D..09..	251	387.5	181	1121.5	47	124	158	1214.5	1228.5	1319	1214.5
BK80G40-../D..11..	319	394	228	1196	47	181	181	1294	1303	1398.5	1294

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

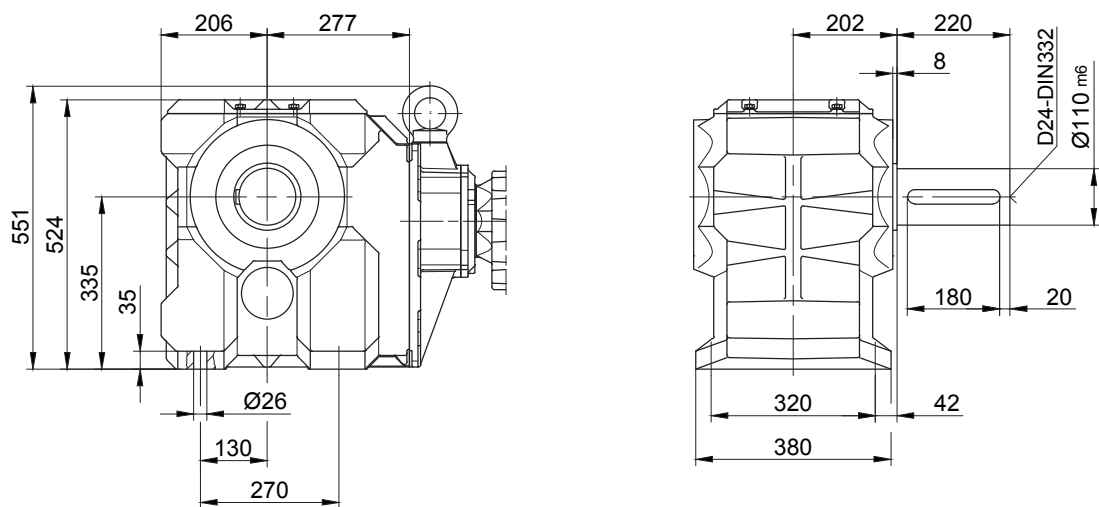
Drehmomentstütze vorne  
Code -5.V/



Flansch mit Gewindelöchern vorne  
Code -7.V/



Fuss mit Durchgangslöchern unten  
Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

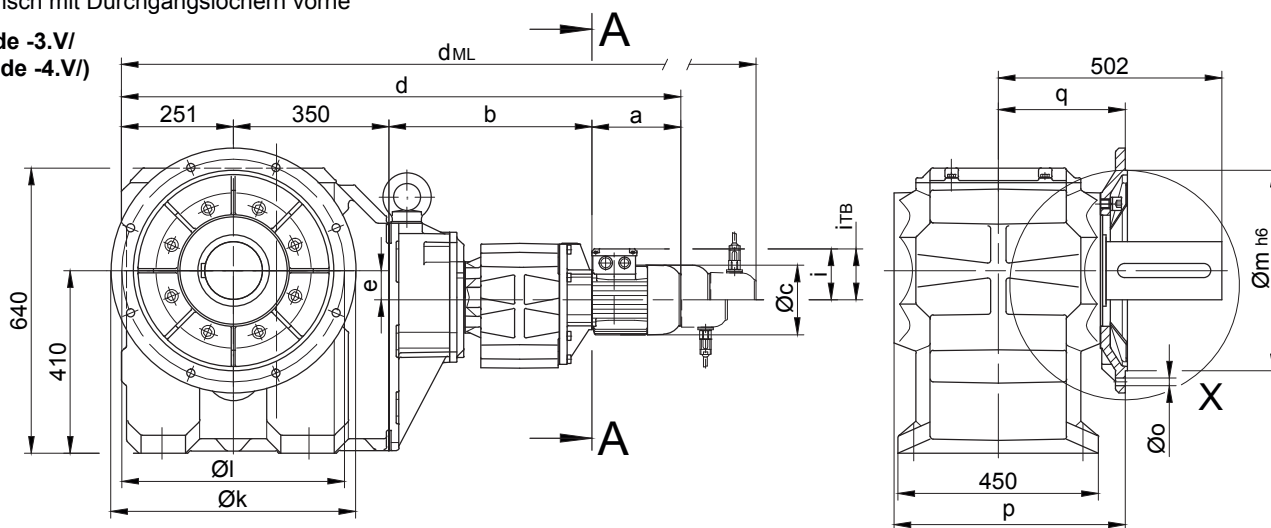
# Kegelrad-Getriebemotoren Reihe BK

## Maßbild

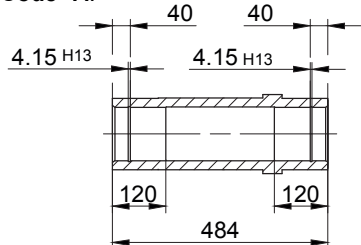
### BK90G50

Flansch mit Durchgangslöchern vorne

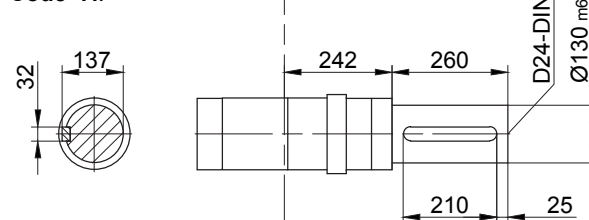
Code -3.V/  
(Code -4.V/)



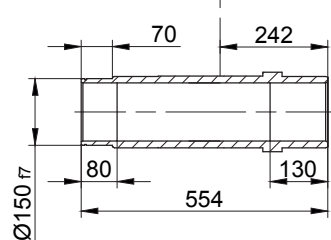
Code -4/



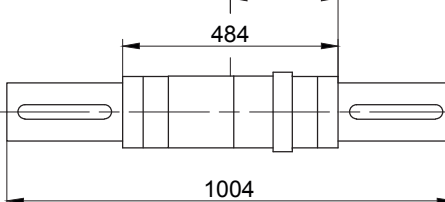
Code -1/



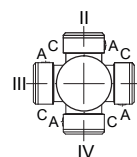
Code -5/



Code -3/



Standard



A-A

Flanschmasse

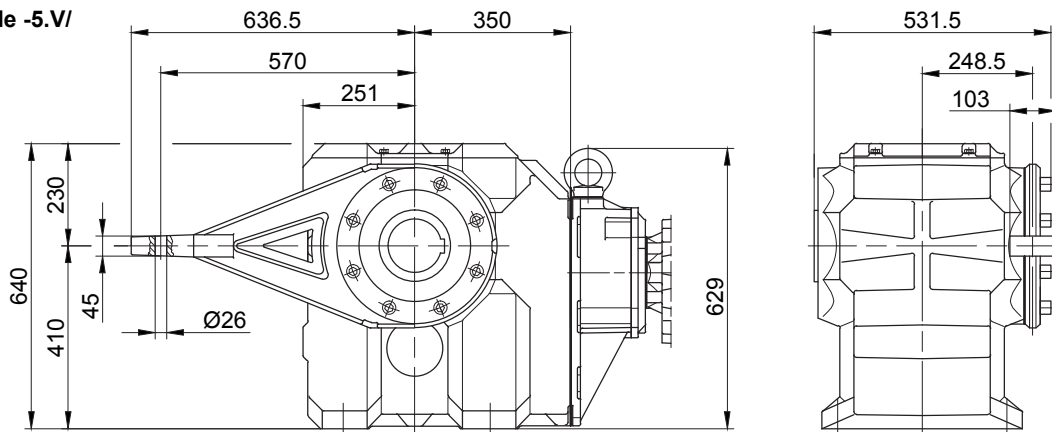
BK90G..	k	l	m	n	o	p	q	s	t
Standard -3.V/	550	500	450	22	17.5	519	285	5	217
gross -4.V/	660	600	550	25	22	513	279	6	223

Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	ES../ZS..	G	ES../ZS..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BK90G50-../D..08..	200	456	156	1257	66	115	136.5	1323	1364	1430.5	1323
BK90G50-../D..09..	251	470.5	181	1322.5	66	124	158	1415.5	1429.5	1520	1415.5
BK90G50-../D..11..	319	477	228	1397	66	181	181	1495	1504	1599.5	1495
BK90G50-../D..13..	393	490	258	1484	66	218	218	1595	1591	1699.5	1595
BK90G50-../D..16..	429	504	322	1534	66	244	244	1678	1642	1782	1678
BK90G50-../D..18..	528	535	368	1664	66	288	288	1813	1772	1917	1813

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

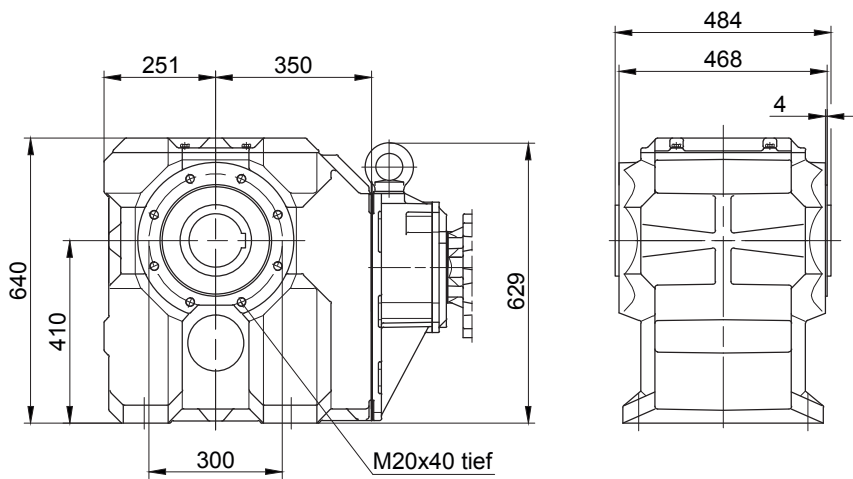
Drehmomentstütze vorne

Code -5.V/



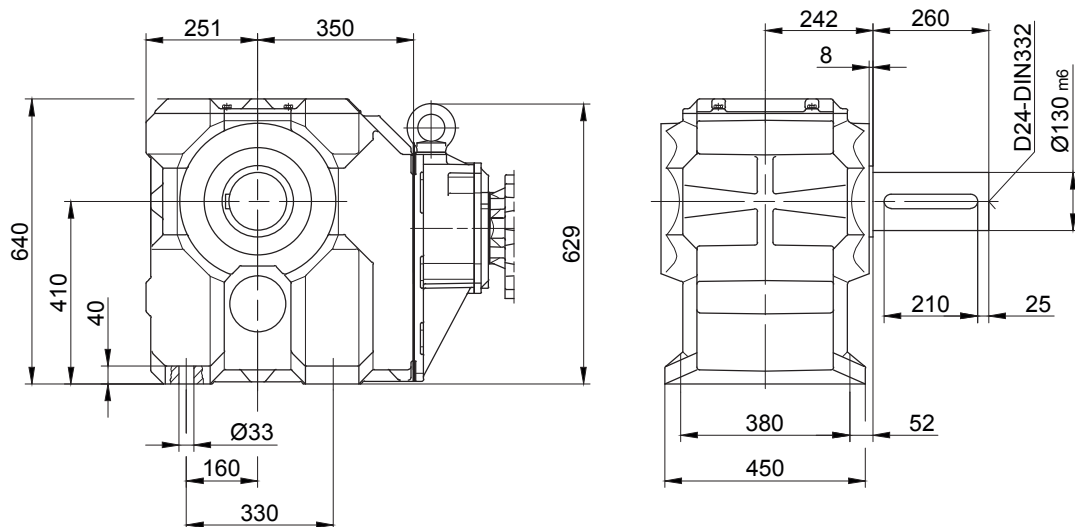
Flansch mit Gewindelöchern vorne

Code -7.V/



Fuss mit Durchgangslöchern unten

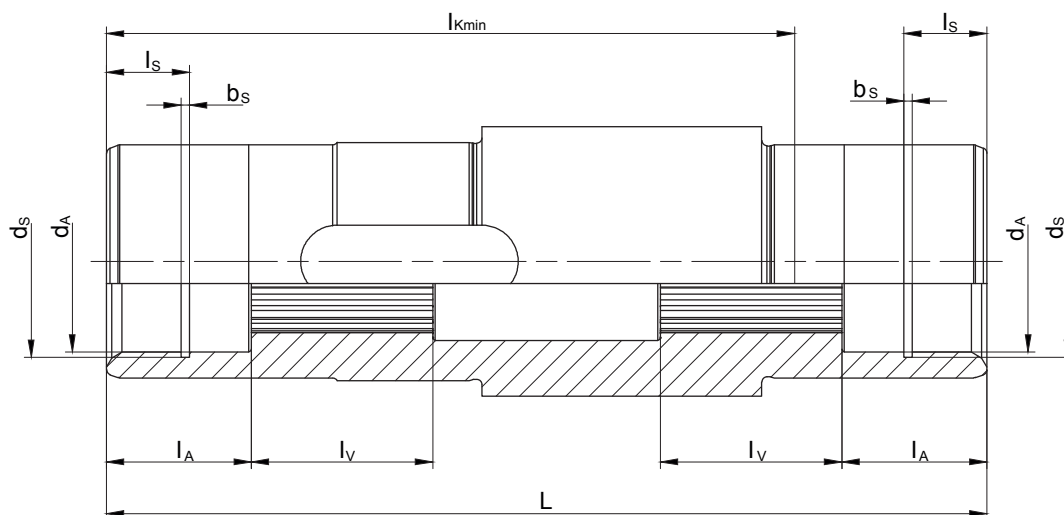
Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



### Vielkeilverzahnung BK



Typ	Vielkeilverzahnung nach DIN 5480	$d_A$ [mm]	$l_A$ [mm]	$l_V$ [mm]	$l_{kmin}$ [mm]	$L$ [mm]	$d_s$ [mm]	$l_s$ [mm]	$b_s$ [mm]
BK10	N30x1.25x22x9H	35 <sup>G7</sup>	28	35	132	170	37 <sup>H12</sup>	16	1.6 <sup>H13</sup>
BK20	N35x2x16x9H	36 <sup>G7</sup>	28	35	154	192	37 <sup>H12</sup>	16	1.6 <sup>H13</sup>
BK30	N40x2x18x9H	41 <sup>G7</sup>	25	42	179	224	42.5 <sup>H12</sup>	17	1.85 <sup>H13</sup>
BK40	N50x2x24x9H	51 <sup>G7</sup>	25	49	214	260	53 <sup>H12</sup>	17	2.15 <sup>H13</sup>
BK50	N60x2x28x9H	61 <sup>G7</sup>	25	58	229	282	63 <sup>H12</sup>	17	2.15 <sup>H13</sup>
BK60	N70x2x34x9H	72 <sup>G7</sup>	25	72	248	302	75 <sup>H12</sup>	17	2.65 <sup>H13</sup>
BK70	N85x3x27x9H	86 <sup>G7</sup>	26	100	295	352	88.5 <sup>H12</sup>	17	3.15 <sup>H13</sup>
BK80	N110x3x35x9H	112 <sup>G7</sup>	60	90	335	404	116 <sup>H12</sup>	30	4.15 <sup>H13</sup>
BK90	N130x5x24x9H	131.5 <sup>G7</sup>	60	110	410	484	134 <sup>H12</sup>	30	4.15 <sup>H13</sup>

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

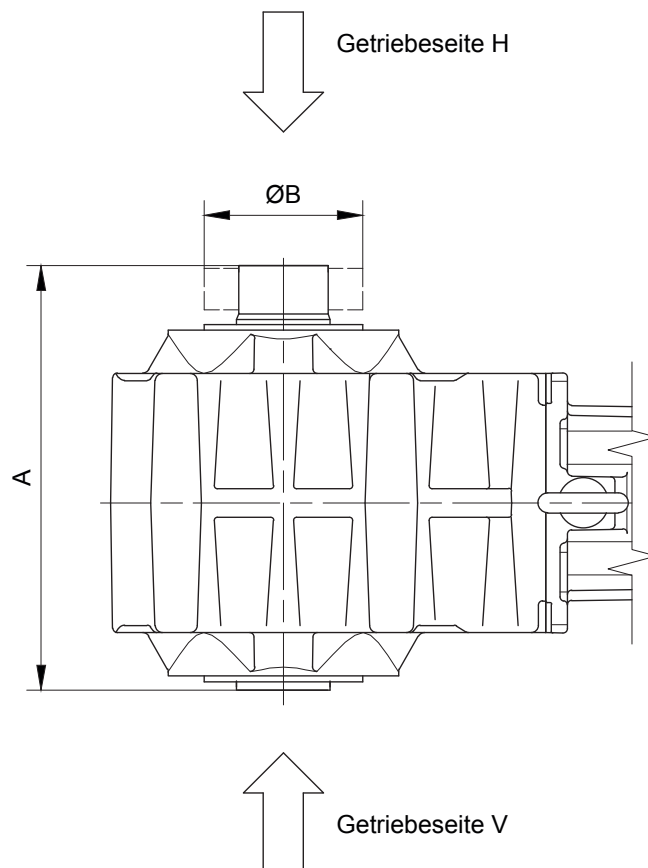
# Kegelrad-Getriebemotoren Reihe BK

## Zusatzmaßbild

### Schrumpfscheibenverbindung (SSV)

(Code BK10-.5/...)

(Code BK10Z-.5/...)



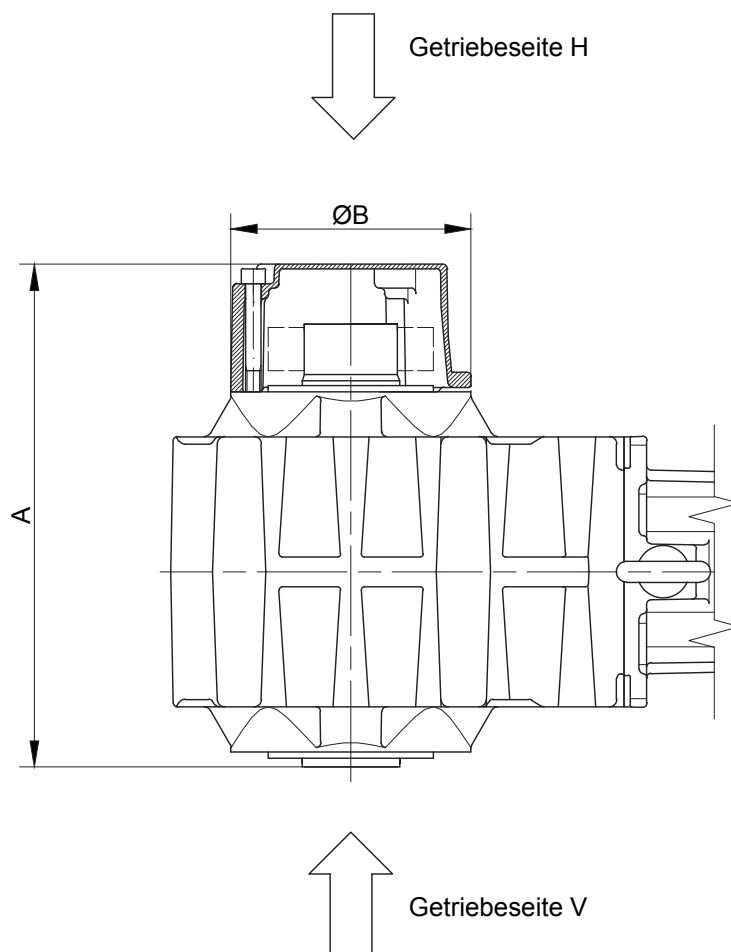
Typ	SSV Ringfeder	SSV STÜWE	A	B
BK06	RfN 4161 024x050	HSD 24-22x24	118	50
BK10	RfN 4161 036x072	HSD 36-22x36	195	72
BK20	RfN 4161 044x080	HSD 44-22x44	222	80
BK30	RfN 4161 050x090	HSD 50-22x50	254	90
BK40	RfN 4161 062x110	HSD 62-22x62	295	110
BK50	RfN 4161 068x115	HSD 68-22x68	317	115
BK60	RfN 4161 080x141	HSD 80-22x80	337	140
BK70	RfN 4161 105x185	HSD 110-22x105	407	185
BK80	RfN 4161 130x215	HSD 125-22x130	464	215
BK90	RfN 4161 150x263	HSD 155-22x150	554	263

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



### Schrumpfscheibenverbindung mit Abdeckung (SSV)

(Code BK10-.5A/...)  
(Code BK10Z-.5A/...)

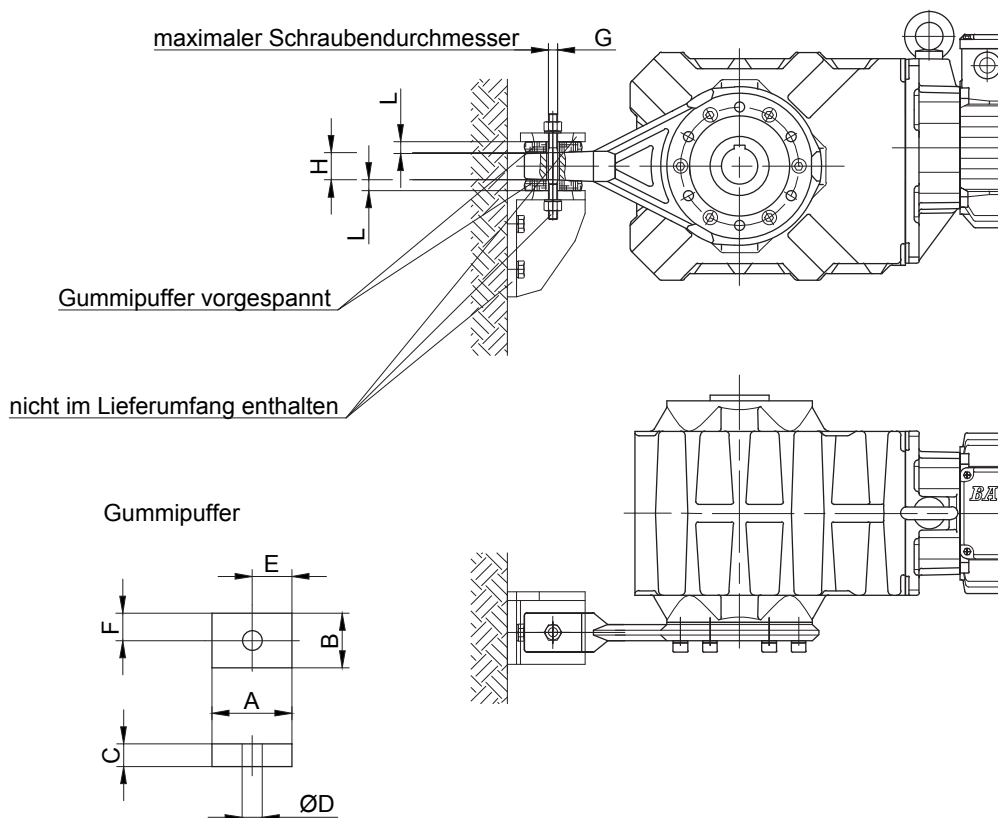


12

Typ	SSV Ringfeder	SSV STÜWE	A	B
BK10	RfN 4161 036x072	HSD 36-22x36	217	120
BK20	RfN 4161 044x080	HSD 44-22x44	270	140
BK30	RfN 4161 050x090	HSD 50-22x50	300	160
BK40	RfN 4161 062x110	HSD 62-22x62	335	160
BK50	RfN 4161 068x115	HSD 68-22x68	329	200
BK60	RfN 4161 080x141	HSD 80-22x80	386	210
BK70	RfN 4161 105x185	HSD 110-22x105	465	250
BK80	RfN 4161 130x215	HSD 125-22x130	502	300
BK90	RfN 4161 150x263	HSD 155-22x150	602	350

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Gummipuffer für Drehmomentstütze



Werkstoff: Naturkautschuk  
Härte 50±5 Shore A

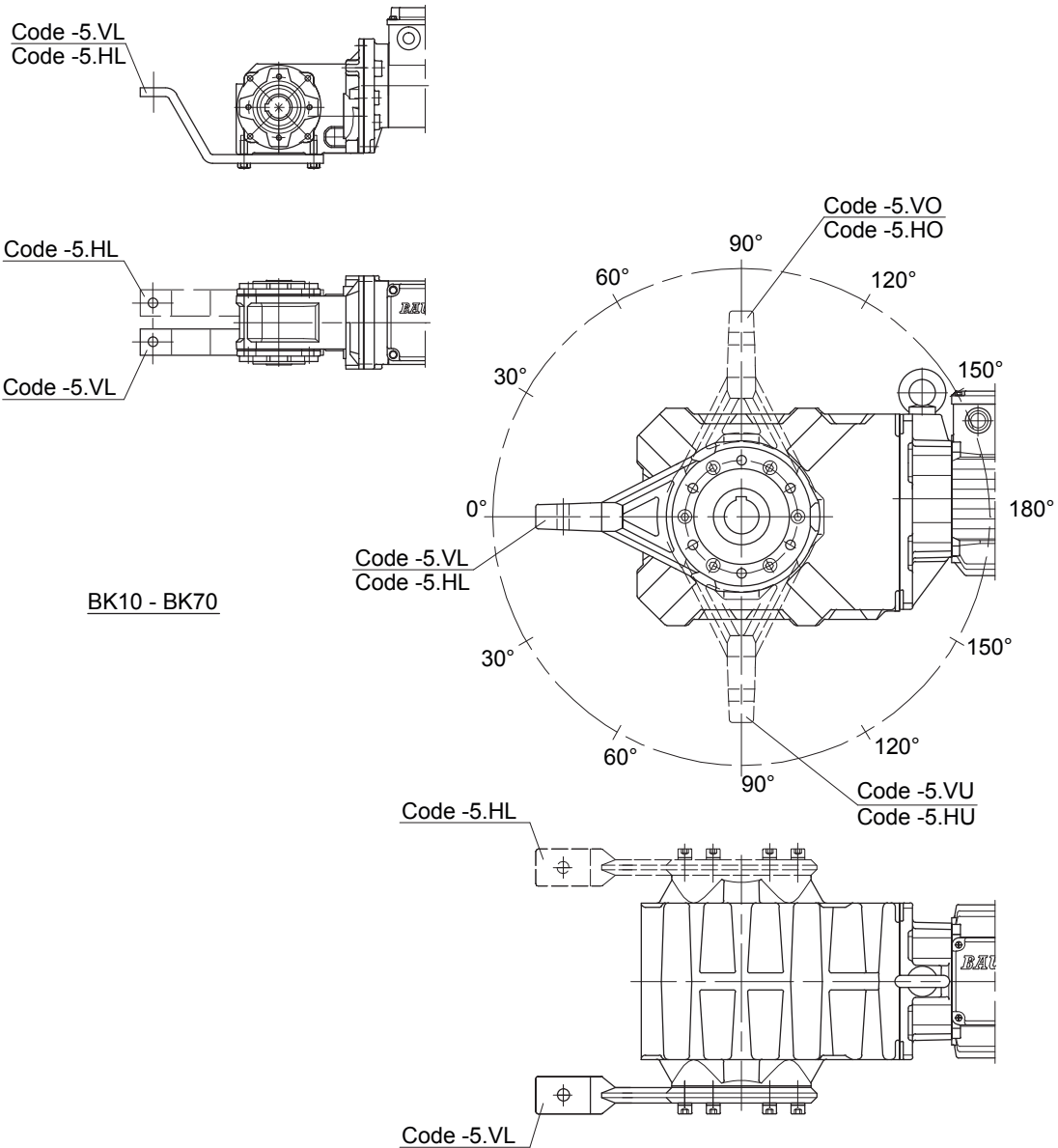
Abmessungen des Querlochs:  
Siehe Maßbild des jeweiligen Getriebes

12

Getriebe	Pos.	Maße (mm)								
		A	B	C	D	E	F	G	H	L
BK06	Pos.0	30	30	12	12	15	15	M10	10	10
BK10	Pos.1	48	32	15	14	24	16	M10	19	13.5
BK20	Pos.1	48	32	15	14	24	16	M10	19	13
BK30	Pos.2	63	43	20	14	31.5	21.5	M10	30	17
BK40	Pos.2	63	43	20	14	31.5	21.5	M10	30	17
BK50	Pos.3	88	60	25	22	44	30	M18	36	21.5
BK60	Pos.3	88	60	25	22	44	30	M18	38	21
BK70	Pos.4	123	88	30	26	61.5	44	M20	40	25.5
BK80	Pos.5	133	103	35	26	66.5	51.5	M20	45	30
BK90	Pos.5	133	103	35	26	66.5	51.5	M20	45	29.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Lage der Drehmomentstütze



Mögliche Lagen.

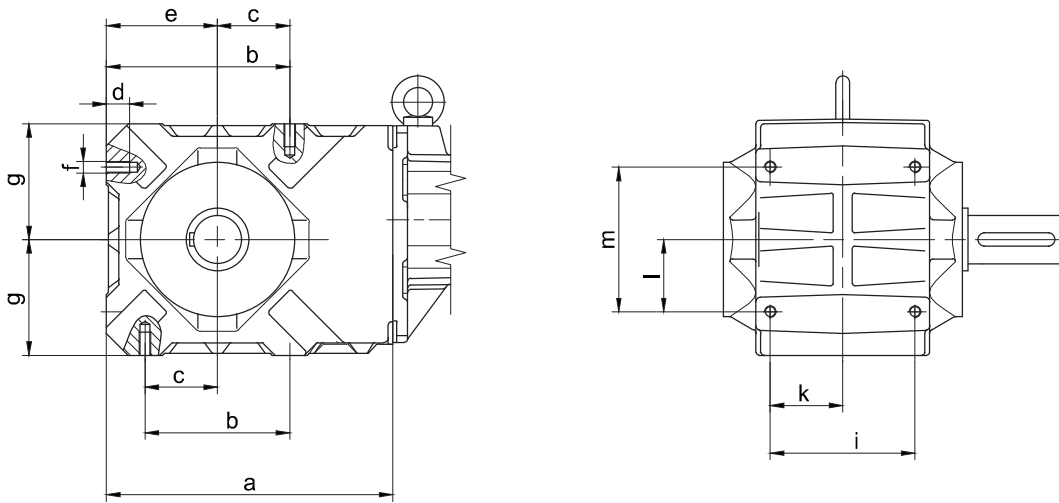
Lage	VL / HL		VO / HO VU / HU			VR / HR	
	0°	30°	60°	90°	120°	150°	-
BK06	0°	-	-	-	-	-	-
BK10	0°	30°	60°	90°	120°	150°	-
BK20	0°	30°	60°	90°	120°	150°	-
BK30	0°	30°	60°	90°	120°	150°	-
BK40	0°	30°	60°	90°	120°	150°	-
BK50	0°	30°	60°	90°	120°	150°	-
BK60	0°	30°	60°	90°	120°	150°	-
BK70	0°	30°	60°	90°	120°	150°	-
BK80	0°	30°	60°	90°	120°	150°	-
BK90	0°	45°	90°	135°	-	-	-

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

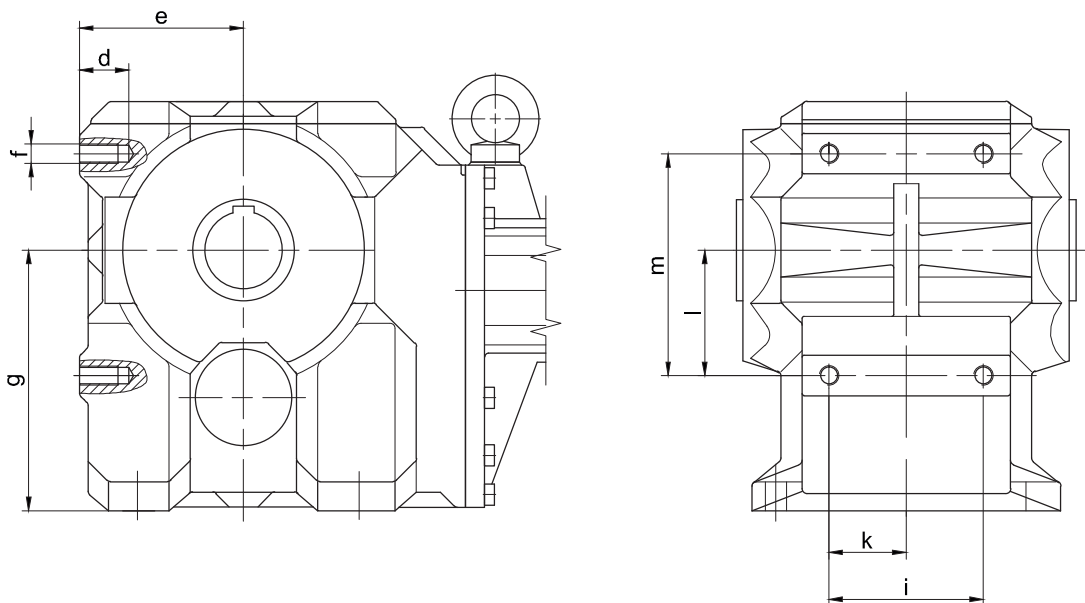
# Kegelrad-Getriebemotoren Reihe BK

## Zusatzmaßbild

### Fuß mit Gewindelöchern



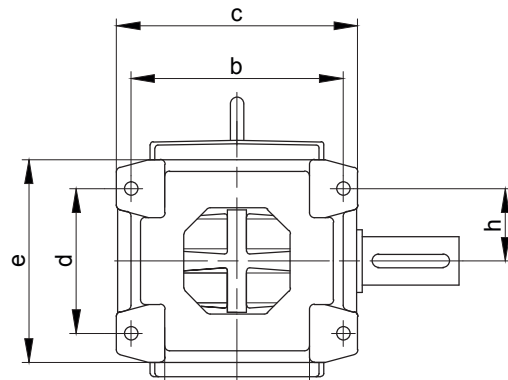
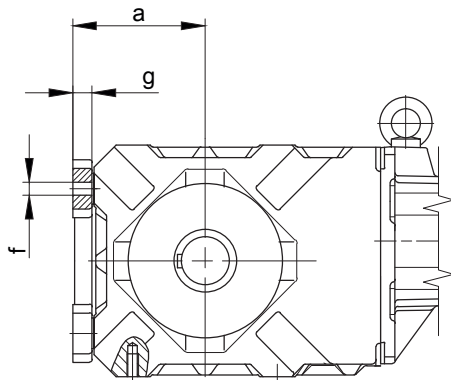
Typ	a	b	c	d	e	f	g	i	k	l	m
BK10-BK10Z	202	90	45	16	78	M8	80	95	47.5	45	90
BK20-BK20Z	242	110	55	20	95	M10	100	105	52.5	55	110
BK30-BK30Z	266	125	62.5	24	105	M12	110	120	60	62.5	125
BK40-BK40Z	297	150	75	24	115	M12	120	150	75	75	150
BK50-BK50Z	356	200	100	28	145	M14	150	160	80	100	200



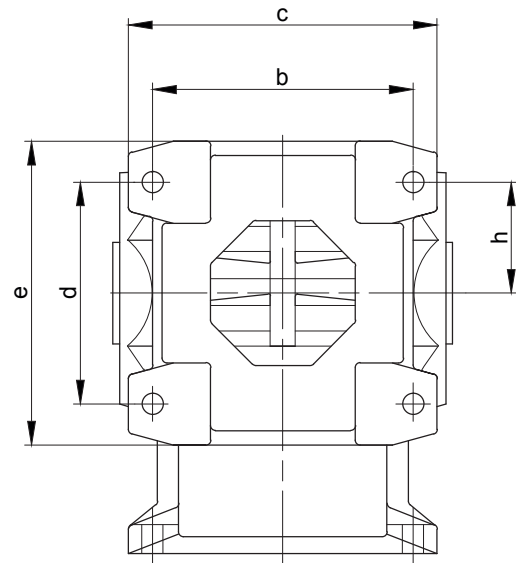
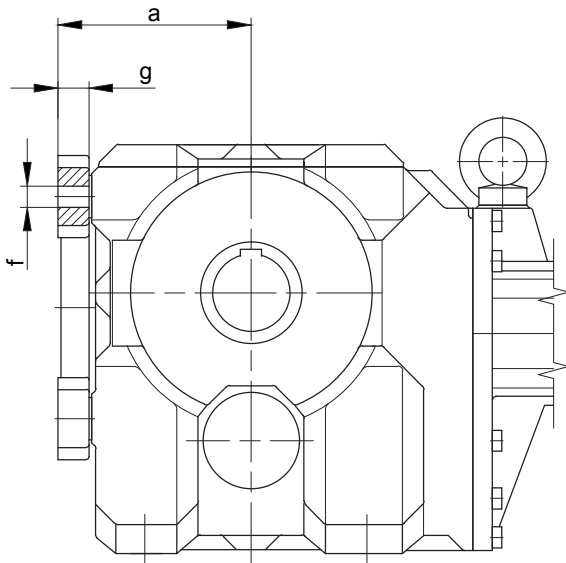
Typ	a	b	c	d	e	f	g	i	k	l	m
BK60-BK60Z	-	-	-	40	130	M20	212	160	80	145	230
BK70-BK70Z	-	-	-	40	165	M20	270	160	80	130	230
BK80-BK80Z	-	-	-	60	200	M30	335	210	105	240	360
BK90-BK90Z	-	-	-	60	245	M30	410	210	105	215	360

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Fußplatte mit Durchgangslöchern



Typ	a	b	c	d	e	f	g	h
BK10-BK10Z	96	145	165	90	130	Ø9	16	45
BK20-BK20Z	115	165	195	110	160	Ø11	18	55
BK30-BK30Z	127	190	220	125	185	Ø13.5	20	62.5
BK40-BK40Z	137	220	250	150	210	Ø13.5	20	75
BK50-BK50Z	170	240	280	200	265	Ø17.5	23	100



Typ	a	b	c	d	e	f	g	h
BK60-BK60Z	165	270	320	230	315	Ø22	32	85
BK70-BK70Z	200	270	320	230	315	Ø22	32	100
BK80-BK80Z	250	400	480	360	480	Ø33	47	120
BK90-BK90Z	295	400	480	360	480	Ø33	47	145

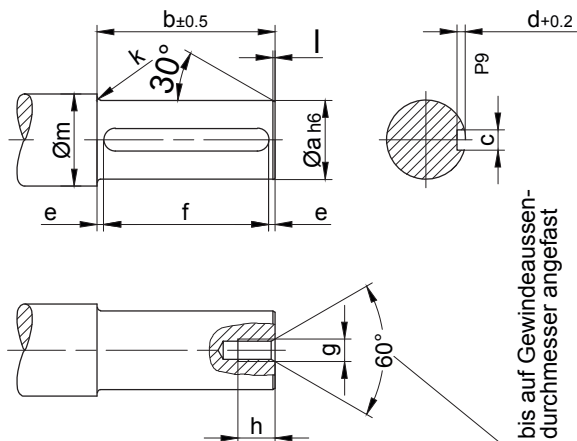
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Kegelrad-Getriebemotoren Reihe BK

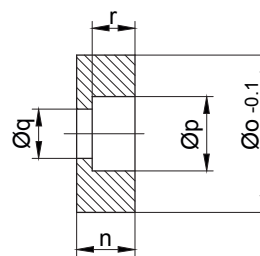
## Zusatzmaßbild

### Montagehilfe für Hohlwelle mit Passfedernut

Pos.1 Wellenzapfen



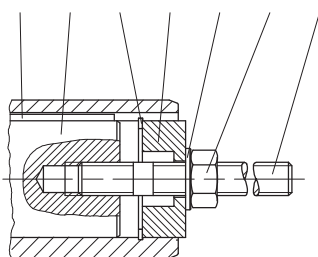
\*Pos.2 Scheibe



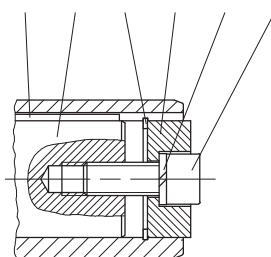
√<sup>x</sup>, Kanten gebrochen  
Werkstoff:  
C45 DIN 17200

Typ	Masse (mm)															
	Pos.1 Wellenzapfen											Pos.2 Scheibe				
	a	b	c	d	e	f	g	h	k	l	m	n	o	p	q	r
BK06	20	75	6	3.5	6	63 <sup>+0.3</sup>	M6	16	2	1	28	13.5	19.8	11	6.6	6.5
BK10	25	148	8	4	11.5	125 <sup>+0.5</sup>	M8	18	2.5	1.5	33	13.5	24.8	15	9	8.5
BK20	30	170	8	4	15	140 <sup>+0.5</sup>	M10	20	3	1.5	38	15	29.8	18	11	10
BK30	35	201	10	5	10.5	180 <sup>+0.5</sup>	M10	20	3	1.5	43	16	34.8	18	11	10
BK40	40	235	12	5	17.5	200 <sup>+0.5</sup>	M12	22	3	2	48	18	39.8	20	13.5	12
BK50	50	254	14	5.5	17	220 <sup>+0.5</sup>	M16	30	3.5	2	58	21	49.8	26	17.5	15
BK60	60	273	18	7	11.5	250 <sup>+0.5</sup>	M20	38	3.5	2	68	24	59.8	33	22	18
BK70	80	316	22	9	18	280 <sup>+0.5</sup>	M20	38	4	2	90	27	79.8	33	22	20
BK70-K70	70	316	20	7.5	18	280 <sup>+0.5</sup>	M20	38	4	2	90	27	69.8	33	22	20
BK80	100	360	28	10	20	320 <sup>+0.5</sup>	M24	45	4	3	110	32	99.8	40	26	25
BK90	120	432	32	11	16	400 <sup>+0.5</sup>	M24	45	4.5	3	130	35	119.8	40	26	28

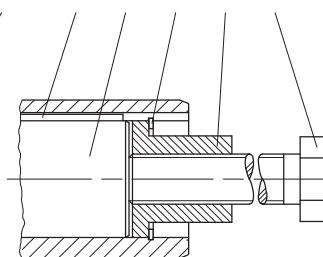
11 1 5 2 7 6 4 11 1 5 2 8 9 11 1 5 3 10



Montage



Halten



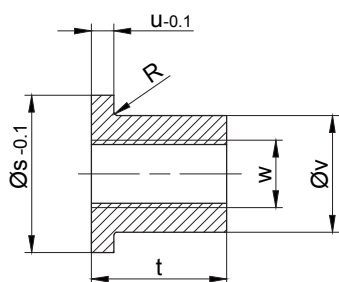
Demontage

Die dargestellten Teile werden zur Montage benötigt. NUR \* gekennzeichneten Teile sind im Montagehilfeset enthalten.  
Schraube Pos.9 ist durch geeignete Maßnahmen gegen Losbrechen zu sichern!

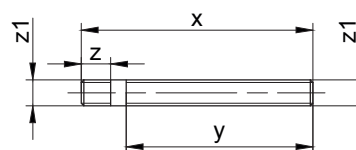
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Montagehilfe für Hohlwelle mit Passfedernut

Pos.3 Hülse



Pos.4 Gewindebolzen



Werkstoff: Stahl, Zugfestigkeit  $\geq$  1000N/mm<sup>2</sup>  
Gewinde gerollt

✓, Kanten gebrochen  
Werkstoff: C45 DIN 17200

Typ	Masse (mm)										* Sicherungsring DIN 472	Sechskantmutter DIN 934+8	Scheibe DIN 125-St	Federling DIN 7880	* Zylinder-schraube DIN 912+8,8	Anzugs-momente [Nm]	Sechskantschraube DIN EN 24017+8,8	Passfedern DIN 6885 Breite x Höhe x Länge							
	Pos.3 Hülse						Pos.4 Gewindebolzen												Pos.5	Pos.6	Pos.7	Pos.8	Pos.9	Pos.10	Pos.11
	s	t	u	v	w	R	x	y	z	z1															
BK06	19.8	20	5	11.1	M8	0.8	130	100	20	M6	20x1	M6	6.4	6	M6x30	5	M6x120	A 6x6x63							
BK10	24.8	24	5	15.4	M12	0.8	200	170	20	M8	25x1.2	M8	8.4	8	M8x30		M12x190	A 8x7x125							
BK20	29.8	28	5	19.8	M14	0.8	230	195	23	M10	30x1.2	M10	10.5	10	M10x30	8	M14x210	A 8x7x140							
BK30	34.8	28	5	23	M14	-	260	220	23	M10	35x1.5	M10	10.5	10	M10x35		M14x240	A 10x8x180							
BK40	39.8	40	6	27.7	M20	0.8	300	260	28	M12	40x1.75	M12	13	12	M12x35	16	M20x290	A 12x8x200							
BK50	49.8	48	6	36	M24	-	340	290	37	M16	50x2.0	M16	17	16	M16x40	30	M24x320	A 14x9x220							
BK60	59.8	60	6	44	M30	-	370	310	45	M20	60x2.0	M20	21	20	M20x50	42	M30x350	A 18x11x250							
BK70	79.8	60	8	55	M30	-	420	360	45	M20	80x2.5	M20	21	20	M20x50		M30x400	A 22x14x280							
BK70-K70	69.8	60	8	53	M30	-	420	360	45	M20	70x2.5	M20	21	20	M20x50		M30x400	A 20x12x280							
BK80	99.8	72	10	75	M36	-	480	410	55	M24	100x3.0	M24	25	24	M24x60	100	M36x450	A 28x16x320							
BK90	119.8	72	10	80	M36	-	560	480	55	M24	120x4.0	M24	25	24	M24x60		M36x520	A 32x18x400							

Die dargestellten Teile werden zur Montage benötigt. NUR \* gekennzeichneten Teile sind im Montagehilfeset enthalten.

Schraube Pos.9 ist durch geeignete Maßnahmen gegen Losbrechen zu sichern!

Optional:	Typ	Ø s	Bestelltext
	BK06	20	Id.Nr.4104013 Montagehilfe "halten"
	BK10	25	Id.Nr.4103921 Montagehilfe "halten"
	BK20	30	Id.Nr.4103939 Montagehilfe "halten"
	BK30	35	Id.Nr.4103947 Montagehilfe "halten"
	BK40	40	Id.Nr.4103955 Montagehilfe "halten"
	BK50	50	Id.Nr.4103963 Montagehilfe "halten"
	BK60	60	Id.Nr.4103971 Montagehilfe "halten"
	BK70	80	Id.Nr.4103980 Montagehilfe "halten"
	BK70-K70	70	Id.Nr.4104765 Montagehilfe "halten"
	BK80	100	Id.Nr.4103998 Montagehilfe "halten"
	BK90	120	Id.Nr.4104005 Montagehilfe "halten"

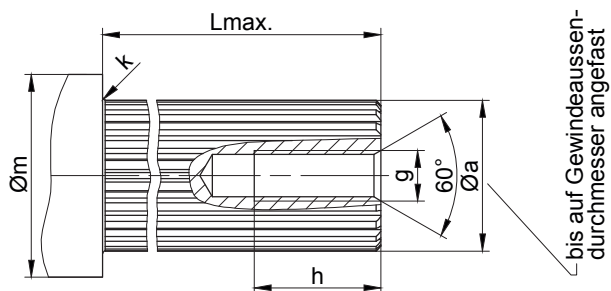
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Kegelrad-Getriebemotoren Reihe BK

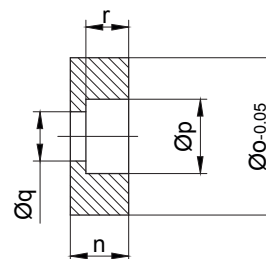
## Zusatzmaßbild

### Montagehilfe für Kegelradgetriebe mit Vielkeilverzahnung

Pos.1 Wellenzapfen

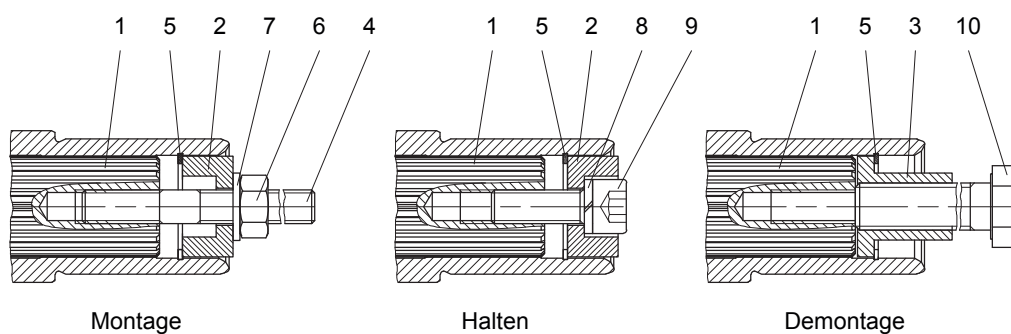


\* Pos.2 Scheibe



✓, Kanten gebrochen  
Werkstoff:  
C45 DIN 17200

Typ	Masse (mm)										
	Pos.1 Wellenzapfen						Pos.2 Scheibe				
	a	g	h	k	Lmax.	m	n	o	p	q	r
BK10	DIN 5480-W30x1.25x22	M10	25	2.5	145	33	15	30.4	18	11	10
BK20	DIN 5480-W35x2x16	M10	25	3	170	38	14	35.9	18	11	10
BK30	DIN 5480-W40x2x18	M12	30	3	200	43	18	40.9	20	13.5	12
BK40	DIN 5480-W50x2x24	M16	35	3	235	48	17.5	50.9	26	17.5	12.5
BK50	DIN 5480-W60x2x28	M20	40	3.5	255	58	24	60.9	33	22	18
BK60	DIN 5480-W70x2x34	M20	40	3.5	275	68	24	71.9	33	22	18
BK70	DIN 5480-W85x3x27	M20	40	4	325	90	22	85.9	33	22	16
BK80	DIN 5480-W110x3x35	M24	50	4	360	110	32	111.9	40	26	25
BK90	DIN 5480-W130x5x24	M24	50	4.5	440	130	25	131.4	40	26	18



Die dargestellten Teile werden zur Montage benötigt. NUR \*gekennzeichneten Teile sind im Montagehilfeset enthalten.

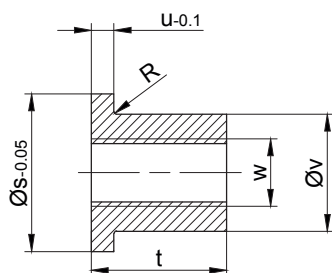
Schraube Pos.9 ist durch geeignete Maßnahmen gegen Losbrechen zu sichern!

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



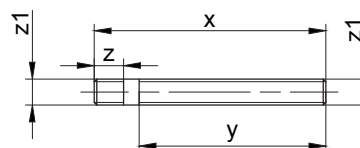
### Montagehilfe für Kegelradgetriebe mit Vielkeilverzahnung

Pos.3 Hülse



✓<sup>x/</sup>, Kanten gebrochen  
Werkstoff:  
C45 DIN 17200

Pos.4 Gewindebolzen



Werkstoff: Stahl, Zugfestigkeit  $\geq$   
1000N/mm<sup>2</sup>  
Gewinde gerollt

Typ	Masse (mm)										* Sicherungsring DIN 472	Sechskantmutter DIN 934-8	Scheibe DIN 125-St	Federring DIN 7980	* Zylinderschraube DIN 7984-8.8	Anzugsmomente [Nm]	Sechskantschraube DIN EN 24017-8.8						
	Pos.3 Hülse						Pos.4 Gewindebolzen											Pos.5	Pos.6	Pos.7	Pos.8	Pos.9	Pos.10
	s	t	u	v	w	R	x	y	z	z1													
BK10	30.4	28	5	19.8	M14	-	200	170	23	M10	30x1.2	M10	10.5	10	M10x30	8	M14x190						
BK20	35.9	28	5	23	M14	-	230	195	23	M10	35x1.5	M10	10.5	10	M10x35		M14x210						
BK30	40.9	40	6	27.7	M20	-	260	220	28	M12	40x1.75	M12	13	12	M12x35	16	M20x240						
BK40	50.9	48	6	36	M24	0.8	300	260	37	M16	50x2.0	M16	17	16	M16x40	30	M24x290						
BK50	60.9	60	6	44	M30	-	340	290	45	M20	60x2.0	M20	21	20	M20x50	42	M30x320						
BK60	71.9	60	6	53	M30	0.8	370	310	45	M20	70x2.5	M20	21	20	M20x50		M30x350						
BK70	85.9	60	8	65	M30	0.8	420	360	45	M20	85x3	M20	21	20	M20x50		M30x400						
BK80	111.9	72	10	85	M36	0.8	480	410	55	M24	112x4	M24	25	24	M24x60	100	M36x450						
BK90	131.4	72	10	95	M36	0.8	560	480	55	M24	130x4	M24	25	24	M24x60		M36x520						

Die dargestellten Teile werden zur Montage benötigt. NUR \*gekennzeichneten Teile sind im Montagehilfset enthalten.

Schraube Pos.9 ist durch geeignete Maßnahmen gegen Losbrechen zu sichern!

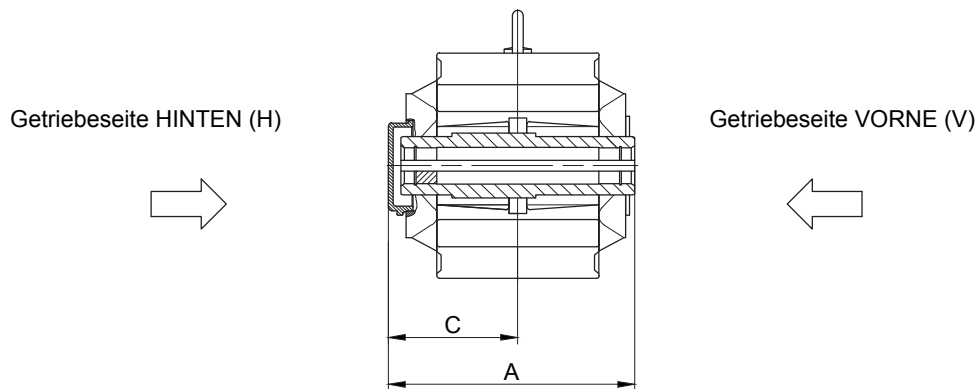
Optional:	Typ	Ø s	Bestelltext
	BK10	30.5	Id.Nr.4105133 Montagehilfe "halten"
	BK20	36	Id.Nr.4105141 Montagehilfe "halten"
	BK30	41	Id.Nr.4105150 Montagehilfe "halten"
	BK40	51	Id.Nr.4105168 Montagehilfe "halten"
	BK50	61	Id.Nr.4105176 Montagehilfe "halten"
	BK60	72	Id.Nr.4105184 Montagehilfe "halten"
	BK70	86	Id.Nr.4105192 Montagehilfe "halten"
	BK80	112	Id.Nr.4105206 Montagehilfe "halten"
	BK90	131.5	Id.Nr.4105214 Montagehilfe "halten"

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

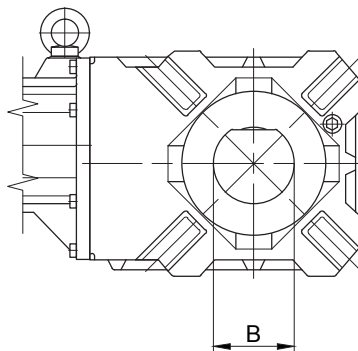
# Kegelrad-Getriebemotoren Reihe BK

## Zusatzmaßbild

### Verschlusskappen (VK)



Getriebeseite HINTEN (H)

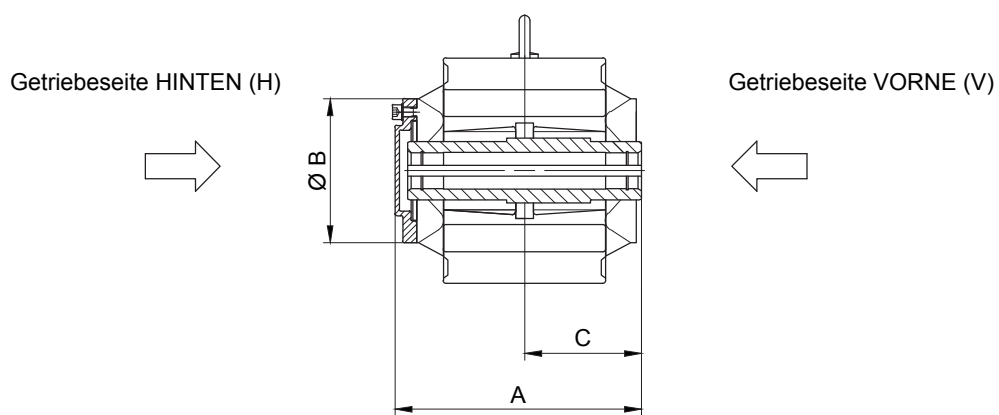
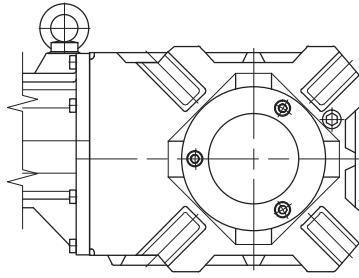


Typ	A	B	C
BK10	182.5	85	97.5
BK20	204.5	90	108.5
BK40	273.5	100	143.5
BK50	298	115	157
BK60	322	130	171
BK70	370	160	194

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Verschlussdeckel (VD)

Getriebeseite HINTEN (H)

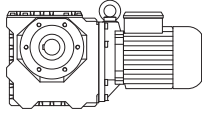


Typ	A	B	C
BK10	181	120	85
BK20	206	139.5	96
BK30	239	160	112
BK40	274	160	130
BK50	297	199	141
BK60	321	210	151
BK70	368	250	176
BK80	419	300	202
BK90	492	351	242

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



# 13



Seite

---

## Maßbilder der Schnecken-Getriebemotoren

497-534

- Standard
- Doppelgetriebe

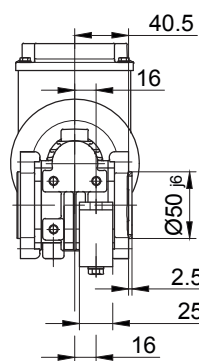
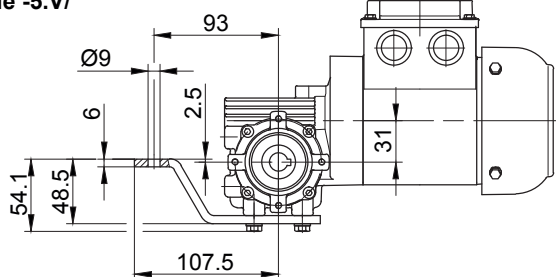
## Zusatzmaßbilder

- Schrumpfscheibenverbindungen (SSV)
  - Schrumpfscheibenverbindungen mit Abdeckhauben (SSV)
  - Gummipuffer für Drehmomentstütze
  - Lage der Drehmomentstütze
  - Fußgewinde links
  - Fußplatte links
  - Montagehilfe für Hohlwelle
  - Verschlusskappen (VK)
  - Verschlussdeckel (VD)
-



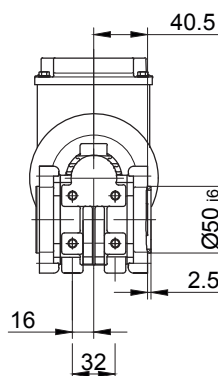
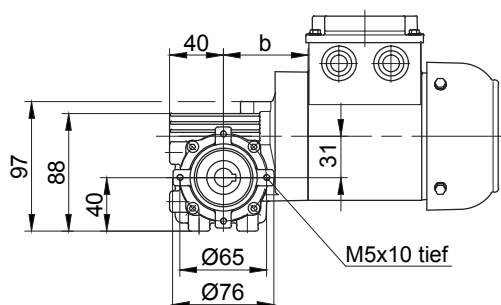
Drehmomentstütze vorne

Code -5.V/



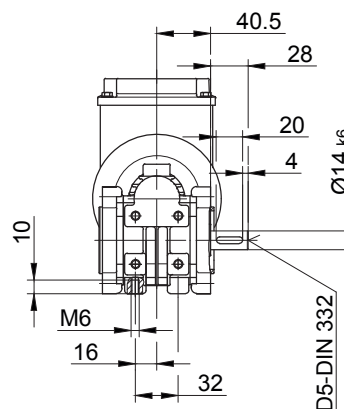
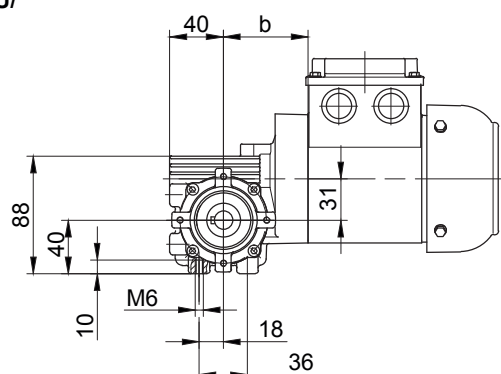
Flansch mit Gewindelöchern vorne

Code -7.V/



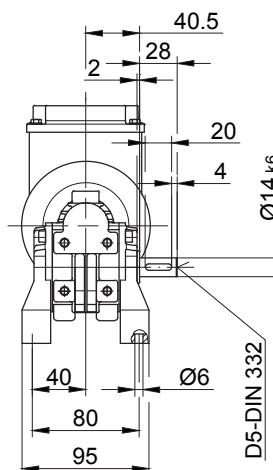
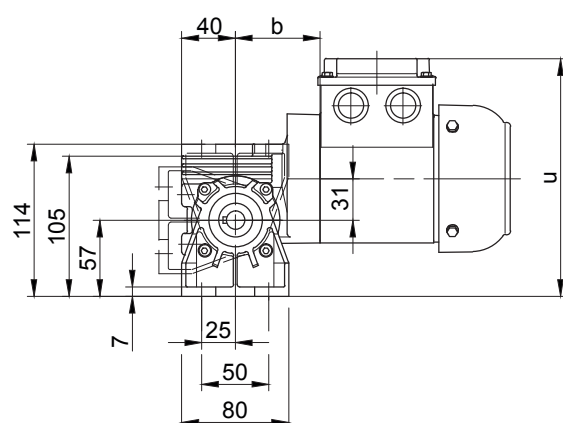
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

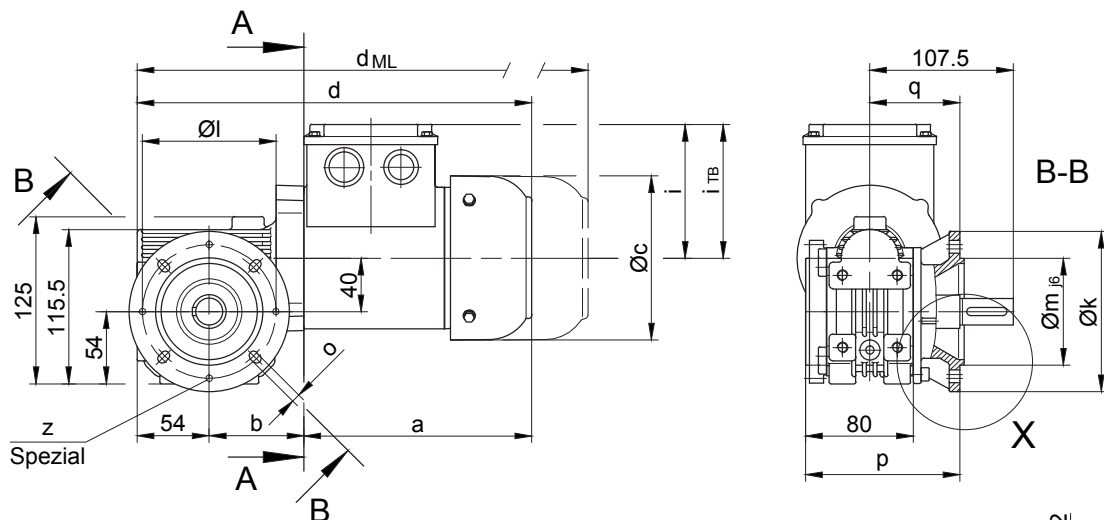
# Schnecken-Getriebemotoren Reihe BS

## Maßbild

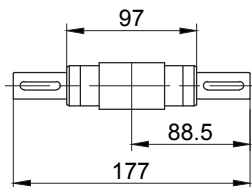
### BS03

Flansch mit Durchgangslöchern vorne

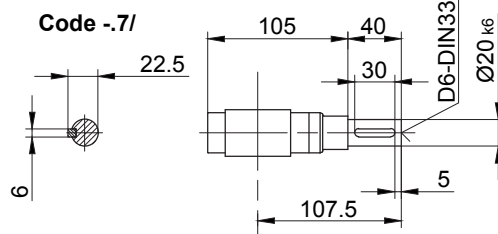
Code -3.V/



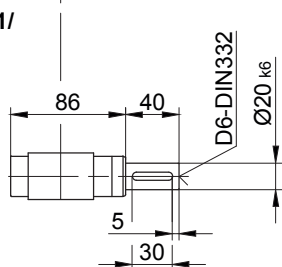
Code -3/



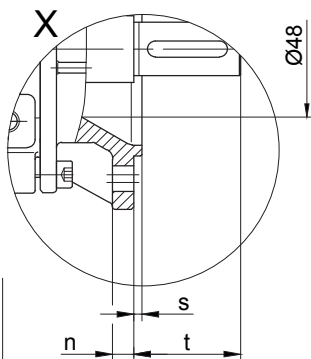
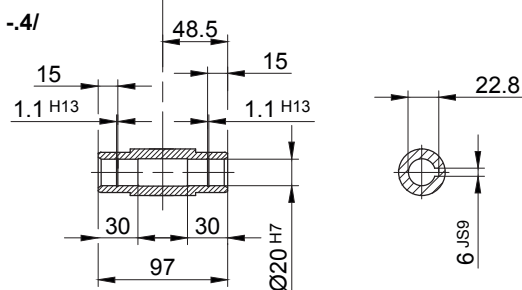
Code -7/



Code -1/



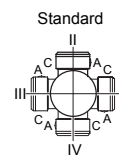
Code -4/



13

Flanschmasse

BS03	k	l	m	n	o	p	q	s	t	z
Standard -37V/	120	100	80	8	6.6	115	67.5	3	40	-
Spezial -37V/	120	100	80	8	6.6	115	67.5	3	40	4xM6



A-A

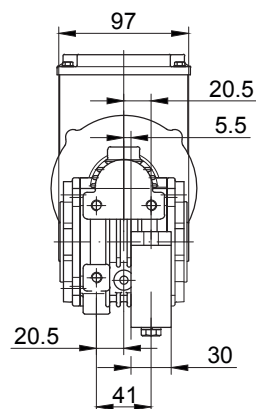
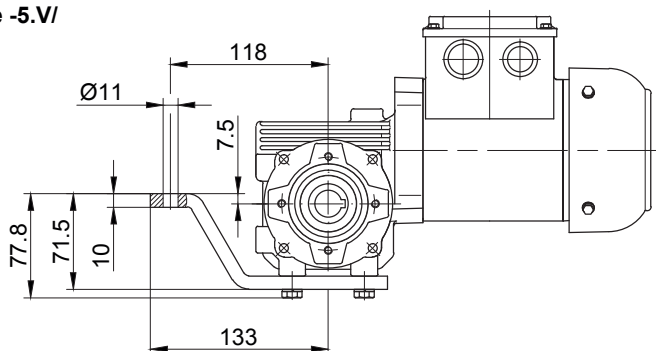
Typ	a	b	c	d	u	v	i	Ausführung mit Motoranbauten				
								i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BS03-../D05..	170	71	123	295	213	70	100	117	337	398	439.5	-
BS03-../D06..	170	71	123	295	213	70	100	119	337	398	439.5	-
BS03-../D07..	190	71	123	315	213	70	100	119	357	418	459.5	-
BS03-../D..08..	200	115	156	425	228	-	115	136.5	491	532	598.5	491

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



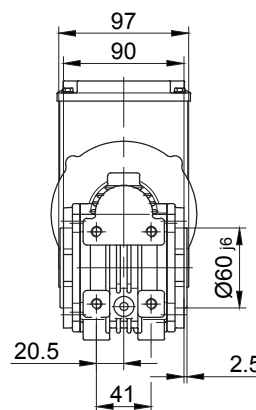
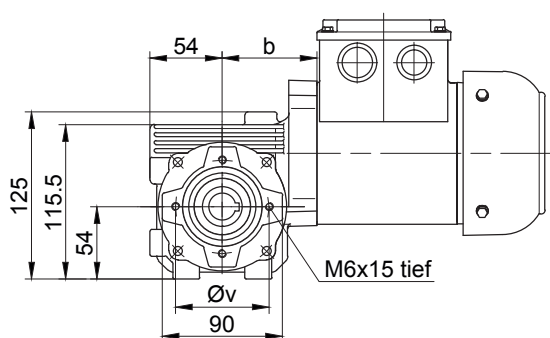
Drehmomentstütze vorne

Code -5.V/



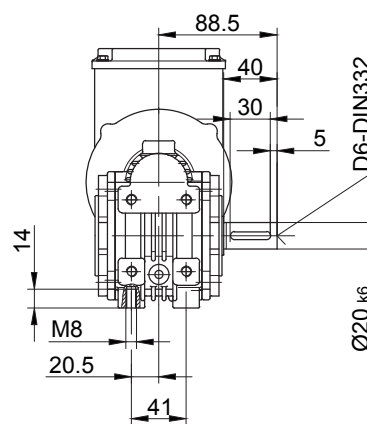
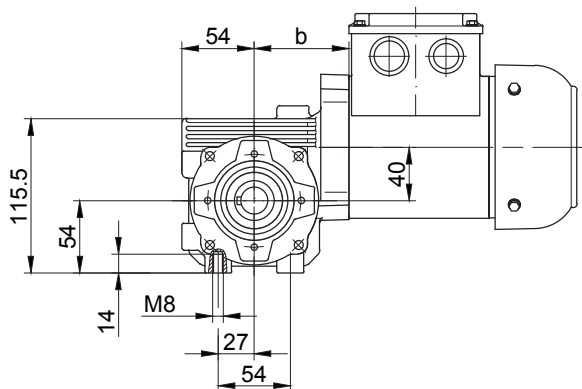
Flansch mit Gewindelöchern vorne

Code -7.V/



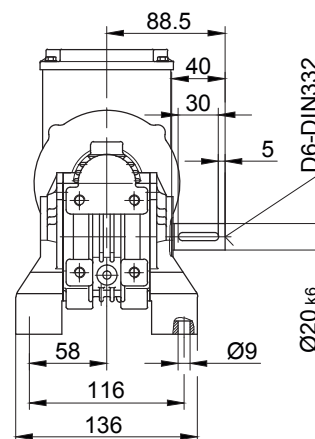
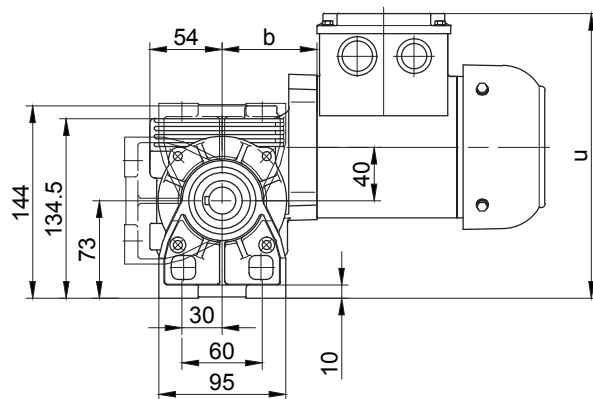
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



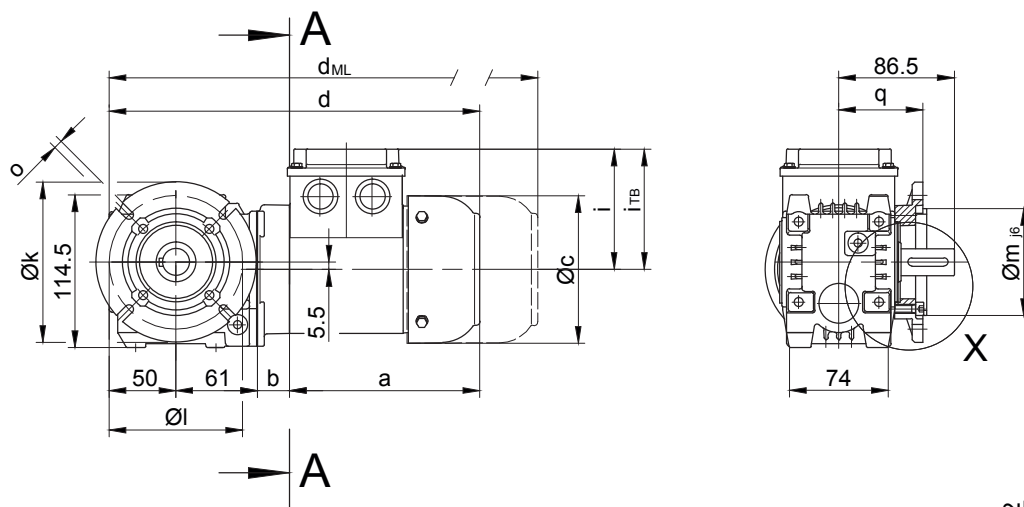
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Schnecken-Getriebemotoren Reihe BS

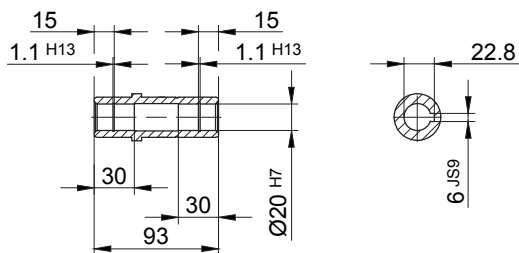
## Maßbild

### BS04

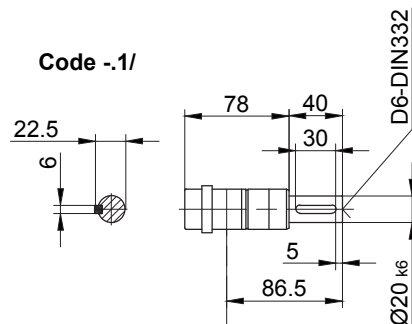
Flansch mit Durchgangslöchern vorne  
Code -3.V/



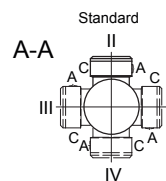
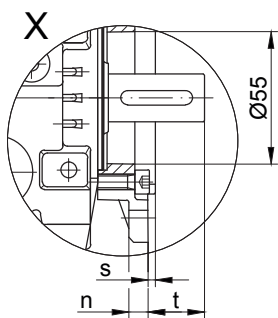
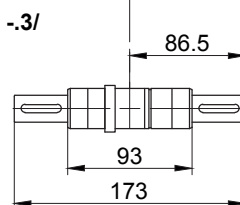
Code -4/



Code -1/



Code -3/



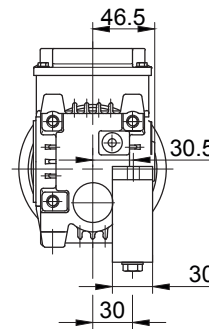
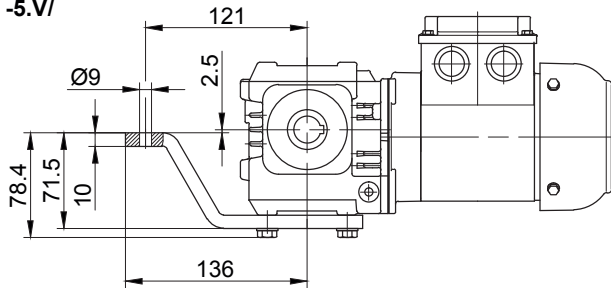
Flanschmasse

BS04	k	l	m	n	o	p	q	s	t
Standard -3.V/	120	100	80	8	6.6	110.5	63	3	23.5

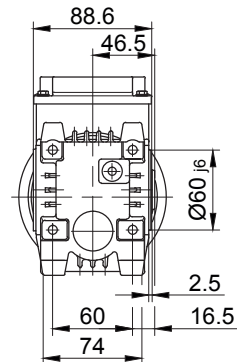
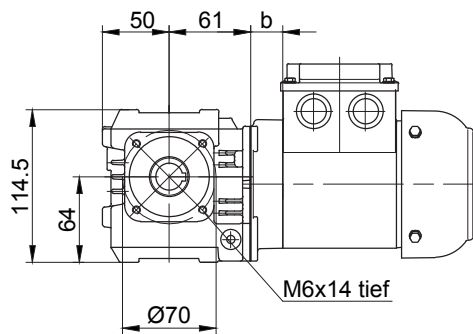
Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E..	G	E..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BS04-.../D04..	143	24	111	278	90	112	321.5	340.5	383.5	-
BS04-.../D05..	170	26	123	307	100	117	349	410	451.5	-
BS04-.../D06..	170	26	123	307	100	119	349	410	451.5	-
BS04-.../D07..	190	26	123	327	100	119	369	430	471.5	-

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

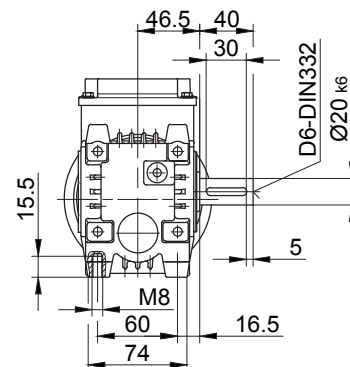
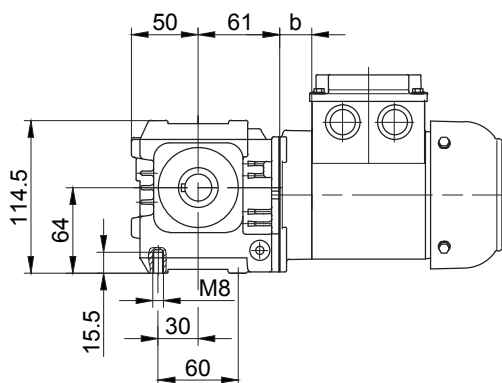
Drehmomentstütze vorne  
Code -5.V/



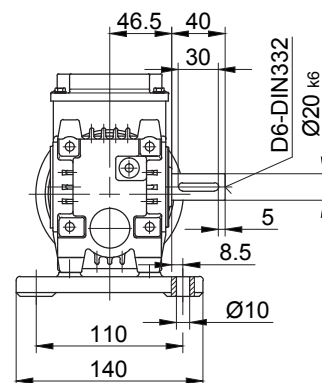
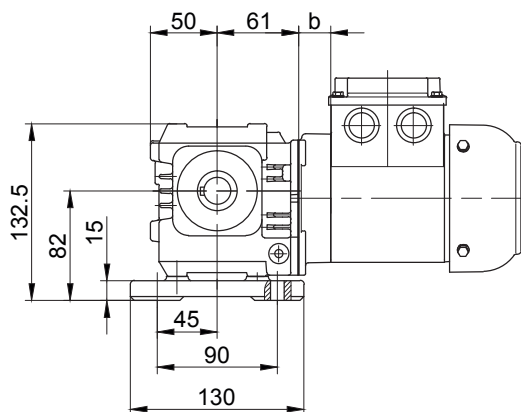
Flansch mit Gewindelöchern vorne  
Code -7.V/



Fuss mit Gewindelöchern unten  
Code -6.U/



Fuss mit Durchgangslöchern unten  
Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

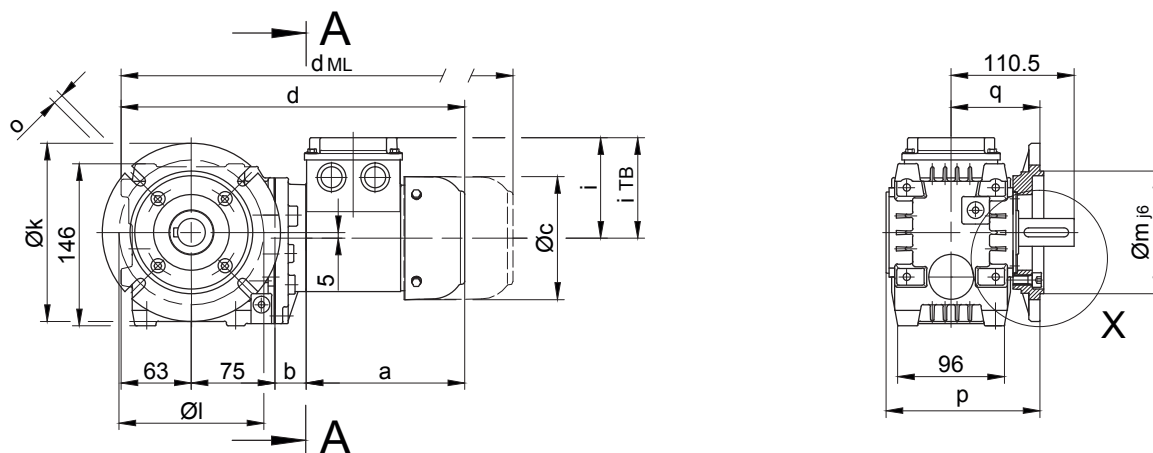
# Schnecken-Getriebemotoren Reihe BS

## Maßbild

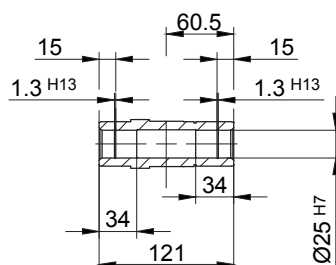
### BS06

Flansch mit Durchgangslöchern vorne

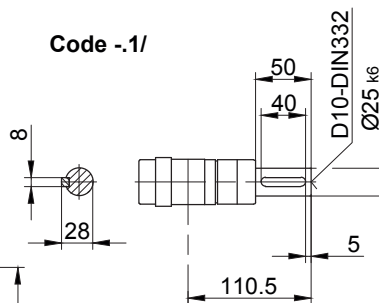
(Code -4.V/)



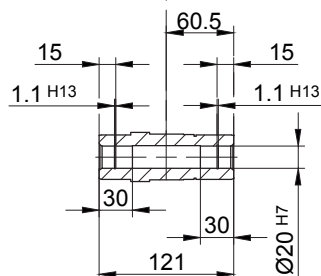
Code -4/  
Standard



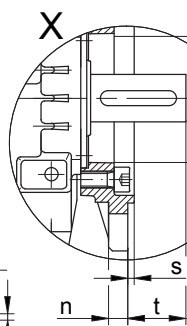
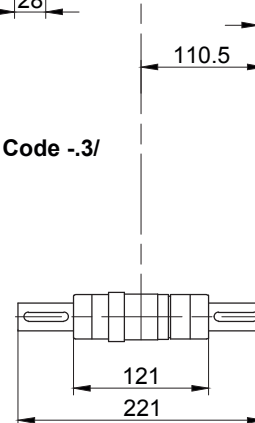
Code -1/



Code -4/K20

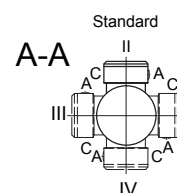


Code -3/



Flanschmasse

BS06	k	l	m	n	o	p	q	s	t
Standard -3.V/	140	115	95	10	9	138.5	80	3	30.5
gross -4.V/	160	130	110	10	9	138.5	80	3.5	30.5

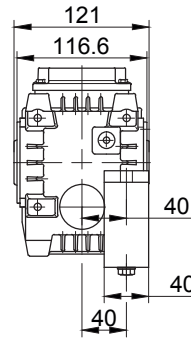
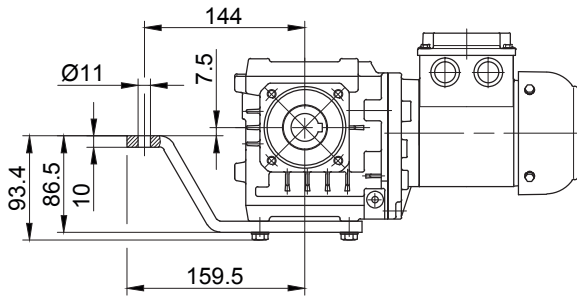


Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BS06-../D04..	143	28	111	309	90	112	352.5	371.5	414.5	-
BS06-../D05..	170	30	123	338	100	117	380	441	482.5	-
BS06-../D06..	170	30	123	338	100	119	380	441	482.5	-
BS06-../D07..	190	30	123	358	100	119	400	461	502.5	-
BS06-../D..08..	200	74	156	412	115	136.5	478	519	585.5	478

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

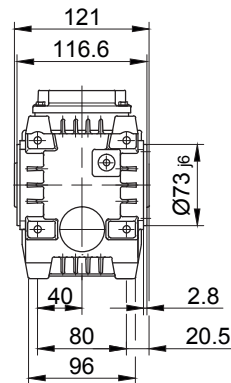
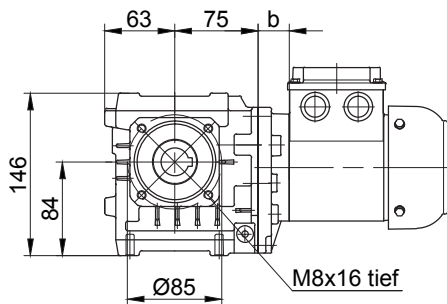
Drehmomentstütze vorne

Code -5.V/



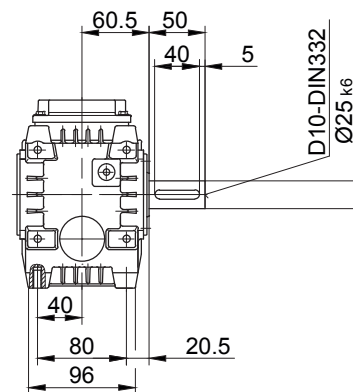
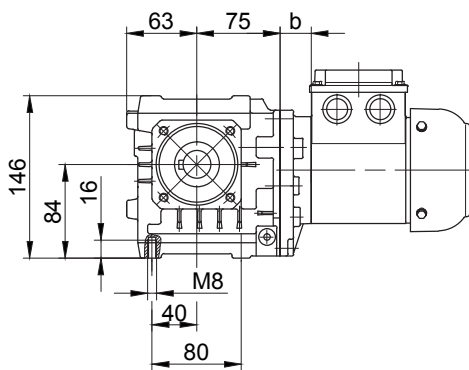
Flansch mit Gewindelöchern vorne

Code -7.V/



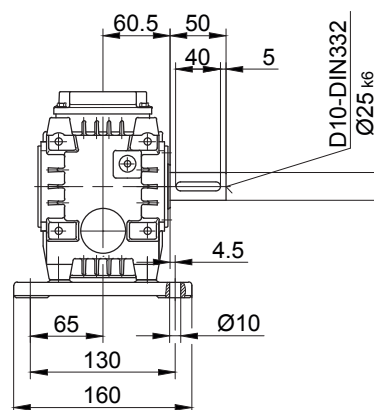
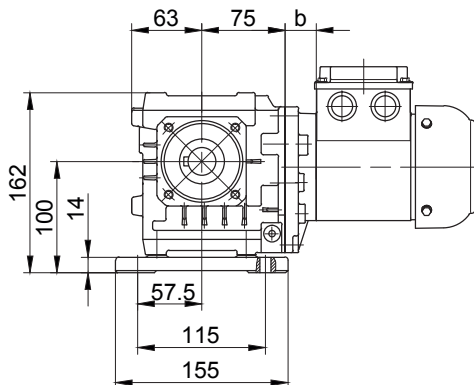
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Schnecken-Getriebemotoren Reihe BS

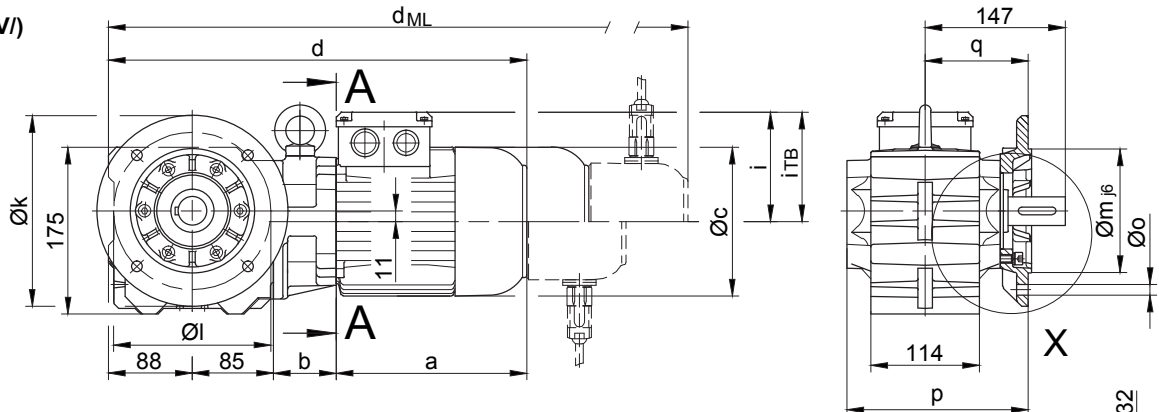
## Maßbild

### BS10 - BS10Z

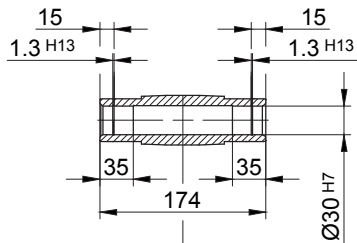
Flansch mit Durchgangslöchern vorne

Code -3.V/

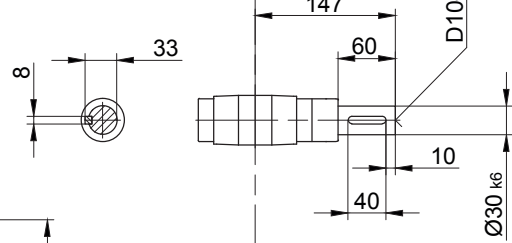
(Code -2.V/)



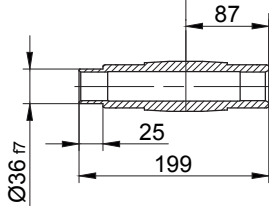
Code -4/



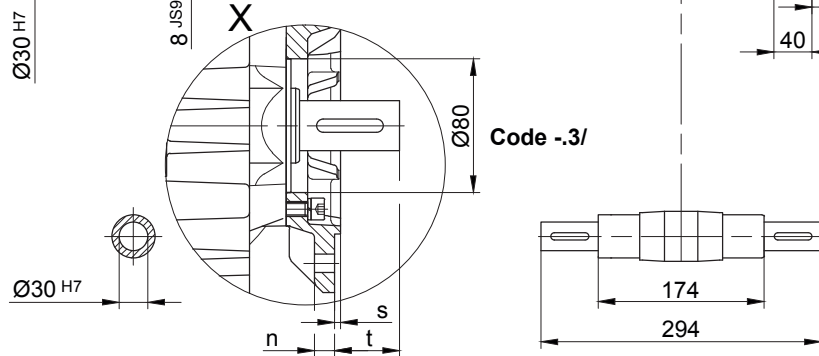
Code -1/



Code -5/

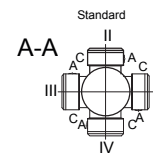


Code -3/



Flanschmasse

BS10(Z)	k	l	m	n	o	p	q	s	t
Standard -3.V/	200	165	130	12	11	190	108	3.5	39
klein -2.V/	160	130	110	10	9	183	101	3.5	46

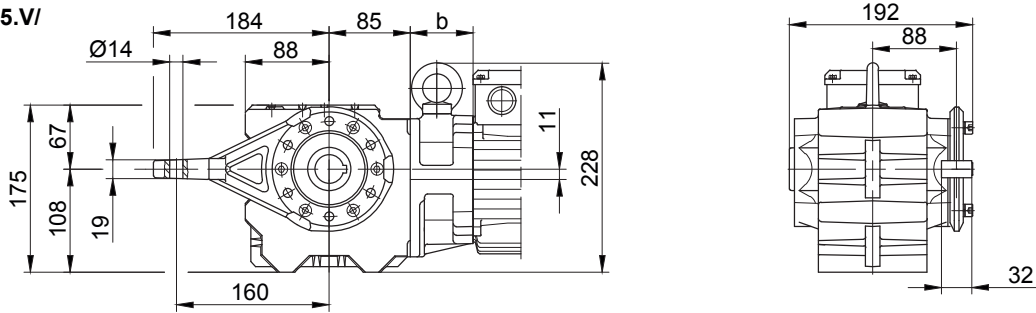


Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BS10Z-../D04..	143	86	111	402	90	112	445.5	464.5	507.5	-
BS10-../D05..	170	62	123	405	100	117	447	508	549.5	-
BS10Z-../D05..	170	88	123	431	100	117	473	534	575.5	-
BS10-../D06..	170	62	123	405	100	119	447	508	549.5	-
BS10Z-../D06..	170	88	123	431	100	119	473	534	575.5	-
BS10-../D07..	190	62	123	425	100	119	467	528	569.5	-
BS10Z-../D07..	190	88	123	451	100	119	493	554	595.5	-
BS10-../D..08..	200	66	156	439	115	136.5	505	546	612.5	505
BS10Z-../D..08..	200	132	156	505	115	136.5	571	612	678.5	571
BS10-../D..09..	251	80.5	181	504.5	124	158	597.5	611.5	702	597.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

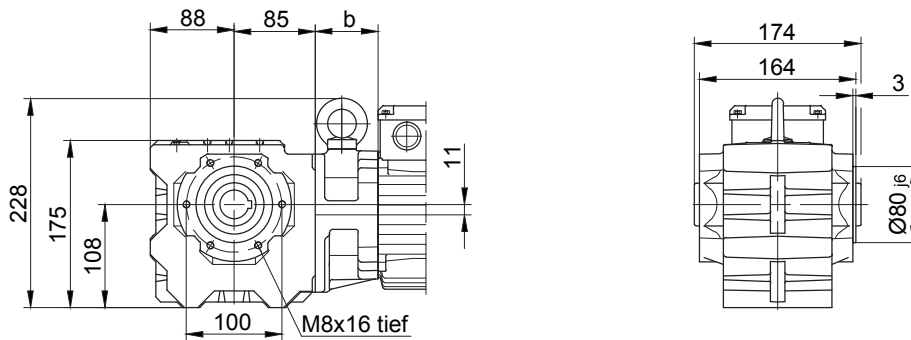
Drehmomentstütze vorne

Code -5.V/



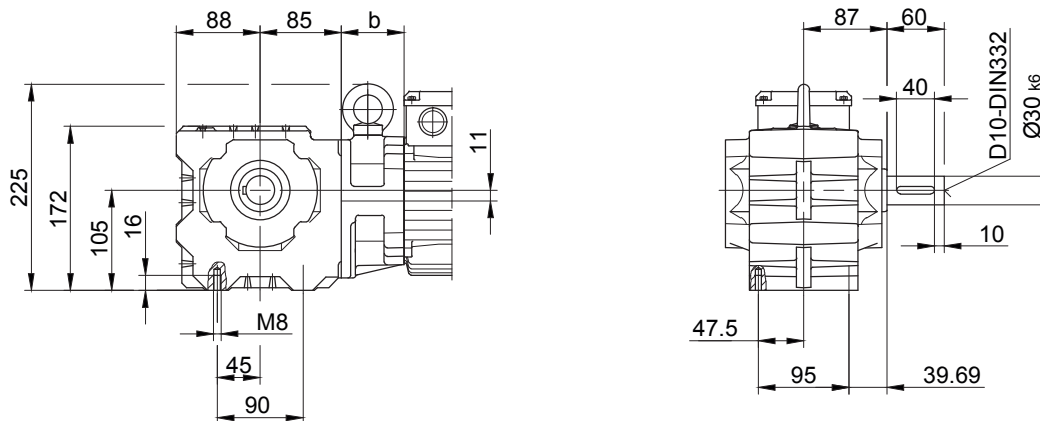
Flansch mit Gewindelöchern vorne

Code -7.V/



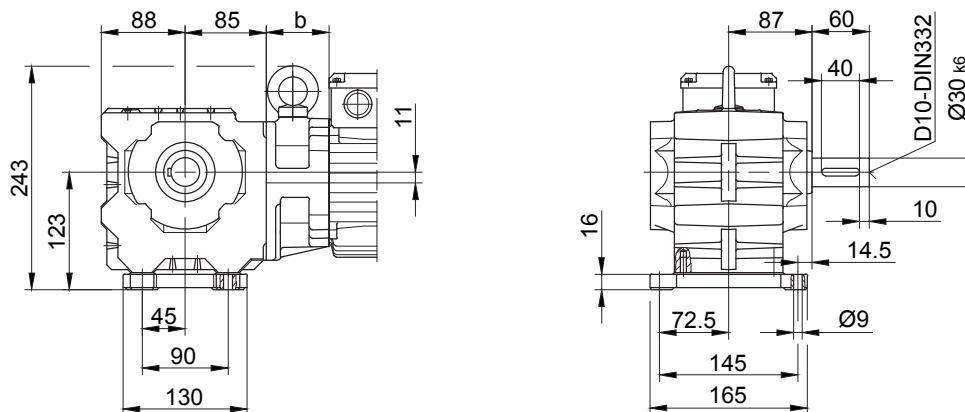
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Schnecken-Getriebemotoren Reihe BS

## Maßbild

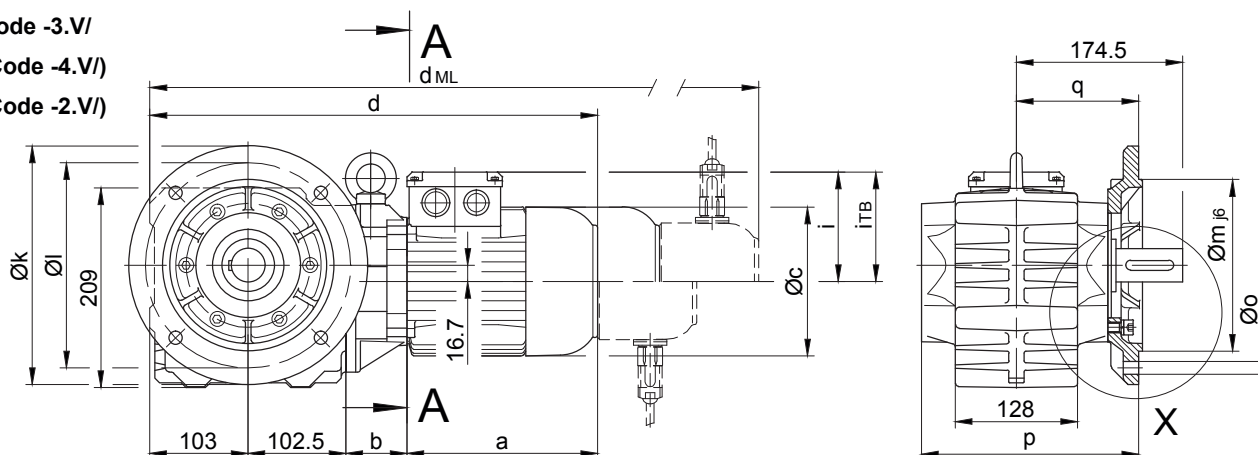
### BS20 - BS20Z

Flansch mit Durchgangslöchern vorne

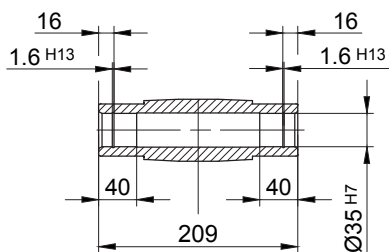
Code -3.V/

(Code -4.V/)

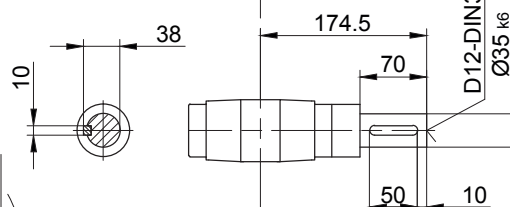
(Code -2.V/)



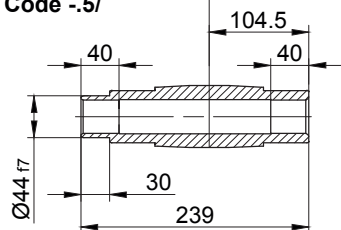
Code -4/



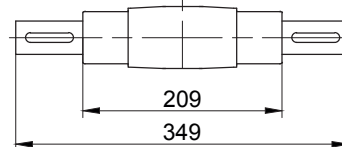
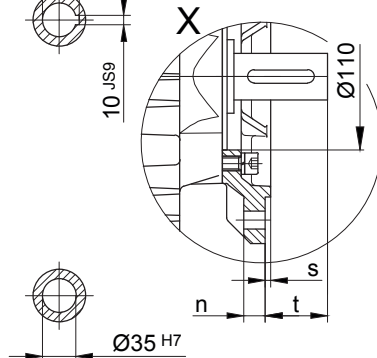
Code -1/



Code -5/

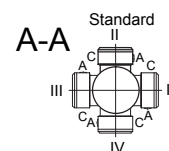


Code -3/



Flanschmasse

BS20(Z)	k	l	m	n	o	p	q	s	t
Standard -3.V/	250	215	180	16	13.5	227.5	128	4	46.5
klein -2.V/	200	165	130	12	11	224.5	125	3.5	49.5
gross -4.V/	300	265	230	20	13.5	233.5	134	4	40.5



Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BS20Z-../D04..	143	100	111	448.5	90	112	492	511	554	-
BS20-../D05..	170	60	123	435.5	100	117	477.5	538.5	580	-
BS20Z-../D05..	170	102	123	477.5	100	117	519.5	580.5	622	-
BS20-../D06..	170	60	123	435.5	100	119	477.5	538.5	580	-
BS20Z-../D06..	170	102	123	477.5	100	119	519.5	580.5	622	-
BS20-../D07..	190	60	123	455.5	100	119	497.5	558.5	600	-
BS20Z-../D07..	190	102	123	497.5	100	119	539.5	600.5	642	-
BS20-../D..08..	200	64	156	469.5	115	136.5	535.5	576.5	643	535.5
BS20Z-../D..08..	200	146	156	551.5	115	136.5	617.5	658.5	725	617.5
BS20-../D..09..	251	78.5	181	535	124	158	628	642	732.5	628

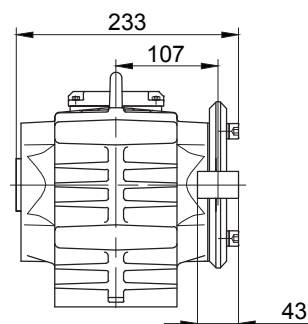
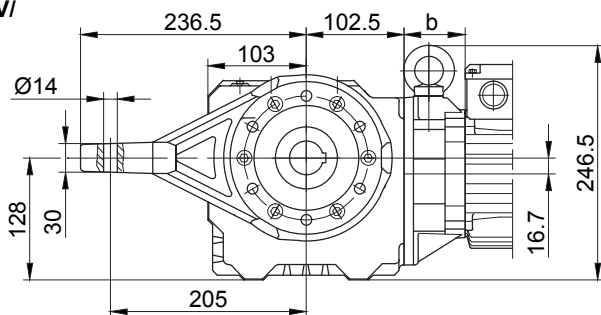
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



### BS20 - BS20Z

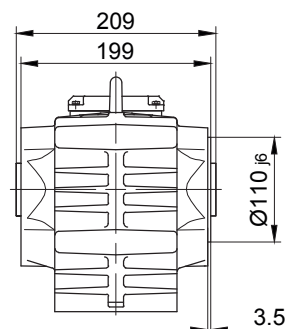
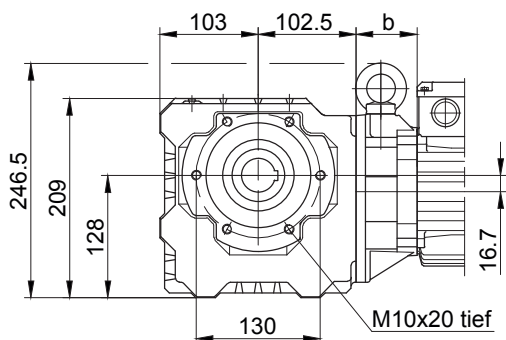
Drehmomentstütze vorne

Code -5.V/



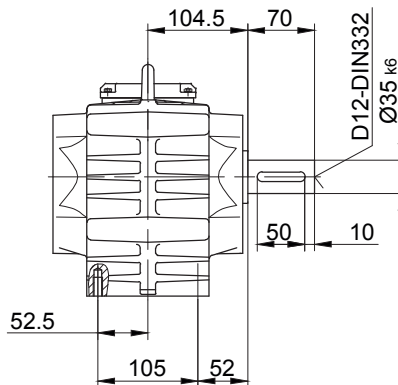
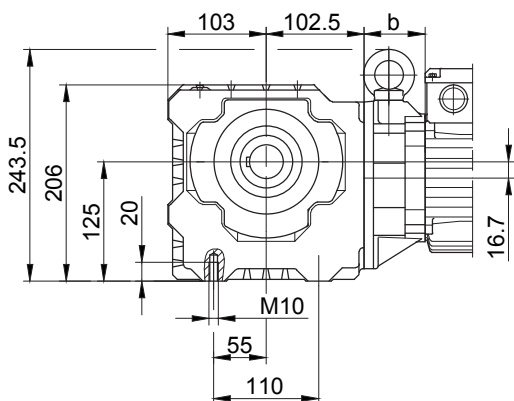
Flansch mit Gewindelöchern vorne

Code -7.V/



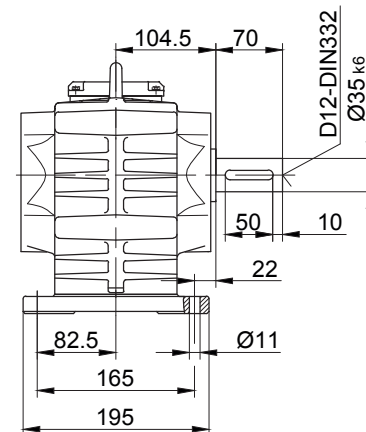
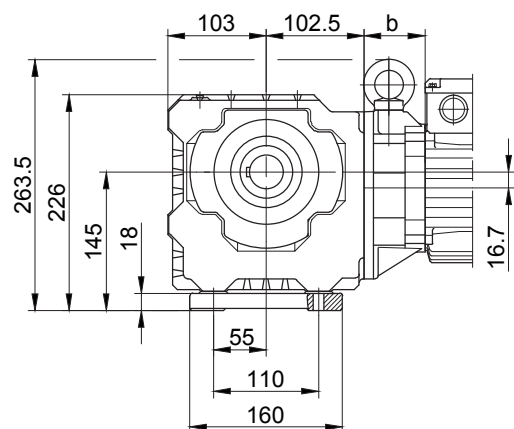
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Schnecken-Getriebemotoren Reihe BS

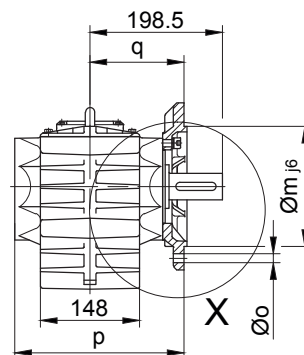
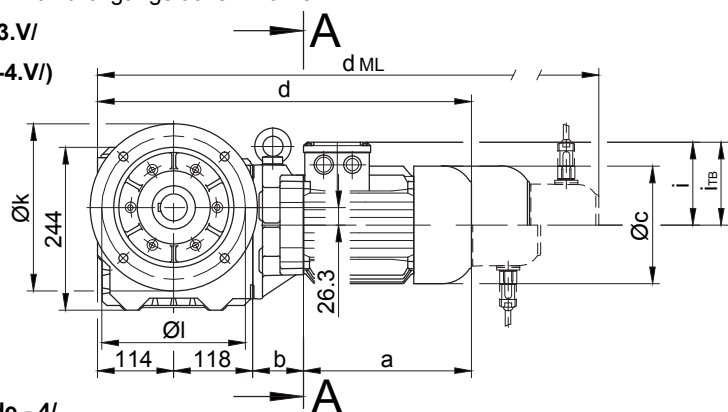
## Maßbild

### BS30 - BS30Z

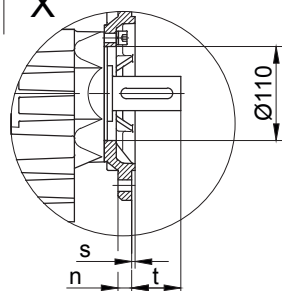
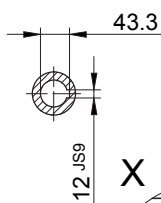
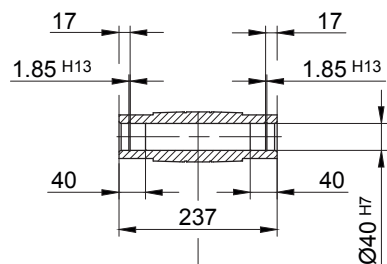
Flansch mit Durchgangslöchern vorne

Code -3.V/

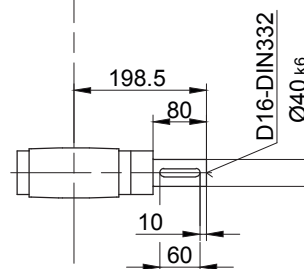
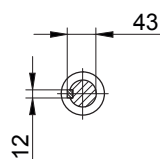
(Code -4.V/)



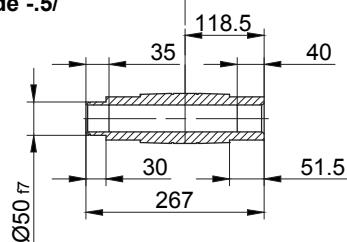
Code -4/



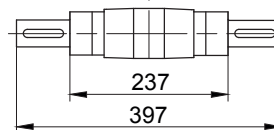
Code -1/



Code -5/

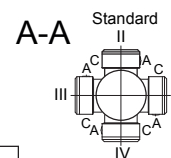


Code -3/



Flanschmasse

BS30(Z)	k	l	m	n	o	p	q	s	t
Standard -3.V/	250	215	180	16	13.5	253.5	141	4	57.5
gross -4.V/	300	265	230	20	13.5	259.5	147	4	51.5

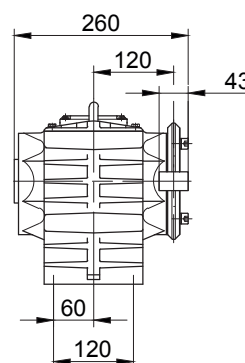
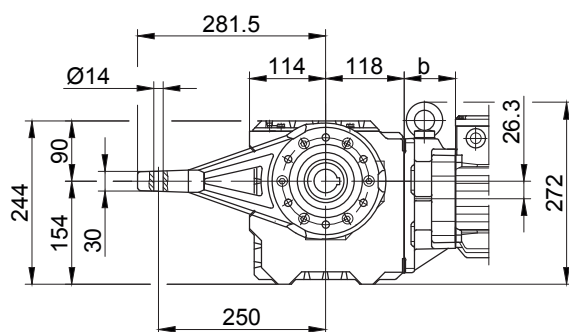


Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BS30-../D05..	170	58	123	460	100	117	502	563	604.5	-
BS30Z-../D05..	170	133.5	123	535.5	100	117	577.5	638.5	680	-
BS30-../D06..	170	58	123	460	100	119	502	563	604.5	-
BS30Z-../D06..	170	133.5	123	535.5	100	119	577.5	638.5	680	-
BS30-../D07..	190	58	123	480	100	119	522	583	624.5	-
BS30Z-../D07..	190	133.5	123	555.5	100	119	597.5	658.5	700	-
BS30-../D..08..	200	62	156	494	115	136.5	560	601	667.5	560
BS30Z-../D..08..	200	137.5	156	569.5	115	136.5	635.5	676.5	743	635.5
BS30-../D..09..	251	76.5	181	559.5	124	158	652.5	666.5	757	652.5
BS30Z-../D..09..	251	152	181	635	124	158	728	742	832.5	728
BS30-../D..11..	319	83	228	634	181	181	732	741	836.5	732

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

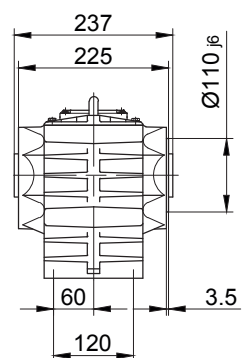
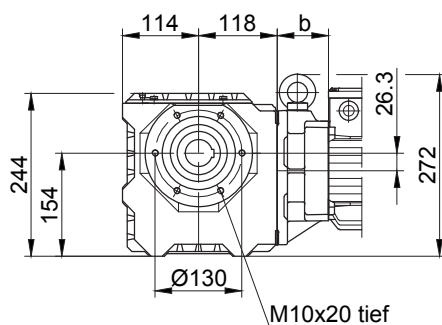
Drehmomentstütze vorne

Code -5.V/



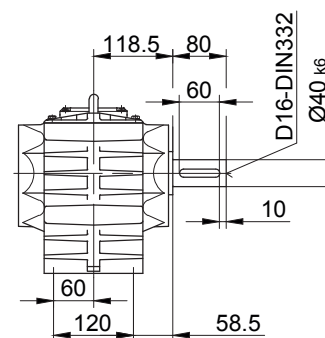
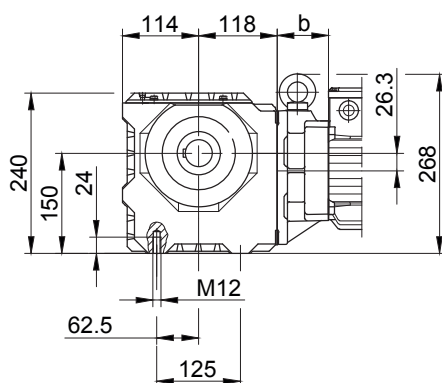
Flansch mit Gewindelöchern vorne

Code -7.V/



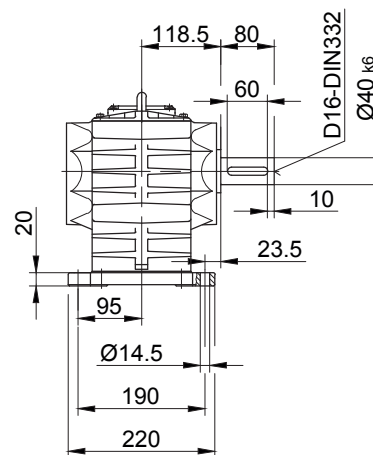
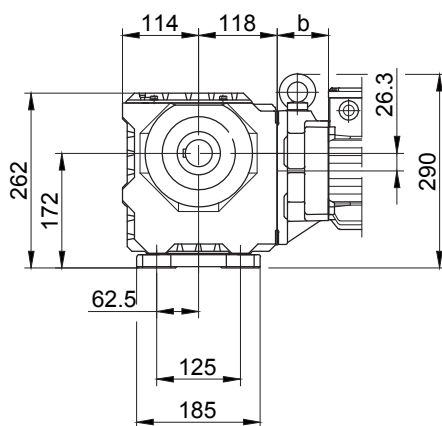
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

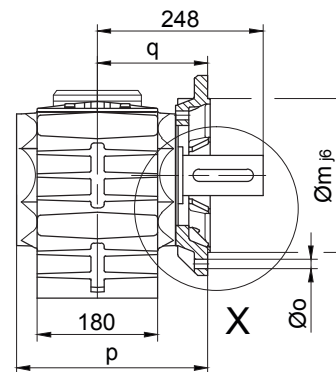
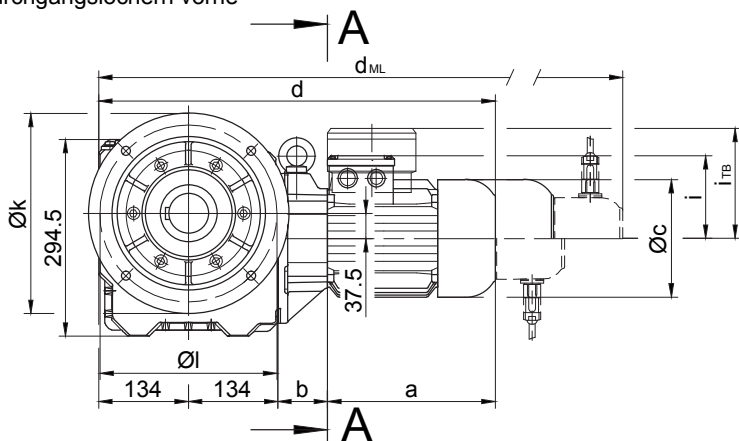
# Schnecken-Getriebemotoren Reihe BS

## Maßbild

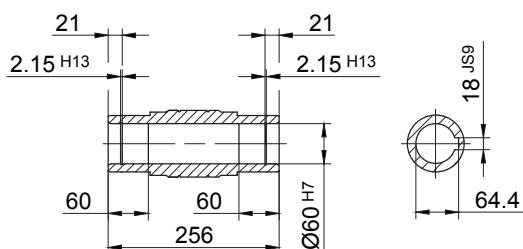
### BS40 - BS40Z

Flansch mit Durchgangslöchern vorne

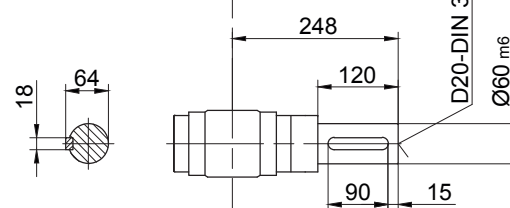
Code -3.V/



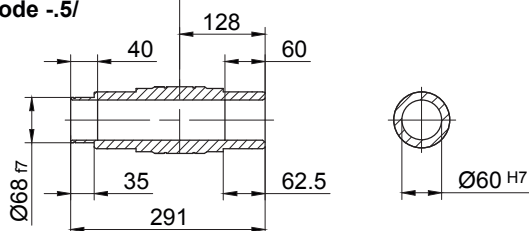
Code -4/



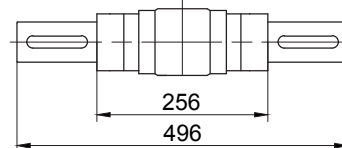
Code -1/



Code -5/

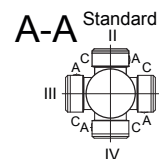


Code -3/



Flanschmasse

BS40(Z)	k	l	m	n	o	p	q	s	t
Standard -3.V/	300	265	230	20	13.5	286	165	4	83

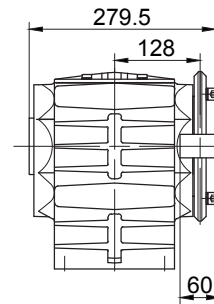
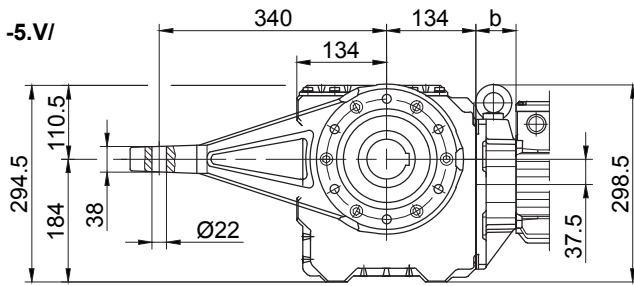


Typ	a	b	c	d	i	Ausführung mit Motoranbauten				
						i <sub>TB</sub>	E./ES..	G	E./ES..-G	RR/RL
						d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BS40Z-../D05..	170	138.5	123	576.5	100	117	618.5	679.5	721	-
BS40Z-../D06..	170	138.5	123	576.5	100	119	618.5	679.5	721	-
BS40Z-../D07..	190	138.5	123	596.5	100	119	638.5	699.5	741	-
BS40-../D..08..	200	60	156	528	115	136.5	594	635	701.5	594
BS40Z-../D..08..	200	142.5	156	610.5	115	136.5	676.5	717.5	784	676.5
BS40-../D..09..	251	74.5	181	593.5	124	158	686.5	700.5	791	686.5
BS40Z-../D..09..	251	157	181	676	124	158	769	783	873.5	769
BS40-../D..11..	319	81	228	668	181	181	766	775	870.5	766

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

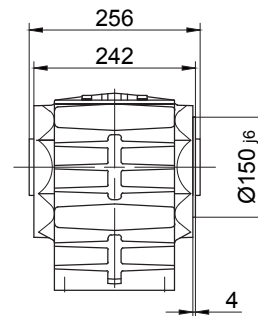
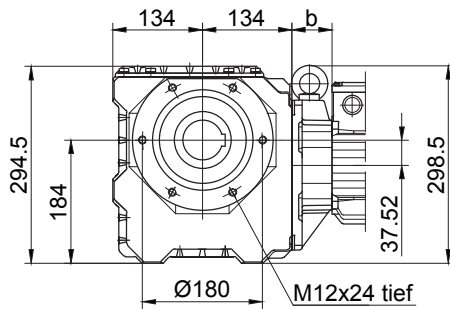
Drehmomentstütze vorne

Code -5.V/



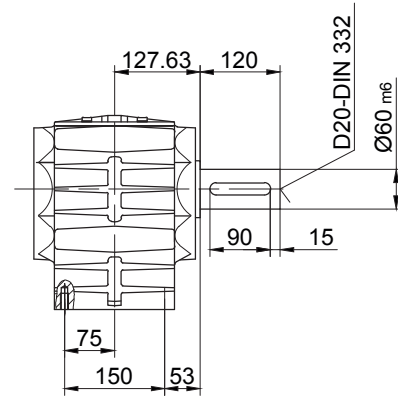
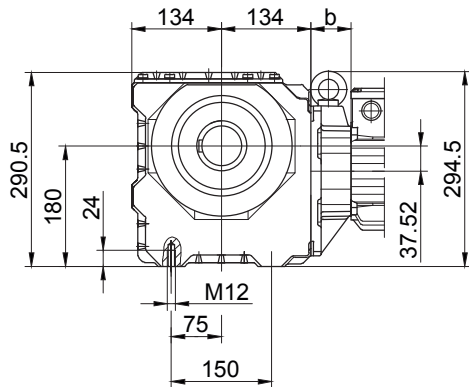
Flansch mit Gewindelöchern vorne

Code -7.V/



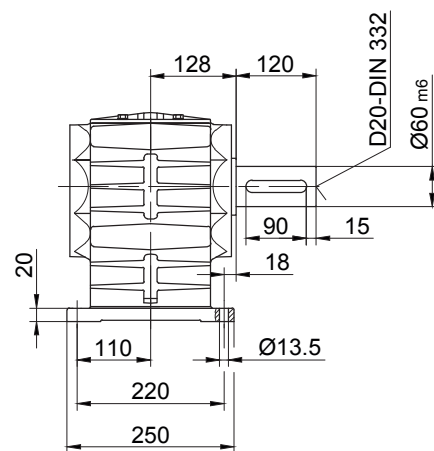
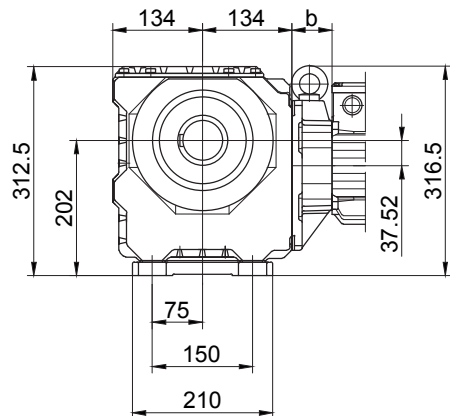
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

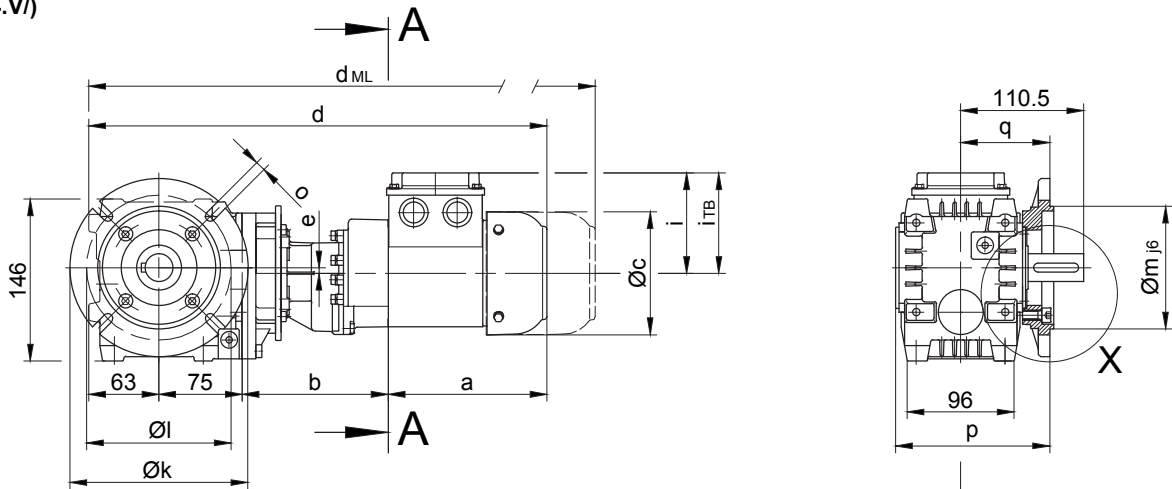
# Schnecken-Getriebemotoren Reihe BS

## Maßbild

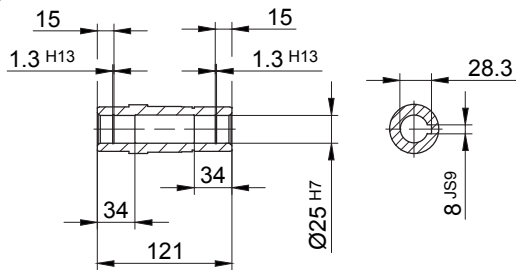
### BS06G04

Flansch mit Durchgangslöchern vorne

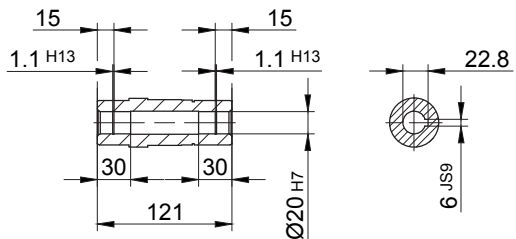
Code -3.V/  
(Code -4.V/)



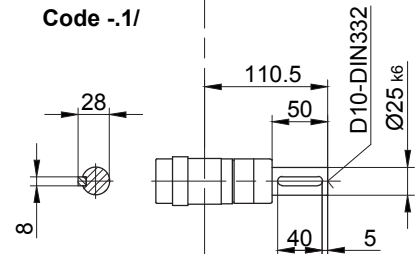
Code -4/  
Standard



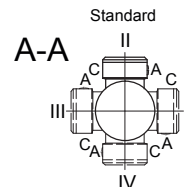
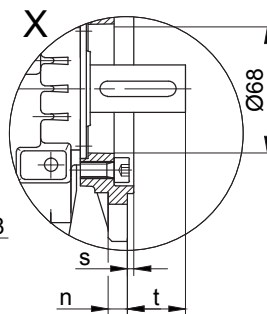
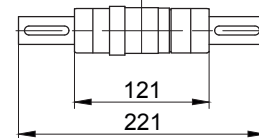
Code -4/K20



Code -1/



Code -3/



Flanschmasse

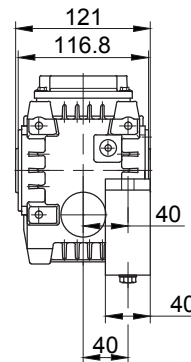
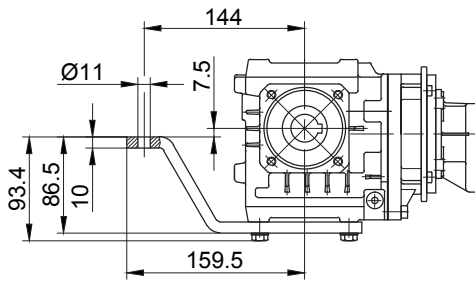
BS06	k	l	m	n	o	p	q	s	t
Standard -3.V/	140	115	95	10	9	138.5	80	3	30.5
gross -4.V/	160	130	110	10	9	138.5	80	3.5	30.5

Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E..	G	E..-G	RR/RL
							d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	
BS06G04-.../D04..	143	135	111	416	5	90	112	459.5	478.5	521.5	-

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

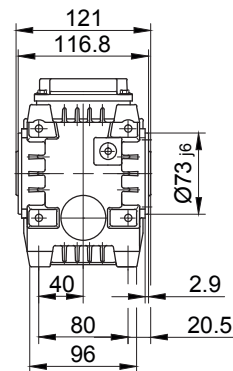
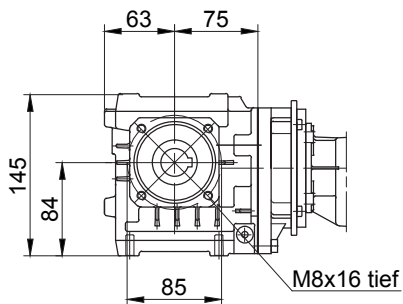
Drehmomentstütze vorne

Code -5.V/



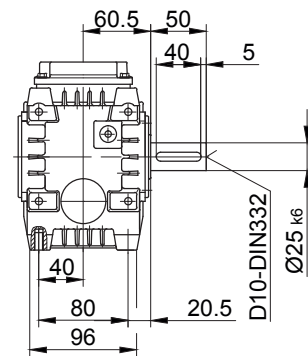
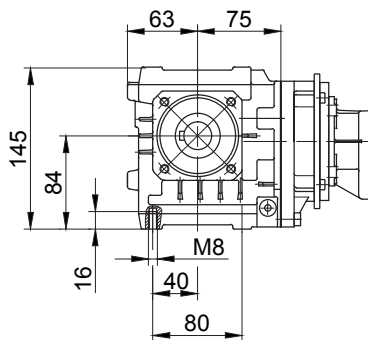
Flansch mit Gewindelöchern vorne

Code -7.V/



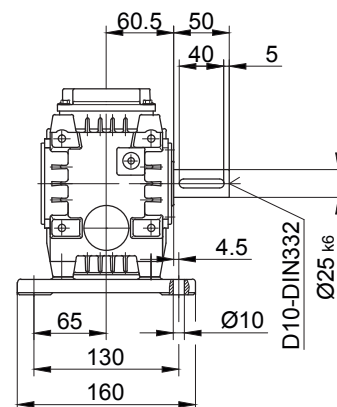
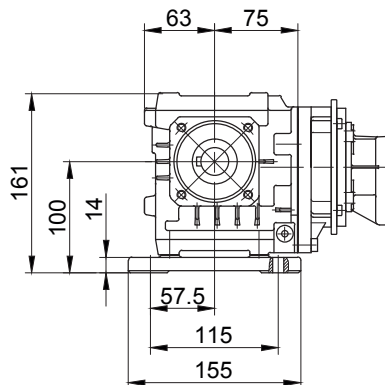
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Schnecken-Getriebemotoren Reihe BS

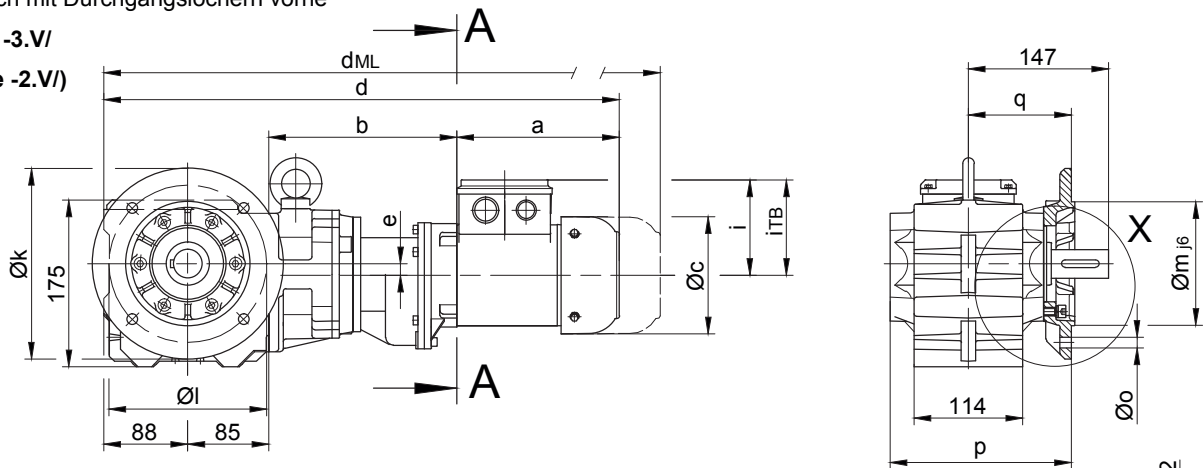
## Maßbild

### BS10G06

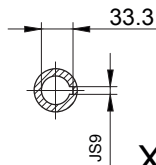
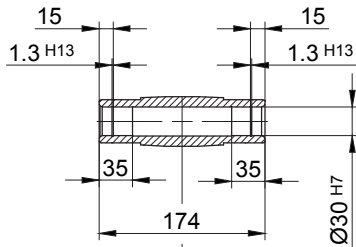
Flansch mit Durchgangslöchern vorne

Code -3.V/

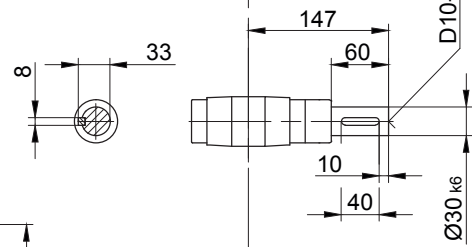
(Code -2.V/)



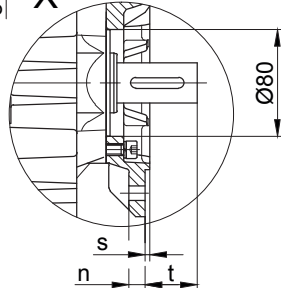
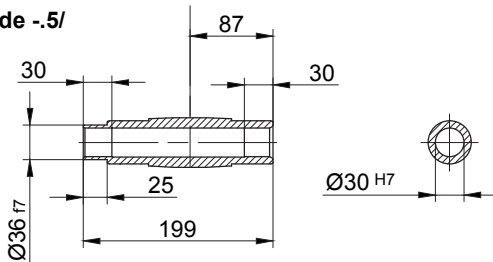
Code -4/



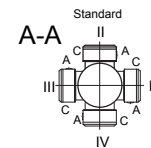
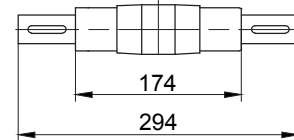
Code -1/



Code -5/



Code -3/



Flanschmasse

BS10G..	k	l	m	n	o	p	q	s	t
Standard -3.V/	200	165	130	12	11	190	108	3.5	39
klein -2.V/	160	130	110	10	9	183	101	3.5	46

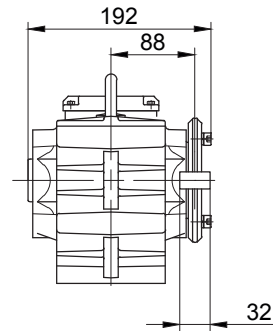
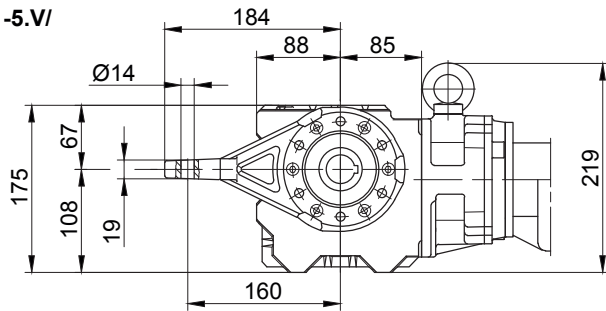
Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							$i_{TB}$	E./ES..	G	E./ES.-G	RR/RL
								$d_{ML}$	$d_{ML}$	$d_{ML}$	$d_{ML}$
BS10G06-../D04..	143	195	111	511	12	90	112	554.5	573.5	616.5	-
BS10G06-../D05..	170	197	123	540	12	100	117	582	643	684.5	-
BS10G06-../D06..	170	197	123	540	12	100	119	582	643	684.5	-
BS10G06-../D07..	190	197	123	560	12	100	119	602	663	704.5	-
BS10G06-../D..08..	200	241	156	614	12	115	136.5	680	721	787.5	680

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



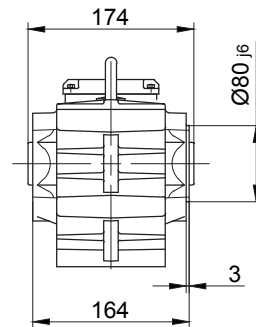
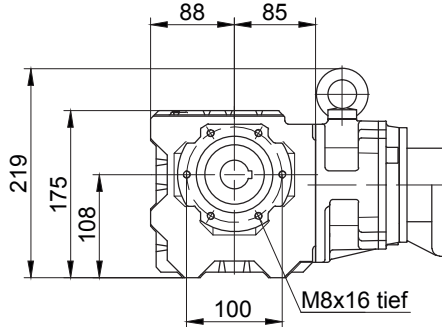
Drehmomentstütze vorne

Code -5.V/



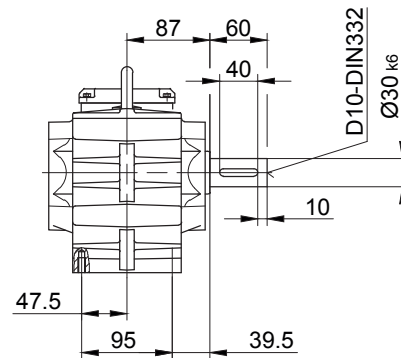
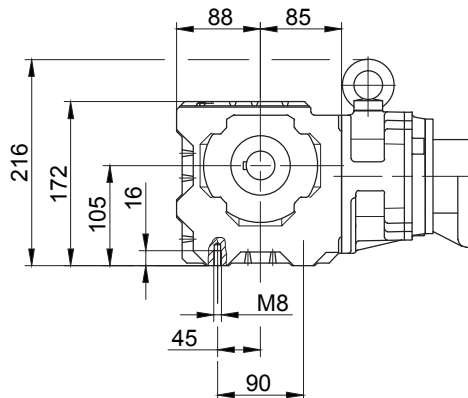
Flansch mit Gewindelöchern vorne

Code -7.V/



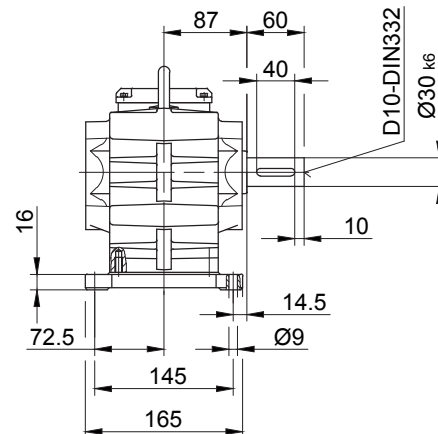
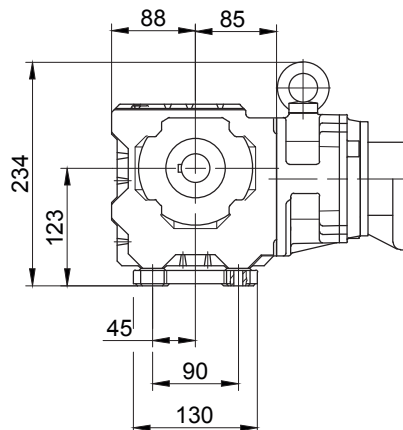
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Schnecken-Getriebemotoren Reihe BS

## Maßbild

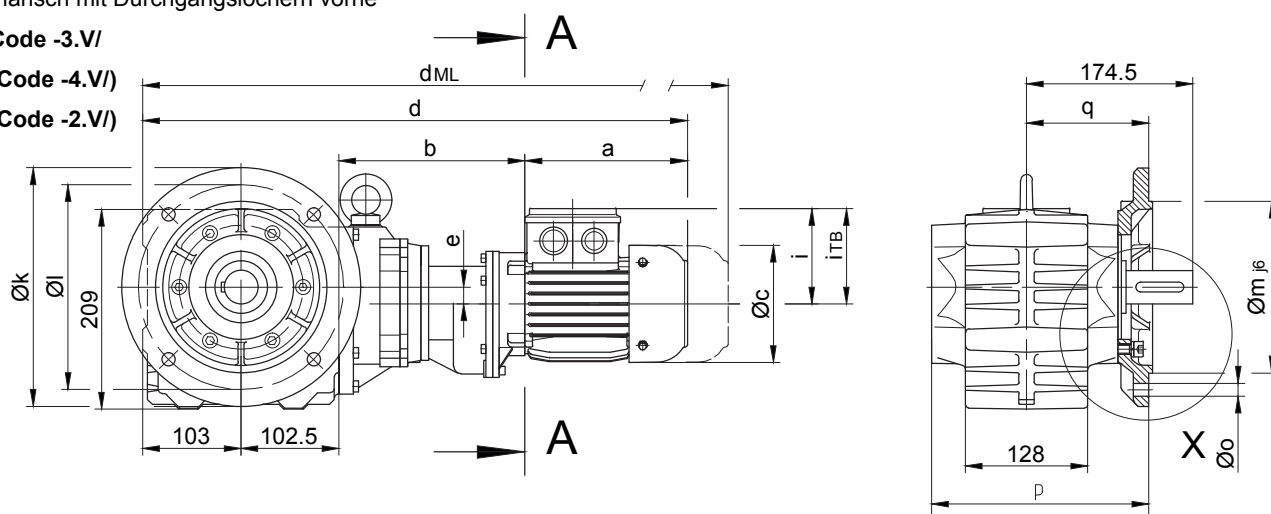
### BS20G06

Flansch mit Durchgangslöchern vorne

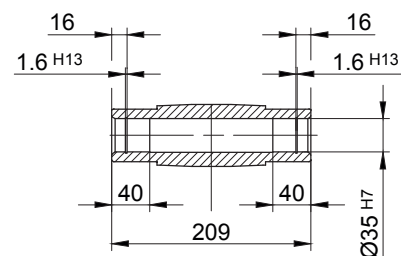
Code -3.V/

(Code -4.V/)

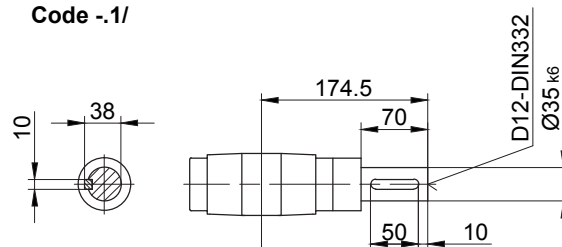
(Code -2.V/)



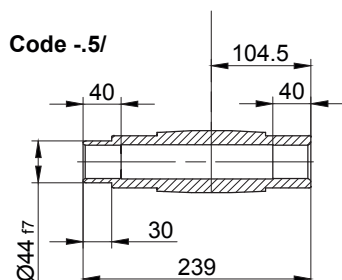
Code -4/



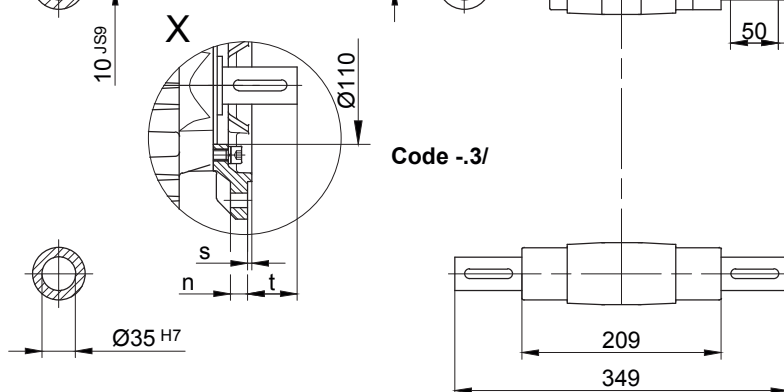
Code -1/



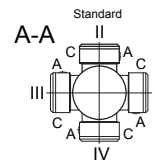
Code -5/



Code -3/



Flanschmasse



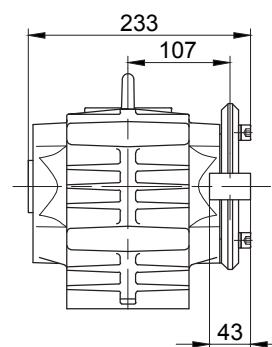
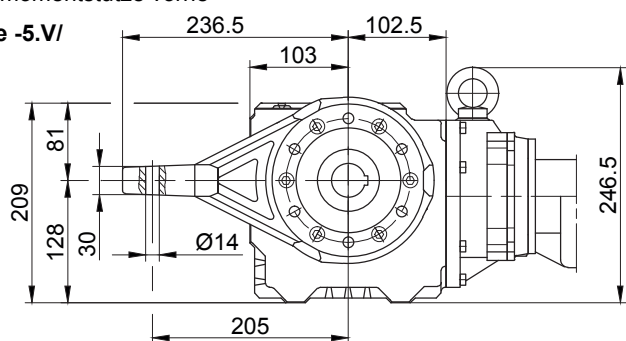
BS20G..	k	l	m	n	o	p	q	s	t
Standard -3.V/	250	215	180	16	13.5	227.5	128	4	46.5
klein -2.V/	200	165	130	12	11	224.5	125	3.5	49.5
gross -4.V/	300	265	230	20	13.5	233.5	134	4	40.5

Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	ES../ZS..	G	ES../ZS..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BS20G06-../D04..	143	193	111	541.5	18	90	112	585	604	647	-
BS20G06-../D05..	170	195	123	570.5	18	100	117	612.5	673.5	715	-
BS20G06-../D06..	170	195	123	570.5	18	100	119	612.5	673.5	715	-
BS20G06-../D07..	190	195	123	590.5	18	100	119	632.5	693.5	735	-
BS20G06-../D..08..	200	239	156	644.5	18	115	136.5	710.5	751.5	818	710.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

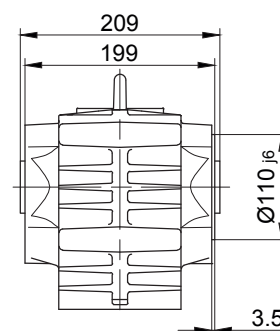
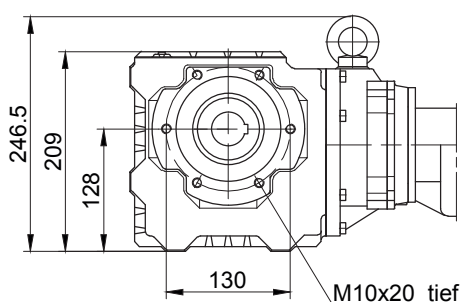
Drehmomentstütze vorne

Code -5.V/



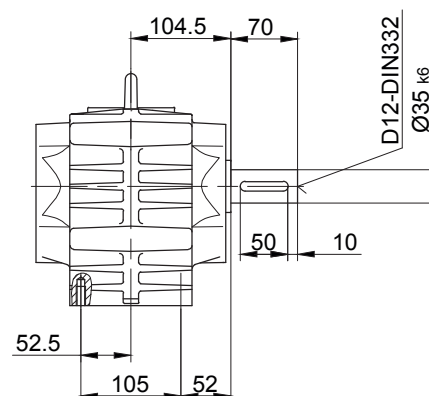
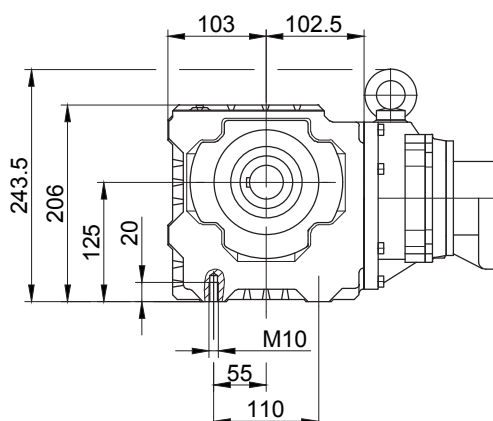
Flansch mit Gewindelöchern vorne

Code -7.V/



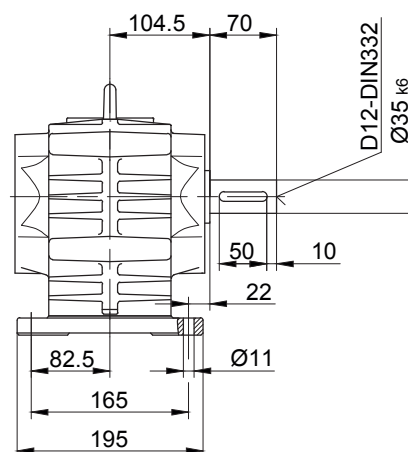
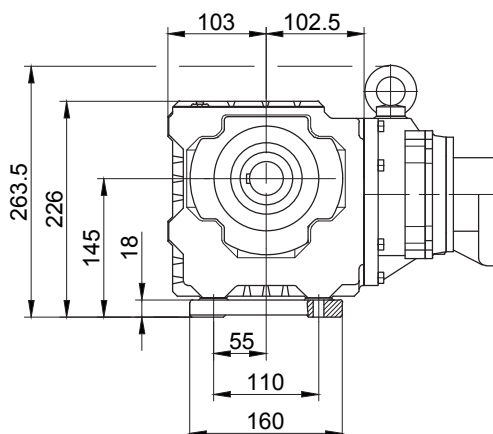
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Schnecken-Getriebemotoren Reihe BS

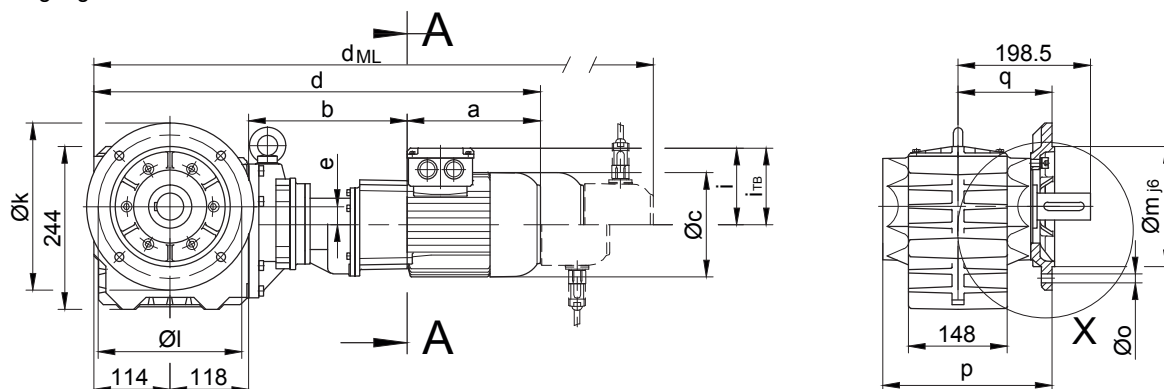
## Maßbild

### BS30G06

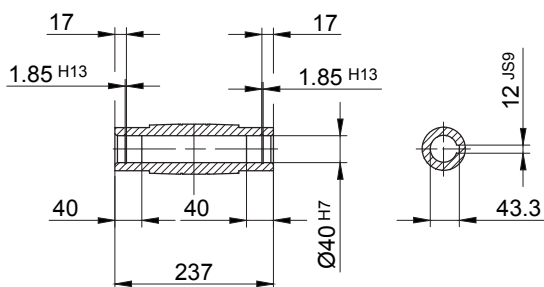
Flansch mit Durchgangslöchern vorne

Code -3.V/

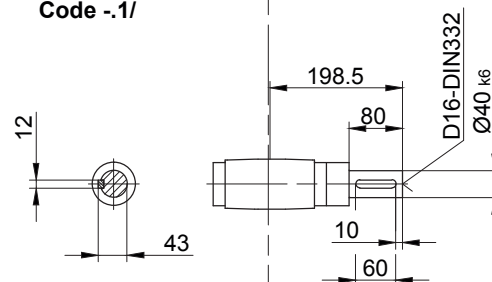
(Code -4.V/)



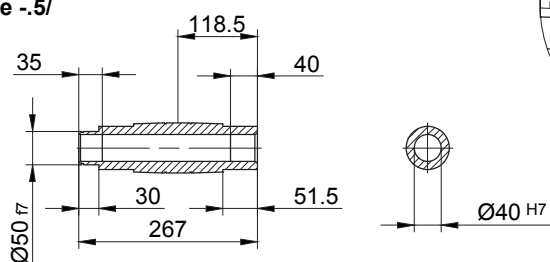
Code -4/



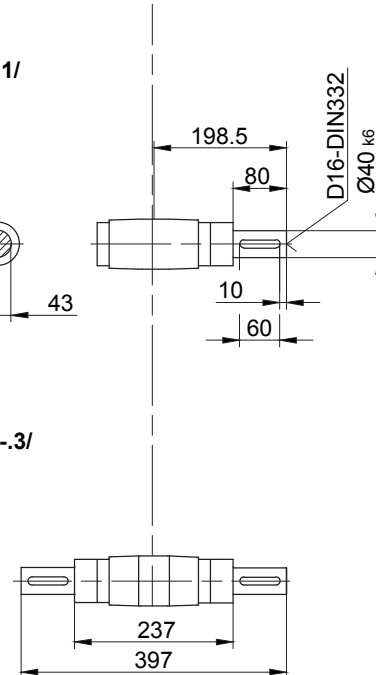
Code -1/



Code -5/

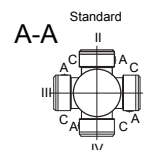


Code -3/



13

Flanschmasse



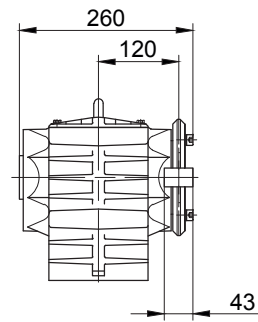
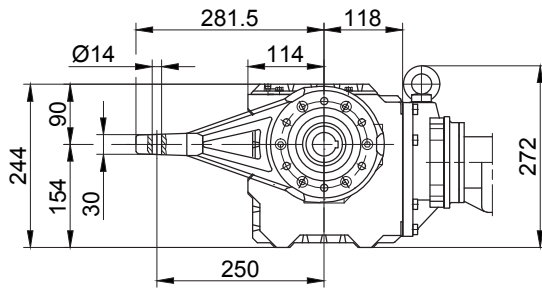
BS30G..	k	l	m	n	o	p	q	s	t
Standard -3.V/	250	215	180	16	13.5	253.5	141	4	57.5
gross -4.V/	300	265	230	20	13.5	259.5	147	4	51.5

Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							$i_{TB}$	E./ES..	G	E./ES..-G	RR/RL
							$d_{ML}$	$d_{ML}$	$d_{ML}$	$d_{ML}$	
BS30G06-../D04..	143	191	111	566	27	90	112	609.5	628.5	671.5	-
BS30G06-../D05..	170	193	123	595	27	100	117	637	698	739.5	-
BS30G06-../D06..	170	193	123	595	27	100	119	637	698	739.5	-
BS30G06-../D07..	190	193	123	615	27	100	119	657	718	759.5	-
BS30G06-../D..08..	200	237	156	669	27	115	136.5	735	776	842.5	735

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

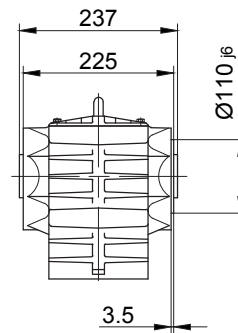
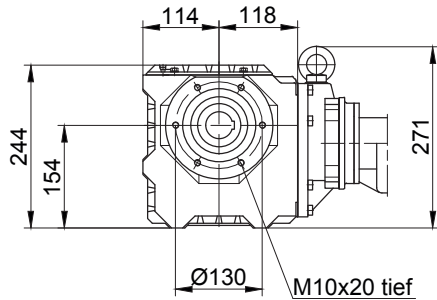
Drehmomentstütze vorne

Code -5.V/



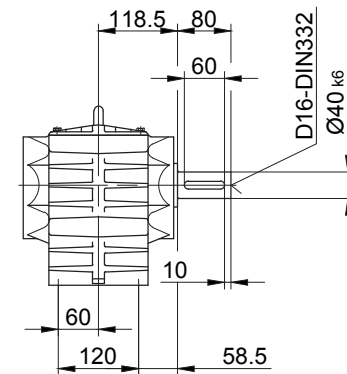
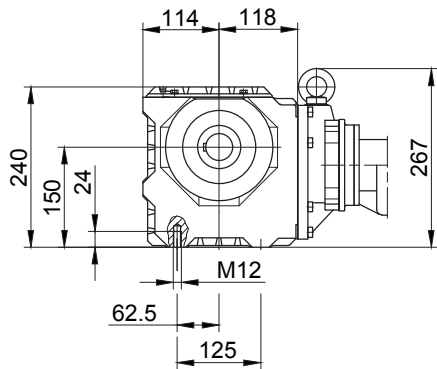
Flansch mit Gewindelöchern vorne

Code -7.V/



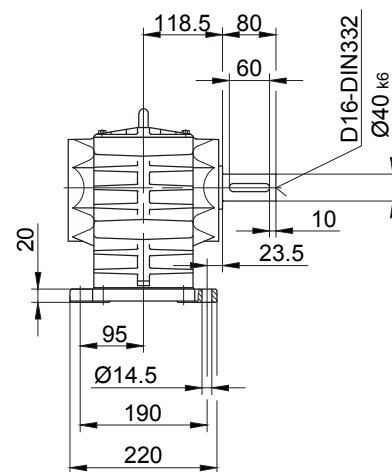
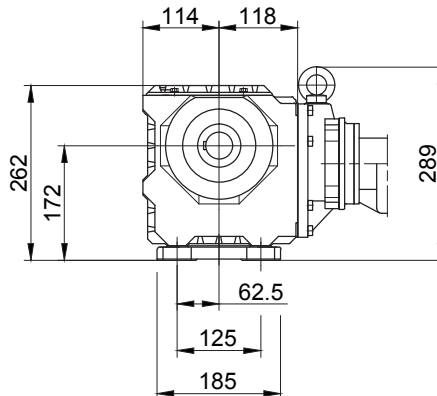
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

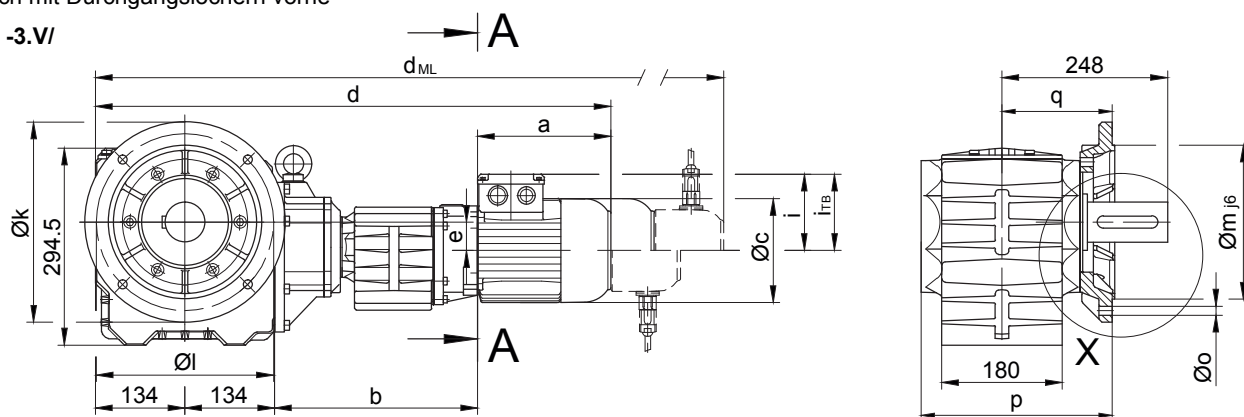
# Schnecken-Getriebemotoren Reihe BS

## Maßbild

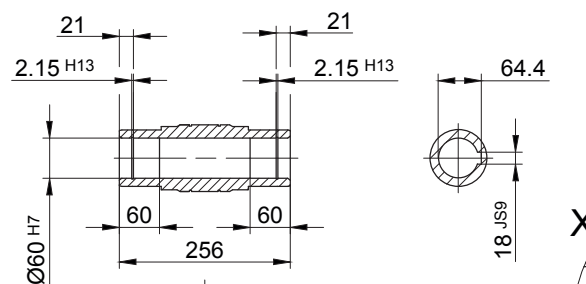
### BS40G10

Flansch mit Durchgangslöchern vorne

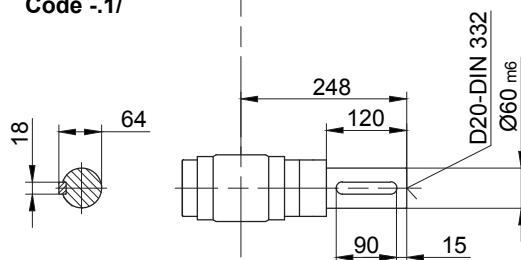
Code -3.V/



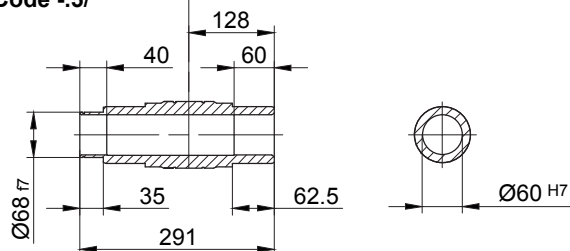
Code -4/



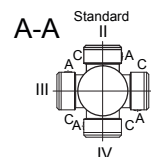
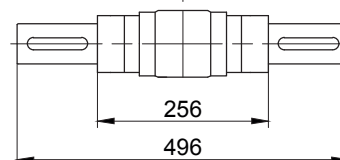
Code -1/



Code -5/



Code -3/



Flanschmasse

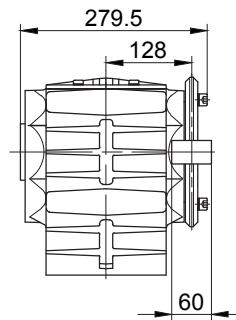
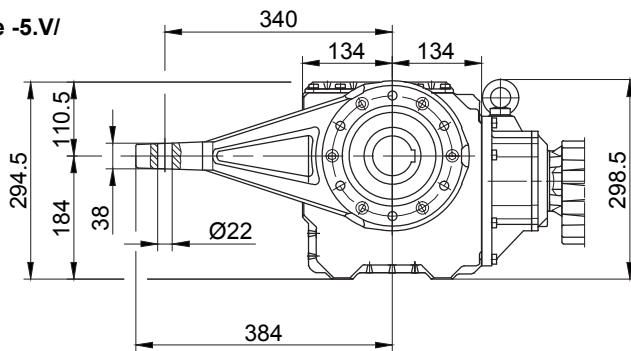
BS40G..	k	l	m	n	o	p	q	s	t
Standard -3.V/	300	265	230	20	13.5	286	165	4	83

Typ	a	b	c	d	e	i	Ausführung mit Motoranbauten				
							i <sub>TB</sub>	E../ES..	G	E../ES..-G	RR/RL
								d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>	d <sub>ML</sub>
BS40G10-../D05..	170	300	123	738	43	100	117	780	841	882.5	-
BS40G10-../D06..	170	300	123	738	43	100	119	780	841	882.5	-
BS40G10-../D07..	190	300	123	758	43	100	119	800	861	902.5	-
BS40G10-../D..08..	200	304	156	772	43	115	136.5	838	879	945.5	838
BS40G10-../D..09..	251	318.5	181	837.5	43	124	158	930.5	944.5	1035	930.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

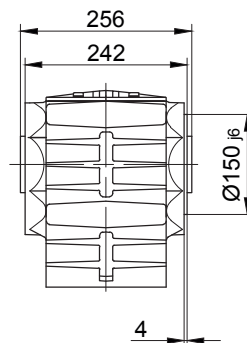
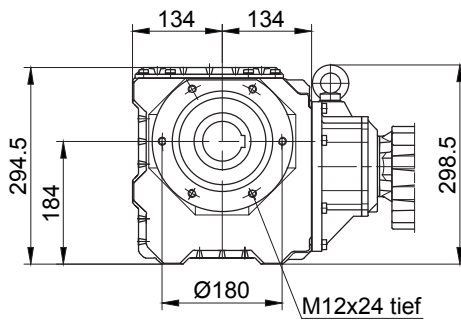
Drehmomentstütze vorne

Code -5.V/



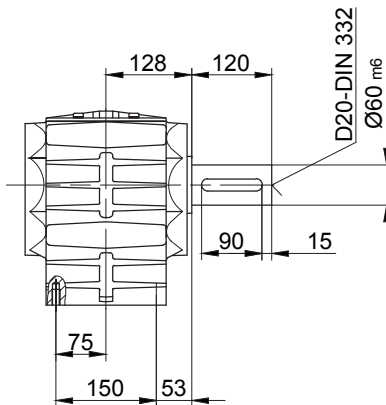
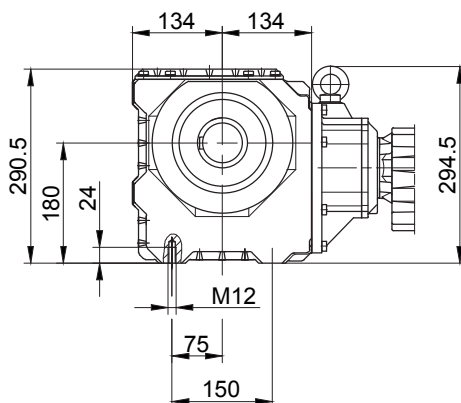
Flansch mit Gewindelöchern vorne

Code -7.V/



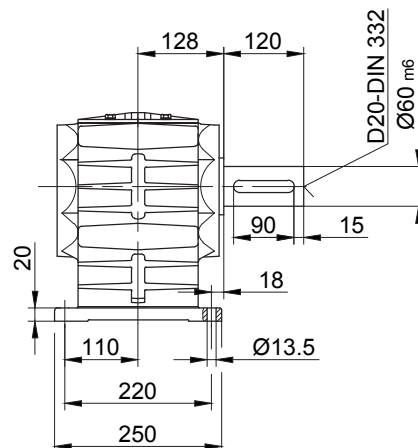
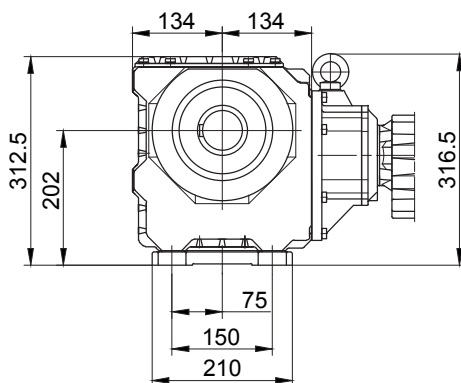
Fuss mit Gewindelöchern unten

Code -6.U/



Fuss mit Durchgangslöchern unten

Code -1.U/



Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

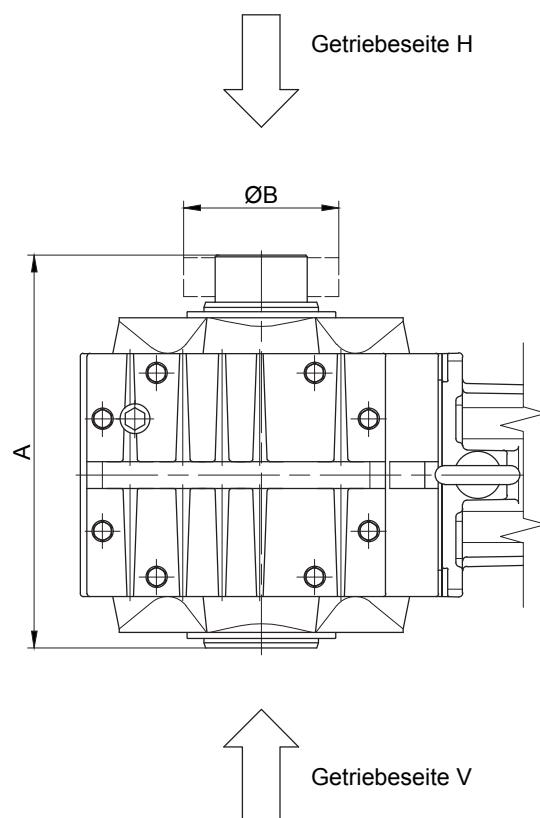
# Schnecken-Getriebemotoren Reihe BS

## Zusatzmaßbild

### Schrumpfscheibenverbindungen (SSV)

(Code BS10-.5/...)

(Code BS10Z-.5A/...)



13

Typ	SSV Ringfeder	SSV STÜWE	A	B
BS10	RfN 4161 036x072	HSD 36-22x36	199	72
BS20	RfN 4161 044x080	HSD 44-22x44	239	80
BS30	RfN 4161 050x090	HSD 50-22x50	267	90
BS40	RfN 4161 062x110	HSD 68-22x68	291	115

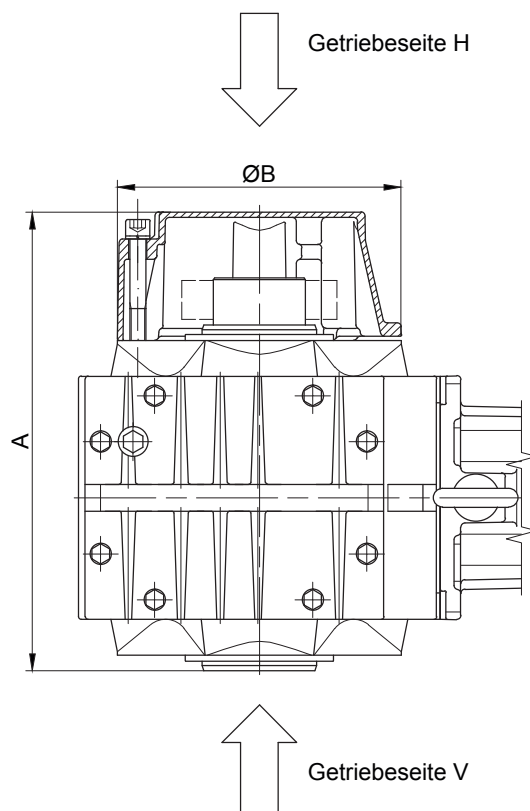
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



### Schrumpfscheibenverbindungen mit Abdeckung (SSV)

(Code BS10-.5A/...)

(Code BS10Z-.5A/...)



13

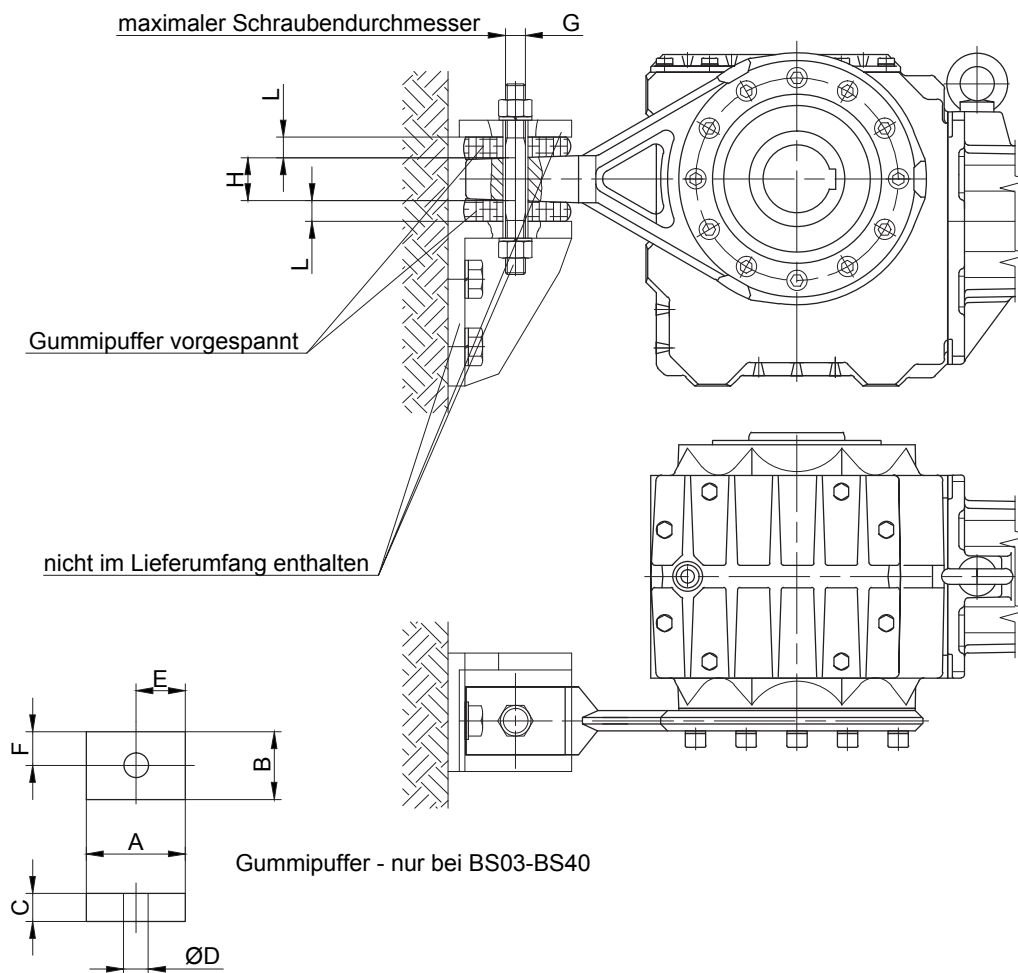
Typ	SSV Ringfeder	SSV STÜWE	A	B
BS10	RfN 4161 036x072	HSD 36-22x36	221	120
BS20	RfN 4161 044x080	HSD 44-22x44	286	160
BS30	RfN 4161 050x090	HSD 50-22x50	313	160
BS40	RfN 4161 062x110	HSD 68-22x68	340	210

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Schnecken-Getriebemotoren Reihe BS

## Zusatzmaßbild

### Gummipuffer für Drehmomentstütze



Werkstoff: Naturkautschuk  
Härte 50 ±5 Shore A

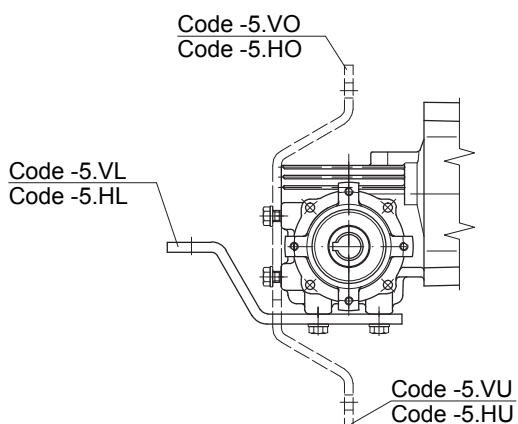
Abmessungen des Querlochs:  
Siehe Maßbild des jeweiligen Getriebes

Getriebe	Pos.	Masse (mm)								
		A	B	C	D	E	F	G	H	L
BS02	-	-	-	-	-	-	-	M8	6	-
BS03	Pos.0	30	30	12	12	15	15	M8	10	10.5
BS04	Pos.0	30	30	12	12	15	15	M8	10	10.5
BS06	Pos.0	30	30	12	12	15	15	M10	10	10
BS10	Pos.1	48	32	15	14	24	16	M10	19	13
BS20	Pos.2	63	43	20	14	31.5	21.5	M10	30	17.5
BS30	Pos.2	63	43	20	14	31.5	21.5	M10	30	17
BS40	Pos.3	88	60	25	22	44	30	M18	38	22

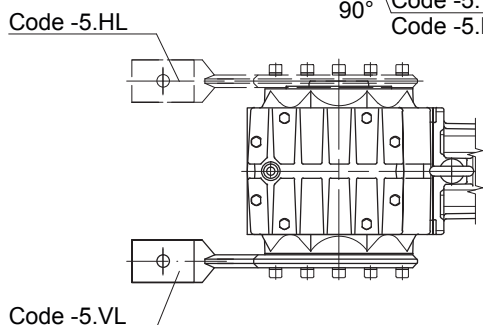
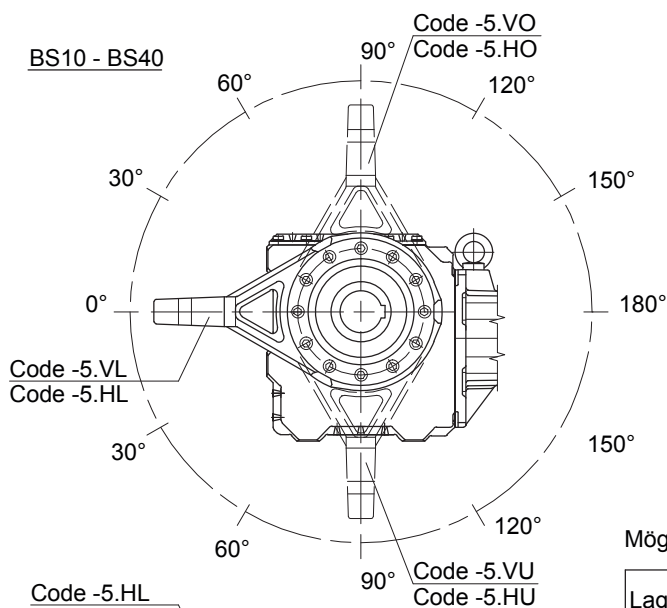
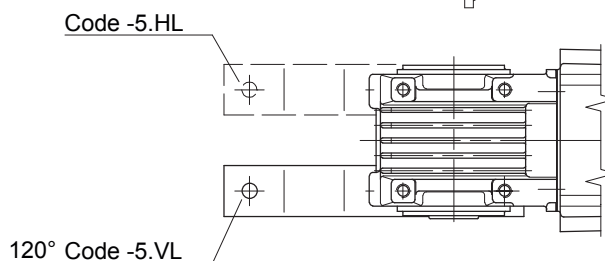
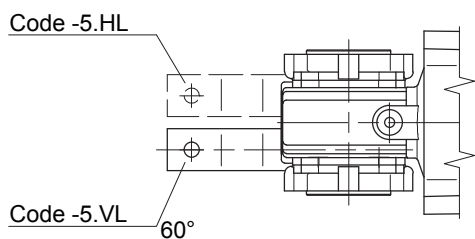
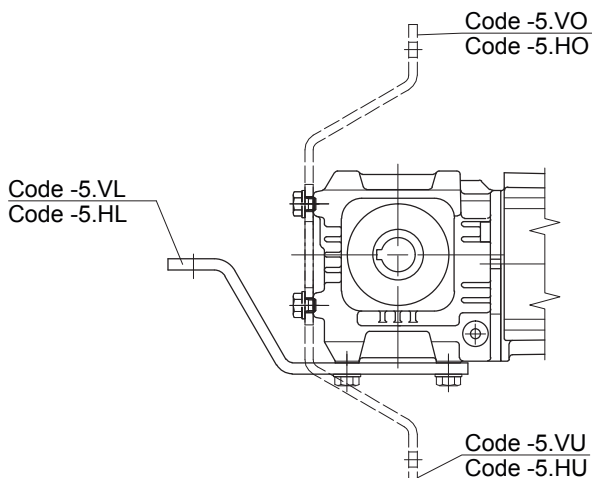
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Lage der Drehmomentstütze

BS02 / BS03



BS04 / BS06



Mögliche Lagen.

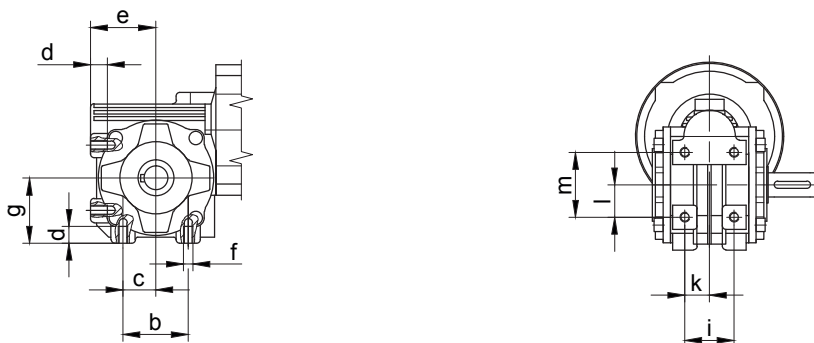
Lage	VL / HL		VO / HO VU / HU				VR / HR
	0°	30°	60°	90°	120°	150°	
BS10	0°	30°	60°	90°	120°	150°	-
BS20	0°	30°	60°	90°	120°	150°	-
BS30	0°	30°	60°	90°	120°	150°	-
BS40	0°	30°	60°	90°	120°	150°	-

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

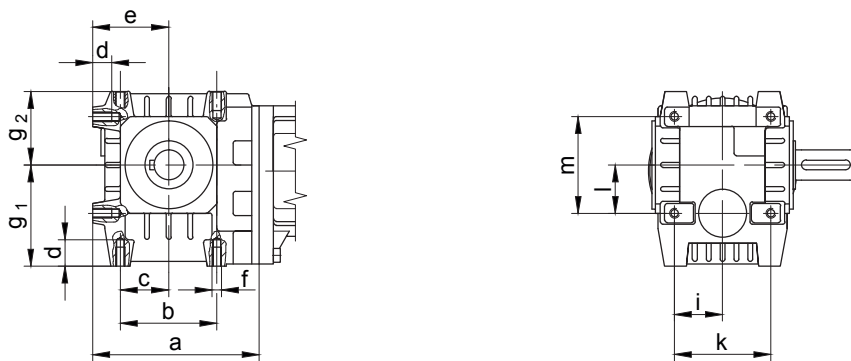
# Schnecken-Getriebemotoren Reihe BS

## Zusatzmaßbild

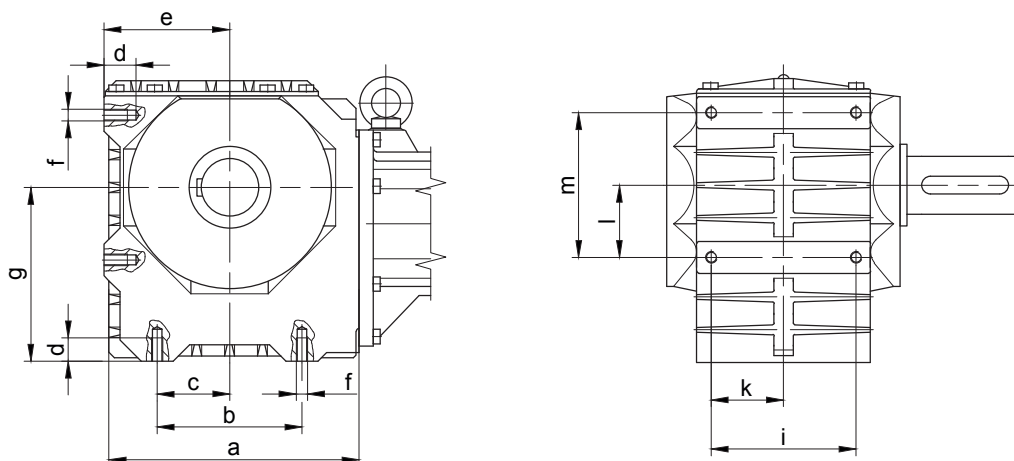
### Fußgewinde links



Typ	a	b	c	d	e	f	g	-	i	k	l	m
BS02	-	36	18	10	40	M6	40	-	32	16	18	36
BS03	-	54	27	14	54	M8	54	-	41	20.5	27	54

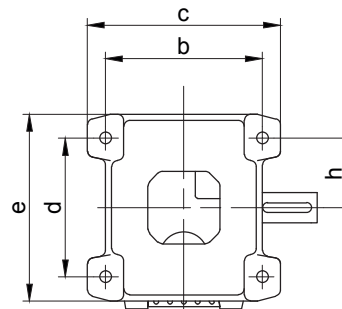
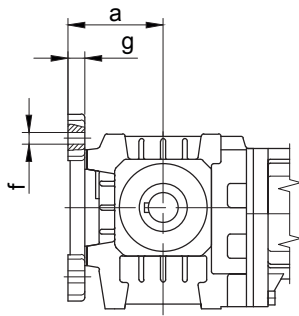


Typ	a	b	c	d	e	f	g <sub>1</sub>	g <sub>2</sub>	i	k	l	m
BS04	111	60	30	15.5	50	M8	64	49.5	30	60	30	60
BS06	138	80	40	16	63	M8	84	61	40	80	40	80

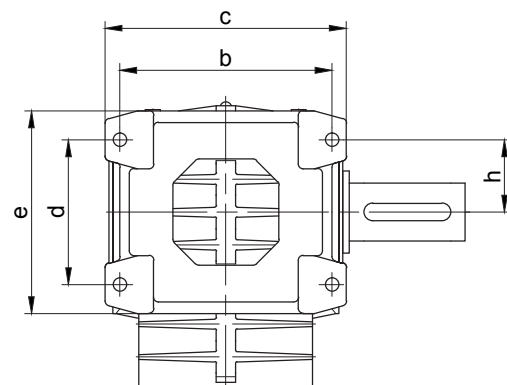
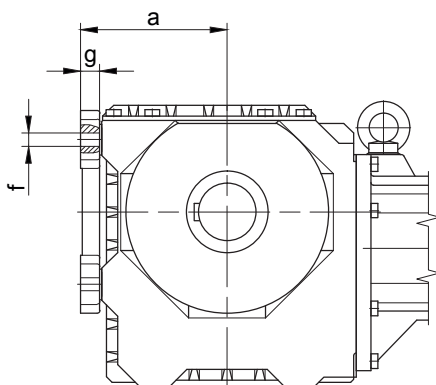


Typ	a	b	c	d	e	f	g	-	i	k	l	m
BS10-BS10Z	170	90	45	16	85	M8	105	-	95	47.5	45	90
BS20-BS20Z	202.5	110	55	20	100	M10	125	-	105	52.5	55	110
BS30-BS30Z	228	125	62.5	24	110	M12	150	-	120	60	62.5	125
BS40-BS40Z	264	150	75	24	130	M12	180	-	150	75	75	150

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



Typ	a	b	c	d	e	f	g	h
BS04	68	110	140	90	130	10	15	45
BS06	79	130	160	115	155	10	14	57.5



Typ	a	b	c	d	e	f	g	h
BS10-BS10Z	103	145	165	90	130	Ø9	16	72.5
BS20-BS20Z	120	165	195	110	160	Ø11	18	55
BS30-BS30Z	132	190	220	125	185	Ø13.5	20	62.5
BS40-BS40Z	152	220	250	150	210	Ø13.5	20	75

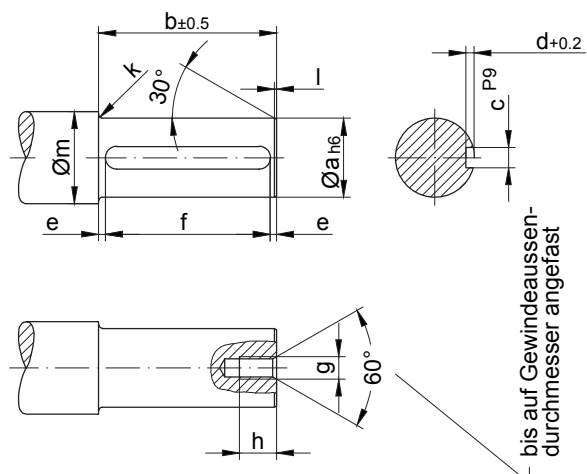
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Schnecken-Getriebemotoren Reihe BS

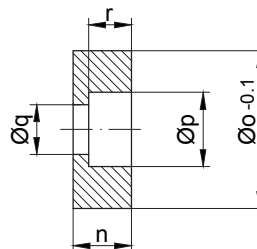
## Zusatzmaßbild

### Montagehilfe für Hohlwelle mit Passfedernut

Pos.1 Wellenzapfen

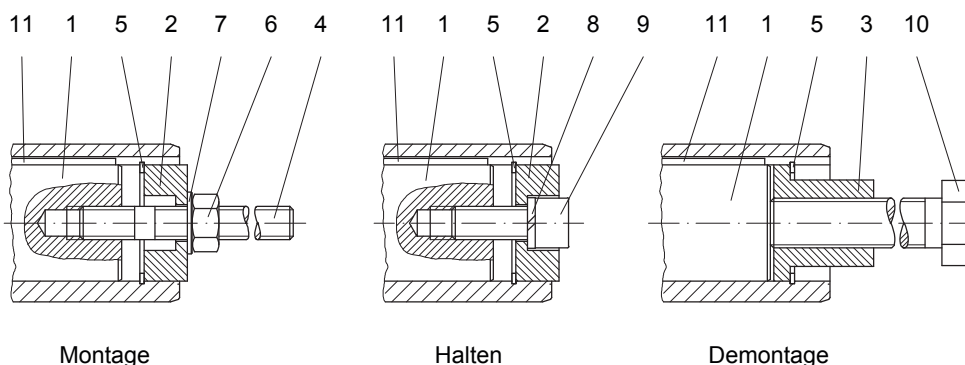


\* Pos.2 Scheibe



✓<sup>x</sup> Kanten gebrochen  
Werkstoff:  
C45 DIN 17200

Typ	Masse (mm)															
	Pos.1 Wellenzapfen											Pos.2 Scheibe				
	a	b	c	d	e	f	g	h	k	l	m	n	o	p	q	r
BS03	20	75	6	3.5	6	63 <sup>+0.3</sup>	M6	16	2	1.5	28	13.5	19.8	11	6.6	6.5
BS04	20	71	6	3.5	7.5	56 <sup>+0.3</sup>	M6	16	2	1.5	28	13.5	19.8	11	6.6	6.5
BS06	25	99	8	4	9.5	80 <sup>+0.3</sup>	M8	18	2.5	1.5	33	13.5	24.8	15	9	8.5
BS10	30	152	8	4	6	140 <sup>+0.5</sup>	M10	20	3	1.5	38	15	29.8	18	11	10
BS20	35	186	10	5	13	160 <sup>+0.5</sup>	M10	20	3	1.5	43	16	34.8	18	11	10
BS30	40	212	12	5	6	200 <sup>+0.5</sup>	M12	22	3	2	48	18	39.8	20	13.5	12
BS40	60	227	18	7	13.5	200 <sup>+0.5</sup>	M20	38	3.5	2	68	24	59.8	33	22	18



Montage

Halten

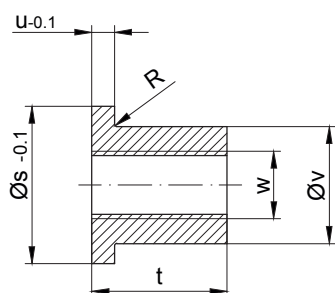
Demontage

Die dargestellten Teile werden zur Montage benötigt. NUR \*gekennzeichneten Teile sind im Montagehilfeset enthalten  
Schraube Pos.9 ist durch geeignete Maßnahmen gegen Losbrechen zu sichern!

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

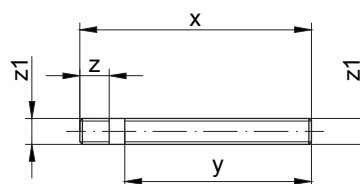
### Montagehilfe für Hohlwelle mit Passfedernut

Pos.3 Hülse



√<sup>x</sup>, Kanten gebrochen  
Werkstoff: C45 DIN 17200

Pos.4 Gewindebolzen



Werkstoff: Stahl, Zugfestigkeit <sup>3</sup>  
1000N/mm<sup>2</sup>  
Gewinde gerollt

Typ	Masse (mm)										* Sicherungsring DIN 472	Sechskantmutter DIN 934-8	Scheibe DIN 125-St	Federring DIN 7980	* Zylinderschraube DIN 912-8,8	Anzugsmomente [Nm]	Sechskantschraube DIN EN 24017-8,8	Passfeder DIN 6885 Breite x Höhe x Länge							
	Pos.3 Hülse						Pos.4 Gewindebolzen												Pos.5	Pos.6	Pos.7	Pos.8	Pos.9	Pos.10	Pos.11
	s	t	u	v	w	R	x	y	z	z1															
BS03	19.8	24	5	11	M8	-	120	90	18	M6	20x1.0	M6	6.4	6	M6x25	5	M8x110	A 8x7x63							
BS04	19.8	24	5	11	M8	-	120	90	18	M6	20x1.0	M6	6.4	6	M6x25		M8x110	A 8x7x56							
BS06	19.8	24	5	15.4	M12	0.8	150	120	20	M8	25x1.2	M8	8.4	8	M8x30		M12x140	A 8x7x80							
BS10	29.8	28	5	19.8	M14	0.8	210	175	23	M10	30x1.2	M10	10.5	10	M10x30	8	M14x190	A 8x7x140							
BS20	34.9	28	5	23	M14	-	250	215	23	M10	35x1.5	M10	10.5	10	M10x35		M14x230	A10x8x160							
BS30	39.9	40	6	27.7	M20	0.8	280	240	28	M12	40x1.75	M12	13	12	M12x35	16	M20x270	A 12x8x200							
BS40	59.8	60	6	44	M30	-	320	260	45	M20	60x2.0	M20	21	20	M20x50	42	M30x310	A 18x11x200							

Die dargestellten Teile werden zur Montage benötigt. NUR \*gekennzeichnete Teile sind im Montagehilfeset enthalten.

Schraube Pos.9 ist durch geeignete Maßnahmen gegen Losbrechen zu sichern!

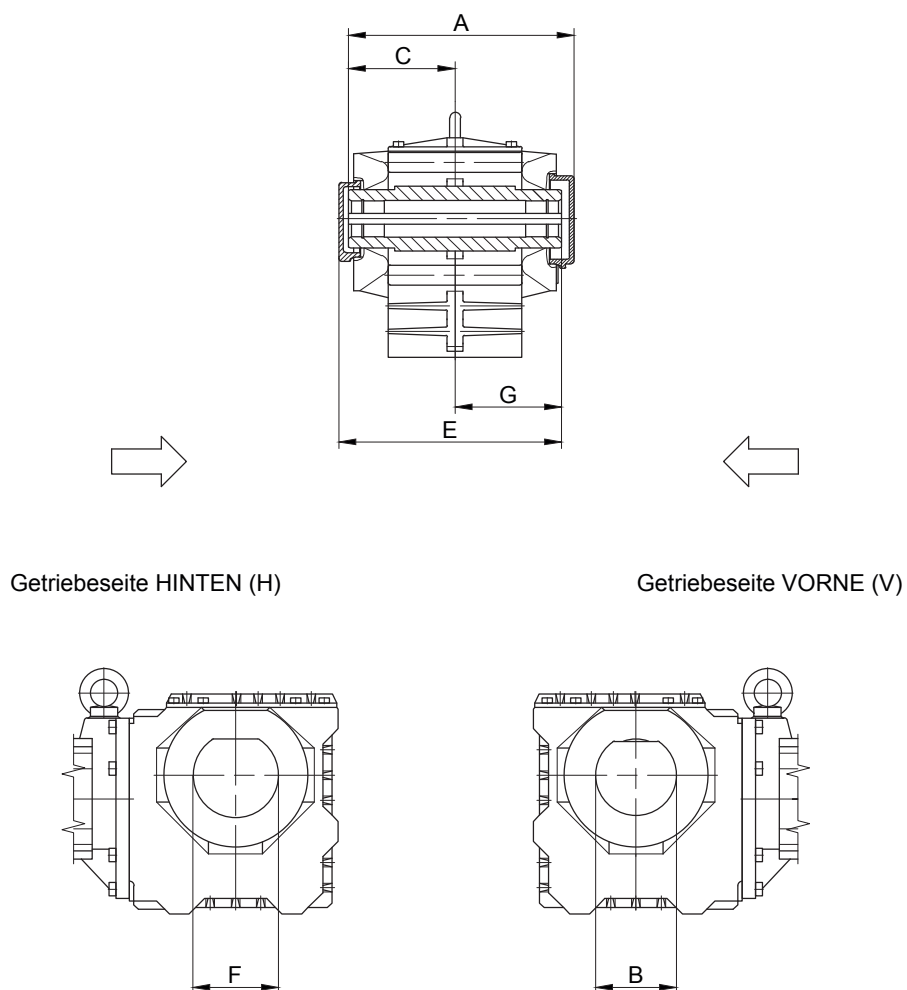
Optional:	Typ	Bestelltext
	BS03	Id.Nr.4104013 Montagehilfe "halten"
	BS04	Id.Nr.4104013 Montagehilfe "halten"
	BS06	Id.Nr.4103921 Montagehilfe "halten"
	BS10	Id.Nr.4103939 Montagehilfe "halten"
	BS20	Id.Nr.4103947 Montagehilfe "halten"
	BS30	Id.Nr.4103955 Montagehilfe "halten"
	BS40	Id.Nr.4103971 Montagehilfe "halten"

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

# Schnecken-Getriebemotoren Reihe BS

## Zusatzmaßbild

### Verschlusskappen (VK)



13

Verschlusskappe HINTEN			
Typ	E	F	G
BS10	186	68	87
BS30	250.5	100	132
BS40	276	130	128

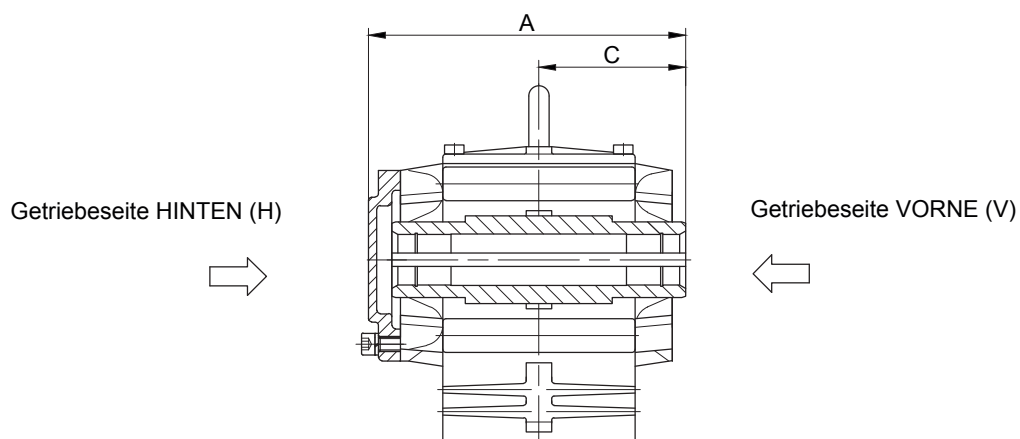
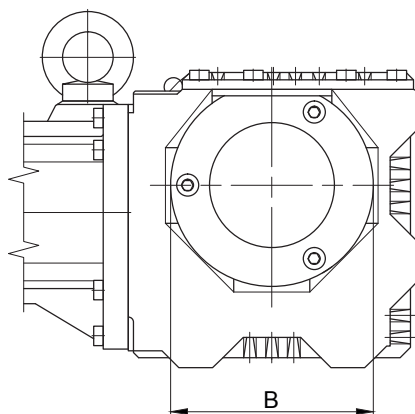
Verschlusskappe VORNE			
Typ	A	B	C
BS20	221	78	104.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



### Verschlussdeckel (VD)

Getriebeseite HINTEN (H)

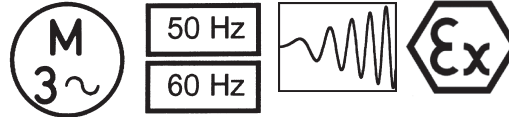


Typ	A	B	C
BS04	99.5	68	46.5
BS06	128.5	81	60.5
BS10	185	Ø120	87
BS20	224.5	Ø160	104.5
BS30	251.5	Ø160	118.5
BS40	275	Ø210	128

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



# 14



Seite

**Motoren**

**535-586**

**Allgemein**

**Betriebsarten nach DIN EN 60034**

**Technische Daten der 50 Hz Motoren**

**Technische Daten der 60 Hz Motoren**

**Betrieb am Frequenzumrichter**

**Explosionsschutz**

### ErP – Richtlinie 2009/125/EG

Die Richtlinie 2009/125/EG des Europäischen Parlaments und des Rates aus dem Jahr 2009 beschreibt die Anforderungen an die umweltgerechte Gestaltung energieverbrauchsrelevanter Produkte (ErP). Sie löste im November 2009 die Richtlinie 2005/32/EG, die den Rahmen für die Festlegung von Anforderungen an die umweltgerechte Gestaltung energiebetriebener Produkte (EuP) bildet, ab. Die Änderung hat auf die bereits erlassenen Durchführungsmaßnahmen keine Auswirkung.

Neu in der EU in Umlauf gebrachte Motoren bzw. Getriebemotoren müssen **ab dem 16. Juni 2011 der Energieeffizienzklasse IE2** angehören. Als Zugangsvoraussetzung für den europäischen Markt gilt, **ab 1. Januar 2015 für die Motoren mit einer Bemessungsleistung von 7,5 bis 375 kW** und **ab 1. Januar 2017 auch für alle kleineren Motoren ab 0,75 kW, die Energieeffizienzklasse IE3.**

#### Ziele

Die ErP - Richtlinie verfolgt mehrere Ziele:

- 1.) **Verbesserung der Umweltauswirkungen von energiebetriebenen Produkten**  
Durch die Dokumentation und Kennzeichnung von Produkten, durch Kontrollvorschriften und durch die Formulierung einzelner Anforderungen in Durchführungsmaßnahmen soll dieses Ziel erreicht werden. Da der gesamte Produktlebenszyklus betrachtet wird, muss bereits bei der Entwicklung angesetzt werden.
- 2.) **Klimaschutz**  
Das Erreichen der EU-Klimaschutzziele soll unterstützt werden. Dies kann umgesetzt werden, indem der Energieverbrauch und die Emission von Treibhausgasen durch Produktion, Betrieb und Entsorgung energiebetriebener Produkte, verringert wird.
- 3.) **Harmonisierte Gesetzgebung**  
Die Richtlinie schafft einen Rahmen für eine europäische Regelung der Ökodesign-Anforderungen. Dadurch werden Handelshemmnisse durch national unterschiedliche Vorschriften verhindert. Aufgrund des Erlasses von verbindlichen Durchführungsmaßnahmen für die gesamte Gemeinschaft und den Schutz des freien Warenverkehrs vor weitergehenden Vorschriften der Mitgliedsstaaten, kann dies erreicht werden.

### Die neue Norm IEC 60034-30

Früher wurden Drehstrommotoren in die Wirkungsgradklassen EFF1, EFF2 und EFF3 eingeteilt. Allerdings unterschieden sich die verschiedenen nationalen Systeme im Geltungsbereich und in den Klassen. Dies veranlasste die IEC dazu, einen einheitlichen weltweiten Standard von Elektromotoren nach ihrer Energieeffizienz zu schaffen.

Die neue Norm IEC 60034-30 definiert und harmonisiert weltweit die Wirkungsgradklassen IE1, IE2 und IE3 für Drehstrommotoren.

Die neuen Bezeichnungen wurden folgendermaßen festgelegt:

Bezeichnung der Wirkungsgradklassen		Vergleich mit CEMEP Klassifizierung	
Wirkungsgrad	Code	Wirkungsgrad	Logo
Super Premium	IE4	-	-
Premium	IE3	-	-
High	IE2	Hoch	
Standard	IE1	verbesserter	
Niedriger als Standard	keine Bezeichnung	Standard	

### Welche Motoren fallen unter die ErP Richtlinie gemäß Motorenverordnung 640/2009/EG?

Die neue Motorenverordnung hat einen größeren Umfang als der zuvor in Europa verwendete Standard.

- Eintourig, dreiphasig, 50 Hz und 50/60 Hz
- 2-, 4- oder 6-polige Motoren
- Nennleistung von 0,75 bis 375 kW
- Nennspannung UN bis 1000 V
- Betriebsart S1 (Dauerlast)
- für direktes Einschalten am Netz bei 50 Hz und 60 Hz
- für Ausführung N in Übereinstimmung mit der IEC 60034-12
- für Betriebsbedingungen in Übereinstimmung mit der IEC 60034-1, Abschnitt 6 (Betriebsbedingungen am Aufstellungsort, NN=1000 m, Umgebungstemperatur von -15°C bis +40°C) bemessen sind.
- Motoren mit zwei umschaltbaren Bemessungsspannungen unter der Voraussetzung, dass der magnetische Fluss bei beiden Spannungen der gleiche ist.
- Getriebemotoren

### Welche Motoren sind von Regelung ausgenommen?

- Ausschließlich für den Umrichterbetrieb gefertigte Motoren nach IEC 60034-25.
- Polumschaltbare Motoren
- vollständig in eine Maschine integrierte Motoren (z.B. Pumpe, Lüfter oder Kompressor), die nicht getrennt von der Maschine geprüft werden können.
- ab 16. Juni 2011: IE1 Motoren für S1 Betrieb für den EG Markt
- Ex-Motoren (Ex- Schutz hat höhere Priorität)
- Bremsmotoren

### Verfahren zur Ermittlung der Motorwirkungsgrade nach IEC 60034-2-1

Einzelverlustverfahren  
Zusatzverluste nach Restverlustverfahren  
Messunsicherheit niedrig

Bauer-Getriebemotoren für Drehstromanschluss werden mit speziell ausgelegten Asynchronmotoren geliefert. Diese Auslegung ermöglicht größte Betriebssicherheit bei hohem Anzugsmoment und geringem Einschaltstrom.

Drehmomenteinsattelungen in der Drehmoment-Drehzahl-Kennlinie sind weitgehend vermieden. Die Drehmomente sind auf die Anforderungen und Einsatzfälle des Getriebemotors optimiert. Weitere Informationen finden Sie unter „www.bauergears.com“.

### Drehmomentangaben

Die in den Auswahltabellen genannten Drehmomente stehen an der Arbeitswelle voll zur Verfügung. Sie gelten für Dauerbetrieb (S1-100%) bei maximaler Umgebungstemperatur von 40° C und bis zu einer Aufstellungshöhe von 1000 m über NN. Antriebe für höhere Umgebungstemperaturen oder größere Aufstellungshöhen sind auf Anfrage lieferbar. Getriebe-Wirkungsgrade, die unter den für Stirnradgetriebe üblichen Werten liegen, sind bei den Drehmomenten in den Auswahltabellen berücksichtigt.

### Netzspannungen

Bauer-Motoren sind listenmäßig für folgende Drehstrom-Netzspannungen lieferbar:

Motorgröße	Standard-Spannungen
D04LA4 - D09XA4	220 V Δ / 380 V Y 50 Hz
0,06 - 2,2 kW	230 V Δ / <b>400 V Y 50 Hz*</b>
	240 V Δ / 415 V Y 50 Hz**
	440 V Y / 60 Hz
	460 V Y / 60 Hz
ab D11SA4	220 V Δ / 380 V Y 50 Hz
ab 3,0 kW	230 V Δ / 400 V Y 50 Hz
	240 V Δ / 415 V Y 50 Hz**
	440 V Y / 60 Hz
	460 V Y / 60 Hz
	380 V Δ / 660 V Y 50 Hz
	<b>400 V Δ / 690 V Y 50 Hz*</b>
	415 V Δ / 50 Hz**
	440 V Δ / 60 Hz
	460 V Δ / 60 Hz

\* = durch IEC 38 weltweit und durch CENELEC in Europa empfohlene Spannung.

\*\* = Wärmeklasse F erforderlich

Auslegungen für andere Spannungen sind auf Wunsch gegen Mehrpreis lieferbar.

Motoren für Betrieb am Frequenzumrichter mit 50 oder 60 Hz Eckfrequenz werden, sofern nicht anders vereinbart, zur Optimierung des Geräuschverhaltens und der Wicklungsbeanspruchung in Y-Schaltung ausgeführt.

Falls nicht anders angegeben, gilt für die Bemessungsspannung eine Toleranz von +/- 5 % entsprechend IEC 60034-1.

Die Motoren D04 bis D18 in 4-poliger Ausführung dürfen darüber hinaus an Bemessungsspannungen (400 V 50 Hz) mit +/- 10 % Toleranz in Ausführung Wärmeklasse F betrieben werden.

### Netzfrequenzen

Alle Motoren sind wahlweise für 50 oder 60 Hz mit gleicher Leistung lieferbar. Leistungsge- steigerte Typen auf Anfrage.

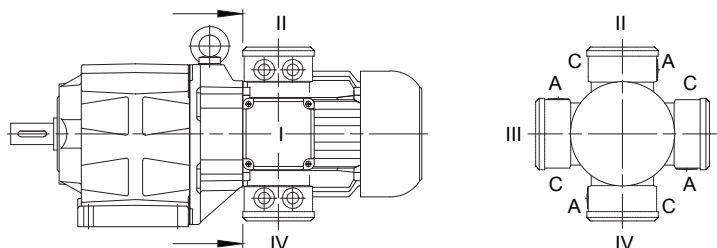
### Typenschild

Bauer-Getriebemotoren werden serienmäßig mit einem korrosionsbeständigen Typen- schild geliefert. Das Standard-Typenschild besteht aus einem seit Jahren im praktischen Einsatz bewährten Spezialkunststoff und ist von der Physikalisch-Technischen-Bundes- anstalt (PTB) für den Ex-Bereich zugelassen.

<b>Bauer</b>			
3 ~Mot.-No. E	25189019-1	A/ 171M0815	43/2008
Type	BG70-11/DXE13LA4/C2		
Ⓢ II 2 G Ex e II T3			
PTB 08 ATEX 3052-B1.02			
	5,5 kW/cosφ	0,80   S1	IsocCl. F
50-Hz	400 V	11,9 A	
$P_1$	1460 n <sub>2</sub>	29 r/min	1810 Nm
			i 50,40
$I_A / I_N$	8,1	$t_E$	12,0 s
IM H2	IP65	6,5 L	CLP 220
		°C	$t_{amb}$ 40°C
		165 kg	
Ex		CE	0102 EN 60034
		SCH 20	

### Klemmenkasten

Die Kabeleinführung der Motoren mit und ohne Bremse ist am Motorklemmenkasten von Seite A oder C möglich.

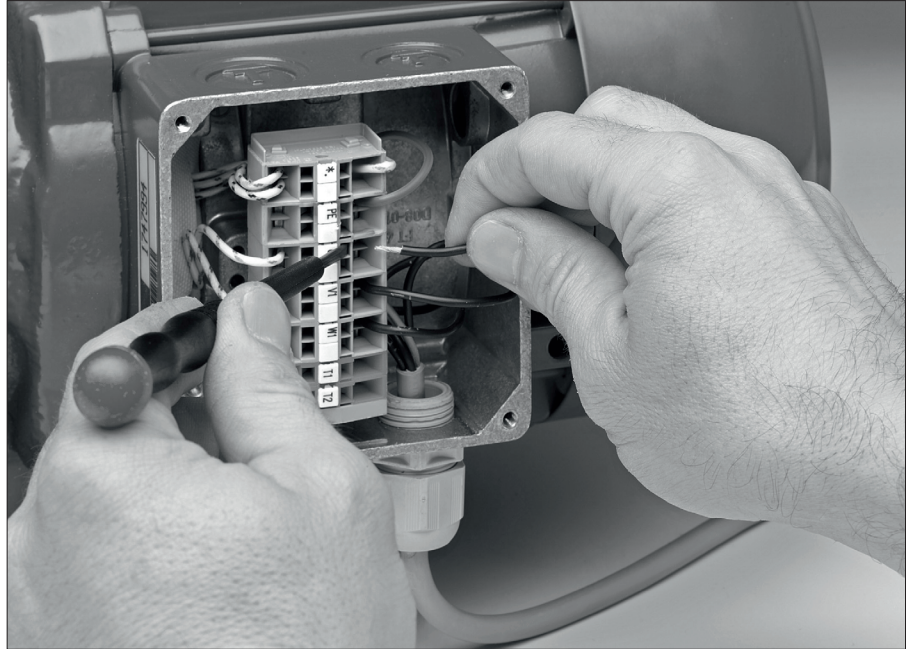


Die Standardlage des Motorklemmenkastens ist in den Maßbildern der Getriebemotoren dargestellt (siehe 10,11,12 und 13). Falls die räumlichen Verhältnisse am Aufstellort es erfordern, kann der Klemmenkasten auf Wunsch in 3 weiteren Lagen angeordnet werden. Die 4 möglichen Lagen entsprechen jeweils einer Drehung um 90° um die Motorachse (Maßbild und Bezeichnung für Klemmenkasten in Standardausführung siehe Kapitel 17 „Maßbild Maßbild Klemmenkasten in Standardausführung“).

Die Klemmenkästen sind standardmäßig mit metrischem Gewinde ausgeführt.

### Motoranschlussarten

Das Anschließen von Getriebemotoren ist zeitintensiv und verursacht nicht zu vernachlässigende Kosten sowohl bei der Neuinstallation als auch im Servicefall. Diese Kosten sinken erheblich durch den Einsatz von Bauer-Getriebemotoren mit CAGE CLAMP®-Anschlussstechnik (Federklemmanschlussstechnik) geliefert werden – und das ohne Mehrpreis.



### Welche Vorteile haben Sie?

#### Kosteneinsparung beim Anschließen

Öffentliche Zeitmessungen haben es bestätigt, der elektrische Anschluss eines Leiters mittels CAGE CLAMP® - Anschluss spart gegenüber dem klassischen Schraubanschluss bis zu 75% Arbeitszeit. Gegenüber dem Anschluss eines Getriebemotors mit Schraubbolzen sparen Sie noch mehr Zeit.

#### Einfache Handhabung

Verdrahtung von oben, sehr gut zugänglich: Betätigung der CAGE CLAMP®-Feder und Leitereinführung Frontal, d.h. im Blickfeld des Elektroinstallateurs.

#### Anschließbarer Kabelquerschnitt

Geeignet für alle Kupferleiter von 0,5 mm<sup>2</sup> bis 25 mm<sup>2</sup>.

#### Kosteneinsparung bei Material und Werkzeugen

- Aderendhülsen, Stiftkabelschuhe oder Ringzungen entfallen
- Werkzeuge wie Crimpzangen werden nicht mehr benötigt
- Versehentliches Überdrehen oder Abbrechen der Klemmbrettbolzen und Neubeschaffen eines Klemmbrettes gehören der Vergangenheit an
- Suchen oder Neubeschaffen herabgefallener Muttern und Unterlegscheiben der Klemmbrettbolzen entfällt

#### Rüttel- und Schocksicher

Rüttel- und Schockbeanspruchungen führen weder zu einer Beschädigung des angeklemmten Leiters noch zu einer messbaren Kontaktunterbrechung. Die Verbindung ist wartungsfrei.

#### Art der Leiter

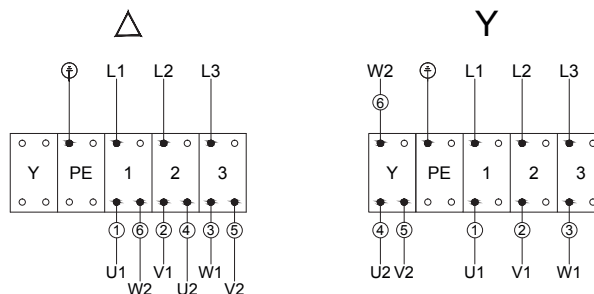
Der CAGE CLAMP®-Anschluss klemmt feindrähtige, mehrdrähtige und eindrähtige Kupferleiter.



## Klemmenanschluss für eintourige Motoren ohne Motorschutz

Standardanschluss Drehstrommotoren ohne Motorschutz über Käfigzugfeder  
(CAGE CLAMP®).  
D04 ... D..09

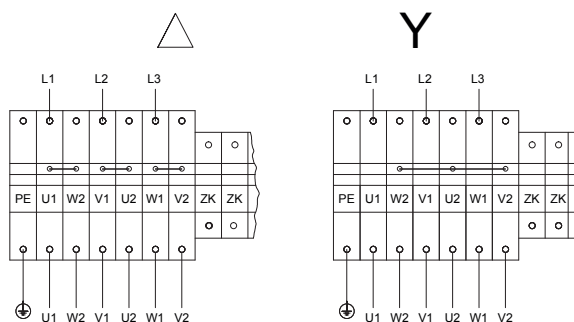
Anschluss Drehstrommotor über Klemmenblock



	IEC / EN 60034-8	NEMA MG 1	Farbe
Netzanschluss	L1 L2 L3	L1 L2 L3	
Motorwicklung	U1 V1 W1  U2 V2 W2	T1 T2 T3  T4 T5 T6	schwarz blau braun  gelb rot violett
△	Schaltung für niedrige Nennspannung (z.B.: 230 V)		
Y	Schaltung für hohe Nennspannung (z.B.: 400 V)		

## D..11 ... D..18

Anschluß Drehstrommotor über Klemmenblock

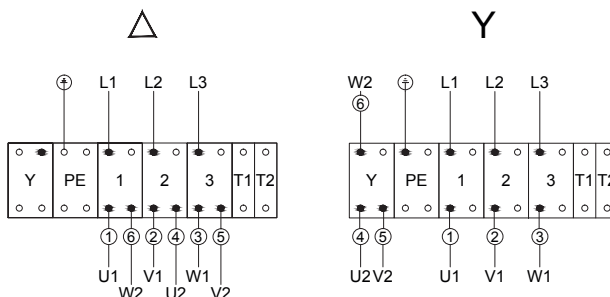


	IEC / EN 60034-8	NEMA MG 1	Farbe
Netzanschluß	L1 L2 L3	L1 L2 L3	
Motorwicklung	U1 V1 W1  U2 V2 W2	T1 T2 T3  T4 T5 T6	schwarz blau braun  gelb rot violett
△	Schaltung für niedrige Nennspannung (z.B.: 230 V)		
Y	Schaltung für hohe Nennspannung (z.B.: 400 V)		
ZK	Optionaler Zusatzanschluß		

### Klemmenanschluss für eintourige Motoren mit Motorschutz

### Standardanschluss Drehstrommotoren mit Motorschutz über Käfigzugfeder (CAGE CLAMP®) D04 ... DO..09

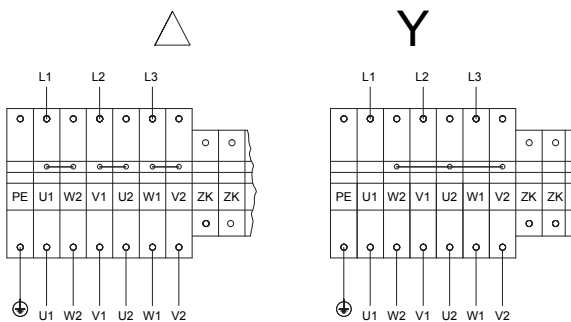
Anschluss Drehstrommotor und Thermischer Motorschutz über Klemmenblock



	IEC / EN 60034-8	NEMA MG 1	Farbe
Netzanschluss	L1 L2 L3	L1 L2 L3	
Motorwicklung	U1 V1 W1  U2 V2 W2	T1 T2 T3  T4 T5 T6	schwarz blau braun  gelb rot violett
$\Delta$	Schaltung für niedrige Nennspannung (z.B.: 230 V)		
Y	Schaltung für hohe Nennspannung (z.B.: 400 V)		
T1 T2	Thermischer Motorschutz		

### D..11 ... D..18

Anschluß Drehstrommotor über Klemmenblock

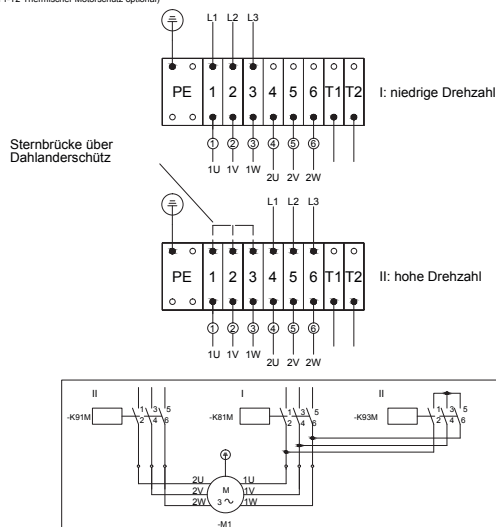


	IEC / EN 60034-8	NEMA MG 1	Farbe
Netzanschluß	L1 L2 L3	L1 L2 L3	
Motorwicklung	U1 V1 W1  U2 V2 W2	T1 T2 T3  T4 T5 T6	schwarz blau braun  gelb rot violett
$\Delta$	Schaltung für niedrige Nennspannung (z.B.: 230 V)		
Y	Schaltung für hohe Nennspannung (z.B.: 400 V)		
ZK	Optionaler Zusatzanschluß		

### Klemmenanschluss für polumschaltbare Motoren in Dahlander Schaltung ( $\Delta/YY$ oder $Y/YY$ )

### Standardanschluss Drehstrommotoren über Käfigzugfeder (CAGE CLAMP®). D04 ... D..09

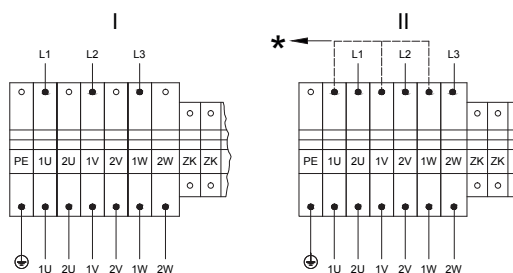
Motor 2 Drehzahlen, Dahlanderschaltung D/YY oder Y/YY  
(T1-T2 Thermischer Motorschutz optional)



	IEC / EN 60034-8	NEMA MG 1	Farbe
Netzanschluß	L1 L2 L3	L1 L2 L3	
Motorwicklung	1U 1V 1W  2U 2V 2W	T1 T2 T3  T5 T6 T4	schwarz blau braun  gelb rot violett
I	Niedrige Drehzahl		
II	Hohe Drehzahl		

### D..11 ....D..18.

Anschluß Drehstrommotor über Klemmenblock  
Polumschaltung für 2 Drehzahlen, Dahlanderschaltung  $\Delta/YY$



	IEC / EN 60034-8	NEMA MG 1	Farbe
Netzanschluß	L1 L2 L3	L1 L2 L3	
Motorwicklung	1U 1V 1W  2U 2V 2W	T1 T2 T3  T4 T5 T6	schwarz blau braun  gelb rot violett
I	Niedrige Drehzahl		
II	Hohe Drehzahl		
ZK	Optionaler Zusatzanschluß		
*	Sternpunkt über Dahlanderschutz		

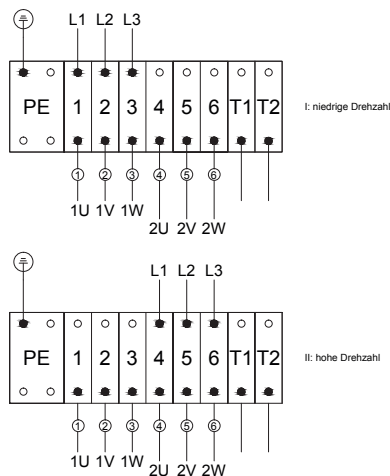
# Motoren

## Allgemein

### Klemmenanschluss für polumschaltbare Motoren mit zwei getrennten Wicklungen (Y/Y oder Δ / Δ)

### Standardanschluss Drehstrommotoren über Käfigzugfeder (CAGE CLAMP®). D04 ... D..09

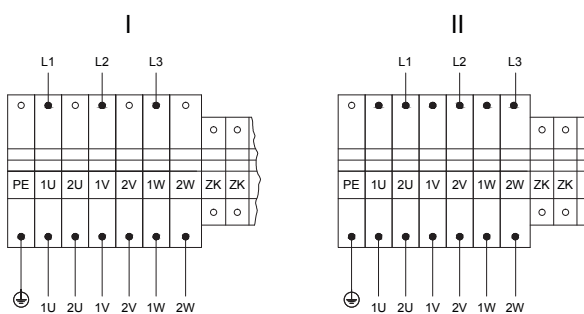
Motor Polumschaltung  
2 Drehzahlen, 2 Wicklungen: Y/Y bzw. D/D  
(T1-T2 Thermischer Motorschutz optional)



	IEC / EN 60034-8	NEMA MG 1	Farbe
Netzanschluß	L1 L2 L3	L1 L2 L3	
Motorwicklung	1U 1V 1W 2U 2V 2W	T1 T2 T3 T11 T12 T13	schwarz blau braun gelb rot violett
I			
II			
T1			
T2			

### D..11 ... D..18

Anschluß Drehstrommotor über Klemmenblock  
Polumschaltung für 2 Drehzahlen; getrennte Wicklung Y/Y oder Δ Δ



	IEC / EN 60034-8	NEMA MG 1	Farbe
Netzanschluß	L1 L2 L3	L1 L2 L3	
Motorwicklung	1U 1V 1W 2U 2V 2W	T1 T2 T3 T4 T5 T6	schwarz blau braun gelb rot violett
I	Niedrige Drehzahl		
II	Hohe Drehzahl		
ZK	Optionaler Zusatzanschluß		

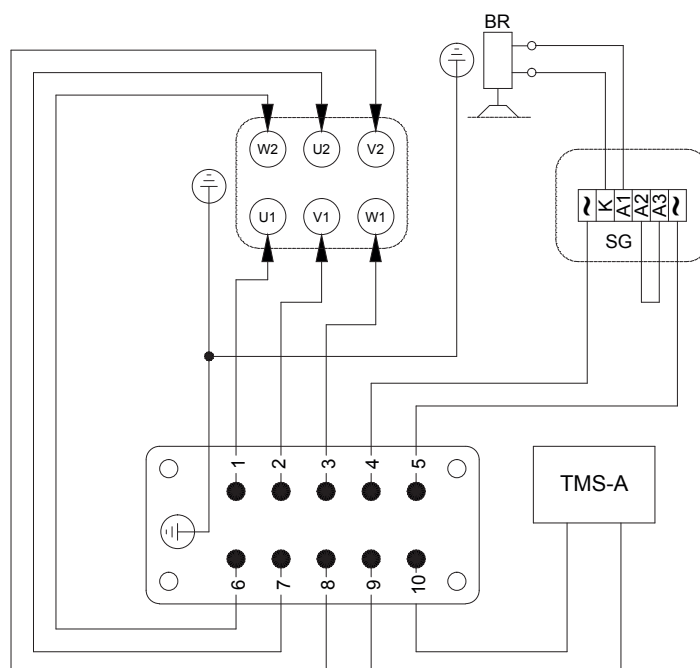
### Anschluss für Motoren mit Stecker

Bauer-Motoren der Größen D06 bis D..16 sind mit steckbarem Motoranschluss lieferbar. Das Steckeranbaugehäuse ist standardmäßig seitlich am Klemmenkasten in Richtung Lüfterhaube angebaut. Die zusätzliche Störkontur durch den Stecker ist durch diese Konstruktion minimiert.

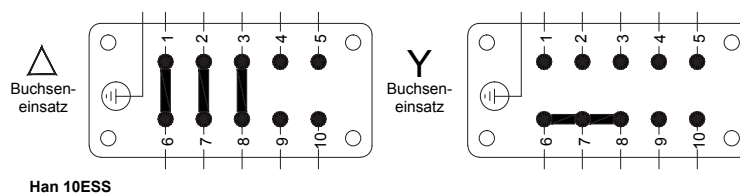
Die Steckerausführung enthält standardmäßig Anbaugehäuse, Stifteinsatz und Abdeckung. Auf Wunsch sind auch Tüllengehäuse mit Buchseneinsatz gegen Mehrpreis lieferbar. Pinbelegung der Stecker auf Anfrage (siehe Kapitel 17 „Maßbild Klemmenkasten in Steckerausführung“).



Eine Ausführung mit Einbügelverriegelung entsprechend der DESINA-Vorschrift des Verbandes Deutscher Werkzeugmaschinenhersteller (VDW) ist lieferbar.



Δ - oder Y-Schaltung im Steckeroberteil oder Schaltschrank wird durch Anlagenhersteller ausgeführt.



Alternativ ist der Motor mit einem preisgünstigen Rundstecker lieferbar. Dieser wird ab Werk in den Standard-Klemmenkasten eingebaut und eignet sich auch für Bremsen-Anschluss und Thermistoren bzw. Thermostate. Bitte anfragen.

Bauer-Motoren ab D08 mit angebauter Bremse sind auch mit steckbarem Bremsen-anchluss lieferbar. Im Servicefall kann die Bremse vor Ort dadurch in kürzester Zeit getauscht werden.

### Motorschutz

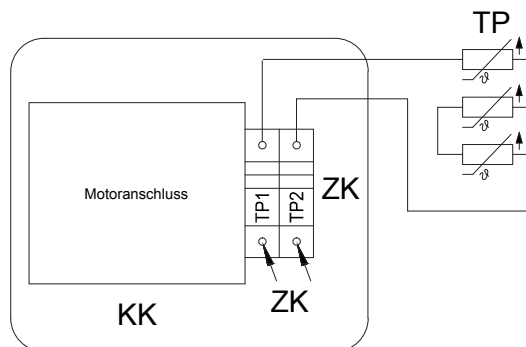
Zum Schutz der Motorwicklung ist es erforderlich, in der Schaltanlage für jeden Getriebemotor einen stromabhängigen Motorschutzschalter oder ein thermisch verzögertes Überstromrelais einzubauen. Die zur Einstellung erforderlichen Nennströme der Motoren werden in der Auftragsbestätigung genannt. Bei besonderen Betriebsverhältnissen (Kurzzeit- oder Aussetzbetrieb, hohe Schalthäufigkeit, starke Spannungsschwankungen oder Behinderung der Kühlung) sowie bei Frequenzumrichter-Betrieb wird als zusätzliche Sicherheit ein thermischer Wicklungsschutz dringend empfohlen.



### Thermistoren / PTC - Kaltleiter

Bei Thermistoren / PTC-Kaltleitern handelt es sich um temperaturabhängige Widerstände, die in jeden Wicklungsstrang eingebaut werden und in Kombination mit entsprechenden Thermistor- / PTC-Auslösegeräten oder Umrichtern dem Motorschutz dienen. Das erforderliche Auslösegerät gehört nicht zum Lieferumfang.

**Funktion:** Die Thermistoren / PTC-Fühler sind so gefertigt, dass ihr Widerstand auch bei rascher Erwärmung steigt und bei einer bestimmten Temperatur (NAT) einen ganz bestimmten Widerstandswert erreicht. Bei diesem Wert spricht das Auslösegerät an und ein Warnsignal o.ä. kann geschaltet werden, um eine Überhitzung des Motors zu verhindern. Charakteristik nach DIN 44081 und „Mark A“ nach IEC 34-11-2. Thermistoren / PTC-Kaltleiter sind für jeden Motor gegen Aufpreis lieferbar.

Thermischer Motorschutz mit PTC-Thermistoren



KK	Motor-Klemmenkasten
ZK	Zusatzklemmen
TP	PTC-Thermistoren DIN 44081/IEC 34-11-2 Mark A
TCU	Anschluß für Thermistor-Steuergerät EN 60947 Max. Prüfspannung 2,5 VDC / Thermistor bei  mit Prüfzeichen: 

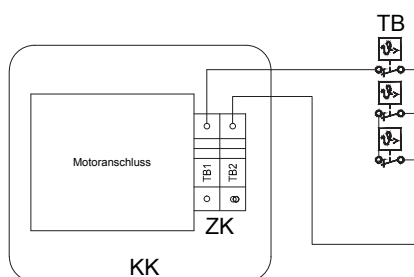
Die gezeichnete Anordnung der Zusatzklemmen muß nicht der räumlichen entsprechen.

### Thermostate

Die Bimetallschalter werden zur langsamen, selbsttätigen Temperaturüberwachung eingesetzt und in jeden Wicklungsstrang der Motoren eingebettet.

Die Bimetallscheibe ist so dimensioniert, dass sie bei Temperaturerhöhung bei einem bestimmten, fest eingestellten Temperaturwert von ihrem konvexen in den konkaven Zustand schlagartig umschnappt und den Kontakt vertikal von der Kontaktplatte wegbewegt. Der Kontakt ist nun geöffnet (Öffner) oder geschlossen (Schliesser). Erst nach wesentlicher Temperaturänderung springt die Bimetallscheibe selbsttätig in ihre Ausgangslage zurück. Der Kontakt ist wieder geschlossen (Öffner) oder geöffnet (Schliesser). Thermostate sind für jeden Motor gegen Aufpreis lieferbar. Aus technischen Gründen wird diese Ausführung für große Motoren (D11– D18) nicht empfohlen.

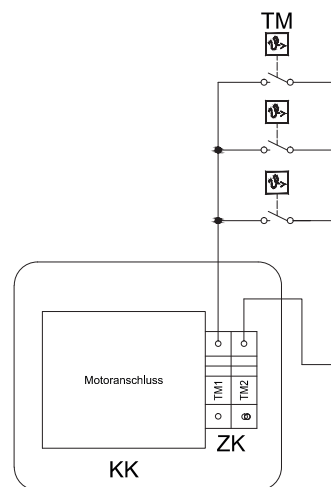
Thermischer Motorschutz mit Thermostaten (Öffner)



KK	Motor-Klemmenkasten
ZK	Zusatzklemmen
TB	Thermostaten mit Öffnungskontakt max. 250VAC 1,6A

Die gezeichnete Anordnung der Zusatzklemmen muß nicht der räumlichen entsprechen.

Thermischer Motorschutz mit Thermostaten (Schliesser)



KK	Motor-Klemmenkasten
ZK	Zusatzklemmen
TB	Thermostaten mit Öffnungskontakt max. 250VAC 1,6A

Die gezeichnete Anordnung der Zusatzklemmen muß nicht der räumlichen entsprechen.

# Motoren

## Allgemein

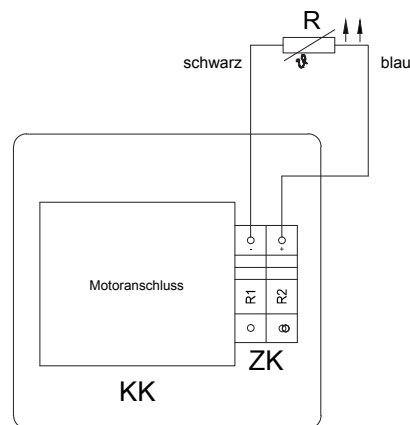
### KTY - Fühler

Der Schrumpfschlauch isolierte KTY-Fühler dient der Temperaturmessung und Überwachung kritischer Temperaturen an Oberflächen und im Inneren von Motoren und Maschinen. Im rauen Industrieinsatz kann der Fühler überall dort eingesetzt werden, wo genaue Messungen mit einem Sensor gefordert werden. KTY-Fühler sind für jeden Motor gegen Aufpreis lieferbar.

Typ 84-130SH: Wird in Motoren eingebaut, die hauptsächlich mit Siemens-Frequenzumrichtern betrieben werden.

**Funktionsprinzip:** Der KTY-Fühler ist ein temperaturabhängiges Bauelement. Steigt die Temperatur, so steigt auch der Widerstand des KTY-Fühlers. Seine Kennlinie ist im Meßbereich fast linear;  $xR(T=100^{\circ}\text{C}) 970 \dots 1030 \text{ Ohm}$ .

Widerstands-Temperaturfühler KTY84-130SH



KK	Motor-Klemmenkasten
ZK	Zusatzklemmen
R	Widerstands-Temperaturfühler

Die gezeichnete Anordnung der Zusatzklemmen muß nicht der räumlichen entsprechen.



### PT100-Fühler

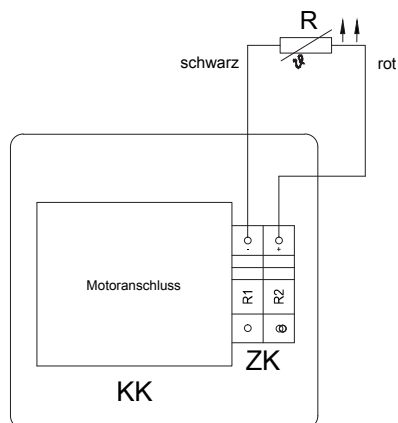
In vielen Bereichen der Industrie besteht die Notwendigkeit der präzisen Temperaturüberwachung von Motoren. PT100 Fühler zeichnen sich durch eine hohe Genauigkeit, kurze Ansprechzeit und Langzeitstabilität, sowie die Einsatzmöglichkeit in einem großen Temperaturbereich aus. PT100-Fühler sind für jeden Motor gegen Aufpreis lieferbar.

#### Technische Daten:

Nennwiderstand: 100 Ohm bei 0°C

Die Widerstandsänderung ist in DIN EN 60751 festgelegt.

Widerstands-Temperaturfühler PT 100



KK	Motor-Klemmenkasten
ZK	Zusatzklemmen
R	Widerstands-Temperaturfühler

Die gezeichnete Anordnung der Zusatzklemmen muß nicht der räumlichen entsprechen.

### Isolation

Die in den Auswahltabellen dieses Kataloges beschriebenen Getriebemotoren mit den Motorgrößen D04, D05, D06, D08, D..09S und D..09L sind in Wärmeklasse B ausgeführt. Wärmeklasse F ist auf Wunsch gegen Mehrpreis lieferbar.

Die Motoren D07 und D..09XA4 (2,2 kW) bis D..18XA4 (30kW) sowie alle mehrtourigen Motoren werden serienmäßig in Wärmeklasse F hergestellt. Isolation nach Wärmeklasse F verleiht der Wicklung einen vermehrten Schutz gegen hohe Luftfeuchtigkeit, Säuredämpfe und erschwerte Tropeneinflüsse, und macht sie außerdem rüttelsicherer und wärmebeständiger. Mehrpreis für Isolierstoffklasse F siehe Preisliste. Schutz gegen Insektenfraß (Termiten) ist durch die vollständige Kapselung (Schutzart IP65) gewährleistet, sofern die Zuleitung metallisch umhüllt ist.

### Schutzart

Bauer-Getriebemotoren ab Motorgröße D06 sind standardmäßig in Schutzart IP65 ausgeführt. Die Motorgrößen D04 und D05 werden mit glatter Motoroberfläche in IP 54 geliefert, auf Wunsch in IP65 gegen Mehrpreis. Der Motorklemmenkasten ist immer in IP 65 ausgeführt.

### Erhöhter Korrosionsschutz

Bei erhöhten Anforderungen an die Korrosionsbeständigkeit der Getriebemotoren sind drei Stufen von Korrosionsschutz lieferbar:

**CORO1:** Außenanstrich mit Zweikomponentenlack zum Schutz gegen chemisch aggressive Gase und Dämpfe.

**CORO2:** Außenanstrich wie CORO1. Zusätzlich Stahlblechlüfterhaube mit Beschichtung. Die Schrauben für den Klemmenkastendeckel sind aus nicht rostendem Stahl.

**CORO3 mit IP 66:** Lieferbar ab Motorgröße D06. Korrosionsschutz wie CORO2. Motoren grundsätzlich in Wärmeklasse F ausgeführt. Der Klemmenkastenraum ist durch Gießharz vom Motorinnenraum getrennt. Schrauben und Passflächen sind mit Spezialabdichtungen versehen. Weitere Informationen im Bauer-Sonderdruck SD1...

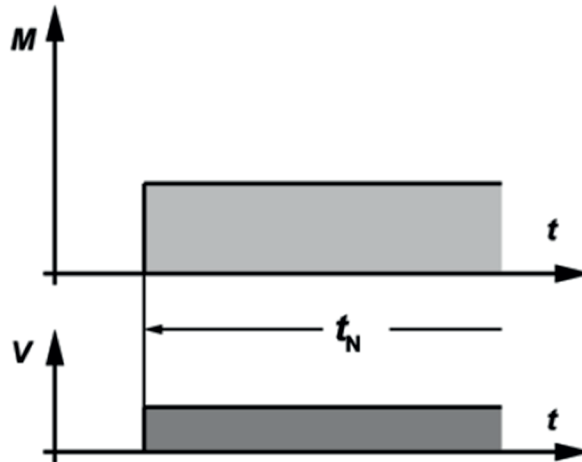
### Drehzahl der Arbeitswelle

Die in den Auswahltabellen genannten Bemessungsdrehzahlen sind Richtwerte für Belastung mit Bemessungsleistung. Sie können sich (besonders bei relativ kleinen Motoren) je nach Belastungsgrad und Erwärmungszustand ändern. Niedrigere Drehzahlen sind durch Kombination von Getrieben auf Anfrage möglich.

## Allgemein

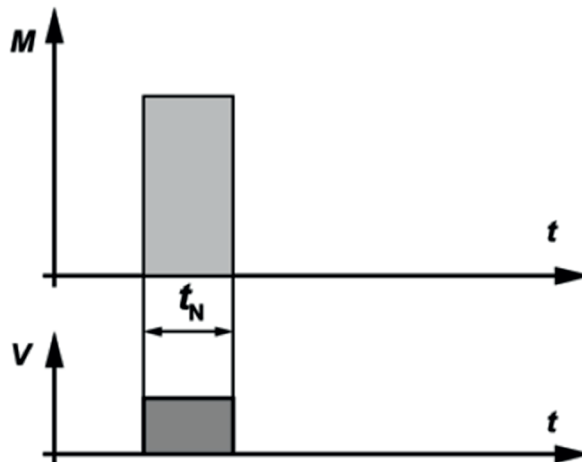
Abgesehen von speziellen Antrieben (z. B. Hebezeuge) sind listenmäßige Motoren stets für Dauerbetrieb bemessen. Wird der Antrieb mit hoher Schalzhäufigkeit betrieben, so kann dies die Wahl eines vergrößerten Motor-Modells in Sonderauslegung erforderlich machen, während umgekehrt bei ausgesprochenem Kurzzeitbetrieb oft ein wesentlich kleineres Modell gewählt werden kann. **Es ist deshalb technisch erforderlich oder wirtschaftlich vorteilhaft, jede vom Dauerbetrieb abweichende Betriebsart dem Motorhersteller anzugeben.**

## Dauerbetrieb S1



Unter Nennlast wird eine gleichbleibende Temperatur erreicht, die auch bei einem längeren Betrieb nicht mehr ansteigt. Das Betriebsmittel kann pausenlos unter Nennlast arbeiten, ohne dass die zulässige Temperatur überschritten wird.

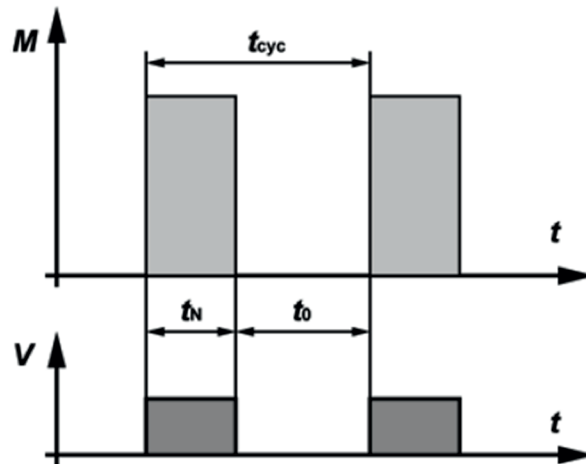
## Kurzzeitbetrieb S2



Die Betriebsdauer unter Nennlast ist kurz, im Vergleich zur folgenden Pause. Genormt sind Betriebsdauern von 10 min, 30 min, 60 min und 90 min. Für diese Zeit kann das Betriebsmittel unter Nennlast arbeiten, ohne dass die zulässige Temperatur überschritten wird.

Beispiel: S2 — 60 min

### Periodischer Aussetzbetrieb S3



S3 ist ein Betrieb, der sich aus einer Folge identischer Spiele zusammensetzt, von denen jedes eine Betriebszeit mit konstanter Belastung und eine Stillstandszeit mit stromlosen Wicklungen umfasst. Dabei wird die Übertemperatur nicht merklich vom Anlaufstrom beeinflusst. Die Betriebsdauer unter Nennlast und die folgende Pause sind kurz. Das Betriebsmittel kann unter Last nur während der eingegebenen ED (Einschaltdauer) in % der Spieldauer arbeiten.

Genormte Einschaltdauer: 15, 25, 40, oder 60%. Die Spieldauer beträgt 10 min wenn es nicht anders angegeben wird.

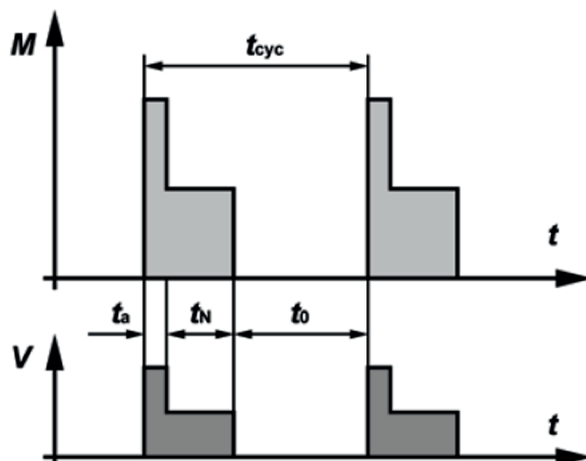
Periodischer Betrieb bedeutet, dass während der Belastungszeit kein thermischer Beharrungszustand erreicht wird

Die relative Spieldauer lässt sich dabei wie folgt bestimmen:

$$ED = \frac{t_N}{t_{cyc}} \times 100\% = \frac{t_N}{t_N + t_0} \times 100\%$$

Beispiel: S3 — 25%

### Periodischer Aussetzbetrieb mit Einfluss des Anlaufvorgangs S4



S4 ist ein Betrieb, der sich aus einer Folge identischer Spiele zusammensetzt, von denen jedes eine merkliche Anlaufzeit, eine Betriebszeit mit konstanter Belastung und eine Stillstandszeit mit stromlosen Wicklungen, umfasst.

Die Betriebsdauer unter Nennlast und die folgende Pause sind kurz. Das Betriebsmittel kann unter Last nur während der eingegebenen ED (Einschaltdauer) in % der Spieldauer arbeiten.

Genormte Einschaltdauer: 15, 20, 40, oder 60%. Die Spieldauer beträgt 10 min wenn es nicht anders angegeben wird.

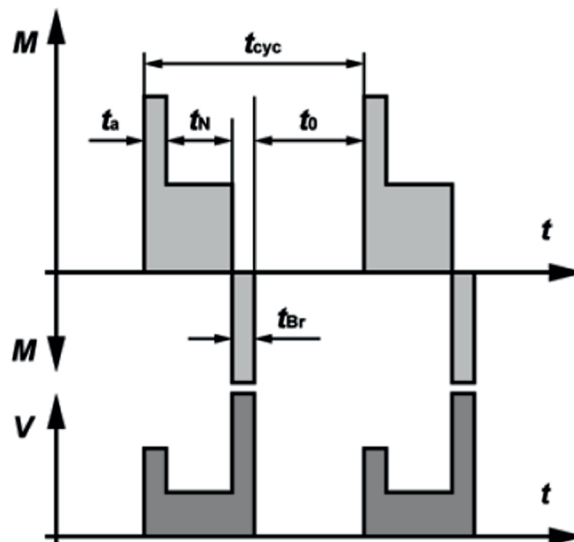
Das Lastspiel entspricht dem Betrieb S3, nur wird die zusätzliche Erwärmung während der Anlaufzeit  $t_a$  berücksichtigt.

Die relative Spieldauer lässt sich wie folgt bestimmen:

$$ED = \frac{(t_a + t_N)}{t_{cyc}} \times 100\% = \frac{t_a + t_N}{t_a + t_N + t_0} \times 100\%$$

Beispiel: S4 — 25% JM = 0,15 kgm<sup>2</sup>

#### Periodischer Aussetzbetrieb mit Elektrischer Bremsung S5



S5 ist ein Betrieb, der sich aus einer Folge identischer Spiele zusammensetzt, von denen jedes eine Anlaufzeit, eine Betriebszeit mit konstanter Belastung, eine Zeit mit schneller, elektrischer Bremsung und eine Stillstandszeit mit stromlosen Wicklungen umfasst.

Die Betriebsdauer unter Nennlast und die folgende Pause sind kurz. Das Betriebsmittel kann unter Last nur während der eingegebenen ED (Einschaltdauer) in % der Spieldauer arbeiten.

Genormte Einschaltdauer: 15, 20, 40, oder 60%. Die Spieldauer beträgt 10 min wenn es nicht anders angegeben wird.

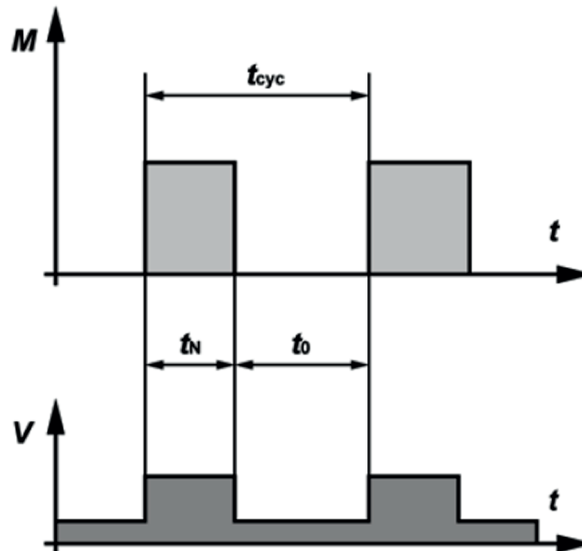
Das Lastspiel entspricht dem Betrieb S3, nur wird die zusätzliche Erwärmung während der Anlaufzeit  $t_a$  und Verzögerungszeit  $t_{Br}$  berücksichtigt.

Die Einschaltdauer lässt sich wie folgt bestimmen:

$$ED = \frac{(t_a + t_N + t_{Br})}{t_{cyc}} \times 100\% = \frac{t_a + t_N + t_{Br}}{t_a + t_N + t_{Br} + t_0} \times 100\%$$

Beispiel: S5 — 25%, JM = 0,15 kgm<sup>2</sup>, Jext = 0,7 kgm<sup>2</sup>

### Unterbrochener Periodischer Betrieb mit Aussetzbelastung S6



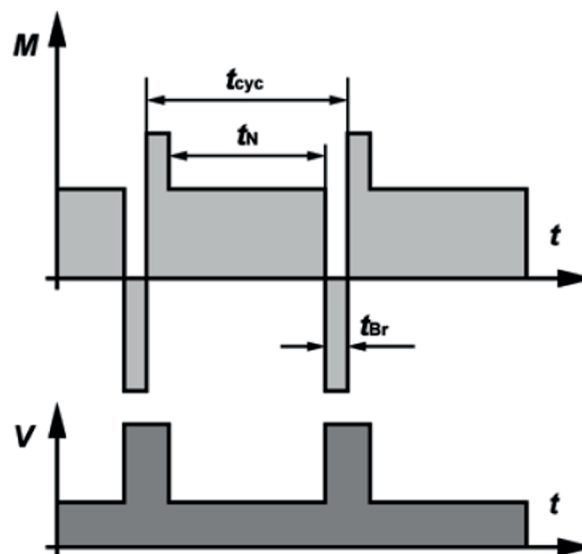
Diese Betriebsart entspricht S3, jedoch bleibt in den Belastungspausen das Betriebsmittel eingeschaltet. Es arbeitet also im Leerlauf. Die Einschaltdauer und die Spieldauer werden wie bei S3 angegeben.

Die Einschaltdauer lässt sich wie folgt bestimmen:

$$ED = \frac{t_N}{t_{cyc}} \times 100\% = \frac{t_N}{t_N + t_0} \times 100\%$$

Beispiel: S6 — 40%

### Unterbrochener Periodischer Betrieb mit elektrischer Bremsung S7



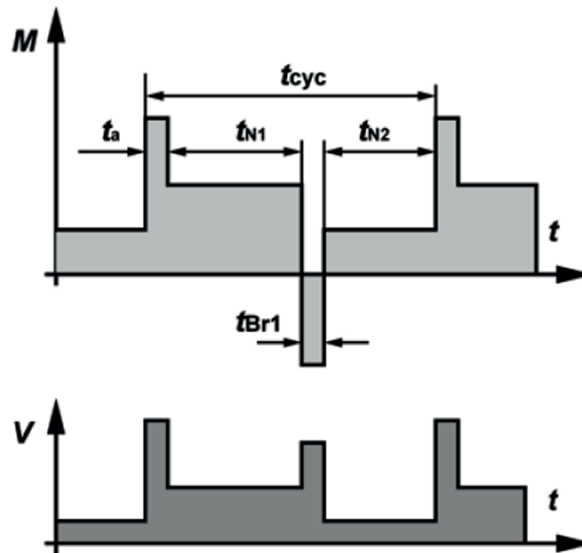
Die Maschine läuft an, wird belastet und danach elektrisch gebremst, z.B. durch das Einspeisen von Gleichstrom. Anschließend läuft sie sofort wieder hoch. Die Maschine kann in dieser Weise pausenlos arbeiten, wenn die angegebenen Trägheitsmomente  $J_M$  des Motors und  $J_{Ext}$  der Last sowie die Spieldauer nicht überschritten werden. Wenn keine Spieldauer angegeben ist, so beträgt sie 10 min.

Die Einschaltdauer lässt sich wie folgt bestimmen:

$$E_D = 1$$

Beispiel: S7 —  $J_M = 0,4 \text{ kgm}^2$   $J_{Ext} = 7,5 \text{ kgm}^2$

### Unterbrochener Betrieb mit nicht periodischen Last- und Drehzahländerung S8



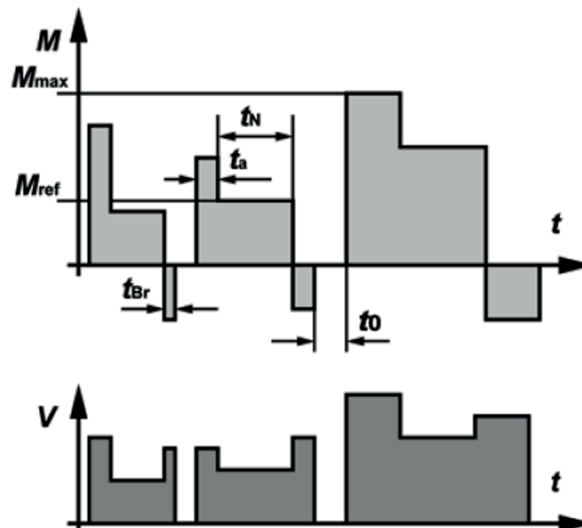
Die Maschine läuft ständig unter wechselnder Last und häufig wechselnder Drehzahl. Die Maschine kann in dieser Weise pausenlos arbeiten, wenn für jede Drehzahl die angegebenen Werte nicht überschritten werden (Trägheitsmoment  $J_M$  und  $J_{Ext}$ , Spieldauer, wenn von 10 min abweichend, Nennleistung und Einschaltdauer. Beim Trägheitsmoment von  $1 \text{ kg m}^2$  liegt ein Verhalten gegen die Beschleunigung wie bei einer Masse von  $1 \text{ kg}$  im Abstand von  $1 \text{ m}$  von der Drehachse, vor).

Die Einschaltdauer lässt sich wie folgt bestimmen:

$$ED = \frac{t_a + t_{N1}}{t_{cyc}} \times 100\% = \frac{t_{Br} + t_{N2}}{t_{cyc}} \times 100\%$$

Beispiel: S8 —  $J_M = 0,5 \text{ kgm}^2$   $J_{ext} = 6 \text{ kgm}^2$

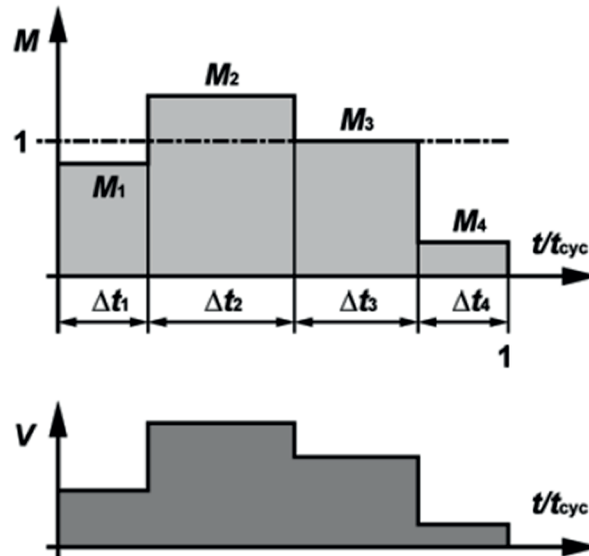
### Unterbrochener Betrieb mit nicht periodischer Last- und Drehzahländerung S9



S9 ist ein Betrieb, bei dem sich die Last und die Drehzahl innerhalb des Betriebsbereiches nichtperiodisch ändern. Dabei treten häufig Überlastungen auf, die nie über der Referenzlast liegen dürfen.

Für diese Betriebsart wird eine konstante Belastung entsprechend der Betriebsart S1 als Referenzwert  $M_{ref}$  für die Überlastung passend ausgewählt

### Betrieb mit Einzelnen konstanten Belastung S10



S10 ist ein Betrieb der nicht mehr als vier einzelne Belastungswerte enthält, von denen jeder einzelne über eine ausreichende Zeit aufrecht erhalten bleibt, die der Maschine erlaubt den thermischen Beharrungszustand, zu erreichen.

Die kleinste Belastung innerhalb eines Betriebspieltes darf den Wert Null besetzen (Leerlauf oder Stillstand mit stromlosen Wicklungen).

Die entsprechende Kennzeichnung ist S10, ergänzt durch die bezogene Größe  $p/Dt$  für die jeweilige Belastung und ihre Einwirkdauer, sowie die bezogene Größe  $TL$  für die relative thermische Lebenserwartung des Isoliersystems. Der Bezugswert für die thermische Lebenserwartung ist die thermische Lebenserwartung bei Bemessung für Dauerbetrieb und mit den zulässigen Grenzwerten der Übertemperatur entsprechend Betriebsart S1. Für eine Zeit im Stillstand mit stromlosen Wicklungen muss die Belastung durch den Buchstaben  $r$  gekennzeichnet sein.

Beispiel: S10  $p/Dt = 1,1/0,4, 1/0,3, 0,9/0,2, r/0,1, TL = 0,6$



## 4-polige IE1 Motoren für Dauerbetrieb S1, Netzfrequenz 50 Hz

Verwendung ab dem 16. Juni 2011 nur für Nicht-EG-Mitgliedstaaten, ausgenommen Bremsmotoren

$P_N$	Typ	$n_N$	$M_N$	$I_N$	Schaltung	$\cos\varphi$	$\eta$	$\eta$	$\eta$	$I_A/I_N$	$M_A/M_N$	$M_S/M_N$	$M_K/M_N$	$J_{rot}$	Bremse
kW		1/min	Nm	400 V A			(100% - Last) %	(75% - Last) %	(50% - Last) %					kgm <sup>2</sup>	
0,03	<b>D04LA4</b>	1350	0,21	0,20	Y	0,60	-	-	-	2,2	2,6	2,6	3,0	0,000175	E003
0,04	<b>D04LA4</b>	1350	0,28	0,20	Y	0,60	-	-	-	2,2	2,0	2,0	2,3	0,000175	
0,06	<b>D04LA4</b>	1350	0,42	0,30	Y	0,60	-	-	-	2,3	2,1	2,1	2,4	0,000175	
0,09	<b>D04LA4</b>	1350	0,63	0,45	Y	0,69	-	-	-	2,5	2,2	2,2	2,6	0,000175	
0,12	<b>D04LA4</b>	1350	0,84	0,46	Y	0,73	-	-	-	2,3	1,7	1,7	1,9	0,000175	
0,06	<b>D05LA4</b>	1350	0,42	0,35	Y	0,72	-	-	-	3,7	3,7	3,5	3,7	0,000295	E003
0,09	<b>D05LA4</b>	1350	0,63	0,38	Y	0,70	-	-	-	3,9	3,0	2,8	3,0	0,000295	
0,12	<b>D05LA4</b>	1350	0,85	0,42	Y	0,73	-	-	-	3,4	2,2	2,1	2,2	0,000295	
0,18	<b>D05LA4</b>	1350	1,28	0,63	Y	0,70	-	-	-	3,4	2,3	2,2	2,4	0,000295	
0,25	<b>D05LA4</b>	1350	1,75	0,88	Y	0,69	-	-	-	3,3	2,3	2,2	2,3	0,000295	
0,06	<b>D06LA4</b>	1350	0,42	0,35	Y	0,72	-	-	-	3,7	3,7	3,5	3,7	0,000295	E003
0,09	<b>D06LA4</b>	1350	0,63	0,38	Y	0,70	-	-	-	3,9	3,0	2,8	3,0	0,000295	
0,12	<b>D06LA4</b>	1350	0,85	0,42	Y	0,73	-	-	-	3,4	2,2	2,1	2,2	0,000295	
0,18	<b>D06LA4</b>	1350	1,28	0,63	Y	0,70	-	-	-	3,4	2,3	2,2	2,4	0,000295	
0,25	<b>D06LA4</b>	1350	1,76	0,89	Y	0,69	-	-	-	3,2	2,3	2,2	2,3	0,000295	
0,3	<b>D07LA4</b>	1350	2,1	1,30	Y	0,60	-	-	-	2,7	2,7	2,7	2,8	0,000385	E003
0,37	<b>D07LA4</b>	1350	2,6	1,35	Y	0,66	-	-	-	2,6	2,2	2,2	2,2	0,000385	E004
0,55	<b>DSE08MA4</b>	1400	3,75	1,45	Y	0,72	75,4	75,2	72,0	4,2	2,1	2,0	2,4	0,00115	ES(X)010 EH(X)027
0,75	<b>DSE08LA4</b>	1400	5,1	1,95	Y	0,76	75,6	76,2	72,7	4,6	2,0	2,0	2,4	0,00150	
1,1	<b>DSE08XA4</b>	1400	7,5	2,8	Y	0,75	75,5	76,8	73,5	3,7	2,0	1,8	2,2	0,00170	
1,1	<b>DSE09SA4</b>	1420	7,5	2,6	Y	0,76	80,0	80	77,5	4,9	2,5	2,2	2,8	0,00245	ES(X)010
1,5	<b>DSE09LA4</b>	1420	10,1	3,5	Y	0,76	80,7	80,9	79,5	5,0	2,5	2,3	2,9	0,00320	ES(X)027
2,2	<b>DSE09XA4</b>	1420	15	4,9	Y	0,81	80,5	81,1	80,4	4,5	2,3	2,2	2,6	0,00380	EH(X)040
3	<b>DSE11SA4</b>	1420	20	6,4	D	0,80	84,4	85,0	83,8	5,9	2,7	2,5	3,2	0,00810	ES(X)027
4	<b>DSE11MA4</b>	1420	27	8,4	D	0,83	84,0	84,9	84,2	5,5	2,8	2,4	3,0	0,01050	ES(X)040
5,5	<b>DSE11LA4</b>	1420	37	11,3	D	0,83	85,8	86,2	85,4	6,3	2,8	2,6	3,2	0,01400	ES(X)070 EH(X)125
7,5	<b>DSE13MA4</b>	1440	50	15,3	D	0,81	87,5	87,8	87,1	6,2	2,8	2,5	3,2	0,02900	ES(X)040 ES(X)070
9,5	<b>DSE13LA4</b>	1440	63	19,2	D	0,82	87,1	87,5	87,5	6,0	2,9	2,6	3	0,03450	ES(X)125 EH(X)200
11	<b>DSE16MA4</b>	1460	72	22,6	D	0,81	87,7	88,0	87,3	6,0	2,5	2,1	2,7	0,05700	ES(X)125
15	<b>DSE16LA4</b>	1460	98	29,5	D	0,83	88,9	89,2	88,9	6,1	2,5	2,1	2,8	0,07600	ES(X)200
18,5	<b>DSE16XA4</b>	1460	121	37,5	D	0,81	89,3	89,9	88,5	6,1	2,6	2,2	2,8	0,08700	EH(X)400 ZS(X)300
22	<b>DSE18LA4</b>	1460	144	41,5	D	0,85	90,7	91,0	90,5	6,8	3,0	2,5	2,8	0,16000	ES(X)250
30	<b>DSE18XA4</b>	1460	196	56	D	0,85	90,9	91,2	90,8	6,8	3,1	2,4	2,8	0,19500	EH(X)400 ZS(X)500
37	<b>DHENF22SG4</b>	1480	238	63	D	0,89	94,4	94,4	93,7	7,5	2,2	1,5	2,7	0,53	-
45	<b>DHENF22MG4</b>	1480	289	77	D	0,90	94,4	94,4	93,8	7,5	2,0	1,6	2,2	0,58	-
55	<b>DHENF25SG4</b>	1480	355	93	D	0,90	94,3	94,6	94,1	7,0	2,3	1,6	2,5	0,79	-
75	<b>DHENF28MG4</b>	1480	483	126	D	0,91	94,7	94,7	94,3	7,3	2,7	1,9	2,8	0,92	-

- $P$  Bemessungsleistung bei 50 Hz Netzfrequenz  
 $n$  Richtwert für die Bemessungsdrehzahl an der Lauferwelle bei 50 Hz Netzfrequenz  
 $M_N$  Bemessungsdrehmoment an der Lauferwelle  
 $I_N$  Bemessungsstrom bei 400 V (der Strom kann im umgekehrten Verhältnis der Spannungen von 400 V auf die gewünschte Sonderspannung umgerechnet werden)  
 $\cos\varphi$  Leistungsfaktor  
 $I_A/I_N$  Relativer Anzugsstrom  
 $M_A/M_N$  Relatives Anzugsmoment  
 $M_S/M_N$  Relatives Sattelmoment  
 $M_K/M_N$  Relatives Kippmoment  
 $J_{rot}$  Massenträgheitsmoment des Läufers  
 $\eta$  Wirkungsgrad bei unterschiedlichen Lasten  
Bremse Auslegung der Bremse siehe Kapitel 16

Wicklungsauslegung der Motoren im Standard für 400 V / 50 Hz.

Alle Motoren sind für den Spannungsbereich 380...420 V bzw. 400 V +/- 10 % geeignet, wenn sie in Warmeklasse F ausgeführt werden.

Achtung: Strom, Leistungsfaktor und Drehmoment ändern sich mit der Spannungsabweichung von 400 V.

Weitere Informationen finden Sie unter „www.bauergears.com“.

# Motoren

## Technische Daten der 50 Hz Motoren

### 4-polige IE2 Motoren für Dauerbetrieb S1, Netzfrequenz 50 Hz

P <sub>N</sub>	Typ	n <sub>N</sub>	M <sub>N</sub>	I <sub>N</sub>	Schaltung	cos φ	η	η	η	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>S</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	J <sub>rot</sub>	Bremse
kW		1/min	Nm	(400 V) A			(100% - Last) %	(75% - Last) %	(50% - Last) %					kgm <sup>2</sup>	
0,03	D04LA4	1350	0,21	0,20	Y	0,60	-	-	-	2,2	2,6	2,6	3,0	0,000175	E003
0,04	D04LA4	1350	0,28	0,20	Y	0,60	-	-	-	2,2	2,0	2,0	2,3	0,000175	
0,06	D04LA4	1350	0,42	0,30	Y	0,60	-	-	-	2,3	2,1	2,1	2,4	0,000175	
0,09	D04LA4	1350	0,63	0,45	Y	0,69	-	-	-	2,5	2,2	2,2	2,6	0,000175	
0,12	D04LA4	1350	0,84	0,46	Y	0,73	-	-	-	2,3	1,7	1,7	1,9	0,000175	
0,06	D05LA4	1350	0,42	0,35	Y	0,72	-	-	-	3,7	3,7	3,5	3,7	0,000295	E003
0,09	D05LA4	1350	0,63	0,38	Y	0,70	-	-	-	3,9	3,0	2,8	3,0	0,000295	
0,12	D05LA4	1350	0,85	0,42	Y	0,73	-	-	-	3,4	2,2	2,1	2,2	0,000295	
0,18	D05LA4	1350	1,28	0,63	Y	0,70	-	-	-	3,4	2,3	2,2	2,4	0,000295	
0,25	D05LA4	1350	1,75	0,88	Y	0,69	-	-	-	3,3	2,3	2,2	2,3	0,000295	
0,06	D06LA4	1350	0,42	0,35	Y	0,72	-	-	-	3,7	3,7	3,5	3,7	0,000295	E003
0,09	D06LA4	1350	0,63	0,38	Y	0,70	-	-	-	3,9	3,0	2,8	3,0	0,000295	
0,12	D06LA4	1350	0,85	0,42	Y	0,73	-	-	-	3,4	2,2	2,1	2,2	0,000295	
0,18	D06LA4	1350	1,28	0,63	Y	0,70	-	-	-	3,4	2,3	2,2	2,4	0,000295	
0,25	D06LA4	1350	1,76	0,89	Y	0,69	-	-	-	3,2	2,3	2,2	2,3	0,000295	
0,3	D07LA4	1350	2,1	1,30	Y	0,60	-	-	-	2,7	2,7	2,7	2,8	0,000385	E003
0,37	D07LA4	1350	2,6	1,35	Y	0,66	-	-	-	2,6	2,2	2,2	2,2	0,000385	E004
0,37	DHE08MA4	1420	2,45	1,20	Y	0,60	76,2	76,0	74,2	5,4	3,2	3,0	3,6	0,00115	ES(X)010 EH(X)027
0,55	DHE08LA4	1420	3,7	1,36	Y	0,74	78,4	78,8	76,0	6,8	2,1	2,0	2,4	0,0015	
0,75	DHE08XA4	1420	5,0	1,88	Y	0,72	79,7	80,0	77,4	4,7	2,3	2,2	2,7	0,00170	
0,75	DHE09SA4	1440	5,0	1,8	Y	0,73	81,6	81,0	77,4	5,9	3,1	2,7	3,5	0,00245	ES(X)010 ES(X)027 EH(X)040
1,1	DHE09LA4	1440	7,3	2,5	Y	0,75	82,7	82,3	79,8	5,9	2,9	2,7	3,4	0,0032	
1,5	DHE09XA4	1440	10,0	3,3	Y	0,78	83,2	82,8	79,5	5,6	3,0	2,9	3,3	0,0038	
2,2	DHE09XA4C	1440	14,5	4,75	Y	0,79	84,5	85,0	83,5	5,2	1,8	1,7	2,7	0,0053	
2,2	DHE11SA4	1440	14,5	4,6	Y	0,80	86,2	86,0	84,7	7,0	3,1	2,8	3,6	0,0081	ES(X)027 ES(X)040 ES(X)070 EH(X)125
3	DHE11MA4	1440	20	6,3	D	0,80	86,5	86,5	84,7	6,7	3,4	2,8	3,7	0,0105	
4	DHE11LA4	1440	26,5	8,4	D	0,79	87,5	87,0	85,3	7,6	3,6	3,3	4,2	0,0140	
5,5	DHE11LA4C	1460	36	11,0	D	0,82	87,8	88,2	86,5	6,7	2,1	1,6	3,4	0,0162	
5,5	DHE13MA4	1460	36	11,0	D	0,81	88,9	88,9	87,6	7,2	3,2	2,9	3,6	0,0290	
7,5	DHE13LA4	1460	49	15,1	D	0,81	88,9	89,2	87,9	7,0	3,3	3,0	3,5	0,0345	ES(X)040 ES(X)070 EH(X)125 EH(X)200
9,5	DHE16MA4	1470	62	19,7	D	0,78	89,4	89,4	86,5	6,8	2,9	2,5	3,2	0,057	ES(X)125 ES(X)200 EH(X)400 ZS(X)300
11	DHE16LA4	1470	71	22,5	D	0,78	90,3	90,0	88,3	7,9	3,5	2,9	3,8	0,076	
15	DHE16XA4	1470	97	31	D	0,77	90,6	90,8	88,8	7,2	3,2	2,8	3,5	0,087	
18,5	DHE18LA4	1470	120	35	D	0,83	91,5	91,7	90,0	7,9	3,6	3,0	3,3	0,160	ES(X)250 EH(X)400 ZS(X)500
22	DHE18XA4	1470	142	43,5	D	0,80	92,0	91,6	89,6	8,7	4,2	3,3	3,9	0,195	
30	DHENF20LG4	1480	194	53	D	0,87	93,7	93,7	93,1	7,3	2,3	1,9	3,0	0,310	-
37	DHENF22SG4	1480	238	63	D	0,89	94,4	94,4	93,7	7,5	2,2	1,5	2,7	0,53	-
45	DHENF22MG4	1480	289	77	D	0,90	94,4	94,4	93,8	7,5	2,0	1,6	2,2	0,58	-
55	DHENF25SG4	1480	355	93	D	0,90	94,3	94,6	94,1	7,0	2,3	1,6	2,5	0,79	-
75	DHENF28MG4	1480	483	126	D	0,91	94,7	94,7	94,3	7,3	2,7	1,9	2,8	0,92	-

- P Bemessungsleistung bei 50 Hz Netzfrequenz
- n Richtwert für die Bemessungsdrehzahl an der Lauferwelle bei 50 Hz Netzfrequenz
- M<sub>N</sub> Bemessungsdrehmoment an der Lauferwelle
- I<sub>N</sub> Bemessungsstrom bei 400 V (der Strom kann im umgekehrten Verhältnis der Spannungen von 400 V auf die gewünschte Sonderspannung umgerechnet werden)
- cos φ Leistungsfaktor
- I<sub>A</sub>/I<sub>N</sub> Relativer Anzugsstrom
- M<sub>A</sub>/M<sub>N</sub> Relatives Anzugsmoment
- M<sub>S</sub>/M<sub>N</sub> Relatives Sattelmoment
- M<sub>K</sub>/M<sub>N</sub> Relatives Kippmoment
- J<sub>rot</sub> Massenträgheitsmoment des Läufers
- η Wirkungsgrad bei unterschiedlichen Lasten
- Bremse Auslegung der Bremse siehe Kapitel 16

Wicklungsauslegung der Motoren im Standard für 400 V / 50 Hz.

Alle Motoren sind für den Spannungsbereich 380...420 V bzw. 400 V +/- 10 % geeignet, wenn sie in Warmeklasse F ausgeführt werden. Achtung: Strom, Leistungsfaktor und Drehmoment ändern sich mit der Spannungsabweichung von 400 V.

Weitere Informationen finden Sie unter „www.bauergears.com“.

### 4-polige IE3 Motoren für Dauerbetrieb S1, Netzfrequenz 50 Hz

P <sub>N</sub> kW	Typ	n <sub>N</sub> 1/min	M <sub>N</sub> Nm	I <sub>N</sub> 400 V A	Schaltung	cos φ	η	η	η	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>S</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	J <sub>rot</sub> kgm <sup>2</sup>
							(100% - Last) %	(75% - Last) %	(50% - Last) %					
0,75	<b>DPE09LA4</b>	1440	4,9	1,68	Y	0,76	84,0	83,2	79,9	6,6	3,3	2,7	3,7	0,0032
1,1	<b>DPE09XA4</b>	1440	7,25	2,45	Y	0,76	85,0	84,1	81,2	7,1	3,6	3,2	4,0	0,0038
1,5	<b>DPE09XA4C</b>	1460	9,8	3,25	Y	0,78	85,3	85,5	83,0	6	2,1	2	3,1	0,0053
1,5	<b>DPE11SA4</b>	1460	9,8	3,20	Y	0,79	86,8	86,0	83,0	8,2	3,5	3,0	4,3	0,0081
2,2	<b>DPE11MA4</b>	1450	14,5	4,50	Y	0,81	87,0	86,5	84,6	7,8	3,7	3,0	4,0	0,0105
3,0	<b>DPE11LA4</b>	1450	19,7	6,05	D	0,81	88,2	88,1	86,2	8,3	3,6	3	4,2	0,0140
4,0	<b>DPE11LA4C</b>	1470	26	8,3	D	0,78	88,8	88,5	86,5	7,5	2,2	2	4	0,0162
4,0	<b>DPE13MA4</b>	1460	26	7,9	D	0,82	89,1	89,1	87,5	7,7	3,4	2,5	3,7	0,0290
5,5	<b>DPE13LA4</b>	1460	35,9	8,0	D	0,81	89,6	89,6	87,5	8,0	3,9	3,5	4,1	0,0345
7,5	<b>DPE16LA4</b>	1480	48,4	14,8	D	0,81	90,5	89,6	86,7	8,5	3,8	3,1	4,0	0,076
9,5	<b>DPE16XA4</b>	1480	61	18,7	D	0,81	91,0	90,3	87,0	9,5	3,6	3,0	3,9	0,087
11	<b>DPE18LA4</b>	1480	71	21,3	D	0,82	91,5	90,6	88,5	9,3	4,5	3,6	4,0	0,160
15	<b>DPE18XA4</b>	1480	97	28,4	D	0,83	92,2	91,9	90,8	8,7	4,1	3,3	3,8	0,195

- P Bemessungsleistung bei 50 Hz Netzfrequenz
- n Richtwert für die Bemessungsdrehzahl an der Lauferwelle bei 50 Hz Netzfrequenz
- M<sub>N</sub> Bemessungsdrehmoment an der Lauferwelle
- I<sub>N</sub> Bemessungsstrom bei 400 V (der Strom kann im umgekehrten Verhältnis der Spannungen von 400 V auf die gewünschte Sonderspannung umgerechnet werden)
- cos φ Leistungsfaktor
- I<sub>A</sub>/I<sub>N</sub> Relativer Anzugsstrom
- M<sub>A</sub>/M<sub>N</sub> Relatives Anzugsmoment
- M<sub>S</sub>/M<sub>N</sub> Relatives Sattelmoment
- M<sub>K</sub>/M<sub>N</sub> Relatives Kippmoment
- J<sub>rot</sub> Massenträgheitsmoment des Läufers
- η Wirkungsgrad bei unterschiedlichen Lasten
- Bremse Auslegung der Bremse siehe Kapitel 16

Wicklungsauslegung der Motoren im Standard für 400 V / 50 Hz.

Alle Motoren sind für den Spannungsbereich 380...420 V bzw. 400 V +/- 10 % geeignet, wenn sie in Warmklasse F ausgeführt werden.

Achtung: Strom, Leistungsfaktor und Drehmoment ändern sich mit der Spannungsabweichung von 400 V.

Weitere Informationen finden Sie unter „[www.bauergears.com](http://www.bauergears.com)“.

# Motoren

## Technische Daten der 50 Hz Motoren

### 4-polige Motoren für periodischen Aussetzbetrieb S3/S6-75%, Netzfrequenz 50 Hz

$P_N$	Typ	$n_n$	$M_N$	$I_N$	Schaltung	$\cos \varphi$	$I_A/I_N$	$M_A/M_N$	$M_S/M_N$	$M_K/M_N$	$J_{rot}$	Bremse
kW		1/min	Nm	400V A							kgm <sup>2</sup>	
0,03	<b>D04LA4</b>	1350	0,21	0,20	Y	0,60	2,2	2,6	2,6	3,0	0,000175	E003
0,04	<b>D04LA4</b>	1350	0,28	0,20	Y	0,60	2,2	2,0	2,0	2,3	0,000175	
0,06	<b>D04LA4</b>	1350	0,42	0,30	Y	0,60	2,3	2,1	2,1	2,4	0,000175	
0,09	<b>D04LA4</b>	1350	0,63	0,45	Y	0,69	2,5	2,2	2,2	2,6	0,000175	
0,12	<b>D04LA4</b>	1350	0,84	0,46	Y	0,73	2,3	1,7	1,7	1,9	0,000175	
0,06	<b>D05LA4</b>	1350	0,42	0,35	Y	0,72	3,7	3,7	3,5	3,7	0,000295	E003
0,09	<b>D05LA4</b>	1350	0,63	0,38	Y	0,70	3,9	3,0	2,8	3,0	0,000295	
0,12	<b>D05LA4</b>	1350	0,85	0,42	Y	0,73	3,4	2,2	2,1	2,2	0,000295	
0,18	<b>D05LA4</b>	1350	1,28	0,63	Y	0,70	3,4	2,3	2,2	2,4	0,000295	
0,25	<b>D05LA4</b>	1350	1,75	0,88	Y	0,69	3,3	2,3	2,2	2,3	0,000295	
0,06	<b>D06LA4</b>	1350	0,42	0,35	Y	0,72	3,7	3,7	3,5	3,7	0,000295	E003
0,09	<b>D06LA4</b>	1350	0,63	0,38	Y	0,70	3,9	3,0	2,8	3,0	0,000295	
0,12	<b>D06LA4</b>	1350	0,85	0,42	Y	0,73	3,4	2,2	2,1	2,2	0,000295	
0,18	<b>D06LA4</b>	1350	1,28	0,63	Y	0,70	3,4	2,3	2,2	2,4	0,000295	
0,25	<b>D06LA4</b>	1350	1,76	0,89	Y	0,69	3,2	2,3	2,2	2,3	0,000295	
0,3	<b>D07LA4</b>	1350	2,1	1,30	Y	0,60	2,7	2,7	2,7	2,8	0,000385	E003
0,37	<b>D07LA4</b>	1350	2,6	1,35	Y	0,66	2,6	2,2	2,2	2,2	0,000385	E004
0,55	<b>DSE08MA4</b>	1400	3,75	1,45	Y	0,72	4,2	2,1	2,0	2,4	0,00115	ES(X)010 EH(X)027
0,75	<b>DSE08LA4</b>	1400	5,1	1,95	Y	0,76	4,6	2,0	2,0	2,4	0,00150	
1,1	<b>DSE08XA4</b>	1400	7,5	2,8	Y	0,75	3,7	2,0	1,8	2,2	0,00170	ES(X)010 ES(X)027 EH(X)040
1,1	<b>DSE09SA4</b>	1420	7,5	2,6	Y	0,76	4,9	2,5	2,2	2,8	0,00245	
1,5	<b>DSE09LA4</b>	1420	10,1	3,5	Y	0,76	5,0	2,5	2,3	2,9	0,00320	
2,2	<b>DSE09XA4</b>	1420	15	4,9	Y	0,81	4,5	2,3	2,2	2,6	0,00380	
3	<b>DSE11SA4</b>	1420	20	6,4	D	0,80	5,9	2,7	2,5	3,2	0,00810	ES(X)027
4	<b>DSE11MA4</b>	1420	27	8,4	D	0,83	5,5	2,8	2,4	3,0	0,01050	ES(X)040
5,5	<b>DSE11LA4</b>	1420	37	11,3	D	0,83	6,3	2,8	2,6	3,2	0,01400	ES(X)070 EH(X)125
7,5	<b>DSE13MA4</b>	1440	50	15,3	D	0,81	6,2	2,8	2,5	3,2	0,02900	ES(X)040
9,5	<b>DSE13LA4</b>	1440	63	19,2	D	0,82	6,0	2,9	2,6	3	0,03450	ES(X)125 EH(X)200
11	<b>DSE16MA4</b>	1460	72	22,6	D	0,81	6,0	2,5	2,1	2,7	0,05700	ES(X)125
15	<b>DSE16LA4</b>	1460	98	29,5	D	0,83	6,1	2,5	2,1	2,8	0,07600	ES(X)200
18,5	<b>DSE16XA4</b>	1460	121	37,5	D	0,81	6,1	2,6	2,2	2,8	0,08700	EH(X)400 ZS(X)300
22	<b>DSE18LA4</b>	1460	144	41,5	D	0,85	6,8	3,0	2,5	2,8	0,16000	ES(X)250
30	<b>DSE18XA4</b>	1460	196	56	D	0,85	6,8	3,1	2,4	2,8	0,19500	EH(X)400 ZS(X)500
37	<b>DHENF22SG4</b>	1480	238	63	D	0,89	7,5	2,2	1,5	2,7	0,53	-
45	<b>DHENF22MG4</b>	1480	289	77	D	0,90	7,5	2,0	1,6	2,2	0,58	-
55	<b>DHENF25SG4</b>	1480	355	93	D	0,90	7,0	2,3	1,6	2,5	0,79	-
75	<b>DHENF28MG4</b>	1480	483	126	D	0,91	7,3	2,7	1,9	2,8	0,92	-

- $P$  Bemessungsleistung bei 50 Hz Netzfrequenz  
 $n$  Richtwert für die Bemessungsdrehzahl an der Lauferwelle bei 50 Hz Netzfrequenz  
 $M_N$  Bemessungsdrehmoment an der Lauferwelle  
 $I_N$  Bemessungsstrom bei 400 V (der Strom kann im umgekehrten Verhältnis der Spannungen von 400 V auf die gewünschte Sonderspannung umgerechnet werden)  
 $\cos \varphi$  Leistungsfaktor  
 $I_A/I_N$  Relativer Anzugsstrom  
 $M_A/M_N$  Relatives Anzugsmoment  
 $M_S/M_N$  Relatives Sattelmoment  
 $M_K/M_N$  Relatives Kippmoment  
 $J_{rot}$  Massenträgheitsmoment des Läufers  
 Bremse Auslegung der Bremse siehe Kapitel 16

Wicklungsauslegung der Motoren im Standard für 400 V / 50 Hz.

### 4-polige Motoren für periodischen Aussetzbetrieb S3/S6, Netzfrequenz 50 Hz

P	ED	Typ	n	M <sub>N</sub>	I <sub>N</sub> (400 V)	Schaltung	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>S</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	J <sub>rot</sub>
kW			1/min	Nm	A							kgm <sup>2</sup>
0,15	15%	<b>D04LA4</b>	1350	1,05	0,60	Y	0,77	2,0	1,6	1,5	1,6	0,000175
0,3	15%	<b>D05LA4</b>	1350	2,1	0,98	Y	0,75	2,6	1,9	1,8	1,9	0,000295
0,3	60%	<b>D06LA4</b>	1350	2,1	0,98	Y	0,75	2,6	1,9	1,8	1,9	0,000295
0,55	60%	<b>D07LA4</b>	1350	3,9	1,95	Y	0,86	3,4	1,6	1,5	1,6	0,000385
0,75	60%	<b>D08MA4</b>	1400	5,1	2,0	Y	0,81	3,4	1,6	1,4	1,7	0,00115
1,1	60%	<b>D08LA4</b>	1400	7,5	2,8	Y	0,82	3,3	1,5	1,4	1,7	0,0015
1,5	60%	<b>D09SA4</b>	1400	10,2	3,6	Y	0,84	3,9	1,7	1,5	2,0	0,00245
2,2	60%	<b>D09LA4</b>	1400	15	5,0	Y	0,86	3,9	1,6	1,5	1,9	0,0032
3,0	60%	<b>D09XA4</b>	1400	20	6,8	Y	0,86	3,4	1,7	1,6	1,9	0,0038
4,0	60%	<b>D11SA4</b>	1420	26,5	8,9	Δ	0,85	4,0	1,6	1,4	2,0	0,0081
5,5	60%	<b>D11MA4</b>	1420	37	11,7	Δ	0,87	4,3	1,5	1,5	2,0	0,0105
7,5	60%	<b>D11LA4</b>	1420	50	16	Δ	0,87	4,3	1,8	1,7	2,1	0,014
9,5	60%	<b>D13MA4</b>	1420	64	19	Δ	0,87	4,9	1,9	1,6	2,2	0,029
11	60%	<b>D13LA4</b>	1420	72	22	Δ	0,84	5,5	2,4	2,1	2,5	0,0345
13,5	60%	<b>D16MA4</b>	1460	88	28	Δ	0,84	5,6	2,1	1,6	2,0	0,057
18,5	60%	<b>D16LA4</b>	1460	121	38	Δ	0,84	5,1	1,9	1,6	2,1	0,076
22	60%	<b>D16XA4</b>	1460	144	46	Δ	0,84	5,4	2,1	1,3	2,0	0,087
30	60%	<b>D18LA4</b>	1460	196	58	Δ	0,89	4,5	1,8	1,5	1,7	0,16
37	60%	<b>D18XA4</b>	1460	240	74	Δ	0,85	5,5	2,5	2,0	2,3	0,195

- P Bemessungsleistung bei 50 Hz Netzfrequenz, Betriebsart S3/S6
- ED Zulässige relative Einschaltdauer pro Schaltspiel
- n Richtwert für die Bemessungsdrehzahl an der Läuferwelle bei 50 Hz Netzfrequenz
- M<sub>N</sub> Bemessungsdrehmoment an der Läuferwelle
- I<sub>N</sub> Bemessungsstrom bei 400 V (der Strom kann im umgekehrten Verhältnis der Spannungen von 400 V auf die gewünschte Sonderspannung umgerechnet werden)
- cos φ Leistungsfaktor
- I<sub>A</sub>/I<sub>N</sub> Relativer Anzugsstrom
- M<sub>A</sub>/M<sub>N</sub> Relatives Anzugsmoment
- M<sub>S</sub>/M<sub>N</sub> Relatives Sattelmoment
- M<sub>K</sub>/M<sub>N</sub> Relatives Kippmoment
- J<sub>rot</sub> Massenträgheitsmoment des Läufers

Wicklungsauslegung der Motoren im Standard für 400 V / 50 Hz.

Weitere Informationen finden Sie unter „[www.bauergears.com](http://www.bauergears.com)“.

# Motoren

## Technische Daten der 50 Hz Motoren

### 4/2-polige Motoren Δ/YY für Dauerbetrieb S1, Netzfrequenz 50 Hz

P	Typ	n	M <sub>N</sub>	I <sub>N</sub> (400 V)	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>S</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	J <sub>rot</sub>
kW		1/min	Nm	A						kgm <sup>2</sup>
0,03 / 0,06	<b>D04LA42</b>	1350 / 2700	0,210 / 0,210	0,230 / 0,250	0,56 / 0,67	2,2 / 3,1	3,4 / 3,1	3,4 / 3,1	3,6 / 3,3	0,000175
0,04 / 0,08	<b>D04LA42</b>	1350 / 2700	0,280 / 0,280	0,250 / 0,280	0,60 / 0,75	2,0 / 2,8	3,0 / 2,1	3,0 / 2,1	3,3 / 2,2	0,000175
0,06 / 0,12	<b>D05LA42</b>	1350 / 2700	0,420 / 0,420	0,450 / 0,450	0,50 / 0,75	2,8 / 3,3	3,1 / 2,0	3,0 / 1,9	3,8 / 2,6	0,000295
0,08 / 0,16	<b>D05LA42</b>	1350 / 2700	0,56 / 0,56	0,50 / 0,50	0,55 / 0,75	2,8 / 3,3	3,1 / 1,8	2,7 / 1,7	3,4 / 2,3	0,000295
0,06 / 0,12	<b>D06LA42</b>	1350 / 2700	0,420 / 0,420	0,450 / 0,450	0,50 / 0,75	2,8 / 3,3	3,1 / 2,0	3,0 / 1,9	3,8 / 2,6	0,000295
0,08 / 0,16	<b>D06LA42</b>	1350 / 2700	0,56 / 0,56	0,50 / 0,50	0,55 / 0,75	2,8 / 3,3	2,8 / 1,8	2,7 / 1,7	3,4 / 2,3	0,000295
0,11 / 0,22	<b>D06LA42</b>	1350 / 2700	0,77 / 0,77	0,68 / 0,68	0,55 / 0,75	2,8 / 3,3	2,8 / 1,8	2,7 / 1,7	3,4 / 2,3	0,000295
0,16 / 0,32	<b>D06LA42</b>	1350 / 2700	1,13 / 1,13	0,90 / 0,90	0,57 / 0,80	2,8 / 3,3	2,6 / 1,7	2,5 / 1,6	3,1 / 2,1	0,000295
0,2 / 0,4	<b>D07LA42</b>	1400 / 2800	1,35 / 1,37	1,10 / 1,15	0,58 / 0,81	2,9 / 3,6	2,8 / 1,6	2,7 / 1,4	3,0 / 2,0	0,000385
0,28 / 0,56	<b>D08MA42</b>	1400 / 2800	1,90 / 1,90	1,20 / 1,75	0,61 / 0,81	3,4 / 2,9	2,3 / 1,5	2,3 / 1,4	3,0 / 1,9	0,00115
0,4 / 0,8	<b>D08LA42</b>	1400 / 2800	2,7 / 2,7	1,53 / 1,91	0,62 / 0,90	4,7 / 5,1	2,7 / 1,8	2,4 / 1,7	3,1 / 2,1	0,0015
0,5 / 1,0	<b>D09SA42</b>	1400 / 2800	3,4 / 3,4	1,65 / 2,4	0,71 / 0,91	5,1 / 4,5	2,9 / 1,9	2,9 / 1,9	3,6 / 2,4	0,00245
0,7 / 1,4	<b>D09SA42</b>	1400 / 2800	4,8 / 4,8	2,1 / 3,3	0,71 / 0,93	4,7 / 4,1	2,5 / 1,6	2,5 / 1,6	3,1 / 2,0	0,00245
1,0 / 2,0	<b>D09LA42</b>	1400 / 2800	6,8 / 6,8	2,9 / 4,7	0,72 / 0,94	4,7 / 4,1	2,5 / 1,6	2,5 / 1,6	3,1 / 2,0	0,0032
1,2 / 2,4	<b>D09XA42</b>	1400 / 2800	8,2 / 8,1	3,8 / 5,7	0,65 / 0,87	6,2 / 3,0	2,5 / 1,8	2,5 / 1,8	3,1 / 2,3	0,0038
1,4 / 2,8	<b>D11SA42</b>	1420 / 2840	9,4 / 9,4	3,6 / 6,2	0,74 / 0,90	6,4 / 4,5	3,0 / 1,7	2,6 / 1,5	4,1 / 2,8	0,0081
2,0 / 4,0	<b>D11MA42</b>	1420 / 2840	13,5 / 13,4	5,5 / 9,1	0,70 / 0,90	6,7 / 5,4	3,1 / 2,1	2,7 / 1,6	3,7 / 2,5	0,0105
2,5 / 5,0	<b>D11LA42</b>	1420 / 2840	16,8 / 16,8	5,5 / 10	0,79 / 0,92	5,6 / 4,6	2,8 / 1,8	2,7 / 1,7	3,7 / 2,6	0,014
3,5 / 7,0	<b>D13MA42</b>	1420 / 2840	23 / 23	8,2 / 14,8	0,76 / 0,91	6,8 / 5,2	3,4 / 2,0	2,8 / 1,8	3,8 / 2,7	0,029
4,5 / 9,0	<b>D13LA42</b>	1420 / 2840	30,2 / 30	10,5 / 19	0,76 / 0,91	6,8 / 5,5	3,2 / 1,9	2,6 / 1,7	3,5 / 2,5	0,0345
5,5 / 11	<b>D16MA42</b>	1460 / 2920	36 / 36	13,4 / 24	0,73 / 0,91	6,7 / 5,2	2,8 / 1,7	2,2 / 1,2	3,2 / 2,3	0,057
7,0 / 14	<b>D16LA42</b>	1460 / 2920	45 / 45	15,5 / 28,5	0,78 / 0,92	7,2 / 5,5	3,1 / 2,1	2,5 / 1,4	3,3 / 2,6	0,076
9,0 / 18	<b>D16XA42</b>	1460 / 2920	58 / 58	19,1 / 36,5	0,79 / 0,92	7,9 / 5,8	2,8 / 1,8	2,2 / 1,2	3,1 / 2,2	0,087
12,5 / 25	<b>D18LA42</b>	1460 / 2920	81 / 81	28,5 / 49,5	0,77 / 0,89	8,5 / 7,0	3,9 / 2,8	3,3 / 1,9	3,8 / 3,0	0,16
16 / 32	<b>D18XA42</b>	1460 / 2920	104 / 104	38,5 / 66	0,77 / 0,89	7,8 / 6,5	3,7 / 2,6	3,1 / 1,8	3,6 / 2,8	0,195

- P Bemessungsleistungen bei 50 Hz Netzfrequenz
- n Richtwerte für die Bemessungsdrehzahlen an der Läuferwelle bei 50Hz Netzfrequenz
- M<sub>N</sub> Bemessungsdrehmomente an der Läuferwelle
- I<sub>N</sub> Bemessungsströme bei 400 V Δ/YY (die Ströme können im umgekehrten Verhältnis der Spannungen von 400 V auf die gewünschte Sonderspannung umgerechnet werden)
- cos φ Leistungsfaktoren
- I<sub>A</sub>/I<sub>N</sub> Relative Anzugsströme
- M<sub>A</sub>/M<sub>N</sub> Relative Anzugsmomente
- M<sub>S</sub>/M<sub>N</sub> Relative Sattelmomente
- M<sub>K</sub>/M<sub>N</sub> Relative Kippmomente
- J<sub>rot</sub> Massenträgheitsmoment des Läufers

8/4-polige Motoren  $\Delta/YY$  für Dauerbetrieb S1, Netzfrequenz 50 Hz

P	Typ	n	M <sub>N</sub>	I <sub>N</sub> (400 V)	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>S</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	J <sub>rot</sub>
kW		1/min	Nm	A						kgm <sup>2</sup>
0,03 / 0,06	<b>D05LA84</b>	680 / 1350	0,410 / 0,420	0,300 / 0,280	0,52 / 0,71	1,6 / 2,6	2,7 / 1,9	1,6 / 1,7	1,6 / 1,7	0,000295
0,03 / 0,06	<b>D06LA84</b>	680 / 1350	0,410 / 0,420	0,300 / 0,280	0,52 / 0,71	1,6 / 2,6	2,7 / 1,9	1,6 / 1,7	1,6 / 1,7	0,000295
0,04 / 0,08	<b>D06LA84</b>	680 / 1350	0,54 / 0,56	0,480 / 0,400	0,52 / 0,66	1,4 / 2,2	2,6 / 2,1	1,6 / 1,7	1,6 / 1,7	0,000295
0,06 / 0,12	<b>D07LA84</b>	680 / 1350	0,84 / 0,85	0,70 / 0,60	0,52 / 0,66	1,7 / 2,8	3,2 / 1,7	3,2 / 1,5	3,3 / 2,1	0,000385
0,06 / 0,12	<b>D08LA84</b>	700 / 1400	0,81 / 0,81	0,50 / 0,50	0,61 / 0,83	2,8 / 3,7	3,1 / 2,3	3,1 / 2,3	3,7 / 3,1	0,0025
0,08 / 0,16	<b>D08LA84</b>	700 / 1400	1,08 / 1,09	0,62 / 0,62	0,61 / 0,83	2,8 / 3,7	3,0 / 2,2	3,0 / 2,2	3,5 / 3,0	0,0025
0,11 / 0,22	<b>D08LA84</b>	700 / 1400	1,49 / 1,5	0,80 / 0,80	0,61 / 0,83	2,8 / 3,7	2,8 / 2,1	2,8 / 2,1	3,3 / 2,8	0,0025
0,14 / 0,28	<b>D08LA84</b>	700 / 1400	1,90 / 1,91	1,00 / 1,00	0,61 / 0,83	2,8 / 3,7	2,8 / 2,1	2,8 / 2,1	3,3 / 2,8	0,0025
0,2 / 0,4	<b>D08LA84</b>	700 / 1400	2,7 / 2,7	1,10 / 1,30	0,55 / 0,77	2,8 / 3,7	2,3 / 1,7	2,3 / 1,7	2,7 / 2,3	0,0025
0,25 / 0,5	<b>D09XC84</b>	700 / 1400	3,3 / 3,3	1,40 / 1,40	0,48 / 0,77	2,9 / 5,0	2,7 / 2,0	2,7 / 2,1	3,1 / 2,7	0,006
0,28 / 0,56	<b>D09XC84</b>	700 / 1400	3,8 / 3,8	1,40 / 1,50	0,57 / 0,80	2,9 / 4,9	2,4 / 1,8	2,4 / 1,9	2,8 / 2,4	0,006
0,4 / 0,8	<b>D09XC84</b>	700 / 1400	5,4 / 5,4	1,95 / 2,4	0,55 / 0,79	2,8 / 4,2	2,3 / 1,7	2,3 / 1,8	2,7 / 2,3	0,006
0,5 / 1,0	<b>D09XC84</b>	700 / 1400	6,8 / 6,8	2,4 / 2,6	0,55 / 0,81	2,6 / 4,0	2,2 / 1,6	2,2 / 1,6	2,5 / 2,2	0,006
0,8 / 1,6	<b>D11LC84</b>	710 / 1420	10,7 / 10,7	3,0 / 4,2	0,63 / 0,88	3,5 / 4,3	2,2 / 1,9	2,2 / 1,7	2,8 / 2,7	0,0215
1,1 / 2,2	<b>D11LC84</b>	710 / 1420	14,7 / 14,7	4,0 / 5,0	0,58 / 0,85	3,9 / 5,7	2,3 / 2,1	2,3 / 1,7	2,7 / 2,5	0,0215
1,6 / 3,2	<b>D11LC84</b>	710 / 1420	21,5 / 21,5	6,0 / 7,6	0,59 / 0,84	3,7 / 5,1	2,2 / 1,8	2,1 / 1,5	2,6 / 2,3	0,0215
2,2 / 4,4	<b>D13LC84</b>	710 / 1420	29 / 29	7,2 / 9,5	0,60 / 0,87	4,3 / 5,4	2,1 / 1,7	2,1 / 1,4	2,9 / 2,8	0,046
2,8 / 5,6	<b>D13LC84</b>	710 / 1420	37,5 / 37,5	9,4 / 12,3	0,60 / 0,86	4,3 / 5,4	2,1 / 1,7	2,1 / 1,4	2,9 / 2,8	0,046
3,5 / 7,0	<b>D16MA84</b>	730 / 1460	45,8 / 45,5	13,9 / 15,6	0,59 / 0,84	3,3 / 4,9	2,1 / 1,8	1,8 / 1,4	2,1 / 2,2	0,057
5,0 / 10	<b>D16LA84</b>	730 / 1460	65 / 65	17,5 / 20,5	0,57 / 0,87	3,6 / 5,6	2,1 / 1,8	1,9 / 1,4	2,1 / 2,2	0,076
7,0 / 14	<b>D16XA84</b>	730 / 1460	91 / 91	24,5 / 29	0,60 / 0,84	3,3 / 5,2	2,1 / 1,9	2,0 / 1,6	2,1 / 2,4	0,087
8,0 / 16	<b>D18LA84</b>	730 / 1460	105 / 104	24 / 32,5	0,60 / 0,86	3,7 / 5,5	2,2 / 2,2	1,8 / 1,8	1,9 / 2,1	0,16
10 / 20	<b>D18XA84</b>	730 / 1460	130 / 130	30 / 41	0,60 / 0,86	3,7 / 5,5	2,2 / 2,2	1,8 / 1,8	1,9 / 2,1	0,195

P	Bemessungsleistungen bei 50 Hz Netzfrequenz
n	Richtwerte für die Bemessungsdrehzahlen an der Läuferwelle bei 50 Hz Netzfrequenz
M <sub>N</sub>	Bemessungsdrehmomente an der Läuferwelle
I <sub>N</sub>	Bemessungsströme bei 400 V $\Delta/YY$ (die Ströme können im umgekehrten Verhältnis der Spannungen von 400 V auf die gewünschte Sonderspannung umgerechnet werden)
cos φ	Leistungsfaktoren
I <sub>A</sub> /I <sub>N</sub>	Relative Anzugsströme
M <sub>A</sub> /M <sub>N</sub>	Relative Anzugsmomente
M <sub>S</sub> /M <sub>N</sub>	Relative Sattelmomente
M <sub>K</sub> /M <sub>N</sub>	Relative Kippmomente
J <sub>rot</sub>	Massenträgheitsmoment des Läufers

# Motoren

## Technische Daten der 50 Hz Motoren

### 8/2-polige Motoren Y/Y für periodischen Aussetzbetrieb S3-25/75%, Netzfrequenz 50 Hz

P	ED	Typ	n	M <sub>N</sub>	I <sub>N</sub> (400 V)	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>S</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	J <sub>rot</sub>
kW			1/min	Nm	A						kgm <sup>2</sup>
0,04 / 0,16	25/75%	<b>D05LA82</b>	680 / 2700	0,56 / 0,56	0,400 / 0,80	0,63 / 0,75	1,6 / 3,2	1,9 / 2,2	1,9 / 2,1	2,0 / 2,3	0,000295
0,05 / 0,20	25/75%	<b>D06LA82</b>	680 / 2700	0,70 / 0,70	0,51 / 1,02	0,63 / 0,75	1,4 / 2,8	1,7 / 2,0	1,7 / 1,9	1,8 / 2,1	0,000295
0,063 / 0,25	25/75%	<b>D07LA82</b>	650 / 2840	0,87 / 0,87	0,60 / 1,20	0,69 / 0,62	1,4 / 2,6	1,6 / 1,4	1,6 / 1,4	1,8 / 2,7	0,000385
0,071 / 0,28	25/75%	<b>D07LA82</b>	650 / 2840	0,99 / 0,98	0,65 / 1,40	0,69 / 0,68	1,4 / 2,6	1,5 / 1,3	1,5 / 1,3	1,7 / 2,6	0,000385
0,063 / 0,25	25/75%	<b>D08LA82</b>	700 / 2800	0,85 / 0,85	0,55 / 0,70	0,55 / 0,87	2,8 / 4,0	2,4 / 2,6	2,4 / 2,5	2,8 / 3,0	0,0015
0,09 / 0,36	25/75%	<b>D08LA82</b>	700 / 2800	1,22 / 1,22	0,70 / 1,05	0,60 / 0,92	2,9 / 4,5	2,0 / 2,6	2,0 / 2,5	2,4 / 2,9	0,0015
0,12 / 0,5	25/75%	<b>D08LA82</b>	700 / 2800	1,70 / 1,70	0,95 / 1,43	0,60 / 0,92	2,9 / 4,5	2,0 / 2,6	2,0 / 2,5	2,4 / 2,9	0,0015
0,16 / 0,63	25/75%	<b>D08LA82</b>	700 / 2800	2,1 / 2,1	1,20 / 1,45	0,63 / 0,90	2,0 / 4,6	1,8 / 2,1	1,8 / 2,0	2,2 / 2,4	0,0015
0,25 / 1,0	25/75%	<b>D09XA82</b>	700 / 2800	3,4 / 3,4	1,30 / 2,3	0,62 / 0,90	2,2 / 5,2	1,9 / 2,3	1,9 / 2,3	2,0 / 2,6	0,0038
0,36 / 1,4	25/75%	<b>D09XA82</b>	700 / 2800	4,9 / 4,8	2,1 / 3,3	0,57 / 0,87	2,0 / 4,5	1,9 / 2,1	1,9 / 2,1	2,0 / 2,4	0,0038
0,45 / 1,8	25/75%	<b>D09XA82</b>	700 / 2800	6,1 / 6,1	2,4 / 4,3	0,65 / 0,89	2,0 / 4,3	1,7 / 2,0	1,7 / 2,0	2,0 / 2,5	0,0038
0,56 / 2,2	25/75%	<b>D11LA82</b>	710 / 2840	7,5 / 7,3	2,3 / 4,7	0,60 / 0,94	3,2 / 4,9	1,9 / 2,9	1,9 / 2,4	2,2 / 2,9	0,014
0,71 / 2,8	25/75%	<b>D11LA82</b>	710 / 2840	9,5 / 9,4	2,8 / 5,6	0,58 / 0,94	2,5 / 4,7	1,9 / 2,3	1,9 / 2,0	2,1 / 2,4	0,014
0,90 / 3,6	25/75%	<b>D11LA82</b>	710 / 2840	12,1 / 12,1	3,5 / 7,9	0,58 / 0,94	2,5 / 4,5	1,8 / 2,0	1,8 / 1,8	2,0 / 2,1	0,014
1,10 / 4,5	25/75%	<b>D13LA82</b>	710 / 2840	14,7 / 15,1	4,0 / 10,1	0,59 / 0,90	2,8 / 5,4	1,8 / 2,5	1,8 / 1,8	2,3 / 2,7	0,0345
1,25 / 5,0	25/75%	<b>D13LA82</b>	710 / 2840	16,8 / 16,8	4,5 / 11,5	0,59 / 0,88	2,9 / 5,4	1,6 / 2,3	1,6 / 1,8	2,1 / 2,7	0,0345
1,6 / 6,3	25/75%	<b>D16XA82</b>	730 / 2920	20 / 20,5	7,6 / 13,5	0,48 / 0,88	3,6 / 6,5	2,4 / 3,0	2,2 / 2,1	2,7 / 3,0	0,087
2,0 / 8,0	25/75%	<b>D16XA82</b>	730 / 2920	25,5 / 26	9,5 / 17	0,50 / 0,89	3,6 / 6,1	2,4 / 3,0	2,1 / 2,0	2,7 / 3,0	0,087
2,8 / 11	25/75%	<b>D16XA82</b>	730 / 2920	36,6 / 36	11,5 / 24	0,53 / 0,91	3,0 / 5,9	1,8 / 2,9	1,6 / 2,0	1,9 / 2,8	0,087
3,6 / 14	25/75%	<b>D18XA82</b>	730 / 2920	47 / 45,5	13,6 / 30,5	0,55 / 0,91	3,3 / 4,9	1,7 / 2,2	1,6 / 1,5	2,1 / 2,4	0,195
4,0 / 16	25/75%	<b>D18XA82</b>	730 / 2920	52 / 52	15,1 / 34,5	0,55 / 0,91	3,3 / 4,9	1,7 / 2,2	1,6 / 1,5	2,1 / 2,4	0,195
5,0 / 20	25/75%	<b>D18XA82</b>	730 / 2920	65 / 65	18,8 / 43	0,55 / 0,91	3,3 / 4,9	1,7 / 2,2	1,6 / 1,5	2,1 / 2,4	0,195

- P Bemessungsleistungen bei 50 Hz Netzfrequenz, Betriebsart S3-25/75%
- n Richtwerte für die Bemessungsdrehzahlen an der Läuferwelle bei 50 Hz Netzfrequenz
- M<sub>N</sub> Bemessungsdrehmomente an der Läuferwelle
- I<sub>N</sub> Bemessungsströme bei 400 V Y/Y (die Ströme können im umgekehrten Verhältnis der Spannungen von 400 V auf die gewünschte Sonderspannung umgerechnet werden)
- cos φ Leistungsfaktoren
- I<sub>A</sub>/I<sub>N</sub> Relative Anzugsströme
- M<sub>A</sub>/M<sub>N</sub> Relative Anzugsmomente
- M<sub>S</sub>/M<sub>N</sub> Relative Sattelmomente
- M<sub>K</sub>/M<sub>N</sub> Relative Kippmomente
- J<sub>rot</sub> Massenträgheitsmoment des Läufers



## 12/2-polige Motoren Y/Y für periodischen Aussetzbetrieb S3-25/75%, Netzfrequenz 50 Hz

P	ED	Typ	n	M <sub>N</sub>	I <sub>N</sub> (400 V)	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>S</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	J <sub>rot</sub>
kW			1/min	Nm	A						kgm <sup>2</sup>
0,045 / 0,28	25/75%	<b>D08LA122</b>	470 / 2800	0,92 / 0,95	0,55 / 0,86	0,70 / 0,90	1,4 / 4,5	1,9 / 2,4	1,9 / 2,4	1,9 / 2,7	0,0015
0,063 / 0,4	25/75%	<b>D08LA122</b>	470 / 2800	1,29 / 1,36	0,66 / 1,10	0,70 / 0,90	1,4 / 4,5	1,7 / 2,2	1,7 / 2,2	1,7 / 2,4	0,0015
0,09 / 0,56	25/75%	<b>D08LA122</b>	470 / 2800	1,85 / 1,91	1,00 / 1,45	0,63 / 0,89	1,4 / 4,1	1,7 / 2,1	1,7 / 2,3	1,8 / 2,4	0,0015
0,11 / 0,71	25/75%	<b>D09XA122</b>	470 / 2800	2,3 / 2,4	1,05 / 1,60	0,59 / 0,88	1,5 / 5,5	1,7 / 2,7	1,7 / 2,6	1,8 / 3,3	0,0038
0,16 / 1,0	25/75%	<b>D09XA122</b>	470 / 2800	3,2 / 3,4	1,70 / 2,4	0,62 / 0,89	1,5 / 5,5	1,8 / 2,6	1,8 / 2,5	1,8 / 3,3	0,0038
0,20 / 1,25	25/75%	<b>D09XA122</b>	470 / 2800	4,1 / 4,2	2,0 / 3,0	0,62 / 0,89	1,5 / 5,0	1,7 / 2,4	1,7 / 2,3	1,7 / 3,1	0,0038
0,25 / 1,6	25/75%	<b>D11LA122</b>	470 / 2840	5,1 / 5,3	2,3 / 3,4	0,53 / 0,95	1,6 / 4,9	1,7 / 2,6	1,7 / 2,4	2,0 / 2,8	0,014
0,32 / 2,0	25/75%	<b>D11LA122</b>	470 / 2840	6,5 / 6,7	2,9 / 4,0	0,53 / 0,94	1,6 / 4,7	1,7 / 2,5	1,7 / 2,2	2,0 / 2,7	0,014
0,45 / 2,8	25/75%	<b>D11LA122</b>	470 / 2840	9,2 / 9,4	4,5 / 5,6	0,52 / 0,94	1,6 / 4,7	1,5 / 2,3	1,5 / 2,0	1,8 / 2,4	0,014
0,63 / 4,0	25/75%	<b>D13LA122</b>	470 / 2840	12,9 / 13,4	4,1 / 8,6	0,45 / 0,95	1,6 / 5,6	1,6 / 2,4	1,6 / 1,8	1,8 / 2,7	0,0345
0,80 / 5,0	25/75%	<b>D13LA122</b>	470 / 2840	16,3 / 16,8	6,3 / 11,3	0,41 / 0,92	1,7 / 5,3	1,5 / 2,7	1,5 / 1,9	2,0 / 2,9	0,0345
1,0 / 6,3	25/75%	<b>D16XA122</b>	490 / 2920	19,6 / 20	8,0 / 13,4	0,35 / 0,90	2,2 / 6,3	1,9 / 2,7	1,9 / 1,7	2,4 / 2,8	0,087
1,25 / 8,0	25/75%	<b>D16XA122</b>	490 / 2920	24,5 / 26	9,9 / 16,9	0,35 / 0,90	2,2 / 6,3	1,9 / 2,7	1,9 / 1,7	2,4 / 2,8	0,087
1,6 / 10	25/75%	<b>D16XA122</b>	490 / 2920	30,5 / 32	10,5 / 21	0,40 / 0,92	1,9 / 5,4	1,6 / 2,4	1,6 / 1,4	2,1 / 2,4	0,087
2,4 / 14	25/75%	<b>D18XA122</b>	490 / 2920	47 / 45	16,6 / 31	0,39 / 0,91	1,8 / 4,3	1,6 / 2,6	1,7 / 2,0	1,9 / 2,6	0,195
2,5 / 16	60/60%	<b>D18XA122</b>	490 / 2920	49 / 52	15,5 / 31	0,46 / 0,92	1,8 / 5,4	1,6 / 2,5	1,4 / 1,5	1,6 / 2,6	0,195
2,8 / 18	10/40%	<b>D18XA122</b>	490 / 2920	55 / 58	19,3 / 39,5	0,39 / 0,91	1,8 / 4,3	1,6 / 2,6	1,7 / 2,0	1,9 / 2,6	0,195

P	Bemessungsleistungen bei 50 Hz Netzfrequenz, Betriebsart S3-25/75%
n	Richtwerte für die Bemessungsdrehzahlen an der Läuferwelle bei 50 Hz Netzfrequenz
M <sub>N</sub>	Bemessungsdrehmomente an der Läuferwelle
I <sub>N</sub>	Bemessungsströme bei 400 V Y/Y (die Ströme können im umgekehrten Verhältnis der Spannungen von 400 V auf die gewünschte Sonderspannung umgerechnet werden)
cos φ	Leistungsfaktoren
I <sub>A</sub> /I <sub>N</sub>	Relative Anzugsströme
M <sub>A</sub> /M <sub>N</sub>	Relative Anzugsmomente
M <sub>S</sub> /M <sub>N</sub>	Relative Sattelmomente
M <sub>K</sub> /M <sub>N</sub>	Relative Kippmomente
J <sub>rot</sub>	Massenträgheitsmoment des Läufers

### 4-polige IE1 Motoren für Dauerbetrieb S1, Netzfrequenz 60 Hz

Verwendung ab dem 16. Juni 2011 nur für Nicht-EG-Mitgliedstaaten, ausgenommen Bremsmotoren

P <sub>N</sub>	Typ	n <sub>N</sub>	M <sub>N</sub>	I <sub>N</sub>	Schaltung	cos φ	η	η	η	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>S</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	J <sub>rot</sub>	Bremse
kW		1/min	Nm	460 V A			(100% - Last) %	(75% - Last) %	(50% - Last) %					kgm <sup>2</sup>	
0,03	D04LA4	1620	0,17	0,18	Y	0,60	-	-	-	2,4	2,9	2,9	3,3	0,000175	E003
0,04	D04LA4	1620	0,23	0,18	Y	0,60	-	-	-	2,4	2,2	2,2	2,5	0,000175	
0,06	D04LA4	1620	0,35	0,28	Y	0,60	-	-	-	2,5	2,3	2,3	2,7	0,000175	
0,09	D04LA4	1620	0,52	0,40	Y	0,69	-	-	-	2,7	2,4	2,4	2,9	0,000175	
0,12	D04LA4	1620	0,7	0,42	Y	0,73	-	-	-	2,5	1,9	1,9	2,1	0,000175	
0,06	D05LA4	1620	0,35	0,32	Y	0,72	-	-	-	4,1	4,1	3,8	4,1	0,000295	E003
0,09	D05LA4	1620	0,52	0,35	Y	0,70	-	-	-	4,3	3,3	3,1	3,3	0,000295	
0,12	D05LA4	1620	0,7	0,38	Y	0,73	-	-	-	3,7	2,4	2,3	2,4	0,000295	
0,18	D05LA4	1620	1,06	0,58	Y	0,70	-	-	-	3,7	2,5	2,4	2,6	0,000295	
0,25	D05LA4	1620	1,45	0,80	Y	0,69	-	-	-	3,6	2,5	2,4	2,5	0,000295	
0,06	D06LA4	1620	0,35	0,32	Y	0,72	-	-	-	4,1	4,1	3,8	4,1	0,000295	E003
0,09	D06LA4	1620	0,52	0,35	Y	0,70	-	-	-	4,3	3,3	3,1	3,3	0,000295	
0,12	D06LA4	1620	0,7	0,38	Y	0,73	-	-	-	3,7	2,4	2,3	2,4	0,000295	
0,18	D06LA4	1620	1,06	0,58	Y	0,70	-	-	-	3,7	2,5	2,4	2,6	0,000295	
0,25	D06LA4	1620	1,45	0,80	Y	0,69	-	-	-	3,6	2,5	2,4	2,5	0,000295	
0,3	D07LA4	1620	1,76	1,20	Y	0,60	-	-	-	3,0	3,0	3,0	3,1	0,000385	E003
0,37	D07LA4	1620	2,1	1,26	Y	0,66	-	-	-	2,8	2,4	2,4	2,4	0,000385	E004
0,55	DSE08MA4	1720	3,1	1,28	Y	0,72	75,4	75,2	73,0	4,6	2,3	2,2	2,7	0,00115	ES(X)010 EH(X)027
0,75	DSE08LA4	1720	4,15	1,75	Y	0,69	78,2	77,0	72,7	4,8	2,5	2,4	2,9	0,00150	
1,1	DSE08XA4	1720	6,2	2,4	Y	0,71	79,0	77,0	73,0	4,1	2,2	2,0	2,4	0,00170	
1,1	DSE09SA4	1740	6,05	2,3	Y	0,72	83,6	82,6	79,2	6,5	3,6	3,3	4,0	0,00245	ES(X)010 ES(X)027 EH(X)040
1,5	DSE09LA4	1740	8,25	3,1	Y	0,72	84,2	83,5	80,4	6,5	3,4	3,1	4,0	0,00320	
2,2	DSE09XA4	1720	12,2	4,3	Y	0,76	84,9	85,0	83,0	6,2	3,3	3,0	3,6	0,00380	
3	DSE11SA4	1740	16,4	5,5	D	0,78	86,7	86,6	84,4	6,9	3,0	2,7	3,8	0,00810	ES(X)027 ES(X)040 ES(X)070 EH(X)125
4	DSE11MA4	1740	21,9	7,2	D	0,81	86,2	86,4	84,9	6,9	3,3	2,7	3,7	0,01050	
5,5	DSE11LA4	1740	30,2	9,7	D	0,81	87,7	87,8	86	7,6	3,3	2,9	4,0	0,01400	
7,5	DSE13MA4	1760	41	13,3	D	0,80	89,1	89,1	87,6	7,6	3,4	2,9	3,6	0,02900	ES(X)040 ES(X)070 ES(X)125 EH(X)200
9,5	DSE13LA4	1760	52	16,6	D	0,81	88,4	88,7	87,5	7,3	3,4	2,9	3,4	0,03450	
11	DSE16MA4	1760	59	19,3	D	0,80	88,7	88,8	87,5	6,9	2,9	2,2	3,0	0,05700	
15	DSE16LA4	1760	81	25,3	D	0,83	89,6	89,8	88,8	6,7	2,7	2,3	3,1	0,07600	ES(X)200 EH(X)400 ZS(X)300
18,5	DSE16XA4	1760	100	32	D	0,81	90,5	89,7	88,7	6,7	2,8	2,4	3,1	0,08700	
22	DSE18LA4	1760	120	36	D	0,85	91,1	91,2	89,9	7,4	3,3	2,7	3,1	0,16000	ES(X)250 EH(X)400 ZS(X)500
30	DSE18XA4	1760	162	49	D	0,83	91,8	91,8	90,8	7,4	3,4	2,6	3,1	0,19500	

- P Bemessungsleistung bei 60 Hz Netzfrequenz
- n Richtwert für die Bemessungsdrehzahl an der Lauferwelle bei 60 Hz Netzfrequenz
- M<sub>N</sub> Bemessungsdrehmoment an der Lauferwelle
- I<sub>N</sub> Bemessungsstrom bei 460 V (der Strom kann im umgekehrten Verhältnis der Spannungen von 460 V auf die gewünschte Sonderspannung umgerechnet werden)
- cos φ Leistungsfaktor
- I<sub>A</sub>/I<sub>N</sub> Relativer Anzugsstrom
- M<sub>A</sub>/M<sub>N</sub> Relatives Anzugsmoment
- M<sub>S</sub>/M<sub>N</sub> Relatives Sattelmoment
- M<sub>K</sub>/M<sub>N</sub> Relatives Kippmoment
- J<sub>rot</sub> Massenträgheitsmoment des Läufers
- η Wirkungsgrad bei unterschiedlichen Lasten
- Bremse Auslegung der Bremse siehe Kapitel 16

Wicklungsauslegung der Motoren im Standard für 460 V / 60 Hz.

Alle Motoren sind für den Spannungsbereich 440...480 V bzw. 460 V +/- 10 % geeignet, wenn sie in Warmklasse F ausgeführt werden.

Achtung: Strom, Leistungsfaktor und Drehmoment ändern sich mit der Spannungsabweichung von 460 V.

Weitere Informationen finden Sie unter „[www.bauergears.com](http://www.bauergears.com)“.

## 4-polige IE2 Motoren für Dauerbetrieb S1, Netzfrequenz 60 Hz

$P_N$	Typ	$n_N$	$M_N$	$I_N$	Schaltung	$\cos\varphi$	$\eta$	$\eta$	$\eta$	$I_A/I_N$	$M_A/M_N$	$M_S/M_N$	$M_K/M_N$	$J_{rot}$	Bremse
kW		1/min	Nm	460 V A			(100% - Last) %	(75% - Last) %	(50% - Last) %					kgm <sup>2</sup>	
0,03	D04LA4	1620	0,17	0,18	Y	0,60	-	-	-	2,4	2,9	2,9	3,3	0,000175	E003
0,04	D04LA4	1620	0,23	0,18	Y	0,60	-	-	-	2,4	2,2	2,2	2,5	0,000175	
0,06	D04LA4	1620	0,35	0,28	Y	0,60	-	-	-	2,5	2,3	2,3	2,7	0,000175	
0,09	D04LA4	1620	0,52	0,40	Y	0,69	-	-	-	2,7	2,4	2,4	2,9	0,000175	
0,12	D04LA4	1620	0,7	0,42	Y	0,73	-	-	-	2,5	1,9	1,9	2,1	0,000175	
0,06	D05LA4	1620	0,35	0,32	Y	0,72	-	-	-	4,1	4,1	3,8	4,1	0,000295	E003
0,09	D05LA4	1620	0,52	0,35	Y	0,70	-	-	-	4,3	3,3	3,1	3,3	0,000295	
0,12	D05LA4	1620	0,7	0,38	Y	0,73	-	-	-	3,7	2,4	2,3	2,4	0,000295	
0,18	D05LA4	1620	1,06	0,58	Y	0,70	-	-	-	3,7	2,5	2,4	2,6	0,000295	
0,25	D05LA4	1620	1,45	0,80	Y	0,69	-	-	-	3,6	2,5	2,4	2,5	0,000295	
0,06	D06LA4	1620	0,35	0,32	Y	0,72	-	-	-	4,1	4,1	3,8	4,1	0,000295	E003
0,09	D06LA4	1620	0,52	0,35	Y	0,70	-	-	-	4,3	3,3	3,1	3,3	0,000295	
0,12	D06LA4	1620	0,7	0,38	Y	0,73	-	-	-	3,7	2,4	2,3	2,4	0,000295	
0,18	D06LA4	1620	1,06	0,58	Y	0,70	-	-	-	3,7	2,5	2,4	2,6	0,000295	
0,25	D06LA4	1620	1,45	0,80	Y	0,69	-	-	-	3,6	2,5	2,4	2,5	0,000295	
0,3	D07LA4	1620	1,76	1,20	Y	0,60	-	-	-	3,0	3,0	3,0	3,1	0,000385	E003
0,37	D07LA4	1620	2,1	1,26	Y	0,66	-	-	-	2,8	2,4	2,4	2,4	0,000385	E004
0,75	DHE08XA4	1720	4,1	1,60	Y	0,72	82,5	81,0	78,0	5,1	2,5	2,4	3,0	0,0017	ES(X)010 EH(X)027
0,75	DHE09SA4	1740	4,1	1,60	Y	0,70	83,7	82,4	78,3	7,3	3,4	3,0	4,0	0,00245	ES(X)010 ES(X)027
1,1	DHE09LA4	1740	6,0	2,25	Y	0,73	84,8	83,8	80,4	7,3	3,6	3,3	4,3	0,0032	
1,5	DHE09XA4	1740	8,2	2,95	Y	0,74	85,8	85,2	82,5	7,2	3,7	3,5	4,3	0,0038	EH(X)040
2,2	DHE09XA4C	1760	12	4,0	Y	0,79	87,5	87,5	86,0	6,0	2,1	2,0	3,1	0,0053	
2,2	DHE11SA4	1760	12	4,0	Y	0,78	87,7	87,2	84,1	8,3	3,5	3,1	4,3	0,0081	ES(X)027
3	DHE11MA4	1760	16,5	5,5	D	0,78	87,6	87,2	83,9	7,9	3,9	3,1	4,4	0,0105	ES(X)040
4	DHE11LA4	1760	21,5	7,3	D	0,77	88,3	87,5	84,6	9,3	4,1	3,6	4,9	0,0140	ES(X)070
5,5	DHE11LA4C	1760	30	9,5	D	0,81	89,6	89,2	88,3	8,2	2,4	1,8	4,1	0,0162	EH(X)125
5,5	DHE13MA4	1760	30	9,7	D	0,80	89,7	89,3	87,1	8,5	3,8	3,3	4,0	0,0290	ES(X)040 ES(X)070
7,5	DHE13LA4	1760	40,5	13,2	D	0,80	89,6	89,2	87,2	8,2	3,9	3,4	4,0	0,0345	ES(X)125 EH(X)200
9,5	DHE16LA4	1780	51	16,5	D	0,79	91,4	90,1	88,0	9,1	3,7	3,2	4,1	0,076	ES(X)125
11	DHE16LA4	1780	59	19,6	D	0,78	91,0	90,5	88,0	8,7	3,8	3,2	4,2	0,076	ES(X)200
15	DHE16XA4	1780	81	27	D	0,77	91,0	90,8	88,6	7,9	3,8	3,4	4,2	0,087	EH(X)400 ZS(X)300
18,5	DHE18LA4	1780	100	31	D	0,82	92,5	91,2	89,1	8,7	3,9	3,3	3,6	0,160	ES(X)250
22	DHE18XA4	1780	118	38,5	D	0,79	92,5	92,0	89,0	9,5	4,6	3,6	4,3	0,195	EH(X)400 ZS(X)500
30	DHENF20LG4	1780	160	46	D	0,87	93,9	93,9	93,2	8,3	2,3	1,9	3,3	0,310	-
37	DHENF22SG4	1780	198	56	D	0,88	94,6	94,6	93,9	8,4	2,2	1,6	3,0	0,53	-
45	DHENF22MG4	1780	240	67	D	0,89	94,5	94,5	93,9	8,4	2,0	1,6	2,5	0,58	-
55	DHENF25MG4	1780	294	81	D	0,90	94,5	94,7	94,3	7,8	2,3	1,6	2,9	0,79	-
75	DHENF28MG4	1780	400	110	D	0,90	94,8	94,9	94,4	8,2	2,8	1,9	3,2	0,92	-

- $P$  Bemessungsleistung bei 60 Hz Netzfrequenz  
 $n$  Richtwert für die Bemessungsdrehzahl an der Lauferwelle bei 60 Hz Netzfrequenz  
 $M_N$  Bemessungsdrehmoment an der Lauferwelle  
 $I_N$  Bemessungsstrom bei 460 V (der Strom kann im umgekehrten Verhältnis der Spannungen von 460 V auf die gewünschte Sonderspannung umgerechnet werden)  
 $\cos\varphi$  Leistungsfaktor  
 $I_A/I_N$  Relativer Anzugsstrom  
 $M_A/M_N$  Relatives Anzugsmoment  
 $M_S/M_N$  Relatives Sattelmoment  
 $M_K/M_N$  Relatives Kippmoment  
 $J_{rot}$  Massenträgheitsmoment des Läufers  
 $\eta$  Wirkungsgrad bei unterschiedlichen Lasten  
Bremse Auslegung der Bremse siehe Kapitel 16

Wicklungsauslegung der Motoren im Standard für 460 V / 60 Hz.

Alle Motoren sind für den Spannungsbereich 440...480 V bzw. 460 V +/- 10 % geeignet, wenn sie in Warmeklasse F ausgeführt werden.

Achtung: Strom, Leistungsfaktor und Drehmoment ändern sich mit der Spannungsabweichung von 460 V.

Weitere Informationen finden Sie unter „[www.bauergears.com](http://www.bauergears.com)“.

# Motoren

## Technische Daten der 60 Hz Motoren

### 4-polige Motoren für periodischen Aussetzbetrieb S3/S6-75%, Netzfrequenz 60 Hz

$P_N$	Typ	$n_N$	$M_N$	$I_N$	Schaltung	$\cos \varphi$	$I_A/I_N$	$M_A/M_N$	$M_S/M_N$	$M_K/M_N$	$J_{rot}$	Bremse
kW		1/min	Nm	460V A							kgm <sup>2</sup>	
0,03	<b>D04LA4</b>	1620	0,17	0,18	Y	0,60	2,4	2,9	2,9	3,3	0,000175	E003
0,04	<b>D04LA4</b>	1620	0,23	0,18	Y	0,60	2,4	2,2	2,2	2,5	0,000175	
0,06	<b>D04LA4</b>	1620	0,35	0,28	Y	0,60	2,5	2,3	2,3	2,7	0,000175	
0,09	<b>D04LA4</b>	1620	0,52	0,40	Y	0,69	2,7	2,4	2,4	2,9	0,000175	
0,12	<b>D04LA4</b>	1620	0,7	0,42	Y	0,73	2,5	1,9	1,9	2,1	0,000175	
0,06	<b>D05LA4</b>	1620	0,35	0,32	Y	0,72	4,1	4,1	3,8	4,1	0,000295	E003
0,09	<b>D05LA4</b>	1620	0,52	0,35	Y	0,70	4,3	3,3	3,1	3,3	0,000295	
0,12	<b>D05LA4</b>	1620	0,7	0,38	Y	0,73	3,7	2,4	2,3	2,4	0,000295	
0,18	<b>D05LA4</b>	1620	1,06	0,58	Y	0,70	3,7	2,5	2,4	2,6	0,000295	
0,25	<b>D05LA4</b>	1620	1,45	0,80	Y	0,69	3,6	2,5	2,4	2,5	0,000295	
0,06	<b>D06LA4</b>	1620	0,35	0,32	Y	0,72	4,1	4,1	3,8	4,1	0,000295	E003
0,09	<b>D06LA4</b>	1620	0,52	0,35	Y	0,70	4,3	3,3	3,1	3,3	0,000295	
0,12	<b>D06LA4</b>	1620	0,7	0,38	Y	0,73	3,7	2,4	2,3	2,4	0,000295	
0,18	<b>D06LA4</b>	1620	1,06	0,58	Y	0,70	3,7	2,5	2,4	2,6	0,000295	
0,25	<b>D06LA4</b>	1620	1,45	0,80	Y	0,69	3,6	2,5	2,4	2,5	0,000295	
0,3	<b>D07LA4</b>	1620	1,76	1,20	Y	0,60	3,0	3,0	3,0	3,1	0,000385	E003
0,37	<b>D07LA4</b>	1620	2,1	1,26	Y	0,66	2,8	2,4	2,4	2,4	0,000385	E004
0,55	<b>DSE08MA4</b>	1720	3,1	1,28	Y	0,72	4,6	2,3	2,2	2,7	0,00115	ES(X)010 EH(X)027
0,75	<b>DSE08LA4</b>	1720	4,15	1,75	Y	0,69	4,8	2,5	2,4	2,9	0,00150	
1,1	<b>DSE08XA4</b>	1720	6,2	2,4	Y	0,71	4,1	2,2	2,0	2,4	0,00170	ES(X)010 ES(X)027 EH(X)40
1,1	<b>DSE09SA4</b>	1740	6,05	2,3	Y	0,72	6,5	3,6	3,3	4,0	0,00245	
1,5	<b>DSE09LA4</b>	1740	8,25	3,1	Y	0,72	6,5	3,4	3,1	4,0	0,00320	
2,2	<b>DSE09XA4</b>	1720	12,2	4,3	Y	0,76	6,2	3,3	3,0	3,6	0,00380	ES(X)027 ES(X)040 ES(X)070 EH(X)125
3	<b>DSE11SA4</b>	1740	16,4	5,5	D	0,78	6,9	3,0	2,7	3,8	0,00810	
4	<b>DSE11MA4</b>	1740	21,9	7,2	D	0,81	6,9	3,3	2,7	3,7	0,01050	
5,5	<b>DSE11LA4</b>	1740	30,2	9,7	D	0,81	7,6	3,3	2,9	4,0	0,01400	ES(X)040 ES(X)070 ES(X)125 EH(X)200
7,5	<b>DSE13MA4</b>	1760	41	13,3	D	0,80	7,6	3,4	2,9	3,6	0,02900	
9,5	<b>DSE13LA4</b>	1760	52	16,6	D	0,81	7,3	3,4	2,9	3,4	0,03450	ES(X)125 EH(X)400 ZS(X)300
11	<b>DSE16MA4</b>	1760	59	19,3	D	0,80	6,9	2,9	2,2	3,0	0,05700	
15	<b>DSE16LA4</b>	1760	81	25,3	D	0,83	6,7	2,7	2,3	3,1	0,07600	
18,5	<b>DSE16XA4</b>	1760	100	32	D	0,81	6,7	2,8	2,4	3,1	0,08700	ES(X)250 EH(X)400 ZS(X)500
22	<b>DSE18LA4</b>	1760	120	36	D	0,85	7,4	3,3	2,7	3,1	0,16000	
30	<b>DSE18XA4</b>	1760	162	49	D	0,83	7,4	3,4	2,6	3,1	0,19500	

- $P$  Bemessungsleistung bei 60 Hz Netzfrequenz  
 $n$  Richtwert für die Bemessungsdrehzahl an der Lauferwelle bei 60 Hz Netzfrequenz  
 $M_N$  Bemessungsdrehmoment an der Lauferwelle  
 $I_N$  Bemessungsstrom bei 460 V (der Strom kann im umgekehrten Verhältnis der Spannungen von 460 V auf die gewünschte Sonderspannung umgerechnet werden)  
 $\cos \varphi$  Leistungsfaktor  
 $I_A/I_N$  Relativer Anzugsstrom  
 $M_A/M_N$  Relatives Anzugsmoment  
 $M_S/M_N$  Relatives Sattelmoment  
 $M_K/M_N$  Relatives Kippmoment  
 $J_{rot}$  Massenträgheitsmoment des Läufers  
 Bremse Auslegung der Bremse siehe Kapitel 16

Wicklungsauslegung der Motoren im Standard für 460 V / 60 Hz.

### 4-polige Motoren für periodischen Aussetzbetrieb S3/S6, Netzfrequenz 60 Hz

P	ED	Typ	n	M <sub>N</sub>	I <sub>N</sub> (460 V)	Schaltung	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>S</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	J <sub>rot</sub>
kW			1/min	Nm	A							kgm <sup>2</sup>
0,15	15%	<b>D04LA4</b>	1620	0,87	0,56	Y	0,77	2,2	1,8	1,7	1,8	0,000175
0,3	15%	<b>D05LA4</b>	1620	1,75	0,9	Y	0,75	2,8	2,1	2,0	2,1	0,000295
0,3	60%	<b>D06LA4</b>	1620	1,75	0,9	Y	0,75	2,8	2,1	2,0	2,1	0,000295
0,55	60%	<b>D07LA4</b>	1620	3,2	1,78	Y	0,86	3,7	1,8	1,6	1,8	0,000385
0,75	60%	<b>D08MA4</b>	1680	4,2	1,84	Y	0,81	3,7	1,8	1,5	1,9	0,00115
1,1	60%	<b>D08LA4</b>	1680	6,2	2,5	Y	0,82	3,6	1,6	1,5	1,9	0,0015
1,5	60%	<b>D09SA4</b>	1680	8,5	3,3	Y	0,84	4,3	1,9	1,6	2,2	0,00245
2,2	60%	<b>D09LA4</b>	1680	12,5	4,5	Y	0,86	4,3	1,8	1,6	2,1	0,0032
3,0	60%	<b>D09XA4</b>	1680	16,6	6,2	Y	0,86	3,7	1,9	1,8	2,1	0,0038
4,0	60%	<b>D11SA4</b>	1710	22	8,1	Δ	0,85	4,4	1,8	1,5	2,2	0,0081
5,5	60%	<b>D11MA4</b>	1710	30,5	10,7	Δ	0,87	4,7	1,6	1,6	2,2	0,0105
7,5	60%	<b>D11LA4</b>	1710	41,5	14,6	Δ	0,87	5,0	2,0	1,9	2,3	0,014
9,5	60%	<b>D13MA4</b>	1710	53	17,3	Δ	0,87	5,4	2,1	1,8	2,4	0,029
11	60%	<b>D13LA4</b>	1710	60	20	Δ	0,84	6,0	2,6	2,3	2,7	0,0335
13,5	60%	<b>D16MA4</b>	1760	73	25,5	Δ	0,84	6,1	2,3	1,8	2,2	0,057
18,5	60%	<b>D16LA4</b>	1760	100	35	Δ	0,84	5,6	2,1	1,8	2,3	0,076
22	60%	<b>D16XA4</b>	1760	120	42	Δ	0,84	5,9	2,3	1,4	2,2	0,087
30	60%	<b>D18LA4</b>	1760	163	53	Δ	0,89	4,9	2,0	1,6	1,9	0,16
37	60%	<b>D18XA4</b>	1760	200	68	Δ	0,85	6,0	2,7	2,2	2,5	0,195

- P Bemessungsleistung bei 60 Hz Netzfrequenz, Betriebsart S3/S6
- ED Zulässige relative Einschaltdauer pro Schaltspiel
- n Richtwert für die Bemessungsdrehzahl an der Läuferwelle bei 60 Hz Netzfrequenz
- M<sub>N</sub> Bemessungsdrehmoment an der Läuferwelle
- I<sub>N</sub> Bemessungsstrom bei 460 V (der Strom kann im umgekehrten Verhältnis der Spannungen von 460 V auf die gewünschte Sonderspannung umgerechnet werden)
- cos φ Leistungsfaktor
- I<sub>A</sub>/I<sub>N</sub> Relativer Anzugsstrom
- M<sub>A</sub>/M<sub>N</sub> Relatives Anzugsmoment
- M<sub>S</sub>/M<sub>N</sub> Relatives Sattelmoment
- M<sub>K</sub>/M<sub>N</sub> Relatives Kippmoment
- J<sub>rot</sub> Massenträgheitsmoment des Läufers

Wicklungsauslegung der Motoren im Standard für 460 V / 60 Hz.

Weitere Informationen finden Sie unter „[www.bauergears.com](http://www.bauergears.com)“.

# Motoren

## Technische Daten der 60 Hz Motoren

### 4/2-polige Motoren Δ/YY für Dauerbetrieb S1, Netzfrequenz 60 Hz

P	Typ	n	M <sub>N</sub>	I <sub>N</sub> (460 V)	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>S</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	J <sub>rot</sub>
kW		1/min	Nm	A						kgm <sup>2</sup>
0,03 / 0,06	<b>D04LA42</b>	1620 / 3240	0,160 / 0,170	0,200 / 0,230	0,56 / 0,67	2,4 / 3,4	3,8 / 3,4	3,8 / 3,4	4,0 / 3,7	0,000175
0,04 / 0,08	<b>D04LA42</b>	1620 / 3240	0,230 / 0,230	0,230 / 0,260	0,60 / 0,75	2,2 / 3,1	3,3 / 2,3	3,3 / 2,3	3,7 / 2,4	0,000175
0,06 / 0,12	<b>D05LA42</b>	1620 / 3240	0,350 / 0,350	0,420 / 0,420	0,50 / 0,75	3,1 / 3,6	3,4 / 2,2	3,3 / 2,1	4,2 / 2,9	0,000295
0,08 / 0,16	<b>D05LA42</b>	1620 / 3240	0,470 / 0,470	0,460 / 0,460	0,55 / 0,75	3,1 / 3,6	3,1 / 2,0	3,0 / 1,9	3,8 / 2,5	0,000295
0,06 / 0,12	<b>D06LA42</b>	1620 / 3240	0,350 / 0,350	0,420 / 0,420	0,50 / 0,75	3,1 / 3,6	3,4 / 2,2	3,3 / 2,1	4,2 / 2,9	0,000295
0,08 / 0,16	<b>D06LA42</b>	1620 / 3240	0,470 / 0,470	0,460 / 0,460	0,55 / 0,75	3,1 / 3,6	3,1 / 2,0	3,0 / 1,9	3,8 / 2,5	0,000295
0,11 / 0,22	<b>D06LA42</b>	1620 / 3240	0,64 / 0,64	0,63 / 0,63	0,55 / 0,75	3,1 / 3,6	3,1 / 2,0	3,0 / 1,9	3,8 / 2,5	0,000295
0,16 / 0,32	<b>D06LA42</b>	1620 / 3240	0,94 / 0,94	0,82 / 0,82	0,57 / 0,80	3,1 / 3,6	2,8 / 1,9	2,7 / 1,8	3,4 / 2,3	0,000295
0,2 / 0,4	<b>D07LA42</b>	1680 / 3360	1,12 / 1,14	1,04 / 1,08	0,58 / 0,81	3,2 / 3,9	3,1 / 1,8	3,0 / 1,5	3,3 / 2,2	0,000385
0,28 / 0,56	<b>D08MA42</b>	1680 / 3360	1,58 / 1,58	1,10 / 1,60	0,61 / 0,81	3,7 / 3,2	2,5 / 1,7	2,5 / 1,5	3,3 / 2,1	0,00115
0,4 / 0,8	<b>D08LA42</b>	1680 / 3360	2,2 / 2,2	1,40 / 1,74	0,62 / 0,90	5,1 / 5,6	3,0 / 2,0	2,6 / 1,9	3,4 / 2,3	0,0015
0,5 / 1,0	<b>D09SA42</b>	1680 / 3360	2,8 / 2,8	1,60 / 2,6	0,71 / 0,91	5,5 / 4,6	3,4 / 2,2	3,4 / 2,2	4,2 / 2,6	0,00245
0,7 / 1,4	<b>D09SA42</b>	1680 / 3360	3,9 / 3,9	1,93 / 3,1	0,71 / 0,93	5,1 / 4,5	2,8 / 1,8	2,8 / 1,8	3,4 / 2,2	0,00245
1,0 / 2,0	<b>D09LA42</b>	1680 / 3360	5,6 / 5,6	2,8 / 4,3	0,72 / 0,94	5,1 / 4,5	2,8 / 1,8	2,8 / 1,8	3,4 / 2,2	0,0032
1,2 / 2,4	<b>D09XA42</b>	1680 / 3360	6,8 / 6,7	3,4 / 5,2	0,65 / 0,87	6,8 / 3,3	2,7 / 2,0	2,7 / 2,0	3,4 / 2,5	0,0038
1,4 / 2,8	<b>D11SA42</b>	1710 / 3420	7,8 / 7,8	3,3 / 5,7	0,74 / 0,90	7,0 / 4,9	3,3 / 1,9	2,8 / 1,6	4,5 / 3,1	0,0081
2,0 / 4,0	<b>D11MA42</b>	1710 / 3420	11,2 / 11,1	5,1 / 8,4	0,70 / 0,90	7,3 / 5,9	3,4 / 2,3	3,0 / 1,8	4,1 / 2,8	0,0105
2,5 / 5,0	<b>D11LA42</b>	1710 / 3420	14 / 14	5,0 / 9,1	0,79 / 0,92	6,1 / 5,0	3,1 / 2,0	3,0 / 1,9	4,1 / 2,8	0,014
3,5 / 7,0	<b>D13MA42</b>	1710 / 3420	19,1 / 19,1	7,5 / 13,5	0,76 / 0,91	7,4 / 5,7	3,7 / 2,2	3,1 / 2,0	4,2 / 3,0	0,029
4,5 / 9,0	<b>D13LA42</b>	1710 / 3420	25 / 25	9,6 / 17,3	0,76 / 0,91	7,4 / 6,0	3,5 / 2,1	2,8 / 1,9	3,8 / 2,7	0,0345
5,5 / 11	<b>D16MA42</b>	1760 / 3520	30 / 29,5	12,4 / 22,5	0,73 / 0,91	7,3 / 5,7	3,1 / 1,9	2,4 / 1,3	3,5 / 2,5	0,057
7,0 / 14	<b>D16LA42</b>	1760 / 3520	37,5 / 37,5	14,1 / 26	0,78 / 0,92	7,9 / 6,0	3,4 / 2,3	2,7 / 1,5	3,6 / 2,8	0,076
9,0 / 18	<b>D16XA42</b>	1760 / 3520	48,5 / 48,5	17,6 / 34	0,79 / 0,92	8,7 / 6,4	3,1 / 2,0	2,4 / 1,3	3,4 / 2,4	0,087
12,5 / 25	<b>D18LA42</b>	1760 / 3520	68 / 67	26,5 / 45,5	0,77 / 0,89	9,3 / 7,7	4,3 / 3,1	3,7 / 2,1	4,2 / 3,3	0,16
16 / 32	<b>D18XA42</b>	1760 / 3520	86 / 86	35 / 60	0,77 / 0,89	8,5 / 7,1	4,1 / 2,8	3,4 / 2,0	3,9 / 3,1	0,195

- P Bemessungsleistungen bei 60 Hz Netzfrequenz
- n Richtwerte für die Bemessungsdrehzahlen an der Läuferwelle bei 60 Hz Netzfrequenz
- M<sub>N</sub> Bemessungsdrehmomente an der Läuferwelle
- I<sub>N</sub> Bemessungsströme bei 460 V Δ/YY (die Ströme können im umgekehrten Verhältnis der Spannungen von 460 V auf die gewünschte Sonderspannung umgerechnet werden)
- cos φ Leistungsfaktoren
- I<sub>A</sub>/I<sub>N</sub> Relative Anzugsströme
- M<sub>A</sub>/M<sub>N</sub> Relative Anzugsmomente
- M<sub>S</sub>/M<sub>N</sub> Relative Sattelmomente
- M<sub>K</sub>/M<sub>N</sub> Relative Kippmomente
- J<sub>rot</sub> Massenträgheitsmoment des Läufers

### 8/4-polige Motoren Δ/YY für Dauerbetrieb S1, Netzfrequenz 60 Hz

P	Typ	n	M <sub>N</sub>	I <sub>N</sub> (460 V)	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>S</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	J <sub>rot</sub>
kW		1/min	Nm	A						kgm <sup>2</sup>
0,03 / 0,06	<b>D05LA84</b>	810 / 1620	0,340 / 0,350	0,280 / 0,260	0,52 / 0,71	1,8 / 2,8	3,0 / 2,1	1,8 / 1,9	1,8 / 1,9	0,000295
0,03 / 0,06	<b>D06LA84</b>	810 / 1620	0,340 / 0,350	0,280 / 0,260	0,52 / 0,71	1,8 / 2,8	3,0 / 2,1	1,8 / 1,9	1,8 / 1,9	0,000295
0,04 / 0,08	<b>D06LA84</b>	810 / 1620	0,450 / 0,460	0,440 / 0,370	0,52 / 0,66	1,5 / 2,4	2,9 / 2,3	1,8 / 1,9	1,8 / 1,9	0,000295
0,06 / 0,12	<b>D07LA84</b>	810 / 1620	0,70 / 0,70	0,65 / 0,55	0,52 / 0,66	1,9 / 3,1	3,5 / 1,9	3,5 / 1,7	3,6 / 2,3	0,000385
0,06 / 0,12	<b>D08LA84</b>	840 / 1680	0,67 / 0,67	0,460 / 0,460	0,61 / 0,83	3,1 / 4,1	3,4 / 2,5	3,4 / 2,5	3,9 / 3,2	0,0025
0,08 / 0,16	<b>D08LA84</b>	840 / 1680	0,90 / 0,90	0,57 / 0,57	0,61 / 0,83	3,1 / 4,1	3,3 / 2,4	3,3 / 2,4	3,9 / 3,3	0,0025
0,11 / 0,22	<b>D08LA84</b>	840 / 1680	1,24 / 1,25	0,74 / 0,74	0,61 / 0,83	3,1 / 4,1	3,1 / 2,3	3,1 / 2,3	3,7 / 3,1	0,0025
0,14 / 0,28	<b>D08LA84</b>	840 / 1680	1,58 / 1,59	0,92 / 0,92	0,61 / 0,83	3,1 / 4,1	3,1 / 2,3	3,1 / 2,3	3,7 / 3,1	0,0025
0,2 / 0,4	<b>D08LA84</b>	840 / 1680	2,2 / 2,2	1,05 / 1,20	0,55 / 0,77	3,1 / 4,1	2,5 / 1,9	2,5 / 1,9	3,0 / 2,5	0,0025
0,25 / 0,5	<b>D09XC84</b>	840 / 1680	2,8 / 2,8	1,28 / 1,28	0,48 / 0,77	3,2 / 5,5	3,0 / 2,2	3,0 / 2,3	3,4 / 3,0	0,006
0,28 / 0,56	<b>D09XC84</b>	840 / 1680	3,1 / 3,1	1,29 / 1,38	0,57 / 0,80	3,2 / 5,4	2,7 / 2,0	2,7 / 2,1	3,1 / 2,7	0,006
0,4 / 0,8	<b>D09XC84</b>	840 / 1680	4,5 / 4,5	1,80 / 2,2	0,55 / 0,79	3,1 / 4,6	2,5 / 1,9	2,5 / 2,0	3,0 / 2,5	0,006
0,5 / 1,0	<b>D09XC84</b>	840 / 1680	5,6 / 5,6	2,2 / 2,4	0,55 / 0,81	2,9 / 4,4	2,4 / 1,8	2,4 / 1,8	2,8 / 2,4	0,006
0,8 / 1,6	<b>D11LC84</b>	850 / 1710	8,9 / 8,9	2,8 / 3,8	0,63 / 0,88	3,8 / 4,7	2,4 / 2,1	2,4 / 1,9	3,1 / 3,0	0,0215
1,1 / 2,2	<b>D11LC84</b>	850 / 1710	12,2 / 12,2	3,7 / 4,5	0,58 / 0,85	4,3 / 6,2	2,5 / 2,3	2,5 / 1,9	3,0 / 2,7	0,0215
1,6 / 3,2	<b>D11LC84</b>	850 / 1710	17,9 / 17,9	5,5 / 7,0	0,59 / 0,84	4,1 / 5,6	2,4 / 2,0	2,3 / 1,6	2,8 / 2,5	0,0215
2,2 / 4,4	<b>D13LC84</b>	850 / 1710	24 / 24	6,6 / 8,7	0,60 / 0,87	4,7 / 5,9	2,3 / 1,9	2,3 / 1,5	3,2 / 3,1	0,046
2,8 / 5,6	<b>D13LC84</b>	850 / 1710	31 / 31	8,6 / 11,2	0,60 / 0,86	4,7 / 5,9	2,3 / 1,9	2,3 / 1,5	3,2 / 3,1	0,046
3,5 / 7,0	<b>D16MA84</b>	880 / 1760	38 / 38	12,7 / 14,2	0,59 / 0,84	3,6 / 5,4	2,3 / 2,0	2,0 / 1,5	2,3 / 2,4	0,057
5,0 / 10	<b>D16LA84</b>	880 / 1760	54 / 54	16,1 / 18,9	0,57 / 0,87	3,9 / 6,1	2,3 / 2,0	2,1 / 1,5	2,3 / 2,4	0,076
7,0 / 14	<b>D16XA84</b>	880 / 1760	76 / 75	22,5 / 26,5	0,60 / 0,84	3,6 / 5,7	2,3 / 2,1	2,2 / 1,8	2,3 / 2,6	0,087
8,0 / 16	<b>D18LA84</b>	880 / 1760	87 / 86	22 / 30	0,60 / 0,86	4,1 / 6,0	2,4 / 2,4	2,0 / 2,0	2,1 / 2,3	0,16
10 / 20	<b>D18XA84</b>	880 / 1760	108 / 108	27,5 / 37,5	0,60 / 0,86	4,1 / 6,0	2,4 / 2,4	2,0 / 2,0	2,1 / 2,3	0,195

P	Bemessungsleistungen bei 60 Hz Netzfrequenz
n	Richtwerte für die Bemessungsdrehzahlen an der Läuferwelle bei 60 Hz Netzfrequenz
M <sub>N</sub>	Bemessungsdrehmomente an der Läuferwelle
I <sub>N</sub>	Bemessungsströme bei 460 V /YY (die Ströme können im umgekehrten Verhältnis der Spannungen von 460 V auf die gewünschte Sonderspannung umgerechnet werden)
cos φ	Leistungsfaktoren
I <sub>A</sub> /I <sub>N</sub>	Relative Anzugsströme
M <sub>A</sub> /M <sub>N</sub>	Relative Anzugsmomente
M <sub>S</sub> /M <sub>N</sub>	Relative Sattelmomente
M <sub>K</sub> /M <sub>N</sub>	Relative Kippmomente
J <sub>rot</sub>	Massenträgheitsmoment des Läufers

# Motoren

## Technische Daten der 60 Hz Motoren

### 8/2-polige Motoren Y/Y für periodischen Aussetzbetrieb

P	ED	Typ	n	M <sub>N</sub>	I <sub>N</sub> (460 V)	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>S</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	J <sub>rot</sub>
kW			1/min	Nm	A						kgm <sup>2</sup>
0,04 / 0,16	25/75%	<b>D05LA82</b>	810 / 3240	0,460 / 0,470	0,370 / 0,74	0,63 / 0,75	1,8 / 3,5	2,1 / 2,4	2,1 / 2,3	2,2 / 2,5	0,000295
0,05 / 0,20	25/75%	<b>D06LA82</b>	810 / 3240	0,58 / 0,59	0,470 / 0,94	0,63 / 0,75	1,5 / 3,1	1,9 / 2,2	1,9 / 2,1	2,0 / 2,3	0,000295
0,063 / 0,25	25/75%	<b>D07LA82</b>	800 / 3420	0,75 / 0,75	0,55 / 1,10	0,69 / 0,62	1,5 / 2,8	1,8 / 1,5	1,8 / 1,5	2,0 / 3,0	0,000385
0,071 / 0,28	25/75%	<b>D07LA82</b>	800 / 3420	0,82 / 0,81	0,60 / 1,30	0,69 / 0,68	1,5 / 2,8	1,7 / 1,4	1,7 / 1,4	1,9 / 2,9	0,000385
0,063 / 0,25	25/75%	<b>D08LA82</b>	840 / 3360	0,70 / 0,71	0,51 / 0,65	0,55 / 0,87	3,1 / 4,4	2,6 / 2,9	2,6 / 2,8	3,1 / 3,3	0,0015
0,09 / 0,36	25/75%	<b>D08LA82</b>	840 / 3360	1,01 / 1,01	0,65 / 0,98	0,60 / 0,92	3,2 / 4,9	2,2 / 2,9	2,2 / 2,8	2,7 / 3,2	0,0015
0,12 / 0,50	25/75%	<b>D08LA82</b>	840 / 3360	1,41 / 1,41	0,90 / 1,33	0,60 / 0,92	3,2 / 4,9	2,2 / 2,9	2,2 / 2,8	2,7 / 3,2	0,0015
0,16 / 0,63	25/75%	<b>D08LA82</b>	840 / 3360	1,79 / 1,75	1,12 / 1,35	0,63 / 0,90	2,2 / 5,0	2,0 / 2,3	2,0 / 2,2	2,5 / 2,7	0,0015
0,25 / 1,0	25/75%	<b>D09XA82</b>	840 / 3360	2,8 / 2,8	1,19 / 2,1	0,62 / 0,90	2,4 / 5,7	2,1 / 2,5	2,1 / 2,5	2,2 / 2,8	0,0038
0,36 / 1,4	25/75%	<b>D09XA82</b>	840 / 3360	4,0 / 3,9	1,91 / 3,0	0,57 / 0,87	2,2 / 4,9	2,1 / 2,3	2,1 / 2,3	2,2 / 2,6	0,0038
0,45 / 1,8	25/75%	<b>D09XA82</b>	840 / 3360	5,1 / 5,0	2,2 / 3,9	0,65 / 0,89	2,2 / 4,7	1,9 / 2,2	1,9 / 2,2	2,2 / 2,7	0,0038
0,56 / 2,2	25/75%	<b>D11LA82</b>	850 / 3420	6,2 / 6,0	2,1 / 4,3	0,60 / 0,94	3,5 / 5,4	2,1 / 3,2	2,1 / 2,6	2,4 / 3,2	0,014
0,71 / 2,8	25/75%	<b>D11LA82</b>	850 / 3420	7,9 / 7,8	2,5 / 5,1	0,58 / 0,94	2,7 / 5,1	2,1 / 2,5	2,1 / 2,2	2,3 / 2,6	0,014
0,90 / 3,6	25/75%	<b>D11LA82</b>	850 / 3420	10 / 10	3,2 / 7,2	0,58 / 0,94	2,7 / 4,9	2,0 / 2,2	2,0 / 2,0	2,2 / 2,3	0,014
1,10 / 4,5	25/75%	<b>D13LA82</b>	850 / 3420	12,2 / 12,5	3,6 / 9,2	0,59 / 0,90	3,1 / 5,9	2,0 / 2,7	2,0 / 2,0	2,5 / 3,0	0,0345
1,25 / 5,0	25/75%	<b>D13LA82</b>	850 / 3420	14 / 13,9	4,2 / 10,7	0,59 / 0,88	3,2 / 5,9	1,8 / 2,6	1,8 / 2,0	2,3 / 3,0	0,0345
1,6 / 6,3	25/75%	<b>D16XA82</b>	880 / 3520	16,6 / 17	7,0 / 12,3	0,48 / 0,88	3,9 / 7,1	2,6 / 3,3	2,4 / 2,3	3,0 / 3,3	0,087
2,0 / 8,0	25/75%	<b>D16XA82</b>	880 / 3520	21 / 21,5	8,9 / 15,5	0,50 / 0,89	3,9 / 6,7	2,6 / 3,3	2,3 / 2,2	3,0 / 3,3	0,087
2,8 / 11	25/75%	<b>D16XA82</b>	880 / 3520	30,5 / 29,5	10,7 / 22,5	0,53 / 0,91	3,3 / 6,5	2,0 / 3,2	1,8 / 2,2	2,1 / 3,1	0,087
3,6 / 14	25/75%	<b>D18XA82</b>	880 / 3520	39 / 38	12,7 / 28,5	0,55 / 0,91	3,6 / 5,4	1,9 / 2,5	1,8 / 1,7	2,3 / 2,7	0,195
4,0 / 16	25/75%	<b>D18XA82</b>	880 / 3520	43 / 43	14,1 / 32,5	0,55 / 0,91	3,6 / 5,4	1,9 / 2,5	1,8 / 1,7	2,3 / 2,7	0,195
5,0 / 20	25/75%	<b>D18XA82</b>	880 / 3520	54 / 54	17,5 / 40	0,55 / 0,91	3,6 / 5,4	1,9 / 2,5	1,8 / 1,7	2,3 / 2,7	0,195

- P Bemessungsleistungen bei 60 Hz Netzfrequenz Betriebsart S3-25/75%
- n Richtwerte für die Bemessungsdrehzahlen an der Läuferwelle bei 60 Hz Netzfrequenz
- M<sub>N</sub> Bemessungsdrehmomente an der Läuferwelle
- I<sub>N</sub> Bemessungsströme bei 460 V Y/Y (die Ströme können im umgekehrten Verhältnis der Spannungen von 460 V auf die gewünschte Sonderspannung umgerechnet werden)
- cos φ Leistungsfaktoren
- I<sub>A</sub>/I<sub>N</sub> Relative Anzugsströme
- M<sub>A</sub>/M<sub>N</sub> Relative Anzugsmomente
- M<sub>S</sub>/M<sub>N</sub> Relative Sattelmomente
- M<sub>K</sub>/M<sub>N</sub> Relative Kippmomente
- J<sub>rot</sub> Massenträgheitsmoment des Läufers



### 12/2-polige Motoren Y/Y für periodischen Aussetzbetrieb S3-25/75%, Netzfrequenz 60 Hz

P	ED	Typ	n	M <sub>N</sub>	I <sub>N</sub> (460 V)	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>S</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	J <sub>rot</sub>
kW			1/min	Nm	A						kgm <sup>2</sup>
0,045 / 0,28	25/75%	<b>D08LA122</b>	560 / 3360	0,76 / 0,79	0,51 / 0,79	0,70 / 0,90	1,5 / 4,9	2,1 / 2,7	2,1 / 2,7	2,1 / 3,0	0,0015
0,063 / 0,40	25/75%	<b>D08LA122</b>	560 / 3360	1,07 / 1,13	0,61 / 1,02	0,70 / 0,90	1,5 / 4,9	1,9 / 2,4	1,9 / 2,4	1,9 / 2,7	0,0015
0,09 / 0,56	25/75%	<b>D08LA122</b>	560 / 3360	1,54 / 1,59	0,95 / 1,35	0,63 / 0,89	1,5 / 4,5	1,9 / 2,3	1,9 / 2,5	2,0 / 2,6	0,0015
0,11 / 0,71	25/75%	<b>D09XA122</b>	560 / 3360	1,88 / 2,0	1,00 / 1,50	0,59 / 0,88	1,6 / 6,0	1,9 / 3,0	1,9 / 2,9	2,0 / 3,6	0,0038
0,16 / 1,0	25/75%	<b>D09XA122</b>	560 / 3360	2,7 / 2,8	1,56 / 2,2	0,62 / 0,89	1,6 / 6,0	2,0 / 2,9	2,0 / 2,7	2,0 / 3,6	0,0038
0,2 / 1,25	25/75%	<b>D09XA122</b>	560 / 3360	3,4 / 3,5	1,85 / 2,8	0,62 / 0,89	1,6 / 5,5	1,9 / 2,6	1,9 / 2,5	1,9 / 3,4	0,0038
0,25 / 1,6	25/75%	<b>D11LA122</b>	560 / 3420	4,2 / 4,4	2,1 / 3,1	0,53 / 0,95	1,8 / 5,4	1,9 / 2,8	1,9 / 2,6	2,2 / 3,1	0,014
0,32 / 2,0	25/75%	<b>D11LA122</b>	560 / 3420	5,4 / 5,5	2,7 / 3,6	0,53 / 0,94	1,8 / 5,1	1,9 / 2,7	1,9 / 2,4	2,2 / 3,0	0,014
0,45 / 2,8	25/75%	<b>D11LA122</b>	560 / 3420	7,6 / 7,8	3,8 / 5,1	0,52 / 0,94	1,8 / 5,1	1,6 / 2,5	1,6 / 2,2	2,0 / 2,6	0,014
0,63 / 4,0	25/75%	<b>D13LA122</b>	560 / 3420	10,7 / 11,1	3,8 / 7,9	0,45 / 0,95	1,8 / 6,1	1,8 / 2,6	1,8 / 2,0	2,0 / 3,0	0,0345
0,80 / 5,0	25/75%	<b>D13LA122</b>	560 / 3420	13,5 / 14	5,8 / 10,3	0,41 / 0,92	1,9 / 5,8	1,6 / 3,0	1,6 / 2,1	2,2 / 3,2	0,0345
1,0 / 6,3	25/75%	<b>D16XA122</b>	590 / 3520	16,3 / 16,6	7,3 / 12,2	0,35 / 0,90	2,4 / 6,9	2,1 / 3,0	2,1 / 1,9	2,6 / 3,1	0,087
1,25 / 8,0	25/75%	<b>D16XA122</b>	590 / 3520	20 / 21,5	9,0 / 15,4	0,35 / 0,90	2,4 / 6,9	2,1 / 3,0	2,1 / 1,8	2,6 / 3,1	0,087
1,6 / 10	25/75%	<b>D16XA122</b>	590 / 3520	25 / 26,5	9,6 / 19,1	0,40 / 0,92	2,1 / 5,9	1,8 / 2,6	1,8 / 1,5	2,3 / 2,6	0,087
2,4 / 14	25/75%	<b>D18XA122</b>	590 / 3520	39 / 37,5	15,1 / 28,5	0,39 / 0,91	2,0 / 4,7	1,8 / 2,8	1,9 / 2,2	2,1 / 2,8	0,195
2,5 / 16	60/60%	<b>D18XA122</b>	590 / 3520	40,5 / 43	14,1 / 28,5	0,46 / 0,92	2,0 / 5,9	1,8 / 2,7	1,5 / 1,6	1,8 / 2,8	0,195
2,8 / 18	10/40%	<b>D18XA122</b>	590 / 3520	45,5 / 48	17,6 / 36	0,39 / 0,91	2,0 / 4,7	1,8 / 2,8	1,9 / 2,2	2,1 / 2,8	0,195

- P Bemessungsleistungen bei 60 Hz Netzfrequenz Betriebsart S3-25/75%
- n Richtwerte für die Bemessungsdrehzahlen an der Läuferwelle bei 60 Hz Netzfrequenz
- M<sub>N</sub> Bemessungsdrehmomente an der Läuferwelle
- I<sub>N</sub> Bemessungsströme bei 460 V Y/Y (die Ströme können im umgekehrten Verhältnis der Spannungen von 460 V auf die gewünschte Sonderspannung umgerechnet werden)
- cos φ Leistungsfaktoren
- I<sub>A</sub>/I<sub>N</sub> Relative Anzugsströme
- M<sub>A</sub>/M<sub>N</sub> Relative Anzugsmomente
- M<sub>S</sub>/M<sub>N</sub> Relative Sattelmomente
- M<sub>K</sub>/M<sub>N</sub> Relative Kippmomente
- J<sub>rot</sub> Massenträgheitsmoment des Läufers



Die in den Tabellen genannten Angaben gelten für Bauer-Getriebemotoren bei Betrieb am Frequenzumrichter. Die in den Tabellen genannten Drehmomente können bei der jeweiligen Frequenz im Dauerbetrieb (S1 = Einschaltdauer 100%) abgegeben werden.

### Motor-Drehmomente bei Stellbereich 5 Hz - 70 Hz, Netzfrequenz 50 Hz

P	Typ	Schaltung	5 Hz	10 Hz	20 Hz	30 Hz	50 Hz	60 Hz	70 Hz	5 Hz	10 Hz	20 Hz	30 Hz	50 Hz	60 Hz	70 Hz
			M	M	M	M	M	M	M	M	I	I	I	I	I	I
kW			Nm	Nm	Nm	Nm	Nm	Nm	Nm	A	A	A	A	A	A	A
0,03	<b>D04LA4</b>	Y	0,125	0,155	0,185	0,205	0,210	0,210	0,180	0,190	0,193	0,198	0,200	0,200	0,230	0,230
0,04	<b>D04LA4</b>	Y	0,165	0,210	0,250	0,275	0,280	0,275	0,205	0,190	0,193	0,198	0,200	0,200	0,230	0,200
0,06	<b>D04LA4</b>	Y	0,250	0,315	0,375	0,410	0,420	0,420	0,320	0,290	0,295	0,300	0,300	0,300	0,340	0,305
0,09	<b>D04LA4</b>	Y	0,375	0,470	0,56	0,62	0,63	0,63	0,52	0,435	0,440	0,450	0,450	0,450	0,51	0,495
0,12	<b>D04LA4</b>	Y	0,50	0,63	0,75	0,82	0,84	0,69	0,50	0,440	0,450	0,455	0,460	0,460	0,460	0,450
0,06	<b>D05LA4</b>	Y	0,250	0,315	0,375	0,410	0,420	0,420	0,360	0,300	0,315	0,340	0,350	0,350	0,395	0,400
0,09	<b>D05LA4</b>	Y	0,375	0,470	0,56	0,62	0,63	0,63	0,54	0,355	0,365	0,375	0,380	0,380	0,430	0,430
0,12	<b>D05LA4</b>	Y	0,51	0,63	0,76	0,83	0,85	0,81	0,59	0,370	0,385	0,410	0,420	0,420	0,455	0,410
0,18	<b>D05LA4</b>	Y	0,76	0,96	1,15	1,26	1,28	1,28	0,97	0,59	0,60	0,62	0,63	0,63	0,72	0,64
0,25	<b>D05LA4</b>	Y	1,05	1,31	1,57	1,72	1,75	1,74	1,28	0,85	0,86	0,87	0,88	0,88	1,00	0,88
0,06	<b>D06LA4</b>	Y	0,250	0,315	0,375	0,410	0,420	0,420	0,360	0,300	0,315	0,340	0,350	0,350	0,395	0,400
0,09	<b>D06LA4</b>	Y	0,375	0,470	0,56	0,62	0,63	0,63	0,54	0,355	0,365	0,375	0,380	0,38	0,430	0,430
0,12	<b>D06LA4</b>	Y	0,51	0,63	0,76	0,83	0,85	0,81	0,59	0,37	0,385	0,41	0,420	0,42	0,455	0,41
0,18	<b>D06LA4</b>	Y	0,76	0,96	1,15	1,26	1,28	1,28	0,97	0,59	0,60	0,62	0,63	0,63	0,72	0,64
0,25	<b>D06LA4</b>	Y	1,05	1,32	1,58	1,73	1,76	1,75	1,29	0,85	0,87	0,88	0,89	0,89	1,01	0,89
0,3	<b>D07LA4</b>	Y	1,27	1,59	1,9	2,0	2,1	2,1	1,81	1,25	1,27	1,29	1,30	1,30	1,47	1,47
0,37	<b>D07LA4</b>	Y	1,57	1,96	2,3	2,5	2,6	2,5	1,83	1,30	1,32	1,34	1,35	1,35	1,46	1,34
0,37	<b>DHE08MA4</b>	Y	1,47	1,83	2,2	2,4	2,4	2,4	2,1	1,18	1,19	1,2	1,2	1,2	1,36	1,36
0,55	<b>DHE08LA4</b>	Y	2,2	2,8	3,3	3,6	3,7	3,7	2,8	1,13	1,21	1,3	1,36	1,36	1,54	1,38
0,75	<b>DHE08XA4</b>	Y	3	3,8	4,5	4,9	5	5	4,2	1,68	1,75	1,83	1,88	1,88	2,2	2,2
0,75	<b>DHE09SA4</b>	Y	3	3,8	4,5	4,9	5	5	4,2	1,59	1,66	1,75	1,8	1,8	2,1	2,1
1,1	<b>DHE09LA4</b>	Y	4,3	5,4	6,5	7,2	7,3	7,3	6,2	2,2	2,4	2,5	2,6	2,6	2,9	2,9
1,5	<b>DHE09XA4</b>	Y	5,9	7,4	8,9	9,8	9,9	9,9	8,5	2,8	3,1	3,2	3,4	3,4	3,8	3,8
2,2	<b>DHE09XA4C</b>	Y	8,7	10,8	13	14,3	14,5	14,5	12,4	3,8	4,2	4,5	4,8	4,8	5,4	5,4
2,2	<b>DHE11SA4</b>	Y	8,7	10,8	13	14,3	14,5	14,5	12,4	3,6	3,9	4,4	4,6	4,6	5,2	5,3
3	<b>DHE11MA4</b>	Y	12	15	18	19,7	20	20	17,1	4,9	5,4	5,9	6,3	6,3	7,2	7,2
4	<b>DHE11LA4</b>	Y	15,9	19,8	23,5	26	26,5	26,5	22,5	6,5	7,2	7,9	8,4	8,4	9,5	9,5
5,5	<b>DHE11LA4C</b>	Y	21,5	27	32	35,5	36	36	30,5	8,1	9	10	10,7	10,7	12,1	12,1
5,5	<b>DHE13MA4</b>	Y	21,5	27	32	35,5	36	36	30,5	8,2	9,2	10,3	11	11	12,5	12,5
7,5	<b>DHE13LA4</b>	Y	29	36,5	44	48	49	49	42	11,2	12,6	14,1	15	15,1	17,1	17,1
9,5	<b>DHE16MA4</b>	Y	37	46,5	55	61	62	62	53	14,8	16,5	18,4	19,6	19,7	22,5	22,5
11	<b>DHE16LA4</b>	Y	42,5	53	64	70	71	71	61	17,2	19	21,5	22,5	22,5	25,5	25,5
15	<b>DHE16XA4</b>	Y	58	73	87	96	97	97	83	24	26,5	29,5	31	31	35	35,5
18,5	<b>DHE18LA4</b>	Y	72	90	108	118	120	120	102	25	28,5	32,5	35	35	39,5	40
22	<b>DHE18XA4</b>	Y	85	106	127	140	142	142	121	33,5	37	41	43,5	43,5	49,5	49,5
30	<b>DHENF20LG4</b>	Y	116	145	174	191	194	194	166	37	43	49,5	54	54	61	62
37	<b>DHENF22SG4</b>	Y	142	178	210	235	235	235	200	43	51	59	64	64	73	73
45	<b>DHENF22MG4</b>	Y	173	215	260	285	285	275	200	52	61	71	78	78	85	73
55	<b>DHENF25MG4</b>	Y	210	265	315	350	355	355	280	62	73	86	93	94	107	99
75	<b>DHENF25MG4</b>	Y	290	360	435	475	480	480	410	61	72	85	93	94	107	107

Feldschwächung für Frequenzen über 50 Hz, Wicklungsauslegung für Standardspannung **400 V Y / 50 Hz**, Wärmeklasse F.

- P Bemessungsleistung
- n Richtwert für die Bemessungsdrehzahl an der Läuferwelle
- M zulässiges Lastmoment (S1-100%) bei Betrieb am Frequenzumrichter
- M<sub>N</sub> Bemessungsdrehmoment an der Läuferwelle
- I Laststrom bei Betrieb am Frequenzumrichter

Die Motoren können mit der Standardwicklung durch Umschalten von Y- auf Δ- Schaltung auch am Umrichter mit einphasigem Netzanschluss betrieben werden. Drehmomente und Frequenzen der obigen Tabelle ändern sich dabei nicht. Bei der Auswahl des Umrichters ist allerdings zu beachten, dass die Ströme um den Faktor 1,73 gegenüber der Y-Schaltung ansteigen.

Die in der Tabelle genannten Lastströme dienen als Richtwert zur Auswahl der Frequenzumrichtergröße. Liegt das Lastmoment unter den bei 30-70 Hz zulässigen Werten und wird ein hochwertiger Umrichter verwendet, dann reduziert sich der Laststrom. Dadurch kann insbesondere bei größeren Motoren unter Umständen ein kleinerer Umrichter eingesetzt werden.

### Motor-Drehmomente bei Stellbereich 5 Hz - 100 Hz, Netzfrequenz 50 Hz

P	Typ	Schaltung	5 Hz M	8,7 Hz M	10 Hz M	20 Hz M	87 Hz M	100 Hz M	5 Hz I	8,7 Hz I	10 Hz I	20 Hz I	87 Hz I	100 Hz I
kW			Nm	Nm	Nm	Nm	Nm	Nm	A	A	A	A	A	A
0,03	<b>D04LA4</b>	D	0,125	0,15	0,155	0,185	0,21	0,21	0,33	0,335	0,335	0,345	0,35	0,38
0,04	<b>D04LA4</b>	D	0,165	0,2	0,21	0,25	0,28	0,28	0,33	0,335	0,335	0,345	0,35	0,38
0,06	<b>D04LA4</b>	D	0,25	0,3	0,315	0,375	0,42	0,42	0,51	0,51	0,51	0,52	0,52	0,57
0,09	<b>D04LA4</b>	D	0,375	0,45	0,47	0,56	0,63	0,63	0,76	0,76	0,77	0,78	0,78	0,86
0,12	<b>D04LA4</b>	D	0,5	0,6	0,63	0,75	0,84	0,75	0,76	0,77	0,78	0,79	0,8	0,8
0,06	<b>D05LA4</b>	D	0,25	0,3	0,315	0,375	0,42	0,42	0,52	0,54	0,55	0,59	0,61	0,67
0,09	<b>D05LA4</b>	D	0,375	0,45	0,47	0,56	0,63	0,63	0,62	0,63	0,63	0,65	0,66	0,73
0,12	<b>D05LA4</b>	D	0,51	0,61	0,63	0,76	0,85	0,85	0,64	0,67	0,67	0,71	0,73	0,8
0,18	<b>D05LA4</b>	D	0,76	0,92	0,96	1,15	1,28	1,28	1,01	1,04	1,04	1,07	1,1	1,2
0,25	<b>D05LA4</b>	D	1,05	1,25	1,31	1,57	1,75	1,75	1,46	1,48	1,49	1,51	1,53	1,68
0,06	<b>D06LA4</b>	D	0,25	0,3	0,315	0,375	0,42	0,42	0,52	0,54	0,55	0,59	0,61	0,67
0,09	<b>D06LA4</b>	D	0,375	0,45	0,47	0,56	0,63	0,63	0,62	0,63	0,63	0,65	0,66	0,73
0,12	<b>D06LA4</b>	D	0,51	0,61	0,63	0,76	0,85	0,85	0,64	0,67	0,67	0,71	0,73	0,8
0,18	<b>D06LA4</b>	D	0,76	0,92	0,96	1,15	1,28	1,28	1,01	1,04	1,04	1,07	1,1	1,2
0,25	<b>D06LA4</b>	D	1,05	1,26	1,32	1,58	1,76	1,76	1,47	1,49	1,5	1,53	1,55	1,69
0,3	<b>D07LA4</b>	D	1,27	1,52	1,59	1,9	2,1	2,1	2,2	2,2	2,2	2,2	2,3	2,5
0,37	<b>D07LA4</b>	D	1,57	1,88	1,96	2,3	2,6	2,6	2,2	2,3	2,3	2,4	2,4	2,6
0,37	<b>DHE08MA4</b>	D	1,47	1,76	1,83	2,2	2,4	2,4	2,1	2,1	2,1	2,1	2,1	2,3
0,55	<b>DHE08LA4</b>	D	2,2	2,6	2,8	3,3	3,7	3,7	1,95	2,1	2,1	2,2	2,4	2,6
0,75	<b>DHE08XA4</b>	D	3	3,6	3,8	4,5	5	5	3	3,1	3,1	3,2	3,3	3,6
0,75	<b>DHE09SA4</b>	D	3	3,6	3,8	4,5	5	5	2,8	2,8	2,9	3,1	3,2	3,5
1,1	<b>DHE09LA4</b>	D	4,3	5,2	5,4	6,5	7,3	7,3	3,8	4	4	4,2	4,5	4,9
1,5	<b>DHE09XA4</b>	D	5,9	7,1	7,4	8,9	9,9	9,9	4,6	5	5,1	5,5	5,9	6,4
2,2	<b>DHE09XA4C</b>	D	8,7	10,4	10,8	13	14,5	14,5	6,7	7,1	7,2	7,8	8,3	9,1
2,2	<b>DHE11SA4</b>	D	8,7	10,4	10,8	13	14,5	14,5	6,2	6,7	6,8	7,5	8	8,8
3	<b>DHE11MA4</b>	D	12	14,3	15	18	20	20	8,4	9,1	9,3	10,3	11	12
4	<b>DHE11LA4</b>	D	15,9	19	19,8	23,5	26,5	26,5	11,9	12,6	12,8	13,9	14,6	16
5,5	<b>DHE11LA4C</b>	D	21,5	25,5	27	32	36	36	14,2	15,6	15,9	17,8	19,1	21
5,5	<b>DHE13MA4</b>	D	21,5	25,5	27	32	36	36	14,1	15,5	15,8	17,7	19,1	21
7,5	<b>DHE13LA4</b>	D	29	35	36,5	44	49	49	19,3	21,5	22	24,5	26,5	29
9,5	<b>DHE16MA4</b>	D	37	44,5	46,5	55	62	62	26	28	29	32	34,5	37,5
11	<b>DHE16LA4</b>	D	42,5	51	53	64	71	71	30	32,5	33	36,5	39	43
15	<b>DHE16XA4</b>	D	58	70	73	87	97	97	41,5	45	46	51	54	59
18,5	<b>DHE18LA4</b>	D	72	86	90	108	120	120	43,5	48	49,5	56	61	67
22	<b>DHE18XA4</b>	D	85	102	106	127	142	142	58	63	64	71	76	83
30	<b>DHENF20LG4</b>	D	116	139	145	174	194	194	168	64	72	74	86	94
37	<b>DHENF22SG4</b>	D	142	171	178	210	235	235	205	75	85	87	101	111
45	<b>DHENF22MG4</b>	D	173	205	215	260	285	285	205	90	102	106	123	136
55	<b>DHENF25MG4</b>	D	210	255	265	315	355	355	290	107	122	126	148	163
75	<b>DHENF25MG4</b>	D	290	345	360	435	480	480	420	105	121	125	147	163

Feldschwächung für Frequenzen über 87 Hz, Wicklungsauslegung für **230 V Δ / 50 Hz** ( $U_{\max} = 400 \text{ V } \Delta / 87 \text{ Hz}$ ), Wärmeklasse F.

- P Bemessungsleistung
- n Richtwert für die Bemessungsdrehzahl an der Läuferwelle
- M zulässiges Lastmoment (S1-100%) bei Betrieb am Frequenzumrichter
- $M_N$  Bemessungsdrehmoment an der Läuferwelle
- I Laststrom bei Betrieb am Frequenzumrichter

Die in der Tabelle genannten Lastströme dienen als Richtwert zur Auswahl der Frequenzumrichtergröße. Liegt das Lastmoment unter den bei 30-100 Hz zulässigen Werten und wird ein hochwertiger Umrichter verwendet, dann reduziert sich der Laststrom. Dadurch kann insbesondere bei größeren Motoren unter Umständen ein kleinerer Umrichter eingesetzt werden.

# Motoren

## Betrieb am Frequenzumrichter

### Motor-Drehmomente bei Stellbereich 6 Hz - 84 Hz, Netzfrequenz 60 Hz

P	Typ	Schaltung	6 Hz	12 Hz	24 Hz	36 Hz	60 Hz	72 Hz	84 Hz	6 Hz	12 Hz	24 Hz	36 Hz	60 Hz	72 Hz	84 Hz
			M	M	M	M	M	M	M	M	I	I	I	I	I	I
kW			Nm	Nm	Nm	Nm	Nm	Nm	Nm	A	A	A	A	A	A	A
0,03	<b>D04LA4</b>	Y	0,115	0,140	0,165	0,180	0,180	0,180	0,150	0,176	0,178	0,180	0,185	0,180	0,205	0,205
0,04	<b>D04LA4</b>	Y	0,145	0,180	0,215	0,235	0,230	0,230	0,180	0,176	0,178	0,180	0,185	0,180	0,205	0,190
0,06	<b>D04LA4</b>	Y	0,220	0,275	0,325	0,355	0,350	0,350	0,300	0,275	0,280	0,290	0,290	0,280	0,320	0,320
0,09	<b>D04LA4</b>	Y	0,330	0,410	0,485	0,53	0,520	0,520	0,445	0,400	0,400	0,400	0,415	0,400	0,455	0,455
0,12	<b>D04LA4</b>	Y	0,445	0,55	0,65	0,71	0,70	0,63	0,465	0,410	0,415	0,420	0,435	0,420	0,435	0,415
0,06	<b>D05LA4</b>	Y	0,220	0,275	0,325	0,355	0,350	0,350	0,300	0,280	0,295	0,315	0,330	0,320	0,365	0,365
0,09	<b>D05LA4</b>	Y	0,330	0,410	0,485	0,53	0,520	0,520	0,445	0,335	0,340	0,350	0,360	0,350	0,395	0,400
0,12	<b>D05LA4</b>	Y	0,445	0,55	0,65	0,71	0,70	0,70	0,53	0,345	0,36	0,375	0,395	0,38	0,43	0,385
0,18	<b>D05LA4</b>	Y	0,67	0,83	0,99	1,08	1,06	1,06	0,87	0,54	0,56	0,58	0,60	0,58	0,66	0,64
0,25	<b>D05LA4</b>	Y	0,92	1,14	1,36	1,48	1,45	1,45	1,15	0,78	0,79	0,8	0,83	0,8	0,91	0,85
0,06	<b>D06LA4</b>	Y	0,22	0,275	0,325	0,355	0,35	0,35	0,3	0,28	0,295	0,315	0,330	0,32	0,365	0,365
0,09	<b>D06LA4</b>	Y	0,33	0,41	0,485	0,53	0,52	0,52	0,445	0,335	0,34	0,35	0,360	0,35	0,395	0,4
0,12	<b>D06LA4</b>	Y	0,445	0,55	0,65	0,71	0,70	0,70	0,53	0,345	0,36	0,375	0,395	0,38	0,43	0,385
0,18	<b>D06LA4</b>	Y	0,67	0,83	0,99	1,08	1,06	1,06	0,87	0,54	0,56	0,58	0,60	0,58	0,66	0,64
0,25	<b>D06LA4</b>	Y	0,92	1,14	1,36	1,48	1,45	1,45	1,15	0,78	0,79	0,8	0,83	0,8	0,91	0,85
0,3	<b>D07LA4</b>	Y	1,12	1,38	1,65	1,80	1,76	1,76	1,5	1,18	1,19	1,20	1,24	1,2	1,36	1,36
0,37	<b>D07LA4</b>	Y	1,37	1,69	2,0	2,2	2,1	2,1	1,64	1,24	1,25	1,26	1,30	1,26	1,43	1,28
0,55	<b>D08MA4</b>	Y	1,98	2,4	2,9	3,1	3,1	3,1	2,4	1,29	1,36	1,44	1,51	1,47	1,66	1,55
0,75	<b>DHE08XA4</b>	Y	2,4	3,1	3,7	4,1	4,1	4,1	3,7	1,45	1,5	1,56	1,6	1,6	1,78	1,81
0,75	<b>DHE09SA4</b>	Y	2,4	3,1	3,7	4,1	4,1	4,1	3,7	1,34	1,43	1,53	1,6	1,6	1,78	1,81
1,10	<b>DHE09LA4</b>	Y	3,6	4,5	5,4	5,9	6	6	5,4	1,85	1,99	2,2	2,2	2,2	2,5	2,6
1,50	<b>DHE09XA4</b>	Y	4,9	6,1	7,3	8,1	8,2	8,2	7,3	2,4	2,6	2,8	3	3	3,3	3,4
2,2	<b>DHE09XA4C</b>	Y	7,2	9	10,8	11,8	12	12	10,8	3,5	3,7	3,9	4	4	4,5	4,5
2,2	<b>DHE11SA4</b>	Y	7,2	9	10,8	11,8	12	12	10,8	3,1	3,5	3,8	4	4	4,5	4,5
3,0	<b>DHE11MA4</b>	Y	9,9	12,3	14,8	16,2	16,5	16,5	14,8	4,2	4,7	5,2	5,5	5,5	6,1	6,3
4,0	<b>DHE11LA4</b>	Y	13	16,2	19,5	21	21,5	21,5	19,5	5,6	6,2	6,9	7,3	7,3	8,1	8,3
5,5	<b>DHE11LA4C</b>	Y	18	22,5	27	29,5	30	30	27	7	7,8	8,6	9,2	9,2	10,2	10,4
5,5	<b>DHE13MA4</b>	Y	18	22,5	27	29,5	30	30	27	7,3	8,1	9,1	9,7	9,7	10,8	11
7,5	<b>DHE13LA4</b>	Y	24	30	36	40	40,5	40,5	36	9,9	11	12,3	13,1	13,2	14,7	15
9,2	<b>DHE16MA4</b>	Y	30	37,5	45	49	50	50	45	12,8	14,1	15,5	16,4	16,5	18,3	18,7
11,0	<b>DHE16LA4</b>	Y	35	44	53	58	59	59	53	15	16,6	18,4	19,5	19,6	22	22,5
15,0	<b>DHE16XA4</b>	Y	48,5	60	72	80	81	81	72	21	23	25,5	27	27	30	31
18,5	<b>DHE18LA4</b>	Y	60	75	90	98	100	100	90	22	25,5	29	31	31	34,5	35,5
22	<b>DHE18XA4</b>	Y	70	88	106	116	118	118	106	29,5	32,5	36	38,5	38,5	43	43,5

Feldschwächung für Frequenzen über 60 Hz, Wicklungsauslegung für Standardspannung **460 V Y / 60 Hz**, Wärmeklasse F.

- P Bemessungsleistung
- n Richtwert für die Bemessungsdrehzahl an der Läuferwelle
- M zulässiges Lastmoment (S1-100%) bei Betrieb am Frequenzumrichter
- M<sub>N</sub> Bemessungsdrehmoment an der Läuferwelle
- I Laststrom bei Betrieb am Frequenzumrichter

Die Motoren können mit der Standardwicklung durch Umschalten von Y- auf Δ-Schaltung auch am Umrichter mit einphasigem Netzanschluss betrieben werden. Drehmomente und Frequenzen der obigen Tabelle ändern sich dabei nicht. Bei der Auswahl des Umrichters ist allerdings zu beachten, daß die Ströme um den Faktor 1,73 gegenüber der Y-Schaltung ansteigen.

Die in der Tabelle genannten Lastströme dienen als Richtwerte zur Auswahl der Frequenzumrichtergröße. Liegt das Lastmoment unter den bei 36-84 Hz zulässigen Werten und wird ein hochwertiger Umrichter verwendet, dann reduziert sich der Laststrom. Dadurch kann insbesondere bei größeren Motoren unter Umständen ein kleinerer Umrichter eingesetzt werden.

### Motor-Drehmomente bei Stellbereich 6 Hz - 120 Hz, Netzfrequenz 60 Hz

P kW	Typ	Schaltung	6 Hz	12 Hz	24 Hz	36 Hz	104 Hz	120 Hz	6 Hz	12 Hz	24 Hz	36 Hz	104 Hz	120 Hz
			M Nm	M Nm	M Nm	M Nm	M Nm	M Nm	M Nm	I A	I A	I A	I A	I A
0,03	<b>D04LA4</b>	D	0,105	0,13	0,155	0,18	0,17	0,17	0,245	0,25	0,26	0,325	0,26	0,29
0,04	<b>D04LA4</b>	D	0,145	0,18	0,215	0,235	0,23	0,23	0,28	0,28	0,28	0,325	0,28	0,305
0,06	<b>D04LA4</b>	D	0,22	0,275	0,325	0,355	0,35	0,35	0,455	0,465	0,48	0,5	0,485	0,54
0,09	<b>D04LA4</b>	D	0,33	0,41	0,485	0,53	0,52	0,52	0,72	0,73	0,74	0,72	0,75	0,82
0,12	<b>D04LA4</b>	D	0,445	0,55	0,65	0,71	0,7	0,65	0,63	0,65	0,67	0,75	0,68	0,7
0,06	<b>D05LA4</b>	D	0,22	0,275	0,325	0,355	0,35	0,35	0,48	0,51	0,55	0,57	0,56	0,61
0,09	<b>D05LA4</b>	D	0,33	0,41	0,485	0,53	0,52	0,52	0,58	0,59	0,61	0,63	0,61	0,67
0,12	<b>D05LA4</b>	D	0,445	0,55	0,65	0,71	0,7	0,7	0,6	0,62	0,65	0,68	0,66	0,73
0,18	<b>D05LA4</b>	D	0,67	0,83	0,99	1,08	1,06	1,06	0,93	0,96	1	1,04	1,01	1,11
0,25	<b>D05LA4</b>	D	0,92	1,14	1,36	1,48	1,45	1,45	1,34	1,36	1,38	1,43	1,39	1,53
0,06	<b>D06LA4</b>	D	0,22	0,275	0,325	0,355	0,35	0,35	0,48	0,51	0,55	0,57	0,56	0,61
0,09	<b>D06LA4</b>	D	0,33	0,41	0,485	0,53	0,52	0,52	0,58	0,59	0,61	0,63	0,61	0,67
0,12	<b>D06LA4</b>	D	0,445	0,55	0,65	0,71	0,7	0,7	0,6	0,62	0,65	0,68	0,66	0,73
0,18	<b>D06LA4</b>	D	0,67	0,83	0,99	1,08	1,06	1,06	0,93	0,96	1	1,04	1,01	1,11
0,25	<b>D06LA4</b>	D	0,92	1,14	1,36	1,48	1,45	1,45	1,34	1,36	1,38	1,43	1,39	1,53
0,3	<b>D07LA4</b>	D	1,12	1,38	1,65	1,8	1,76	1,76	2,1	2,1	2,1	2,2	2,1	2,3
0,37	<b>D07LA4</b>	D	1,37	1,69	2	2,2	2,1	2,1	2,2	2,2	2,2	2,2	2,2	2,4
0,55	<b>D08MA4</b>	D	1,98	2,4	2,9	3,1	3,1	3,1	2,2	2,4	2,5	2,7	2,6	2,8
0,75	<b>DHE08XA4</b>	D	2,4	3,1	3,7	4,1	4,1	4,1	2,6	2,6	2,7	2,8	2,8	3,1
0,75	<b>DHE09SA4</b>	D	2,4	3,1	3,7	4,1	4,1	4,1	2,4	2,5	2,7	2,8	2,8	3,1
1,1	<b>DHE09LA4</b>	D	3,6	4,5	5,4	5,9	6	6	3,2	3,5	3,8	3,9	3,9	4,3
1,5	<b>DHE09XA4</b>	D	4,9	6,1	7,3	8,1	8,2	8,2	4,2	4,5	4,9	5,1	5,2	5,7
2,2	<b>DHE09XA4C</b>	D	7,2	9	10,8	11,8	12	12	5,7	6,1	6,6	6,9	7	7,7
2,2	<b>DHE11SA4</b>	D	7,2	9	10,8	11,8	12	12	5,4	5,9	6,5	6,9	7	7,7
3	<b>DHE11MA4</b>	D	9,9	12,3	14,8	16,2	16,5	16,5	7,4	8,1	9	9,5	9,6	10,5
4	<b>DHE11LA4</b>	D	13	16,2	19,5	21	21,5	21,5	10,7	11,4	12,2	12,6	12,7	13,9
5,5	<b>DHE11LA4C</b>	D	18	22,5	27	29,5	30	30	12,4	13,8	15,4	16,4	16,5	18,1
5,5	<b>DHE13MA4</b>	D	18	22,5	27	29,5	30	30	12,6	14,1	15,7	16,7	16,9	18,5
7,5	<b>DHE13LA4</b>	D	24	30	36	40	40,5	40,5	17,1	19,1	21,5	23	23	25,5
9,5	<b>DHE16LA4</b>	D	30,5	38	45,5	50	51	51	21,5	24	27	28,5	29	31,5
11	<b>DHE16LA4</b>	D	35	44	53	58	59	59	26	29	32	34	34	37,5
15	<b>DHE16XA4</b>	D	48,5	60	72	80	81	81	36,5	40	44	46,5	47	52
18,5	<b>DHE18LA4</b>	D	60	75	90	98	100	100	38	43,5	49,5	54	54	60
22	<b>DHE18XA4</b>	D	70	88	106	116	118	118	51	56	63	67	67	74

Feldschwächung für Frequenzen über 87 Hz, Wicklungsauslegung für Standardspannung 265 V / 60 Hz (U<sub>max</sub> = 460 V / 104 Hz), Wärmeklasse F.

- P Bemessungsleistung
- n Richtwert für die Bemessungsdrehzahl an der Läuferwelle
- M zulässiges Lastmoment (S1-100%) bei Betrieb am Frequenzumrichter
- M<sub>N</sub> Bemessungsdrehmoment an der Läuferwelle
- I Laststrom bei Betrieb am Frequenzumrichter

Die in der Tabelle genannten Lastströme dienen als Richtwerte zur Auswahl der Frequenzumrichtergröße. Liegt das Lastmoment unter den bei 36-120 Hz zulässigen Werten und wird ein hochwertiger Umrichter verwendet, dann reduziert sich der Laststrom. Dadurch kann insbesondere bei größeren Motoren unter Umständen ein kleinerer Umrichter eingesetzt werden.

### Auslegungshinweise

Bei Lasten, die konstantes Moment über den gesamten Drehzahlbereich erfordern, z.B. Hebezeuge und Förderer, muss das bei der kleinsten Arbeitsgeschwindigkeit benötigte Moment zur Auswahl des Motors herangezogen werden. Beachten Sie darüber hinaus auch das eventuell verminderte Drehmoment im Feldschwächbereich.

Bei Lasten, die quadratisches Moment über den Drehzahlbereich erfordern, z.B. Pumpen und Lüfter, muss nur das bei der größten Arbeitsgeschwindigkeit erforderliche Moment zur Auswahl des Motors herangezogen werden. Feldschwächung ist nicht zulässig.

Die Leistung des Motors ist frequenzabhängig. Sie kann näherungsweise aus dem Drehmoment  $M$  in Nm, der 50 Hz bzw. 60 Hz Drehzahl  $n$  und der Frequenz  $f$  in Hz mittels

$$P = M \times n / 9550 \times f / 50$$

bzw.

$$P = M \times n / 9550 \times f / 60$$

in kW berechnet werden.

Bei Einsatz eines Frequenzumrichter in Verbindung mit einem Impulsgeber kann auch im Stillstand das volle 50 Hz bzw. 60 Hz Bemessungsmoment als Haltemoment abgegeben werden (Fremdlüfter bei längeren Stillstandszeiten erforderlich). Für das exakte Halten einer Position bzw. aus Sicherheitsgründen kann jedoch in vielen Fällen auf eine mechanische Bremse nicht verzichtet werden.

Zum thermischen Schutz der Motorwicklung bei Frequenzumrichterbetrieb wird der Einsatz von Thermistoren dringend empfohlen (lieferbar gegen Mehrpreis für alle Motorgrößen).

### Erhöhung der Drehmomente bei reduzierter Einschaltdauer

Bei Reduzierung der Einschaltdauer erhöht sich das verfügbare Moment im unteren Frequenzbereich (bis zur Eckfrequenz der Feldschwächung) gemäß den Faktoren der folgenden Tabelle:

Einschaltdauer	Motormoment bei reduzierter Einschaltdauer	Erhöhter Strombedarf näherungsweise
100 %	-	-
60 %	1,15 x S1-Moment	1,15 x S1-Strom
40 %	1,30 x S1-Moment	1,30 x S1-Strom
25 %	1,45 x S1-Moment	1,45 x S1-Strom
15 %	1,60 x S1-Moment	1,60 x S1-Strom

Kurzzeitige Überlastung um den Faktor 1,6, z.B. zum Anfahren aus niedriger Drehzahl, ist daher zulässig. Eine Erhöhung des Drehmoments im Feldschwächbereich aufgrund reduzierter Einschaltdauer ist nur mit Einschränkungen möglich, das 1,6-fache S1-Moment ist in der Regel nicht erreichbar.

### Erhöhung der Drehmomente durch Fremdbelüftung

Bei Einsatz eines Fremdlüfters muss das S1-Drehmoment im unteren Frequenzbereich (unterhalb 30 Hz) nicht reduziert werden, d.h. der fremdbelüftete Motor kann im gesamten Frequenzbereich bis zur Eckfrequenz der Feldschwächung das 50 Hz bzw. 60 Hz Bemessungsmoment abgeben.

Durch Kombination von Fremdbelüftung und reduzierter Einschaltdauer steht mit einem hochwertigen Frequenzumrichter 160% der 50 Hz bzw. 60 Hz Moment vom Stillstand bis zur Eckfrequenz des Feldschwächbereichs zur Verfügung.

Fremdbelüftung ist erst ab dem Motortyp D08 lieferbar (siehe Kapitel 16 „Fremdlüfter“). In vielen Fällen kann durch Wahl eines größeren Motortyps ohne Fremdbelüftung eine preisgünstigere Alternative gefunden werden.

### Energiesparfunktion

Hochwertige Frequenzumrichter erreichen durch Absenken der Spannung bei Teillast eine Reduzierung des Motorstroms und damit eine Verbesserung des Wirkungsgrades. Diese Umrichterfunktion bildet die Wirkungsweise der auf dem Markt erhältlichen „Energiespargeräte“ nach.

### Generatorbetrieb

Beim Einsatz z.B. in Hubantrieben werden generatorische Drehmomente (Bremsmomente) gefordert. Mit einem hochwertigen Frequenzumrichter können die in den Tabellen angegebenen motorischen Drehmomente auch generatorisch aufgebracht werden. Eine Erhöhung der Momente bei reduzierter Einschaltdauer ist generatorisch ebenfalls zulässig.

### Hinweise zum Betrieb von Frequenzumrichtern anderer Hersteller

Es wird vorausgesetzt, dass der Frequenzumrichter einen weitgehend Oberschwingungsfreien Motorstrom erzeugt. Die durch manche Frequenzumrichter älterer Konstruktion im Motor verursachten Oberschwingungen führen zu zusätzlichen Verlusten und vermindern dadurch das verfügbare Moment über den gesamten Frequenzbereich um ca. 10%. Außerdem besteht die Gefahr von Getriebebeschäden durch Schwingungen.

Betrieb unter ca. 5 Hz ohne Impulsgeber ist nur mit Frequenzumrichtern mit fortschrittlichen Regelverfahren möglich. Bei Einsatz von Frequenzumrichtern ohne lastabhängige Frequenz- und Spannungsverstellung muss das Drehmoment unterhalb von ca. 10 Hz speziell bei kleinen Motoren (D04-D..09) auch bei Einsatz eines Fremdlüfters oder verminderter Einschaltdauer aufgrund der höheren Stromaufnahme des Motors reduziert werden. Generatorischer Betrieb ist nur mit Einschränkungen möglich.



Die in diesem Katalog beschriebenen **Getriebe** sind zur Verwendung in explosionsgefährdeten Bereichen der Zonen 1, 2, 21 und 22 geeignet. Eine **EG-Konformitätserklärung** steht auf Anforderung zu Verfügung; sie basiert auf einer „Bewertung der Zündgefahr“, die bei einer benannten Stelle (PTB) hinterlegt ist. Die Zündschutzart der zugehörigen **Motoren** richtet sich nach der Zone, in der sie zur Verwendung kommen sollen und nach der Betriebsweise (z.B. Betrieb am Umrichter). Die Motorteile sind teilweise gegenüber der in diesem Katalog dargestellten Normalausführung vergrößert oder bei druckfester Kapselung ganz anders konstruiert. Das im Abschnitt 3 dargestellte Baukastensystem erlaubt jedoch in den allermeisten Fällen eine Beibehaltung der in diesem Katalog festgelegten Getriebegröße und der Anschlussmaße.

### ATEX

Der Begriff **ATEX** ist abgeleitet von **Atmosphères explosibles**. Die Bezeichnungen **95** und **137** beruhen auf einer Neunummerierung des Artikels des ersten Vertrages zur Gründung der EU. **ATEX 95**: Richtlinie 94/9/EG zur Angleichung der Rechtsvorschriften der Mitgliedstaaten für Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen; verbindlich für das **Inverkehrbringen** seit 01.07.2003

**ATEX 137**: Richtlinie 1999/92/EG über Mindestvorschriften zur Verbesserung des Gesundheitsschutzes und der Sicherheit der Arbeitnehmer, die durch explosionsfähige Atmosphären gefährdet werden können; verbindlich für **Betrieb** neuer Anlagen seit 01.07.2003 und verbindlich für die Anpassung der Betriebsvorschriften bestehender Anlagen ab 01.07.2006.

Sicherheitshinweise für den Betrieb von explosionsgeschützten Getriebemotoren entnehmen sie der BA170...

### Lieferfähigkeit

Typenreihe	Motor-Zündschutzart	Zone	Temperaturklasse T3	Temperaturklasse T4	max. Oberflächentemperatur 120°C	max. Oberflächentemperatur <160°C
DXE	II 2 G Ex e II T3	1	X			
DXD	II 2 G Ex d(e) IIC T4	1	X	X		
DXN	II 3 G Ex nA II T3	2	X			
DXC	II 2 D Ex tD A21 IP65 T<160°C	21				X
DXC	II 2 D Ex tD A21 IP65 T120°C	21			X	
DXS	II 3 D Ex tD T<160°C	22				X
DXE	II 2 G Ex e II T3 / II 2D Ex tD A21 IP65T120°C	1 und 21	X		X	
DXD	II 2 G Ex de IIC T4 / II 2 D T120°C	1 und 21	X	X	X	
DXS	II 3 G Ex nA II T3 / II 3 D Ex tD T<160°C	2 und 22	X			X



### Getriebe mit nichtelektrischem Explosionsschutz

Seit 01.07.2003 dürfen nur noch mechanische Betriebsmittel („Geräte“) in Verkehr gebracht werden, die den Anforderungen der ATEX 95 entsprechen. In der ATEX und der ExVO ist definiert: „Als Geräte gelten Maschinen, Betriebsmittel, stationäre oder ortsbewegliche Vorrichtungen, Steuerungs- und Ausrüstungsteile sowie Warn- und Vorbeugungssysteme, die einzeln oder kombiniert zur Erzeugung, Übertragung, Speicherung, Messung, Regelung und Umwandlung von Energien und zur Verarbeitung von Werkstoffen bestimmt sind und die eigene potentielle Zündquellen aufweisen und dadurch eine Explosion verursachen können.“ Die Festlegung gilt also für das Getriebeteil eines Getriebemotors; aber auch für die angetriebenen Verarbeitungsmaschinen und Anlagen, wenn diese in explosionsgefährdeten Bereichen aufgestellt sind. Für die angetriebene Maschine ist vom Hersteller für den „Konformitätsnachweis“ eine „Bewertung der Zündgefahr“ vorzunehmen und zu dokumentieren; diese Aufgabe wird vereinfacht, wenn für die Komponente „Getriebemotor“ eine eigene Bewertung durchgeführt wurde. Diese Bewertung kann allein nach den Anforderungen der ATEX vorgenommen werden; die „Vermutungswirkung“ spricht aber für das Produkt, wenn eine Norm oder ein Normentwurf zu Grunde liegt.

**Beim Zusammentreffen erschwelter Randbedingungen (z. B. Raumtemperatur > 40 °C, Drehzahl > 1500 r/min, senkrechte Anordnung des Motorteils, Temperaturklasse T4) können sich im oberen Leistungsbereich Einschränkungen für die Auswahl der Getriebe ergeben.**

Für die Bewertung der Bauer-Getriebe wurden u.a. folgende Normen / Entwürfe beachtet:

EN 1127	Explosionsschutz; Grundlagen und Methodik
EN 13463	Nichtelektrische Geräte zum Einsatz in explosionsgefährdeten Bereichen
EN 13463-1	Grundlagen
EN 13463-5	Konstruktive Sicherheit
EN 13463-8	Flüssigkeitskapselung

# Motoren

## Explosionsschutz

### Drehzahlverstellung über Umrichter

Zone	Kategorie	Lieferbare Zündschutzart mitTMS als Alleinschutz	Umrichter getrennt	Umrichter angebaut
1	2G	II 2G Ex de IIC T4	Leistung bis 45 kW	
2	3G	II 3G Ex nA T3	Leistung bis 30 kW	Leistung bis 7,5 kW
21	2D	II 2D Ex tD A21 IP65T<160°C	Leistung bis 30 kW	
22	3D	II 3D Ex tDT <160 °C	Leistung bis 30 kW	Leistung bis 7,5 kW
1 und 21	2G/D	II 2 G Ex de IIC T4 / II 2 D T120°C	Leistung bis 45 kW	-

Motoren der **Zündschutzarten „nA“ und „e“** müssen zusammen mit dem Umrichter als Einheit einer Prüfung unterzogen worden sein.

Bei der **Zündschutzart „e“** muss dies eine Baumusterprüfung durch eine benannte Stelle sein (EN 60079-14). Diese Kombination wird von Bauer nicht geliefert.

Bei den **Zündschutzarten „nA“** wird die erfolgreiche Prüfung durch den Hersteller in einer Konformitätserklärung bestätigt (EN60079-15).

Bei Motoren der **Zündschutzarten „d“ und „de“ für Temperaturklassen bis T4** brauchen Motor und Umrichter nicht zusammen geprüft zu sein; die für den Explosionsschutz maßgebende Oberflächentemperatur wird durch die Überwachungseinrichtung TMS kontrolliert (EN 60079-14).

Bei der **Zündschutzart „tD“** wird die für den Explosionsschutz maßgebende Oberflächentemperatur durch die Überwachungseinrichtung TMS kontrolliert; die Prüfung der Verbindung von Motor und Umrichter ist nicht erforderlich (EN 61241-14).

**Für den Betrieb an Frequenzumrichtern dürfen nur Motoren mit Temperaturüberwachung durch Kaltleitertemperaturfühler eingesetzt werden!**

### Technische Daten für Motoren der Zündschutzart "erhöhte Sicherheit"

II 2G Ex e II T3 2p = 4, 50 Hz

P	Typ	n	M <sub>N</sub>	I <sub>N</sub> (400 V)	Schaltung	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	EG Baumusterprüfbescheinigung	T1	T2	T3	T4
kW		1/min	Nm	A							s	s	s	s
0,12	<b>DXE06LA4</b>	1350	0,85	0,42	Y	0,73	3,4	2,2	2,2	PTB 08 ATEX 3048-BI.01	160	160	160	40
0,18	<b>DXE06LA4</b>	1350	1,28	0,63	Y	0,7	3,4	2,3	2,4	PTB 08 ATEX 3048-BI.02	50	50	50	19
0,25	<b>DXE06LA4</b>	1350	1,75	0,88	Y	0,69	3,3	2,3	2,3	PTB 08 ATEX 3048-BI.03	30	30	30	0
0,37	<b>DXE08MA4</b>	1400	2,5	1,08	Y	0,73	4,7	2,3	2,6	PTB 08 ATEX 3049-BI.09	25	25	25	0
0,55	<b>DXE08MA4</b>	1400	3,8	1,6	Y	0,75	4,2	2,1	2,3	PTB 08 ATEX 3049-BI.02	21	21	21	0
0,75	<b>DXE08LA4</b>	1400	5,1	2	Y	0,76	4,6	2,2	2,5	PTB 08 ATEX 3049-BI.03	16	16	16	0
1,1	<b>DXE09SA4</b>	1400	7,5	2,8	Y	0,78	5,1	2,3	2,7	PTB 08 ATEX 3050-BI.02	17	17	17	0
1,5	<b>DXE09LA4</b>	1400	10,2	3,6	Y	0,8	5,4	2,4	2,8	PTB 08 ATEX 3050-BI.03	12	12	12	0
2,2	<b>DXE11SA4</b>	1420	14,8	5,1	Y	0,82	6,2	2,2	2,9	PTB 08 ATEX 3051-BI.02	12	12	12	0
3	<b>DXE11MA4</b>	1420	20,2	6,5	Δ	0,85	6,3	2,2	2,8	PTB 08 ATEX 3051-BI.03	11	11	11	0
4	<b>DXE11LA4</b>	1420	26,5	8,7	Δ	0,81	7,8	2,9	3,6	PTB 08 ATEX 3051-BI.04	9	9	9	0
5,5	<b>DXE13LA4</b>	1460	36	11,9	Δ	0,8	8,1	3,2	3,5	PTB 08 ATEX 3052-BI.02	13	13	12	0
7,5	<b>DXE16MA4</b>	1460	49	15,2	Δ	0,84	6,9	2,5	2,7	PTB 08 ATEX 3053-BI.01	16	16	15	0
9,5	<b>DXE16LA4</b>	1460	64	19,1	Δ	0,84	8	2,7	2,8	PTB 08 ATEX 3053-BI.02	14	14	9	0
11	<b>DXE16XA4</b>	1460	71	22	Δ	0,84	8,1	3	3,1	PTB 08 ATEX 3053-BI.04	12	12	10	0

II 2G Ex e II T3 2p = 4, 60 Hz

P	Typ	n	M <sub>N</sub>	I <sub>N</sub> (440 V)	Schaltung	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	EG Baumusterprüfbescheinigung	T1	T2	T3	T4
kW		1/min	Nm	A							s	s	s	s
0,12	<b>DXE06LA4</b>	1660	0,7	0,37	Y	0,73	3,9	2,4	2,4	PTB 08 ATEX 3048-BI.05	160	160	160	40
0,18	<b>DXE06LA4</b>	1660	1,06	0,57	Y	0,7	3,8	2,6	2,7	PTB 08 ATEX 3048-BI.04	50	50	50	19
0,25	<b>DXE06LA4</b>	1660	1,45	0,8	Y	0,69	3,6	2,5	2,5	PTB 08 ATEX 3048-BI.06	30	30	30	0
0,37	<b>DXE08MA4</b>	1680	2	0,98	Y	0,73	5,1	2,5	2,9	PTB 08 ATEX 3049-BI.10	25	25	25	0
0,55	<b>DXE08MA4</b>	1680	3,1	1,45	Y	0,75	4,6	2,3	2,5	PTB 08 ATEX 3049-BI.05	21	21	21	0
0,75	<b>DXE08LA4</b>	1680	4,2	1,82	Y	0,76	5	2,4	2,7	PTB 08 ATEX 3049-BI.06	16	16	16	0
1,1	<b>DXE09SA4</b>	1710	6,2	2,5	Y	0,78	5,6	2,5	3	PTB 08 ATEX 3050-BI.04	17	17	17	0
1,5	<b>DXE09LA4</b>	1710	8,5	3,3	Y	0,8	5,9	2,6	3,1	PTB 99 ATEX 3272-BI.05	12	12	12	0
2,2	<b>DXE11SA4</b>	1710	12,2	4,6	Y	0,82	6,8	2,4	3,2	PTB 08 ATEX 3051-BI.05	12	12	12	0
3	<b>DXE11MA4</b>	1710	16,7	5,9	Δ	0,85	6,9	2,4	3,1	PTB 08 ATEX 3051-BI.06	11	11	11	0
4	<b>DXE11LA4</b>	1710	22	7,9	Δ	0,81	8,4	3,2	3,9	PTB 09 ATEX 3051-BI.07	9	9	9	0
5,5	<b>DXE13LA4</b>	1760	30	10,7	Δ	0,8	8,6	3,5	3,8	PTB 08 ATEX 3052-BI.03	13	13	12	0
7,5	<b>DXE16MA4</b>	1760	40,5	13,8	Δ	0,84	7,6	2,7	3	PTB 08 ATEX 3053-BI.05	16	16	15	0
9,5	<b>DXE16LA4</b>	1760	53	17,3	Δ	0,84	8,2	3	3,1	PTB 08 ATEX 3053-BI.06	14	14	9	0
11	<b>DXE16XA4</b>	1760	59	19,8	Δ	0,84	8,7	3,3	3,4	PTB 08 ATEX 3053-BI.08	12	12	10	0

# Motoren

## Explosionsschutz

### Technische Daten für Motoren der Zündschutzart "druckfeste Kapselung"

Ex d(e) IIC T4 2p = 4 50Hz, eintourig

P	Typ	n	M <sub>N</sub>	I <sub>N</sub> (400 V)	Schaltung	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	EG Baumuster- prüfbescheinigung
kW		1/min	Nm	A						
0,25	<b>DNFXD07K0D4</b>	1350	1,74	0,7	Y	0,8	3,5	2	2,5	09 ATEX 1050X
0,37	<b>DNFXD07L0D4</b>	1350	2,6	0,95	Y	0,8	3,6	2,2	2,6	09 ATEX 1050X
0,55	<b>DNFXD08K0D4</b>	1400	3,8	1,36	Y	0,8	3,8	2	2,3	09 ATEX 1051X
0,75	<b>DNFXD08L0D4</b>	1400	5,1	1,83	Y	0,79	4,2	2,1	2,5	09 ATEX 1051X
1,1	<b>DNFXD09L1D4</b>	1400	7,5	2,5	Y	0,84	4,8	2,1	2,5	09 ATEX 1051X
1,5	<b>DNFXD09L2D4</b>	1400	10,2	3,2	Y	0,84	5	2,3	2,7	09 ATEX 1051X
2,2	<b>DNFXD10L1D4</b>	1400	14,8	5	Y	0,8	5,4	2,4	2,8	09 ATEX 1051X
3	<b>DNFXD10L2D4</b>	1400	20,2	6,6	Y	0,82	5,5	2,3	2,7	09 ATEX 1051X
4	<b>DNFXD11M0D4</b>	1420	26,6	8,1	Y	0,84	6,8	2,7	3,2	09 ATEX 1051X
5,5	<b>DNFXD13S0D4</b>	1420	36,5	10,7	Y	0,86	6,2	2,5	2,7	09 ATEX 1051X
7,5	<b>DNFXD13M0D4</b>	1420	50	14,3	Y	0,86	6,5	2,7	2,8	09 ATEX 1051X
11	<b>DNFXD16M0D4</b>	1460	72	21	Δ	0,85	6,6	2,5	2,8	09 ATEX 1051X
15	<b>DNFXD16L0D4</b>	1460	98	28	Δ	0,86	6,5	2,8	3,1	09 ATEX 1051X
18,5	<b>DNFXD18M0D4</b>	1460	121	35	Δ	0,84	6,6	2,9	3	09 ATEX 1052X
22	<b>DNFXD18L0D4</b>	1460	144	41	Δ	0,85	6,9	3	3	09 ATEX 1052X
30	<b>DNFXD20L0D4</b>	1460	196	53	Δ	0,88	6,8	2,6	2,9	09 ATEX 1053X
37	<b>DNFXD22S0D4</b>	1460	241	65	Δ	0,89	6,7	2,7	2,6	09 ATEX 1051X
45	<b>DNFXD22M0D4</b>	1460	292	78	Δ	0,89	6,5	2,7	2,6	09 ATEX 1051X

Exd(e) IIC T4 2p = 4 50Hz

P	Typ	n	M <sub>N</sub>	I <sub>N</sub> (400V)	η	η	η	Schaltung	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	EG Baumuster- prüfbescheinigung
kW		1/min	Nm	A	(100% - Last)	(75% - Last)	(50% - Last)						
0,75	<b>DNFXD08L0H4</b>	1445	5	1,71	IE2	81,0%		Y	0,78	6,8	3,2	4,2	09 ATEX 1051X
1,1	<b>DNFXD09L1H4</b>	1455	7,2	2,4	IE2	82,7%		Y	0,8	6,8	2,4	3,1	09 ATEX 1051X
1,5	<b>DNFXD09L2H4</b>	1450	9,9	3,2	IE2	84,0%		Y	0,81	6,9	2,5	3,2	09 ATEX 1051X
2,2	<b>DNFXD10L1H4</b>	1450	14,5	4,4	IE2	85,5%		Y	0,84	7,3	2,9	3,3	09 ATEX 1051X
3	<b>DNFXD10L2H4</b>	1450	18,8	6	IE2	86,6%		Y	0,84	7,4	3,1	3,6	09 ATEX 1051X
4	<b>DNFXD11M0H4</b>	1460	26,2	7,9	IE2	87,6%		Y	0,83	7,2	3	3,4	09 ATEX 1051X
5,5	<b>DNFXD13S0H4</b>	1460	36	10,5	IE2	88,6%		Y	0,85	7,1	3,2	3,5	09 ATEX 1051X
7,5	<b>DNFXD13M0H4</b>	1460	49	14,1	IE2	89,5%		Y	0,86	7,4	3,1	3,3	09 ATEX 1051X
11	<b>DNFXD16M0H4</b>	1470	71	20,5	IE2	90,6%		Δ	0,85	7,1	2,8	3,1	09 ATEX 1051X
15	<b>DNFXD16L0H4</b>	1470	97	28,5	IE2	91,3%		Δ	0,83	7,4	3	3,3	09 ATEX 1051X
18,5	<b>DNFXD18M0H4</b>	1470	120	35	IE2	91,9%		Δ	0,83	7,4	3,3	3,4	09 ATEX 1052X
22	<b>DNFXD18L0H4</b>	1470	143	41,5	IE2	92,3%		Δ	0,83	7,3	3,3	3,3	09 ATEX 1052X
30	<b>DNFXD20L0H4</b>	1470	195	55	IE2	92,9%		Δ	0,85	7,6	3,1	3,3	09 ATEX 1053X
37	<b>DNFXD22S0H4</b>	1475	240	67	IE2	93,3%		Δ	0,85	7,1	3	2,9	09 ATEX 1051X
45	<b>DNFXD22M0H4</b>	1475	291	81	IE2	93,6%		Δ	0,86	7,2	3,1	3	09 ATEX 1051X

Exd(e) IIC T4 2p = 4 50Hz

P	Typ	n	M <sub>N</sub>	I <sub>N</sub> (400V)	η	η	η	Schaltung	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	EG Baumuster- prüfbescheinigung
kW		1/min	Nm	A	(100% - Last)	(75% - Last)	(50% - Last)						
0,75	<b>DNFXD08L0P4</b>	1445	5	1,68	IE3	82,6%		Y	0,78	6,8	3,2	4,2	09 ATEX 1051X
1,1	<b>DNFXD09L1P4</b>	1455	7,2	2,3	IE3	84,2%		Y	0,8	6,8	2,4	3,1	09 ATEX 1051X
1,5	<b>DNFXD09L2P4</b>	1450	9,9	3,1	IE3	85,5%		Y	0,81	6,9	2,5	3,2	09 ATEX 1051X
2,2	<b>DNFXD10L1P4</b>	1450	14,5	4,3	IE3	87,1%		Y	0,84	7,3	2,9	3,3	09 ATEX 1051X
3	<b>DNFXD10L2P4</b>	1450	18,8	5,9	IE3	87,8%		Y	0,84	7,4	3,1	3,6	09 ATEX 1051X
4	<b>DNFXD11M0P4</b>	1460	26,2	7,8	IE3	88,7%		Y	0,83	7,2	3	3,4	09 ATEX 1051X
5,5	<b>DNFXD13S0P4</b>	1460	36	10,4	IE3	89,6%		Y	0,85	7,1	3,2	3,5	09 ATEX 1051X
7,5	<b>DNFXD13M0P4</b>	1460	49	13,9	IE3	90,5%		Y	0,86	7,4	3,1	3,3	09 ATEX 1051X
11	<b>DNFXD16M0P4</b>	1470	71	20,5	IE3	91,5%		Δ	0,85	7,1	2,8	3,1	09 ATEX 1051X
15	<b>DNFXD16L0P4</b>	1470	97	28,5	IE3	92,1%		Δ	0,83	7,4	3,1	3,4	09 ATEX 1051X
18,5	<b>DNFXD18M0P4</b>	1470	120	34,5	IE3	92,7%		Δ	0,83	7,4	3,3	3,4	09 ATEX 1052X
22	<b>DNFXD18L0P4</b>	1470	143	41	IE3	93,2%		Δ	0,83	7,4	3,3	3,3	09 ATEX 1052X
30	<b>DNFXD20L0P4</b>	1470	195	54	IE3	93,8%		Δ	0,85	7,6	3,1	3,3	09 ATEX 1053X
37	<b>DNFXD22S0P4</b>	1475	240	67	IE3	93,9%		Δ	0,85	7,1	3	2,9	09 ATEX 1051X
45	<b>DNFXD22M0P4</b>	1475	291	80	IE3	94,3%		Δ	0,86	7,2	3,1	3	09 ATEX 1051X

Exd(e) IIC T4 2p = 4/2 50Hz, polumschaltbar (4/2-polig)

P	Typ	n	M <sub>N</sub>	I <sub>N</sub> (400 V)	Schaltung	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	EG Baumuster- prüfbescheinigung
kW		1/min	Nm	A						
0,50 / 0,65	<b>DNFXD08K0D42</b>	1400/2800	3,4 / 2,2	1,43 / 1,66	Δ/YY	0,75/0,89	3,9/4,2	2,0/2,2	2,6/3,0	09 ATEX 1051X
0,70 / 0,85	<b>DNFXD08L0D42</b>	1400/2800	4,8 / 2,8	1,92 / 2,1	Δ/YY	0,75/0,87	4,0/4,8	2,1/2,4	2,7/3,2	09 ATEX 1051X
1,10 / 1,40	<b>DNFXD09L1D42</b>	1400/2800	7,5 / 4,7	2,7 / 3,1	Δ/YY	0,84/0,92	4,2/4,9	1,8/1,9	2,2/3,0	09 ATEX 1051X
1,50 / 1,90	<b>DNFXD09L2D42</b>	1400/2800	10,2 / 6,4	3,5 / 4,1	Δ/YY	0,83/0,92	4,7/5,4	2,0/2,2	2,3/3,0	09 ATEX 1051X
2,6 / 3,2	<b>DNFXD10L0D42</b>	1400/2800	17,6 / 10,6	5,9 / 6,5	Δ/YY	0,82/0,91	4,8/5,8	2,0/2,1	2,7/3,0	09 ATEX 1051X
3,7 / 4,4	<b>DNFXD11M0D42</b>	1420/2840	24,7 / 14,5	7,6 / 8,9	Δ/YY	0,85/0,91	6,0/6,7	2,2/2,5	3,0/3,3	09 ATEX 1051X
5,0 / 6,0	<b>DNFXD13S0D42</b>	1420/2840	33 / 19,6	10,4 / 12	Δ/YY	0,84/0,91	5,0/6,4	2,1/2,5	2,9/2,9	09 ATEX 1051X
7,0 / 9,0	<b>DNFXD13M0D42</b>	1420/2840	46 / 29,5	14,2 / 17,3	Δ/YY	0,85/0,92	5,8/6,8	2,6/2,5	2,8/3,0	09 ATEX 1051X
9,5 / 11,0	<b>DNFXD16M0D42</b>	1460/2920	62 / 35,5	18,7 / 19,8	Δ/YY	0,84/0,92	6,0/6,8	2,5/2,7	2,8/3,1	09 ATEX 1051X
13,0 / 16,0	<b>DNFXD16L0D42</b>	1460/2920	85 / 52	25 / 28,5	Δ/YY	0,84/0,92	6,0/6,8	2,3/2,6	2,8/3,2	09 ATEX 1051X
16,5 / 20	<b>DNFXD18M0D42</b>	1460/2920	108 / 65	32 / 36,5	Δ/YY	0,83/0,90	6,5/6,9	2,8/2,8	2,7/3,0	09 ATEX 1052X
19,0 / 25	<b>DNFXD18L0D42</b>	1460/2920	124 / 81	36,5 / 45,5	Δ/YY	0,83/0,90	6,5/6,8	3,1/3,1	2,9/3,2	09 ATEX 1052X
26 / 31	<b>DNFXD20L0D42</b>	1460/2920	169 / 100	47 / 53	Δ/YY	0,87/0,93	6,6/7,1	2,8/2,7	3,0/3,5	09 ATEX 1053X

Exd(e) IIC T4 2p = 8/4 50Hz, polumschaltbar (8/4-polig)

P	Typ	n	M <sub>N</sub>	I <sub>N</sub> (400 V)	Schaltung	cos φ	I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	EG Baumuster- prüfbescheinigung
kW		1/min	Nm	A						
0,40 / 0,60	<b>DNFXD09L1D84</b>	700/1400	5,7 / 4,0	1,48 / 1,40	Δ/YY	0,69/0,88	2,7/4,4	1,5/2,0	2,0/2,5	09 ATEX 1051X
0,55 / 0,80	<b>DNFXD09L2D84</b>	700/1400	7,7 / 5,4	2,0 / 1,87	Δ/YY	0,68/0,87	3,3/4,2	1,7/2,0	2,2/2,6	09 ATEX 1051X
0,90 / 1,30	<b>DNFXD10L1D84</b>	700/1400	12,5 / 8,9	3,0 / 3,1	Δ/YY	0,71/0,90	3,1/4,2	1,6/2,1	1,6/2,2	09 ATEX 1051X
1,00 / 1,60	<b>DNFXD10L2D84</b>	700/1400	13,6 / 10,9	3,1 / 3,5	Δ/YY	0,71/0,91	3,5/4,5	1,7/1,7	2,2/2,4	09 ATEX 1051X
1,50 / 2,5	<b>DNFXD11M0D84</b>	710/1420	20,2 / 16,8	4,1 / 5,0	Δ/YY	0,73/0,90	4,4/5,4	1,8/1,9	2,2/2,3	09 ATEX 1051X
2,3 / 3,6	<b>DNFXD13S0D84</b>	710/1420	30,7 / 24	6,8 / 7,3	Δ/YY	0,66/0,89	4,2/5,3	1,7/1,8	2,6/2,5	09 ATEX 1051X
3,0 / 5,0	<b>DNFXD13M0D84</b>	710/1420	40 / 33	8,1 / 9,5	Δ/YY	0,67/0,90	4,6/5,8	1,9/1,9	2,7/2,6	09 ATEX 1051X
4,7 / 5,5	<b>DNFXD16M1D84</b>	730/1460	62 / 36	11,5 / 12,1	Δ/YY	0,73/0,86	4,7/5,7	1,7/2,1	2,5/3,0	09 ATEX 1051X
5,5 / 7,5	<b>DNFXD16M2D84</b>	730/1460	73 / 49,5	12,1 / 14,8	Δ/YY	0,79/0,90	4,6/6,1	1,7/2,0	2,2/2,8	09 ATEX 1051X
7,0 / 11,0	<b>DNFXD16L0D84</b>	730/1460	93 / 72	16,3 / 22	Δ/YY	0,74/0,89	5,5/6,6	2,0/2,0	2,7/3,0	09 ATEX 1051X
11,0 / 18,0	<b>DNFXD18L0D84</b>	730/1460	145 / 117	25 / 32	Δ/YY	0,74/0,92	6,0/6,9	2,2/2,1	2,8/3,2	09 ATEX 1052X
17,0 / 27	<b>DNFXD20L0D84</b>	730/1460	222 / 175	39,5 / 47	Δ/YY	0,70/0,91	6,4/7,1	2,2/2,2	3,5/3,8	09 ATEX 1053X
22 / 32	<b>DNFXD22S0D84</b>	730/1460	286 / 207	47,5 / 56	Δ/YY	0,75/0,91	6,4/7,2	2,3/2,1	3,3/3,5	09 ATEX 1051X
26 / 38	<b>DNFXD22M0D84</b>	730/1460	340 / 246	53 / 65	Δ/YY	0,78/0,93	6,5/7,2	2,4/2,5	3,4/3,6	09 ATEX 1051X

# Motoren

## Explosionsschutz

Ex d(e) IIC T4 2p=4 VF 5... 70 Hz  $U_{50Hz} = 400V$

P	S	Typ	Schaltung	M <sub>5Hz</sub>	M <sub>10Hz</sub>	M <sub>20Hz</sub>	M <sub>30Hz</sub>	M <sub>50Hz</sub>	M <sub>60Hz</sub>	M <sub>70Hz</sub>
kW				Nm	Nm	Nm	Nm	Nm	Nm	Nm
0,25	S1	<b>DNFXD07K0D4</b>	Y	1,04	1,30	1,56	1,71	1,745	1,45	1,20
0,37	S1	<b>DNFXD07L0D4</b>	Y	1,53	1,92	2,3	2,5	2,5	2,1	1,8
0,55	S1	<b>DNFXD08K0D4</b>	Y	2,2	2,8	3,4	3,8	3,8	3,2	2,8
0,75	S1	<b>DNFXD08L0D4</b>	Y	3,0	3,8	4,5	5,0	5,1	4,3	3,7
1,10	S1	<b>DNFXD09L1D4</b>	Y	4,5	5,6	6,7	7,4	7,5	6,3	5,4
1,50	S1	<b>DNFXD09L2D4</b>	Y	6,1	7,6	9,1	10	10,2	8,5	7,3
2,2	S1	<b>DNFXD10L1D4</b>	Y	8,8	11,1	13,3	14,6	14,8	12,3	10,6
3,0	S1	<b>DNFXD10L2D4</b>	Y	12,1	15,1	18,1	19,9	20	16,9	14,5
4,0	S1	<b>DNFXD11M0D4</b>	Y	15,9	19,9	23,5	26	26,5	22,2	19,0
5,5	S1	<b>DNFXD13S0D4</b>	Y	21,5	27	32,5	36	36,5	30,4	26,0
7,5	S1	<b>DNFXD13M0D4</b>	Y	30	37,5	45	49	50	41	36
11,0	S1	<b>DNFXD16M0D4</b>	Y	43	54	64	71	72	60	51
15,0	S1	<b>DNFXD16L0D4</b>	Y	58	73	88	96	98	82	70
18,5	S1	<b>DNFXD18M0D4</b>	Y	72	90	108	119	121	101	86
22	S1	<b>DNFXD18L0D4</b>	Y	86	108	129	142	144	120	103
30	S1	<b>DNFXD20L0D4</b>	Y	117	147	176	193	196	164	140
37	S1	<b>DNFXD22S0D4</b>	Y	144	180	201	235	240	201	172
45	S1	<b>DNFXD22M0D4</b>	Y	175	215	240	285	290	244	209

### Technische Daten für Motoren der Zündschutzart "non sparking"

Motortypenreihe DXN  
Leistungsauswahl: Siehe Tabellen „Technische Daten der 50 Hz Motoren“ für die Grundtypen D04 ... D18

### Technische Daten für Motoren der Zündschutzart "staubexplosionsgeschützt"

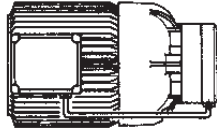
Motortypenreihe DXC für Zone 21 ; max. Oberflächentemperatur < 160°C  
Leistungsauswahl: Siehe Tabellen „Technische Daten der 50 Hz Motoren“ für die Grundtypen D05 ... D18

Motortypenreihe DXS für Zone 22 ; max. Oberflächentemperatur < 160°C  
Leistungsauswahl: Siehe Tabellen „Technische Daten der 50 Hz Motoren“ für die Grundtypen D05 ... D18

### Technische Daten für Motoren der Zündschutzart "gas- und staubexplosionssgeschützt"

Auf Anfrage

# 15



Seite

---

## Motoranbauten

587-612

Bremsen  
Gebersystem  
Inkrementaler Drehgeber  
Absolut Drehgeber  
Modulares Motorsystem

---

### Funktionsbeschreibung

Die Druckfedern drücken über die axial bewegliche Ankerscheibe die mit der Läuferwelle formschlüssig verbundene Bremscheibe gegen die Reibplatte bzw. das Motorlagerschild. Das Bremsmoment wird erzeugt.

Durch Anlegen einer Gleichspannung an die Erregerwicklung im Magnetgehäuse entsteht eine Magnetkraft, wodurch die Ankerscheibe gegen die Federkraft vom Magnetgehäuse angezogen wird. Der Bremscheibe wird freigegeben und die Bremse ist gelüftet.

Je nach Art der Anwendung werden die Bremsen in Ihrer Funktion als Halte- oder Arbeitsbremse unterschieden.

Haltebremse ES.. / ZS..

Bremse, die im regulären Betrieb keine Reibarbeit umsetzt, sondern lediglich der Sicherung einer angefahrenen Position dient, jedoch im Notfall auch eine Abbremsfunktion ausüben kann.

Arbeitsbremse ESX.. / ZSX..

Bremse, die im regulären Betrieb Reibarbeit umsetzt, d.h. eine Abbremsfunktion ausübt.

Bei Verwendung der Arbeitsbremse in Funktion als Haltebremse ist der Bremsmoment-Toleranzbereich von bis zu -30% (Neuzustand) zu berücksichtigen.

### Produktbeschreibung der Federkraftbremsen Typ ES(X)

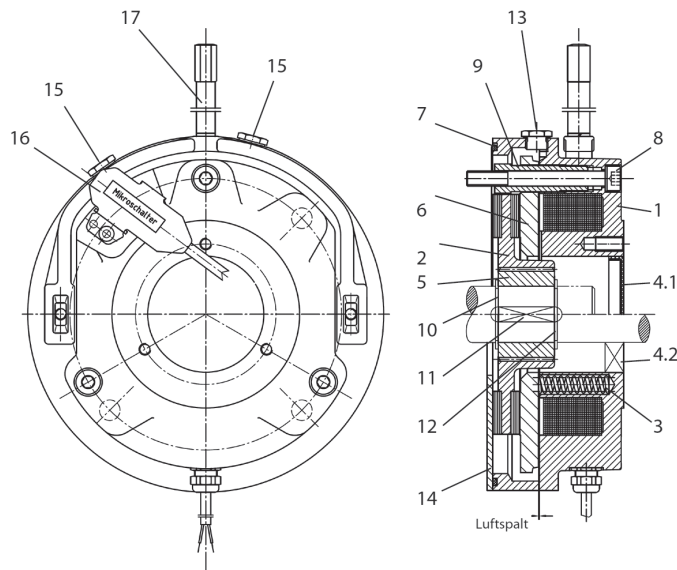


Bild 1: Aufbau ES(X)Bremse

### Bremsenanbau

ES und ESX: Bremsenanbau erfolgt unter der Lüfterhaube  
EH und EHX: Bremsenanbau erfolgt auf der Lüfterhaube



### Ausführungsoptionen

- Handlüftung, nicht arretierbar oder arretierbar
- Mikroschalter zur Funktions- oder Verschleißüberwachung

### Aufbau

- |     |  |
|-----|--|
| 1   | Magnetgehäuse  |
| 2   | Bremsscheibe   |
| 3   | Druckfeder   |
| 4.1 | Verschlusskappe bei geschlossener Bremse                     |
| 4.2 | Wellendichtring bei durchgehender Welle                      |
| 5   | Mitnehmer  |
| 6   | Ankerscheibe   |
| 7   | O-Ring   |
| 8   | Befestigungsschraube mit Kupferscheibe                       |
| 9   | Hohlschraube   |
| 10  | Sicherungsring   |
| 11  | Passfeder  |
| 12  | Sicherungsring   |
| 13  | Verschlusschraube zur Kontrolle des vorhandenen Luftspaltes  |
| 14  | Reibplatte – nur bei Motorbaugröße D..08 und D..09           |
| 15  | Verschlusschraube zur Kontrolle der Mikroschaltereinstellung |
| 16  | Mikroschalter (optional)                                     |
| 17  | Handlüftung (optional)                                       |

### Produktbeschreibung der Federkraftbremsen Typ ZS(X)

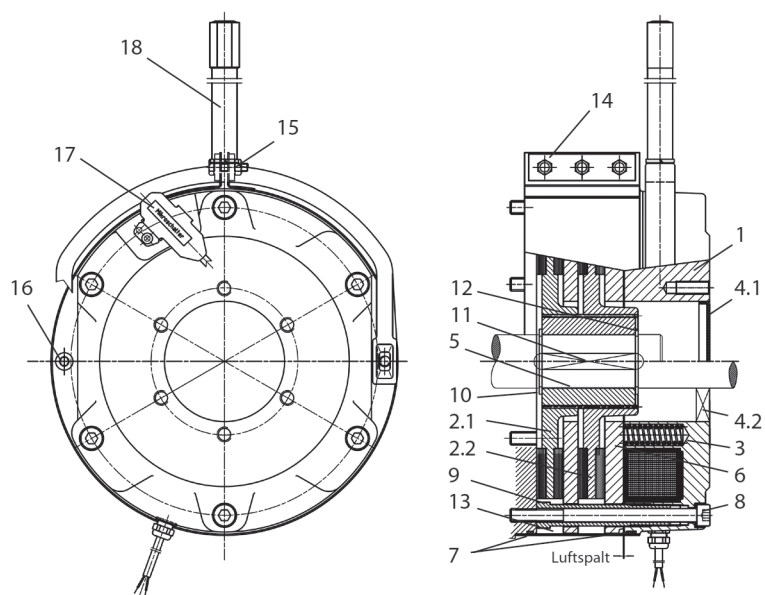


Bild 2: Aufbau ZS(X) Bremse

### Ausführungsoptionen

- Handlüftung, nicht arretierbar oder arretierbar
- Mikroschalter zur Funktions- oder Verschleißüberwachung

### Aufbau

1	Magnetgehäuse
2	Bremsscheibe 2.1 und 2.2
3	Druckfeder
4.1	Verschlusskappe
4.2	Wellendichtring bei durchgehender Welle
5	Mitnehmer
6	Ankerscheibe
7	O-Ringe
8	Befestigungsschraube mit Kupferscheibe
9	Hohlschraube
10	Sicherungsring
11	Passfeder
12	Sicherungsring
13	Abdeckung
14	Befestigungsschrauben
15	Blech
16	Montageschraube/ Montaghilfe
17	Mikroschalter (optional)
18	Handlüftung (optional)

### Auslegung Bremse

Die zu klein dimensionierte Arbeitsbremse hat erhöhten Verschleiß und verminderte Lebensdauer, die zu groß dimensionierte Bremse kann die mechanischen Übertragungsmittel des Antriebes zu hoch beanspruchen.

Sind keine spezifischen Daten der Anwendung bekannt, empfehlen wir das Bremsmoment bei horizontal angetriebenen Anlagen mit einer Sicherheit von  $K = 1,0 \dots 1,5$  fach des Motorbemessungsmomentes zu wählen.

Bei Auslaufbremsung sollte das Bremsmoment mindestens gleich 80% des Bemessungsmomentes des Antriebes gewählt werden.

Bemessungsmoment:

$$M_{\text{Berf}} = \frac{P \times 9550}{n_2} \times K$$

$M_{\text{Berf}}$	Bremsmoment	[Nm]
$P$	Motorleistung	[kW]
$n$	Bemessungsdrehzahl an der Läuferwelle	[1/min]

Bei Hubbetrieb sollte aus Sicherheitsgründen immer das 2-fache Bemessungsmoment des Motors als Bremsmoment gewählt werden.

Ist das Massenträgheitsmoment, die Drehzahl und die zulässige Verzögerungszeit der Maschine bekannt, so kann das Bremsmoment wie folgt berechnet werden.

### Externe Massenträgheitsmomente

Laufen die von der Bremse zu verzögernden Massen mit einer anderen Drehzahl als die der Läuferwelle, so muss das Massenträgheitsmoment ( $J_{\text{ext}}$ ) auf die Läuferwelle reduziert werden.

$$J_{\text{ext}'} = \frac{J_{\text{ext}1} \times n_1^2 + J_{\text{ext}2} \times n_2^2 + \dots + J_{\text{ext}n} \times n_n^2}{i^2}$$

bzw. über die Untersetzung des Getriebes auf die Läuferwelle reduziertes externes Massenträgheitsmoment.

$$J_{\text{ext}'} = \frac{J_{\text{ext}}}{i^2}$$

$J_{\text{ext}}$	Gesamtes externes Massenträgheitsmoment [kgm <sup>2</sup> ]
$J_{\text{ext}'}$	Gesamtes externes Massenträgheitsmoment bezogen auf die Läuferwelle des Motors [kgm <sup>2</sup> ]
$J_{\text{ext}1,2,\dots}$	Einzelne externe Massenträgheitsmomente [kgm <sup>2</sup> ]
$i$	Untersetzung Getriebe
$n$	Drehzahl der Motor - Läuferwelle
$n_{1,2,\dots}$	Drehzahlen der einzelnen Massenträgheitsmomente [1/min]

Lastmoment bei statischer Belastung

$$M_L = F \times r$$

$M_L$	Lastmoment [Nm]
$F$	Kraft [N]
$r$	Hebelarm [m]

### Bremsmoment bei dynamischer Belastung

Eine rein dynamische Belastung liegt vor, wenn Schwungräder, Walzen u. a. zu verzögern sind und das statische Lastmoment vernachlässigbar klein ist.

$$M_a = \frac{J_{\text{ges}} \times n_a}{9,55 \times (t_a - t_A)} = \frac{(J_{\text{ext}'} + J_{\text{rot}} + J_{\text{Br}}) \times n_a}{9,55 \times (t_a - t_A)}$$

$J_{\text{Be}}$	Trägheitsmoment der Bremse [kgm <sup>2</sup> ]
$J_{\text{rot}}$	Trägheitsmoment der Motor – Läuferwelle [kgm <sup>2</sup> ]
$M_a$	Verzögerungsmoment [Nm]
$n_a$	Drehzahl ab der die Verzögerung eingeleitet wird [1/min]
$t_a$	Gesamte Verzögerungszeit ( vom Abschalten bis Antrieb steht) [s]
$t_A$	Ansprechzeit der Bremse beim Bremsen (entspricht $t_{\text{AC}}$ bzw. $t_{\text{DC}}$ in den Tabellen zu techn. Daten) [s]

### Dynamische und statische Belastung

In den meisten Anwendungsfällen kommt zu einem statischen Lastmoment eine dynamische Belastung hinzu.

$$M_{\text{Berf}} = (M_a \pm M_L) \times K \quad \text{wobei} \quad M_{\text{Berf}} \leq M_{\text{Br}} \quad \text{sein muss.}$$

$M_L$  bremsendes (+) oder treibendes (-) Lastenmoment [Nm]

### Schaltarbeit pro Bremsung

Die kinetische Energie der bewegten Massen wird durch Reibung in Wärme umgesetzt. Sie beträgt

$$W = \frac{J_{\text{ges}} \times n^2}{182,5} = \frac{(J_{\text{ext}'} + J_{\text{rot}} + J_{\text{Br}}) \times n_a^2}{182,5} \quad \text{wobei} \quad W \leq W_{\text{max}} \quad \text{sein muss.}$$

$W$	Schaltarbeit pro Bremsung [J]
$M_{\text{max}}$	maximal zulässige Reibarbeit pro Bremsung (siehe Bremsentabelle)

### Thermisch zulässige Schaltarbeit von Arbeitsbremsen

Bei einer gleichmäßigen Folge von Bremsungen, also einer gewissen mittleren Schaltheufigkeit pro Stunde, steigt die Erwärmung bis zu einem Gleichgewicht zwischen Erzeugung und Abgabe an. Die zulässige Temperatur soll unter Berücksichtigung der Umgebungstemperatur so liegen, dass weder Spule noch Reibbelag thermisch überfordert sind.

### Auslaufbremsung

$$W_z = W \times Z \leq W_{th}$$

$W_{th}$  Maximal zulässige Reibarbeit pro Stunde

$W_z$  Reibarbeit bei Z Schaltungen

Z Zahl der Bremsungen pro Stunde

### Hubbetrieb

Beim Senkbetrieb wirkt der Antriebsmotor als Generator und sorgt durch seine Bremswirkung für eine gleichförmige Abwärtsbewegung. Sieht man von den Übertragungsverlusten ab, so muss der Antrieb bei Vollast mit Bemessungsmoment bremsen. Würde nach dem Abschalten des Antriebes eine mechanische Bremse mit einem Bremsmoment gleich dem Bemessungsmoment wirksam, so würde die Abwärtsbewegung unverzüglich fortgesetzt. Für eine Abbremsung auf Stillstand ist also ein zusätzliches Bremsmoment erforderlich. Von einer für 200% Bemessungsmoment bemessenen Bremse werden also etwa 100% >>statisch<< verbraucht und der Rest wird >>dynamisch<< zur Verzögerung genutzt. Wird bei Senkbetrieb (Abwärtsbewegung) ein Teil des Bremsmomentes statisch für die Last benötigt, so ist die Rutschzeit und damit die thermische Beanspruchung höher.

Es gilt dann

$$W_H = \frac{M_{Br}}{M_{Br} - M_L} \times W_z$$

$W_H$  Reibarbeit pro Stunde bei Hubbetrieb

$M_{Br}$  Bremsmoment der Bremse

### Lebensdauer der Bremse

Durch die Reibarbeit beim Bremsen entsteht an der Bremsscheibe Verschleiß, der zu einer Zunahme des Arbeitsluftspaltes führt. Bei Überschreitung eines bestimmten Maximalluftspaltes ist das Magnetfeld so weit geschwächt, dass die Zugkraft des Magneten nicht mehr für eine Lüftung ausreicht. Zur Wiederherstellung des Anfangsluftspaltes muss, je nach Konstruktionsart, der Luftspalt nachgestellt oder die Bremsscheibe erneuert werden.

Die max. Anzahl der Bremsungen bis zu Wartung lässt sich wie folgt berechnen:

$$Z_L = \frac{W_L}{W}$$

$Z_L$  Zahl der Bremsungen bis Grenzluftspalt erreicht wird

$W_L$  Maximal zulässige Reibarbeit bis zur Wartung, d.h. Wechsel der Bremsscheiben bzw. Luftspalt-Nachstellung. Eine Nachstellung des Luftspaltes ist nur bei Bremsentypen ZSX.. möglich.

### Verzögerungszeit

Die reinen Bremszeiten vom Beginn der mechanischen Bremsung bis zum Stillstand werden von der Bremsverzögerung bestimmt.

Vor allem bei Hubbetrieb, aber auch bei anderen Antriebsarten, ist zu prüfen, ob das Lastmoment die Bremsung unterstützt oder aber ihr entgegenwirkt.

Damit wird die Verzögerungszeit wie folgt berechnet:

$$t_a = \frac{J_{ges} \times n_a}{9,55 \times (M_{Br} \pm M_L)}$$

### Elektrischer Anschluss

#### Allgemeines

Es gibt grundsätzlich 2 verschiedene Möglichkeiten für die Spannungsversorgung des Gleichstrom-Magneten:

1. Extern aus einem bereits vorhandenen DC-Steuernetz oder durch einen Gleichrichter im Schaltschrank.
2. Durch einen im Motor- oder Bremsenklemmenkasten eingebauten Gleichrichter. Hierbei kann die Speisung des Gleichrichters entweder direkt vom Motorklemmenbrett oder aus dem Netz erfolgen.

In folgenden Fällen darf der Gleichrichter jedoch nicht am Klemmenbrett des Motors angeschlossen werden:

- Polumschaltbare Motoren und Weitspannungsmotoren
- Betrieb am Frequenzumrichter
- Sonstige Ausführungen, bei denen die Motorspannung nicht konstant ist, z.B. Betrieb an Sanftanlaufgeräten, Anlasstransformatoren, ...

#### Lüften

Wird an die Magnetspule Nennspannung angelegt, so baut sich der Spulenstrom und damit das Magnetfeld nach einer Exponentialfunktion auf. Erst wenn der Strom einen bestimmten Wert ( $I_{Lüft}$ ) erreicht hat, wird die Federkraft überwunden und die Bremse beginnt zu lüften.

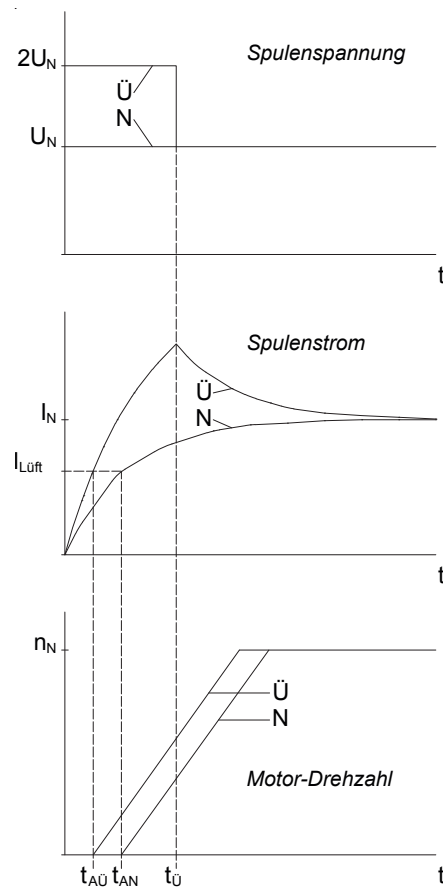


Bild 3: Prinzipieller Verlauf der Spulenspannung, des Spulenstroms und der Motordrehzahl bei Normalerregung (N) und Übererregung (Ü).  
 $t_{Ü}$ : Übererregungszeit;  $t_{AN}$ ,  $t_{AÜ}$ : Ansprechzeiten bei Normal- und Übererregung.

Während der Ansprechzeit  $t_A$  können 2 unterschiedliche Fälle auftreten, vorausgesetzt die Spannungsversorgung des Motors und der Bremse erfolgt zeitgleich:

- Motor wird blockiert - Bedingung:  $M_A < M_L + M_{Br}$   
Der Motor führt den Anzugsstrom und wird dadurch thermisch zusätzlich belastet.  
Dieser Fall ist in Bild 3 dargestellt.
- Bremse wird durchgerissen - Bedingung:  $M_A > M_L + M_{Br}$   
Die Bremse wird auch beim Anlauf thermisch belastet und verschleißt schneller.

$M_A$ : Anzugsmoment des Motors,  $M_L$ : Lastmoment,  $M_{Br}$ : Bremsmoment

In beiden Fällen ergibt sich also eine zusätzliche Belastung von Motor und Bremse. Die Ansprechzeit tritt mit zunehmender Bremsengröße immer stärker in Erscheinung. Eine Reduzierung der Ansprechzeit empfiehlt sich daher vor allem bei mittleren und großen Bremsen sowie bei hoher Schalthäufigkeit. Eine relativ einfache Realisierung auf elektrischem Wege ist durch das Prinzip der „Übererregung“ möglich. Hierbei wird die Spule beim Einschalten kurzzeitig mit der doppelten Nennspannung betrieben.

Durch den damit verbundenen steileren Anstieg des Stroms wird im Vergleich zur „Normalerregung“ die Ansprechzeit auf etwa die Hälfte vermindert. Diese Übererregungsfunktion ist im Sondergleichrichter des Typs MSG integriert.

Mit zunehmendem Luftspalt erhöht sich der Luftstrom und damit die Ansprechzeit. Sobald der Lüftstrom den Spulennennstrom überschreitet, lüftet die Bremse bei Normalerregung nicht mehr und die Verschleißgrenze der Bremscheiben ist erreicht.

### Bremsen

Nach dem Abschalten der Spannungsversorgung für die Spule wird das Bremsmoment nicht sofort wirksam. Zunächst muss die magnetische Energie so weit abgebaut werden, bis die Federkraft die Magnetkraft überwinden kann. Dies erfolgt bei der Haltestromstärke  $I_{Halte}$ , die weitaus kleiner ist als der Lüftstrom.

Abhängig von der schaltungstechnischen Ausführung ergeben sich unterschiedliche Ansprechzeiten.

Abschalten der AC-Versorgung des Standardgleichrichters SG

- a) Speisung des Gleichrichters vom Motorklemmenbrett (Bild 4, Kurve 1)  
Ansprechzeit  $t_{A1}$ : Sehr lang

Ursache: Nach Abschalten der Motorspannung wird durch die Remanenz des Motors eine langsam abklingende Spannung induziert, die den Gleichrichter und somit die Bremse weiterhin versorgt. Außerdem wird die magnetische Energie der Bremsenspule relativ langsam durch den Freilaufkreis des Gleichrichters abgebaut.

- b) Separate Speisung des Gleichrichters (Bild 4, Kurve 2)  
Ansprechzeit  $t_{A2}$ : Lang

Ursache: Nach Abschalten der Gleichrichterspannung wird die magnetische Energie der Bremsenspule relativ langsam durch den Freilaufkreis des Gleichrichters abgebaut.

Bei wechselstromseitiger Unterbrechung treten keine nennenswerten Abschaltspannungen an der Magnetspule auf.

### Unterbrechung des DC-Stromkreises der Magnetspule (Bild 4, Kurve 3)

a) Durch mechanische Schalter

- bei separater Speisung aus einem DC-Steuernetz oder
- an den DC-Schaltkontakten (A2, A3) des Standardgleichrichters SG

Ansprechzeit  $t_{A3}$ : Sehr kurz

Ursache: Die magnetische Energie der Bremsenspule wird sehr schnell durch den am Schalter entstehenden Lichtbogen abgebaut.

b) Elektronisch

Durch Verwendung eines Sondergleichrichters Typ ESG oder MSG

Ansprechzeit  $t_{A3}$ : Kurz

Ursache: Die magnetische Energie der Bremsenspule wird schnell durch einen im Gleichrichter integrierten Varistor abgebaut.

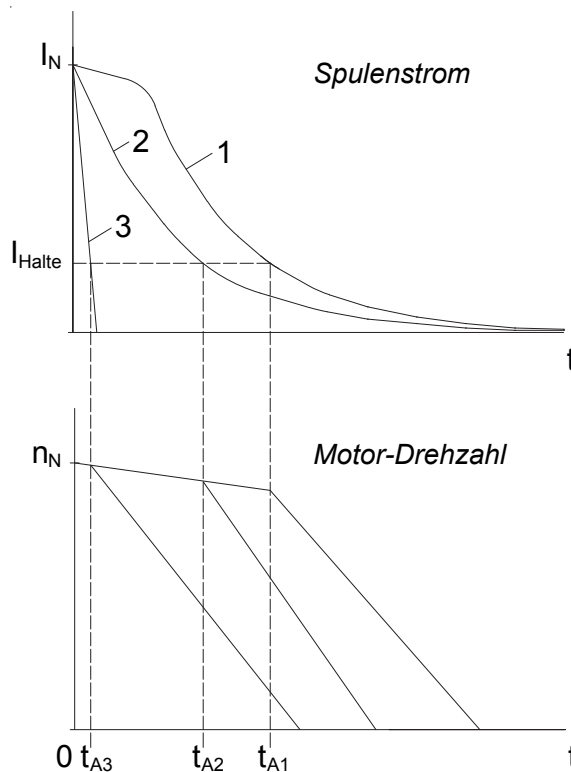


Bild 4: Prinzipieller Verlauf des Spulenstroms und der Motordrehzahl nach wechsel- (1, 2) und gleichstromseitiger (3) Abschaltung

Bei gleichstromseitiger Unterbrechung werden durch die Magnetspule Spannungsspitzen  $u_q$  induziert, deren Höhe gemäß folgender Beziehung von der Selbstinduktivität  $L$  der Spule und der Abschaltgeschwindigkeit  $di/dt$  abhängt:

$$u_q = L \cdot \frac{di}{dt}$$

Bedingt durch die Wicklungsauslegung steigt die Induktivität  $L$  mit zunehmender Spulen-Bemessungsspannung an. Bei höheren Spulenspannungen können daher die Abschaltspannungsspitzen gefährlich hoch werden. Aus diesem Grund werden alle Bremsen für Spannungen größer 24V mit einem Varistor beschaltet.

Der Varistor dient lediglich dem Schutz der Magnetspule und nicht als Schutz von umgebenden elektronische Bauteilen bzw. Geräten gegen EMV-Störungen. Auf Anfrage können auch Bremsen für Spannungen kleiner oder gleich 24V mit Varistor ausgeführt werden. Erfolgt die gleichstromseitige Unterbrechung durch mechanische Schalter, so wird durch den entstehenden Lichtbogen an den Schaltkontakten starker Abbrand verursacht. Daher dürfen hierbei nur spezielle Gleichstromschütze oder angepasste Wechselstromschütze mit Kontakten der Gebrauchskategorie AC3 nach EN 60947-4-1 verwendet werden.

### Technische Daten der Haltebremsen mit Notstopp-Eigenschaften

Die hier angegebenen max. zulässigen Reibarbeiten gelten nicht bei Bremsmotoren zum Einsatz in explosionsgefährdeten Bereichen. Siehe hierzu gesonderte Angaben in der entsprechenden Dokumentation für explosionsgeschützte Antriebe.

Typ	$M_{Br}$	$W_{max}$	$W_{th}$	$W_L$	$t_A$	$t_{AC}$	$t_{DC}$	$P_{el}$	J
	[Nm]	[10 <sup>3</sup> J]	[10 <sup>3</sup> J]	[10 <sup>6</sup> J]	[ms]	[ms]	[ms]		
E003B9	3	1,5	-	-	35	150	15	20	0,01
E003B7	2,2	1,8	-	-	28	210	20		
E003B4	1,5	2,1	-	-	21	275	30		
E004B9	5	2,5	-	-	37	125	15	30	0,017
E004B8	4	3	-	-	30	160	18		
E004B6	2,8	3,6	-	-	23	230	26		
E004B4	2	4,1	-	-	18	290	37		
E004B2	1,4	4,8	-	-	15	340	47		
ES010AX	15*	3	-	-	110	-	30	35	0,045
ES010A9	10	3	-	-	60	100	15		
ES010A8	8	3	-	-	55	150	20		
ES010A5	5	3	-	-	45	220	20		
ES010A4	4	3	-	-	30	250	20		
ES010A2	2,5	3	-	-	25	350	25		
ES027AX	32*	2,5	-	-	80	-	30	50	0,172
ES/EH027A9	27	2,5	-	-	120	100	15		
ES/EH027A7	20	2,5	-	-	100	130	20		
ES/EH027A6	16	2,5	-	-	80	170	25		
ES/EH040A9	40	3,5	-	-	100	100	20	65	0,45
ES/EH040A8	34	3,5	-	-	80	200	25		
ES/EH040A7	27	3,5	-	-	70	250	30		
ES070AX	90*	3,5	-	-	120	-	40	85	0,86
ES070A9	70	3,5	-	-	120	150	18		
ES070A8	63	3,5	-	-	120	200	20		
ES070A7	50	3,5	-	-	90	220	25		
ES/EH125A9	125	4,5	-	-	170	220	25	105	1,22
ES/EH125A8	105	4,5	-	-	150	320	28		
ES/EH125A7	85	4,5	-	-	135	350	30		
ES/EH125A6	70	4,5	-	-	120	440	35		
ES125A5	57	4,5	-	-	100	600	40		
ES125A3	42	4,5	-	-	90	700	45		
ES/EH200A9	200	8	-	-	400	150	22	105	2,85
ES/EH200A8	150	8	-	-	280	250	35		
ES/EH200A7	140	8	-	-	200	320	35		
ES250AX	350*	9	-	-	180	-	70	135	6,65
ES250A9	250	9	-	-	300	500	45		
ES250A8	200	9	-	-	200	960	60		
ES250A6	150	9	-	-	160	1100	60		
ES250A5	125	9	-	-	150	1500	90		
ES250A4	105	9	-	-	130	1800	110		
ZS300A9	300	8	-	-	280	220	35	75	5,7
ZS300A8	250	8	-	-	210	380	45		
EH400A9	400	10	-	-	300	600	60	180	19,5
EH400A7	300	10	-	-	200	850	75		
EH400A5	200	10	-	-	150	1400	85		
ZS500A9	500	9	-	-	320	320	50	100	13,3
ZS500A8	400	9	-	-	260	600	60		

\*nur mit MSG-Gleichrichter zulässig, da Übererregung erforderlich

Bremsmoment-Toleranz: -10 / +30 %

Keine Angabe zu  $W_{th}$  und  $W_L$ , da bei Haltebremsen im bestimmungsgemäßen Betrieb keine oder nur unwesentliche Reibarbeit umgesetzt wird.

Bei den mit \* gekennzeichneten Bremsmoment-Ausführungen, die nur mit MSG-Gleichrichter zulässig sind, gelten die Werte für  $t_A$  und  $t_{DC}$  bereits für den Betrieb mit MSG-Gleichrichter, d.h.  $t_A$  bei Übererregung und  $t_{DC}$  bei elektronischer gleichstromseitiger Unterbrechung.

Abhängig von der Betriebstemperatur und bedingt durch Fertigungstoleranzen können die tatsächlichen Ansprechzeiten von den hier angegebenen Richtwerten abweichen.



### Technische Daten der Arbeitsbremsen

Die hier angegebenen max. zulässigen Reibarbeiten gelten nicht bei Bremsmotoren zum Einsatz in explosionsgefährdeten Bereichen. Siehe hierzu gesonderte Angaben in der entsprechenden Dokumentation für explosionsgeschützte Antriebe.

Typ	M <sub>Br</sub> [Nm]	W <sub>max</sub> [10 <sup>3</sup> J]	W <sub>th</sub> [10 <sup>3</sup> J]	W <sub>L</sub> [10 <sup>6</sup> J]		t <sub>A</sub> [ms]	t <sub>AC</sub> [ms]	t <sub>DC</sub> [ms]	P <sub>el</sub> [W]	J [10 <sup>-3</sup> kgm <sup>2</sup> ]
				ohne HL	mit HL					
E003B9	3	1,5	36	55	55	35	150	15	20	0,01
E003B7	2,2	1,8	36	90	90	28	210	20		
E003B4	1,5	2,1	36	140	140	21	275	30		
E004B9	5	2,5	60	50	50	37	125	15	30	0,017
E004B8	4	3	60	100	100	30	160	18		
E004B6	2,8	3,6	60	180	180	23	230	26		
E004B4	2	4,1	60	235	235	18	290	37		
E004B2	1,4	4,8	60	310	310	15	340	47		
ESX010AX	15*	3	250	120	120	110	-	30		
ESX010A9	10	3	250	120	120	60	100	15		
ESX010A8	8	3	250	150	150	55	150	20		
ESX010A5	5	3	250	240	240	45	220	20		
ESX010A4	4	3	250	300	240	30	250	20		
ESX010A2	2,5	3	250	390	240	25	350	25		
ESX027AX	27*	10	350	150	150	80	-	30	50	0,172
ESX/EHX027A9	22	10	350	150	150	120	100	15		
ESX/EHX027A7	16	10	350	300	300	100	130	20		
ESX/EHX027A6	13	10	350	350	350	80	170	25		
ESX/EHX040A9	32	20	450	420	420	100	100	20	65	0,45
ESX/EHX040A8	27	20	450	560	490	80	200	25		
ESX/EHX040A7	22	20	450	700	490	70	250	30		
ESX070AX	72*	28	550	700	700	120	-	40		
ESX070A9	58	28	550	500	500	120	150	18		
ESX070A8	50	28	550	800	700	120	200	20		
ESX070A7	40	28	550	1200	700	90	220	25		
ESX/EHX125AX	100*	40	700	1900	1900	100	-	70	105	1,22
ESX/EHX125A9	85	40	700	1700	1700	150	320	28		
ESX/EHX125A8	70	40	700	1900	1700	135	350	30		
ESX/EHX125A7	58	40	700	2700	1700	120	440	35		
ESX125A5	45	40	700	3300	1700	100	600	40		
ESX125A3	34	40	700	3300	1700	90	700	45		
ESX/EHX200AX	160*	60	850	2000	2000	105	-	70		
ESX/EHX200A9	120	60	850	1700	1700	280	250	35		
ESX/EHX200A8	110	60	850	2600	2600	200	320	35		
ESX250AX	280*	84	1000	2300	2300	180	-	70	135	6,65
ESX250A9	200	84	1000	2800	2800	300	500	45		
ESX250A8	160	84	1000	6800	5700	200	960	60		
ESX250A6	120	84	1000	8500	5700	160	1100	60		
ESX250A5	100	84	1000	11000	5700	150	1500	90		
ESX250A4	85	84	1000	11000	5700	130	1800	110		
ZSX300A9	250	60	850	1300	1300	280	220	35	75	5,7
ZSX300A8	200	60	850	2000	2000	210	380	45		
EHX400A9	320	120	1100	3000	3000	300	600	60	180	19,5
EHX400A7	240	120	1100	4800	4800	200	850	75		
EHX400A5	160	120	1100	6000	4800	150	1400	85		
ZSX500A9	400	84	1000	2800	2800	320	320	50	100	13,3
ZSX500A8	320	84	1000	4000	4000	260	600	60		

\* nur mit MSG-Gleichrichter zulässig, da Übererregung erforderlich

Bremsmoment-Toleranz:

E003 / E004: -10 / +30 %

ESX.. / ZSX..: -20 / +30 % im eingelaufenen Zustand. Im Neuzustand sind bis zu -30 % möglich.

Bei den mit \* gekennzeichneten Bremsmoment-Ausführungen, die nur mit MSG-Gleichrichter zulässig sind, gelten die Werte für t<sub>A</sub> und t<sub>DC</sub> bereits für den Betrieb mit MSG-Gleichrichter, d.h. t<sub>A</sub> bei Übererregung und t<sub>DC</sub> bei elektronischer gleichstromseitiger Unterbrechung.

Bei den Angaben zu W<sub>L</sub> handelt es sich um Richtwerte, die abhängig vom jeweiligen Anwendungsfall erheblichen Schwankungen unterliegen können. Eine regelmäßige Kontrolle des Luftspaltes bzw. der Brems Scheibendicke wird empfohlen.

Abhängig von der Betriebstemperatur, dem Verschleißzustand der Brems scheiben und bedingt durch Fertigungstoleranzen können die tatsächlichen Ansprechzeiten von den hier angegebenen Richtwerten abweichen.

### Zeichenlegende

$M_{Br}$	Bemessungs-Bremsmoment
$W_{max}$	Maximal zulässige Reibarbeit für Notstopp bei Haltebremsen
$W_{max}$	Maximal zulässige Reibarbeit pro Bremsung bei Arbeitsbremsen
$W_{th}$	Maximal zulässige Reibarbeit pro Stunde
$W_L$	Maximal zulässige Reibarbeit bis zur Wartung, d.h. Wechsel der Bremscheiben bzw. Luftspalt Nachstellung. Eine Nachstellung des Luftspaltes ist nur bei Bremsentypen ZSX.. möglich.
$H_L$	Handlüftung
$t_A$	Ansprechzeit beim Lüften mit Normalerregung. Bei Übererregung durch den Sondergleichrichter MSG ergeben sich ca. halb so lange Ansprechzeiten.
$t_{AC}$	Ansprechzeit beim Bremsen mit wechselstromseitiger Abschaltung, d.h. durch Unterbrechung der Spannungsversorgung eines separat gespeisten Standard gleichrichters. Bei Spannungsversorgung des Gleichrichters von den Motoran schlussklemmen ist aufgrund der Remanenz des Motors - abhängig von Motor gröÙe und Wicklungsauslegung – mit deutlich höheren Ansprechzeiten zu rechnen.
$t_{DC}$	Ansprechzeit beim Bremsen mit gleichstromseitiger Unterbrechung durch mechanische Schalter. Bei elektronischer gleichstromseitiger Unterbrechung durch einen Sondergleichrichter des Typs ESG oder MSG ergeben sich ca. 2-3 mal so hohe Ansprechzeiten.
$P_{el}$	Elektrische Leistungsaufnahme der Magnetspule bei 20°C. Abhängig von der Spannungsausführung der Spule kann die tatsächliche Leistung von dem hier angegebenen Richtwert abweichen.
J	Massenträgheitsmoment von Mitnehmer und Brems Scheibe(n)

### Anschluss

Der elektrische Anschluss der Bremse erfolgt im Motorklemmenkasten auf Klemmen oder Gleichrichter. Standard-Spannungen:

380 ... 420 V 50/60 Hz (Bremsenspulenspannung 180 V DC)

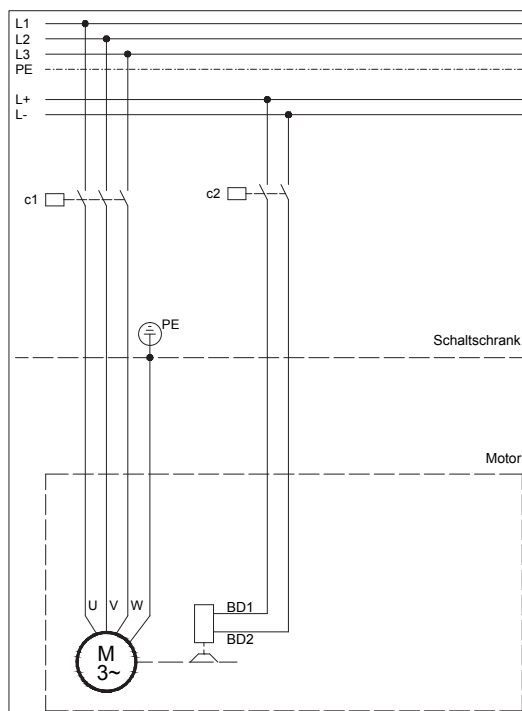
220 ... 230 V 50/60 Hz (Bremsenspulenspannung 105 V DC)

24 V DC (Bremsenspulenspannung 24 V DC)

Andere Spannungen sind gegen Mehrpreis lieferbar.

Gleichstromanschluss  
über Klemme (K)

Die Bremse muss über separate Klemmen im Motor- bzw. Bremsenklemmenkasten direkt an Gleichspannung angeschlossen werden. Standardspannungen sind 180 V DC, 105 V DC und 24 V DC. Bremsen für andere Spannungen sind gegen Mehrpreis lieferbar.



Standard-Gleichrichter (S)

Funktionsprinzip

Einweggleichrichter mit Kontakten für gleichstromseitige Unterbrechung

Anschlussspannung  $U_1$

max. 575 VAC +5%

Ausgangsspannung

$0,45 * U_1$  VDC

max. Ausgangsstrom

2,5 ADC

Umgebungstemperatur

-40 ... +40 °C

Anschluss

Käfigzugfederklemmen mit Betätigungsdrücker

Klemmbarer Leiterquerschnitt

max. 1,5 mm<sup>2</sup> ohne Aderendhülse

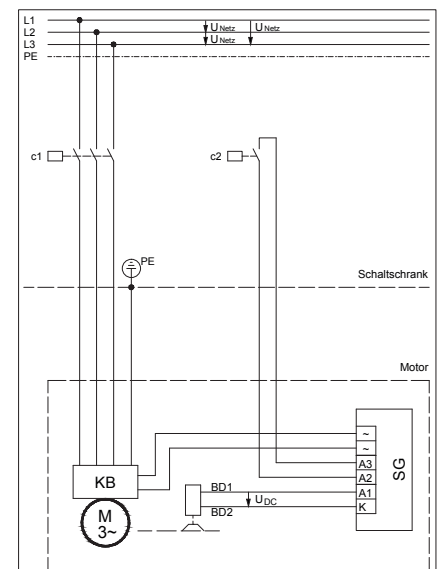
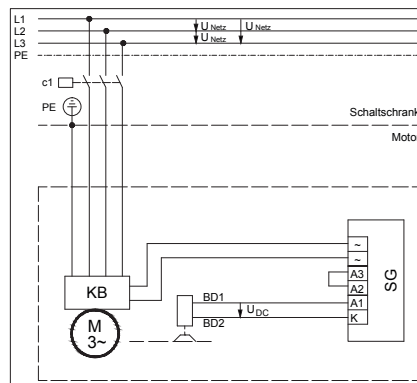
max. 1,5 mm<sup>2</sup> mit Aderendhülse

Zulassungen

c-CSA-us

c-UL-us (nur in Verbindung mit B2000-Getriebemotoren und Bremsen der Typenreihe ES(X)/ZS(X))

Die Bremse muss über den Standard-Gleichrichter im Motor- bzw. Bremsenklemmenkasten an Wechselspannung angeschlossen werden. Standardspannungen sind 380 ... 420 V 50/60 Hz oder 220 ... 230 V 50/60 Hz. Andere Spannungen bis 575 V sind gegen Mehrpreis lieferbar. Beim Standard-Gleichrichter kann der Bremsen-Stromkreis zur Verminderung der Ansprechzeit durch einen zusätzlichen Kontakt gleichstromseitig unterbrochen werden. Dies führt zu einer deutlichen Reduzierung der Bremszeit bzw. des Nachlaufweges.



Spannungsversorgung des Gleichrichters vom Motorklemmenbrett bzw. Klemmenblock KB (siehe Gleichrichteranschluss am Motorklemmenbrett bzw. Klemmenblock KB).

Gleichrichter für elektronische Schnellabschaltung (E)

Funktionsprinzip

Einweggleichrichter mit elektronischer gleichstromseitiger Unterbrechung

Anschlussspannung  $U_1$

220 - 460 V AC  $\pm 5\%$ , 50/60 Hz

Ausgangsspannung

$0,45 * U_1$  V DC

max. Ausgangsstrom

1 A DC

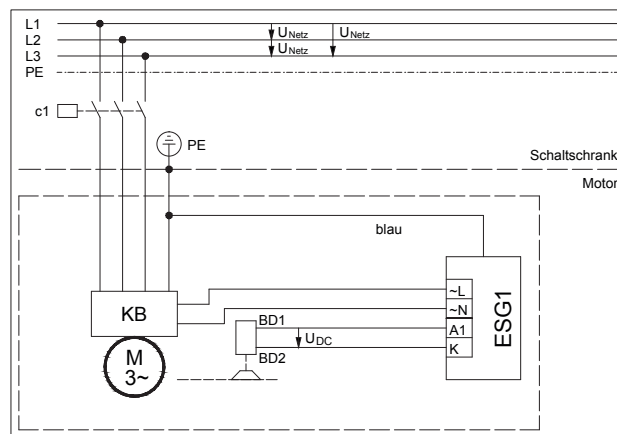
Umgebungstemperatur

$-20^\circ\text{C}$  bis  $40^\circ\text{C}$

Klemmbarer Leiterquerschnitt

max.  $1,5 \text{ mm}^2$

Dieser Gleichrichter ermöglicht die gleichstromseitige Unterbrechung des Bremsenstromkreises auf elektronischem Weg. Es wird dazu keine zusätzliche Leitung zum Gleichrichter benötigt. Die Ansprechzeiten der Bremse verkürzen sich gegenüber der wechselstromseitigen Abschaltung wesentlich. Sie sind jedoch größer als bei gleichstromseitiger Unterbrechung mittels mechanischem Schalter. Die Bremse muss über den Schnellabschalt-Gleichrichter im Motor- bzw. Bremsenklemmenkasten an Wechselspannung angeschlossen werden. Standardspannungen sind 380 ... 420 V 50/60 Hz oder 220 ... 230 V 50/60 Hz. Andere Spannungen bis 460 V sind gegen Mehrpreis lieferbar.



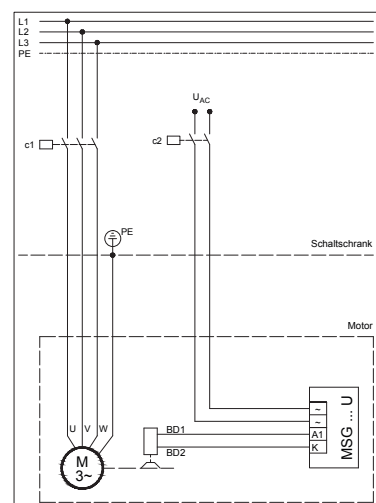
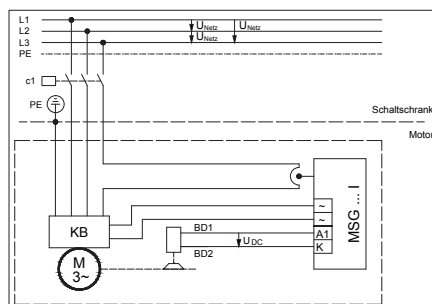
Spannungsversorgung des Gleichrichters vom Motorklemmenbrett bzw. Klemmenblock KB (siehe Gleichrichteranschluss am Motorklemmenbrett bzw. Klemmenblock KB).

Gleichrichter für Übererregung und Schnellabschaltung (M)

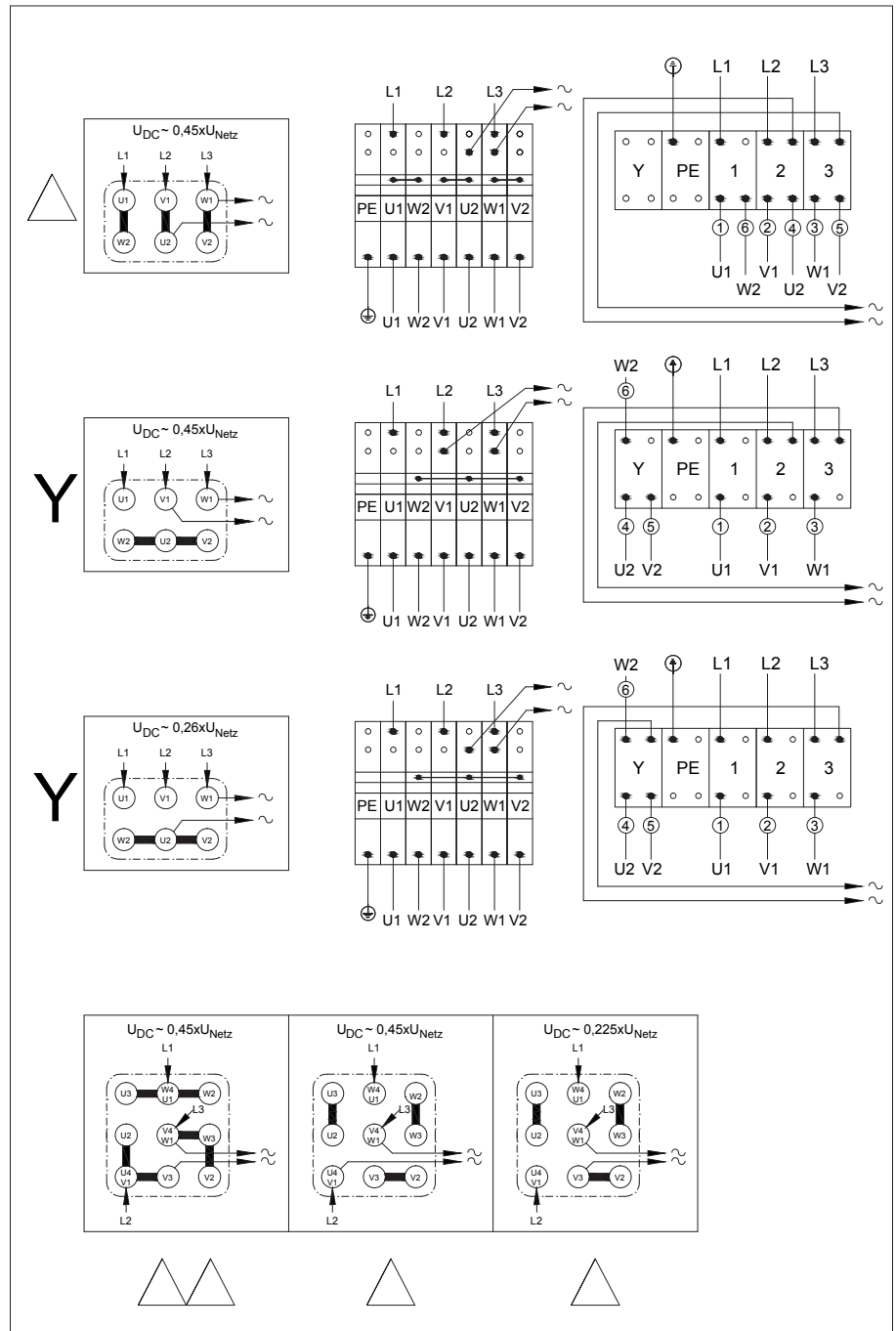
Funktionsprinzip	MSG 1.5.480I Einweggleichrichter mit zeitlich begrenzter Übererregung und elektronischer gleichstromseitiger Unterbrechung Schnellabschaltung aufgrund fehlendem Motorstrom in einer Phase
Anschlussspannung U1	220 - 480 V AC +6/-10%, 50/60 Hz
Ausgangsspannung	0,9 * U1 V DC während Übererregung 0,45 * U1 V DC nach Übererregung
Übererregungszeit	0,3 s
max. Ausgangsstrom	1,5 A DC
Umgebungstemperatur	-20°C bis 40°C
Klemmbarer	
Leiterquerschnitt	max. 1,5 mm <sup>2</sup>
Funktionsprinzip	MSG 1.5.500U Einweggleichrichter mit zeitlich begrenzter Übererregung und elektronischer gleichstromseitiger Unterbrechung Schnellabschaltung aufgrund fehlender Eingangsspannung
Anschlussspannung U1	220 - 500 V AC ±10%, 50/60 Hz
Ausgangsspannung	0,9 * U1 V DC während Übererregung 0,45 * U1 V DC nach Übererregung
Übererregungszeit	0,3 s
max. Ausgangsstrom	1,5 A DC
Umgebungstemperatur	-20°C bis 40°C
Klemmbarer	
Leiterquerschnitt	max. 1,5 mm <sup>2</sup>

Bei hoher Schalzhäufigkeit des Motors kann die Bremse mit diesem Gleichrichter schneller gelüftet werden und reduziert dadurch die thermische Motorbelastung deutlich. Zusätzlich ermöglicht die gleichstromseitige Unterbrechung des Bremsenstromkreises auf elektronischem Weg eine wesentliche Verkürzung der Ansprechzeiten. Je nach Einsatzfall

wird die Ausführung MSG 1.5.500 U (Schnellabschaltung aufgrund fehlender Versorgungsspannung) oder MSG 1.5.480 I (Schnellabschaltung aufgrund fehlendem Motorstrom in einer Phase) eingesetzt. Spannungsversorgung 220 ... 480 V AC.



### Gleichrichteranschluss am Motorklemmenbrett bzw. Klemmenblock KB



### Bremsenanschluss bei Betrieb am Frequenz-Umrichter

Bei Umrichterbetrieb ist die Spannung am Motorklemmenbrett frequenzabhängig. Bremsen benötigen eine konstante Spannung und daher einen separaten elektrischen Anschluss. Deshalb werden die Bremsen werkseitig grundsätzlich nicht mit den Motorklemmen verbunden.

### Bremsenanschluss bei polumschaltbaren Motoren

Bei polumschaltbaren Motoren benötigt die Bremse einen separaten elektrischen Anschluss. Die Bremse wird auch in diesen Fällen werkseitig nicht mit den Motorklemmen verbunden.

### Handlüftung (HA, HN)

Alle Bremsen sind auf Wunsch mit mechanischer Handlüftung lieferbar. Standardausführung ist die nicht arretierbare Handlüftung (HN), auf Wunsch ist auch eine arretierbare Handlüftung (HA) lieferbar.

### Schutzart

Alle Bauer-Bremsen entsprechen der Schutzart IP 65.

### Erhöhter Korrosionsschutz

Bei erhöhten Anforderungen an die Korrosionsbeständigkeit der Bremsen sind zwei Stufen von Korrosionsschutz lieferbar:

**CORO1 (C1):** Außenanstrich mit Zweikomponentenlack zum Schutz gegen chemisch aggressive Gase und Dämpfe.

**CORO2 (C2):** Außenanstrich wie CORO1. Die Schrauben für den Klemmenkastendeckel sind aus nichtrostendem Stahl. Mechanische Innenteile der Bremse aus korrosionsgeschütztem Material.

### CE-Kennzeichnung

Bauer-Getriebemotoren mit angebaute Federdruckbremse sind mit dem CE-Zeichen gekennzeichnet.

Die Bremsen erfüllen:

- die **Maschinenrichtlinie (2006/42/EG)**  
Herstellereklärung kann angefordert werden
- die **Niederspannungsrichtlinie (2006/95/EG)**  
Durch CE-Kennzeichnung dokumentiert
- die **EMV-Richtlinie (2004/108/EG)**  
Durch CE-Kennzeichnung dokumentiert

Weitere Informationen im BAUER-Sonderdruck SD33..

### Explosionsschutz

Bremsen in explosionsgefährdeten Bereichen unterliegen besonderen Vorschriften. In diesen Sonderfällen bitte anfragen.

### Rücklaufsperre (RR, RL)

Motoren der Größen D..09 (1,1 kW) bis D..18 (30 kW) sind mit Rücklaufsperre lieferbar. Die Sperrichtung rechts (RR) oder links (RL) bitte bei Bestellung angeben. Bezug ist der Blick auf die Anbauseite des Getriebes. Bei nicht eindeutig definierter Anbauseite wird Getriebe-seite **V** (vorne) zu Grunde gelegt (siehe Kapitel 17 Maßbild "Motor mit Rücklaufsperre").

Bei Betrieb am Frequenzumrichter ist zu beachten, dass der einwandfreie Betrieb der Rücklaufsperre nur mit Läuferdrehzahlen über 670/min gewährleistet ist.

Bei Einsatzfällen in korrosiver Atmosphäre, besonders bei Aufstellungen mit nach unten hängendem Motor, empfiehlt sich eine Rückfrage.



### Zweites Motor-Wellenende (ZW, ZV)

Die Motoren sind auf Wunsch mit zweitem Motorwellenende in Ausführungen ZW (Welle mit Passfeder) oder ZV (Welle mit Vierkant) lieferbar.

Mit diesem Wellenende ist bei zentralem Antrieb die Hälfte der Bemessungsleistung übertragbar. Zulässige Radialbelastung auf Anfrage. Abdeckungen gehören nicht zum Lieferumfang (siehe Kapitel 17).

Auch Motoren mit Bremse sind mit zweitem, über die Bremse hinaus verlängertem Motorwellenende lieferbar.

### Schutzdach über der Lüfterhaube (D)

Bei Aufstellung im Freien mit starker oder lang anhaltender Wassereinwirkung wird bei nach oben zeigendem Motor die Verwendung eines Schutzdaches über der Lüfterhaube empfohlen (siehe Kapitel 17).

Bei Explosionsgeschützten Motoren ist diese Schutzhaube bei Vertikalbauform Vorschrift.

Eine Lüfterhaube in Spezialausführung für die Textilindustrie ist auf Anfrage gegen Mehrpreis lieferbar. Diese Version verhindert das Zusetzen der Lüfterhaube durch Textilfasern oder Flusen.

### Fremdlüfter (FV)

Für spezielle Anwendungsfälle sind die Motoren und die Bremsmotoren ab Größe D08 mit angebautem Fremdlüfter lieferbar (Maßbild für Fremdlüfter siehe Kapitel 17).

Die Fremdlüfter werden bei Standardmotoren der Größen D..16, D..18 und Bremsmotoren D..11 bis D..18 mit Bajonett-Befestigung geliefert. Die Standard Schutzart ist IP66.

#### Technische Daten:

Multivolt-Konzeption Betriebskondensator standardmäßig eingebaut für Einphasenbetrieb

Betriebsart	Bg	Lüfter- durchmes- ser (mm)	Spannungsbereich		max. zuläs- siger Strom (A)	max. Leistungs- aufnahme W
			50 Hz	60 Hz		
1 ~ Δ (Δ)	63	118	230-277	230-277	0,12	32
	71	132	230-277	230-277	0,12	33
	80	150	230-277	230-277	0,14	37
	90	169	230-277	230-277	0,29	65
	100	187	230-277	230-277	0,30	75
	112	210	230-277	230-277	0,37	94
	132	250	230-277	230-277	0,60	149
	160-200	300	230-277	---	0,96	236
3 ~ Y	63	118	380-500	380-575	0,06	28
	71	132	380-500	380-575	0,06	29
	80	156	380-500	380-575	0,06	34
	90	169	380-500	380-575	0,19	75
	100	187	380-500	380-575	0,17	94
	112	210	380-500	380-575	0,17	99
	132	250	380-500	380-575	0,25	148
	160-200	300	380-500	380-575	0,54	360
3 ~ Δ	63	118	220-290	220-332	0,10	28
	71	132	220-290	220-332	0,10	28
	80	156	220-290	220-332	0,10	34
	90	169	220-290	220-332	0,33	78
	100	187	220-290	220-332	0,31	87
	112	210	220-290	220-332	0,31	103
	132	250	220-290	220-332	0,45	146
	160-200	300	220-290	220-332	0,91	360

### Geber (G)

Für besondere Anforderungen können Bauer-Getriebemotoren wahlweise mit angebautem Impulsgeber oder Absolutwertgeber geliefert werden. Der Standard Impulsgeber und der Absolutwertgeber sind optimal zum Einsatz an allen modernen Frequenzumrichtern geeignet.

Bauer Standardgeber sind ab Motorgröße D05 (0,18 kW) durch einer robusten Schutzhaube gegen mechanische Beschädigung geschützt (Zusatzmaßbild siehe Kapitel 17)

Besondere Eigenschaften: Standard Impulsgeber:

- Robuste Lagerung
- Schutzart IP66
- EMV geprüft
- Verpolungssicher
- Versorgungsspannung 8-30 V DC
- A-, B- und N-Spur und invertierte Signale oder Ausgangssignale wählbar
- HTL-Ausgangssignale (TTL auf Anfrage)
- 1024 Impulse pro Umdrehung

Besondere Eigenschaften: Standard Absolutwertgeber

- Schutzart: IP66
- Schritte pro Umdrehung: 8192 (13 Bit)
- Anzahl der Umdrehungen: 4096 (12 Bit)
- Ausführung der Elektronik: SSI (Synchron Serielles Interface)
- Ausgabecodeart: Gray-Code
- Versorgungsspannung: 11-27 VDC
- Verlustleistung (ohne Last):  $\leq 3$  Watt
- Datenausgang: RS-422 (2-Draht)

### Funktionsbeschreibung



Inkrementalgeber (Impulsgeber / Encoder) dienen zur Ermittlung der Position von Motorwellen. Eine Rotationsbewegung wird in diesem Inkrementalgeber verarbeitet und als elektrisches Signal ausgegeben. Eine Impulsscheibe mit einer bestimmten Anzahl von Perioden pro Umdrehung erfasst Winkelschritte. Die optoelektrische Abtasteinheit erzeugt Signale und gibt Impulse aus, die zuvor in Triggerstufen aufbereitet werden. Über die Zahl der Hell-Dunkel-Segmente auf der Impulsscheibe wird die Auflösung definiert. So wird bei einem Impulsgeber mit 1024 Strichen entsprechend bei einer Umdrehung eine Signalfolge von 1024 Impulsen ausgegeben.

Mit Frequenzumrichtern kombiniert bieten sich optimierte Lösungen an, wie z. B.:

- Drehzahlregelungen mit großem Verstellbereich
- hohe Drehzahlgenauigkeit
- Gleichlaufregelung
- Positionierregelung

Versorgungsspannung:	10-30 V DC bei HTL 5 V DC bei TTL Gegentakt
Ausgangssignal:	HTL A-, B-, N-track, Optional TTL
Impulse pro Umdrehung:	1024, Optional 512, 2048, ...4096 und andere auf Anfrage!
Schutzgrad:	IP 65, optional IP 67
Temperaturbereich:	-40°C up to +85°C

### Elektrische Kennwerte

Ausgangsspannung	RS 422 (TTL-kompatibel)	RS 422 (TTL-kompatibel)	Gegentakt	Gegentakt (7272)
Versorgungsspannung:	5 ... 30 V DC	5 V ±5%	10 ... 30 V DC	5 ... 30 V DC
Stromaufnahme (ohne Last) mit Invertierung:	typ. 40 mA / max. 90 mA	typ. 40 mA max. 90 mA	typ. 50 mA / max. 100 mA	typ. 50 mA max. 100 mA
Zul. Last/Kanal: Impulsfrequenz:	max.±20 mA max. 300 kHz	max.±20 mA max. 300 kHz	max.±20 mA max. 300 kHz	max.±20 mA max. 300 kHz <sup>3)</sup>
Signalpegel high:	min. 2,5 V	min. 2,5 V	min UB - 1 V	min. UB-2,0 V
Signalpegel low:	max. 0,5 V	max. 0,5 V	max. 0,5 V	max. 0,5 V
Anstiegszeit t <sub>r</sub>	max. 200 ns	max. 200 ns	max. 1 µs	max. 1 µs
Abfallzeit t <sub>f</sub>	max. 200 ns	max. 200 ns	max. 1 µs	max. 1 µs
Kurzschlussfeste Ausgänge <sup>1)</sup>	ja <sup>2)</sup>	ja <sup>2)</sup>	ja	ja
Verpolschutz der Versorgungsspannung:	ja	nein	ja	nein
CE-konform gemäß EN 61 000-6-2, EN 61 000-6-3, EN 61000-6-4				

<sup>1)</sup> Bei korrekt angelegter Versorgungsspannung

<sup>2)</sup> Nur max. ein Kanal darf kurzgeschlossen sein:

(bei UB=5 V ist Kurzschluss gegenüber einem anderen Kanal, 0 V, oder +UB zulässig.)

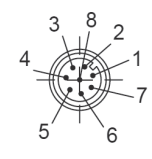
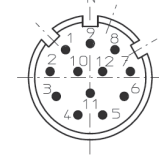
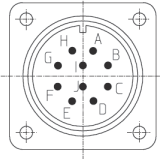
(bei UB=5-30 V ist Kurzschluss gegenüber einem anderen Kanal oder 0 V zulässig.)

<sup>3)</sup> bis 30 m Kabellänge

# Motoranbauten

## Inkrementaler Drehgeber

### Ansichten auf Steckseite, Stiftkontakteinsatz

Steckertyp	8-poliger M12-Stecker	12-poliger M23-Stecker	MIL-Stecker 10-poliger
Skizze			
Bestellschlüssel:	8.5000.XXX3.XXXX 8.5000.XXX4.XXXX	8.5000.XXX7.XXXX 8.5000.XXX8.XXXX	8.5000XXX.Y.XXXX
Passender 05.CMB-8181-0 Gegenstecker:		8.0000.5012.0000	8.0000.5062.0000

### Anschlussbelegung

Signal:	0 V GND	+U <sub>B</sub>	0 V Sens	+U <sub>B</sub> Sens	A	$\bar{A}$	B	$\bar{B}$	Z	$\bar{Z}$	Schirm
M23 multifast, 12-pol. Stecker, Pin:	10	12	11	2	5	6	8	1	3	4	1)
M12 eurofast, 8-pol. Stecker, Pin:	1	2			3	4	5	6	7	8	1)
Militär, 10-pol. Stecker, Pin:	F	D		E	A	G	B	H	C	I	J')
Kabel, Aderfarbe:	WH	BN	GY PK	RD BU	GN	YE	GY	PK	BU	RD	Schirm

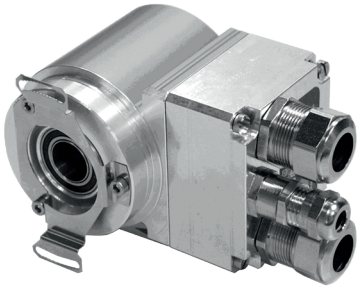
1) Schirm liegt am Steckergehäuse an.

Unbenutzte Ausgänge sind vor Inbetriebnahme zu isolieren.

### Funktionsbeschreibung

Absolutwertgeber (Absolut - Encoder) erfassen Winkel- als auch Rotationsbewegungen und formen diese in elektrische Signale um. Bei einem Absolutwertgeber steht der momentane Positionswert unmittelbar zur Verfügung im Gegensatz zu inkrementalen Messmechanismen. Wird dieses absolute Messsystem im ausgeschalteten Zustand mechanisch verfahren, ist nach Wiedereinschalten der Spannungsversorgung die aktuelle Position unmittelbar und direkt auslesbar. Die Absolutwertgeber sind je nach Ausführung in Single- oder Multiturn lieferbar.

### PROFIBUS-DP Schnittstelle



### Kenndaten

Versorgungsspannung	11...27 VDC
Stromaufnahme ohne Last	< 350 mA
Gesamtauflösung <sup>1)</sup>	≤ 33 Bit
Schrittzahl/Umdrehung, Standard/erweitert <sup>1)</sup>	≤ 8.192 / ≤ 32.768
Anzahl Umdrehungen, Standard/erweitert <sup>1)</sup>	≤ 4.096 / ≤ 256.000
Profibus-DP V0	IEC 61158, IEC 61784
PNO Encoder-Profil	Klasse 1 und 2
- Parameter <sup>1)</sup>	Zählrichtungsumschaltung, Skalierungsfunktion etc.
Ausgabecode <sup>1)</sup>	Binär, Gray, gekappter Gray
Adressierung	3...99, einstellbar über Drehschalter
Baudrate	9,6 kbit/s...12 Mbit/s
TR-spezifische Funktionen <sup>1)</sup>	Getriebe, Geschwindigkeitsausgabe
Datenbreite für Istposition auf dem Bus	≤ 25 Bit
Mechanisch zulässige Drehzahl	≤ 12.000 min <sup>-1</sup>
Wellenbelastung	Eigenmasse
Lagerlebensdauer	≥ 3,9 * 10 <sup>10</sup> Umdrehungen bei
- Drehzahl	≤ 6.000 min <sup>-1</sup>
- Betriebstemperatur	≤ 60 °C
Wellendurchmesser in mm	8H7, 10H7, 12H7
Zulässige Winkelbeschleunigung	≤ 10 <sup>4</sup> rad/s <sup>2</sup>
Trägheitsmoment	typisch 2,5 * 10 <sup>-6</sup> kg m <sup>2</sup>
Anlaufdrehmoment bei 20 °C	typisch 2 Ncm
Masse	0,3 kg...0,5 kg

<sup>1)</sup> programmierbarer Parameter

### Umgebungsbedingungen

Vibration, DIN EN 60068-2-6: 1996	≤ 100 m/s <sup>2</sup> , Sinus 50-2000 Hz
Schock, DIN EN 60068-2-27: 1995	≤ 1000 m/s <sup>2</sup> , Halbsinus 11ms
EMV	
- Störaussendung, DIN EN 61000-6-3: 2007	
- Störfestigkeit, DIN EN 61000-6-2: 2006	
Arbeitstemperatur	0 °C...+60 °C, optional -20 °C...+70 °C
Lagertemperatur	-30 °C...+80 °C, trocken
Relative Luftfeuchte, DIN EN 60068-3-4: 2002	98 %, keine Betauung
Schutzart, DIN EN 60529: 1991 <sup>2)</sup>	IP 65

<sup>2)</sup> gültig mit aufgeschraubtem Gegenstecker und/oder verschraubter Kabelverschraubung

# Motoranbauten

## Absolut Drehgeber

### SSI Schnittstelle



### Kenndaten

Versorgungsspannung	11...27 VDC
Stromaufnahme ohne Last	< 350 mA
Gesamtauflösung <sup>1)</sup>	≤ 25 Bit
Schrittzahl/Umdrehung <sup>1)</sup>	≤ 8.192
Anzahl Umdrehungen, Standard <sup>1)</sup>	≤ 4.096
Anzahl Umdrehungen, erweitert <sup>1)</sup>	≤ 256.000
SSI	Synchron-Serielle-Schnittstelle
Takteingang	Optokoppler
Datenausgang	RS-422, 2-Draht
Taktfrequenz	80 kHz – 1 MHz
Monozeit t <sub>M</sub>	16 μs ≤ t <sub>M</sub> ≤ 25 μs, typisch 20 μs
Ausgabecode <sup>1)</sup>	Binär, Gray, BCD
Ausgabeformat <sup>1)</sup>	Standard, Tannenbaum, SSI+CRC, 26-Bit Wiederholung, variable Anzahl Datenbits
negative Werte <sup>1)</sup>	Vorzeichen + Betrag, 2er Komplement
SSI- oder parallele Sonderbits <sup>1)</sup>	Endschalter, Überdrehzahl, Richtungsmeldung, Bewegungsmeldung, Fehlermeldung, Parity
V/R <sup>1)</sup>	Zählrichtung
Preset <sup>1)</sup>	elektronische Justage
Logischer Zustand	„0“ < + 2 VDC, „1“ = Versorgungsspannung
Mechanisch zulässige Drehzahl	≤ 12.000 min <sup>-1</sup>
Wellenbelastung	Eigenmasse
Lagerlebensdauer	≥ 3,9 * 10 <sup>10</sup> Umdrehungen bei
- Drehzahl	≤ 6.000 min <sup>-1</sup>
- Betriebstemperatur	≤ 60 °C
Wellendurchmesser in mm	8H7, 10H7, 12H7
Zulässige Winkelbeschleunigung	≤ 10 <sup>4</sup> rad/s <sup>2</sup>
Trägheitsmoment	typisch 2,5 * 10 <sup>-6</sup> kg m <sup>2</sup>
Anlaufdrehmoment bei 20 °C	typisch 2 Ncm
Masse	0,3 kg...0,5 kg
Optional	
- Inkrementalsignale, RS422-Pegel	K1+, K1-, K2+, K2- mit 1024 oder 2048 Impulsen

<sup>1)</sup> programmierbarer Parameter

### Umgebungsbedingungen

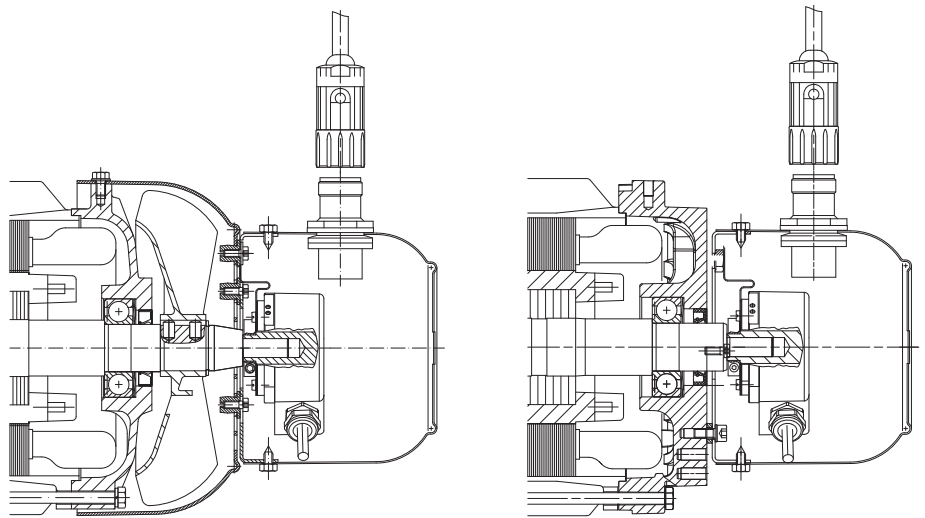
Vibration, DIN EN 60068-2-6: 1996	≤ 100 m/s <sup>2</sup> , Sinus 50-2000 Hz
Schock, DIN EN 60068-2-27: 1995	≤ 1000 m/s <sup>2</sup> , Halbsinus 11ms
EMV	
- Störaussendung, DIN EN 61000-6-3: 2007	
- Störfestigkeit, DIN EN 61000-6-2: 2006	
Arbeitstemperatur	0 °C...+60 °C, optional -20 °C...+70 °C
Lagertemperatur	-30 °C...+80 °C, trocken
Relative Luftfeuchte, DIN EN 60068-3-4: 2002	98 %, keine Betauung
Schutzart, DIN EN 60529: 1991 2)	IP 65

<sup>2)</sup> gültig mit aufgeschraubtem Gegenstecker und/oder verschraubter Kabelverschraubung

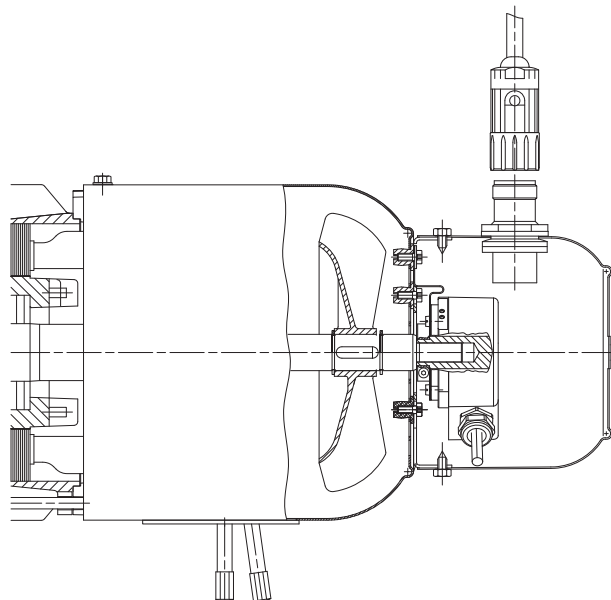
Multiturngeber erfassen außer den Winkelpositionen pro Umdrehung zusätzlich noch mehrere Umdrehungen. Ein internes Untersetzungsgetriebe ist mit der Motorwelle verbunden, über welches die Anzahl der Umdrehungen ermittelt wird. Der Messwert eines Multiturngebers setzt sich also aus der jeweiligen Winkelposition und der Anzahl der Umdrehungen zusammen. Der ermittelte Messwert wird ebenfalls kalkuliert und je nach Schnittstelle über unterschiedliche Interface-Module ausgegeben.

Auf Anfrage ist für eine ganze Reihe von Motorbaugrößen die Verwendung von Sensorlagern möglich. Das Ausgangssignal des Sensors macht eine Bestimmung der Drehrichtung z. B. möglich. Die Anzahl der möglichen Impulszahlen ist baugrößenabhängig. Wir bitten um Anfrage!

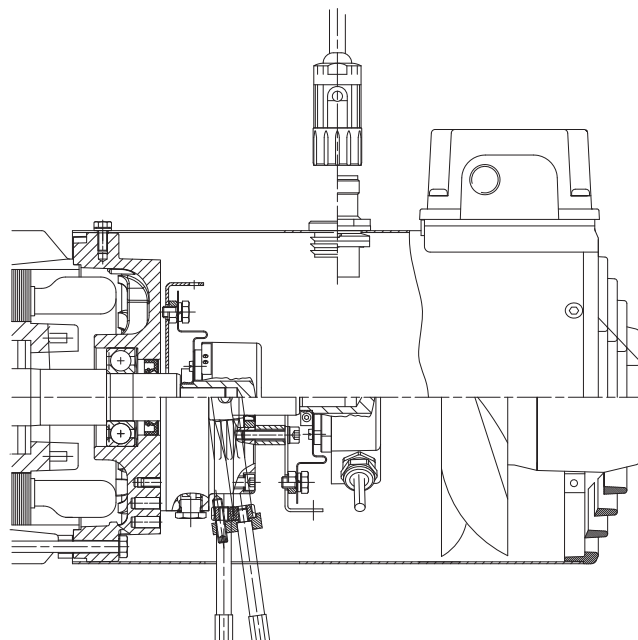
### Motor und Geber



### Motor, Bremse und Geber

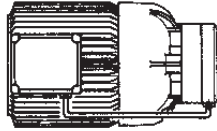


### Motor + Fremdbelüftung









Seite

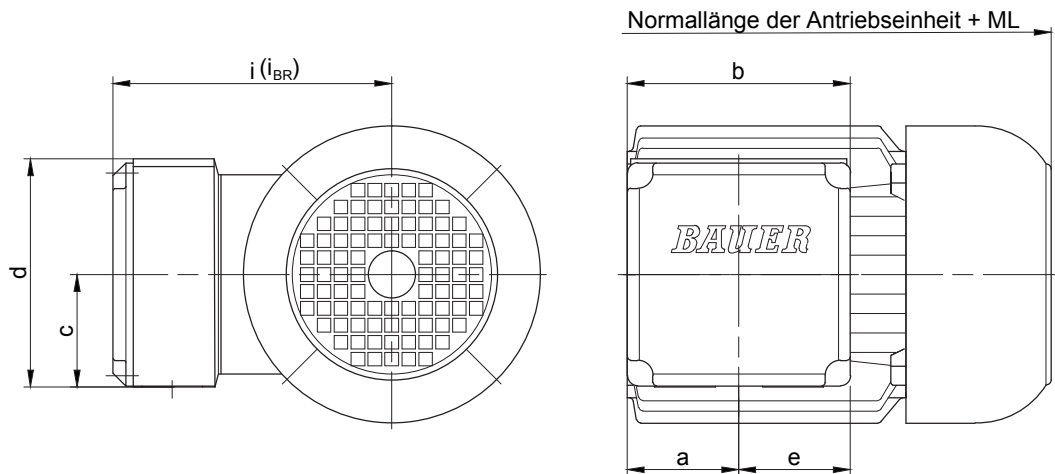
---

## Zusatzmaßbilder für Motoranbauten

613-632

- Maßbild Klemmenkasten in Standardausführung
  - Maßbild Klemmenkasten in Steckerausführung
  - Maßbilder für Standardbremsen ohne Klemmenkasten
  - Maßbilder für Bremsen mit Klemmenkasten
  - Maßbild für Motoren mit Rücklaufsperre
  - Maßbild für Motoren mit zweitem Motorwellenende
  - Maßbild für Motoren mit Schutzhaube
  - Maßbild für Motoren mit angebautem Fremdlüfter
  - Maßbild für Motoren mit Bremse und angebautem Fremdlüfter
  - Maßbild für Motoren mit Geber
  - Maßbild für Motoren mit Bremse und Geber
  - Maßbild für Motoren in IEC-Ausführung
-

### Klemmenkasten in Standardausführung

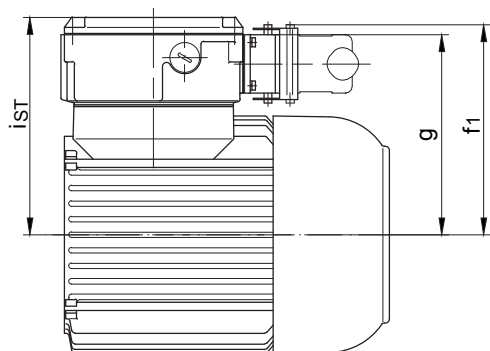


Motor / Motor mit Bremse	Masse (mm)						Code	Kabeleinführung Haupt (M) Neben (N)	max. Schlüsselweite für Kabelverschraubung
	a	b	c	d	e	i / i <sub>BR</sub>			
D04..	42.5	88	44	88	44	90	KAG1	M=2xM20x1.5	24 mm
D05..	50	100	50	100	50	100	KAG2	M=2xM25x1.5	29 mm
D06..	50	100	50	100	50	100	KAG2	M=2xM25x1.5	29 mm
D07..	50	100	50	100	50	100	KAG2	M=2xM25x1.5	29 mm
D..08..	50	100	50	100	50	115	KAG2	M=2xM25x1.5	29 mm
D..09..	50	100	50	100	50	124	KAG2	M=2xM25x1.5	29 mm
D..11..	62	132	66.5	135	66	181	TB222	M=2xM32x1.5; N=2xM25x1.5	-
D..13..	78	156	78.5	158	78	217	TB322	M=2xM40x1.5; N=2xM25x1.5	-
D..16..	74	156	78.5	158	78	243	TB322	M=2xM40x1.5; N=2xM25x1.5	-
D..18..	94	200	100.5	201	100	288	TB422	M=2xM50x1.5; N=2xM25x1.5	-

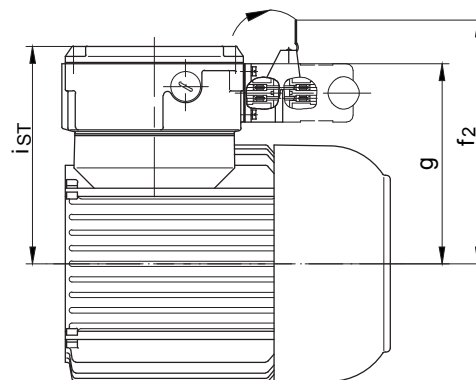
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Klemmenkasten in Steckerausführung

Standardausführung (zwei Bügel)



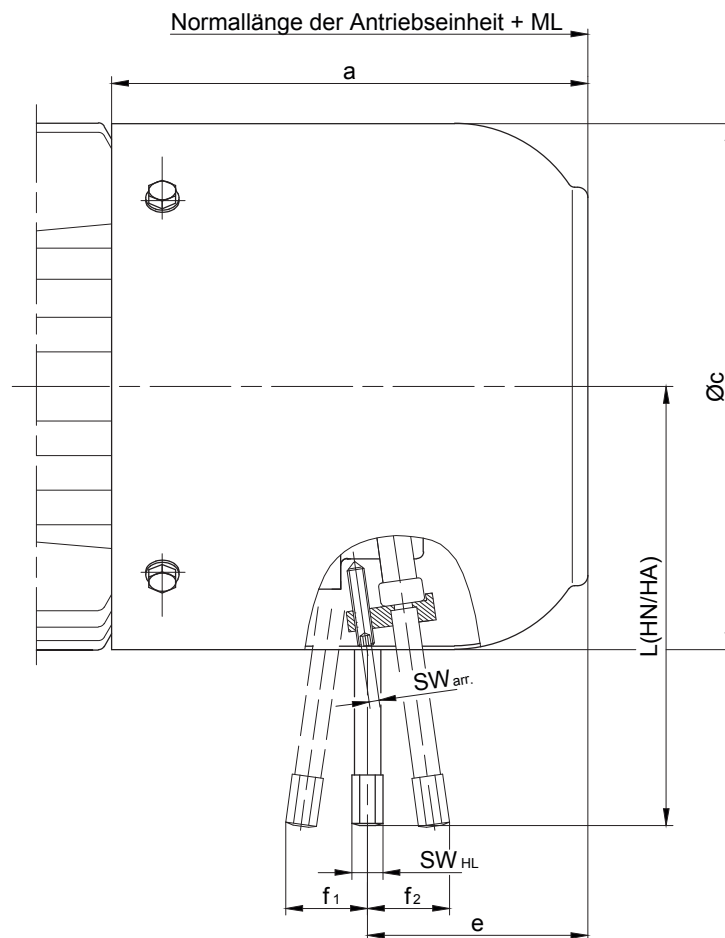
Option für DESINA (ein Bügel)



Motor	Größe Klemmenkasten	a	b	c	d	e	f <sub>1</sub>	f <sub>2</sub>	g	h <sub>1</sub>	h <sub>2</sub>	ist	x
D04	TBS1	30	90	52.5	106	49	118.5	147	111	117	93	124.5	46
D05	TBS1	57	90	52.5	106	49	123.5	152	116	117	93	129.5	46
D06	TBS1	45	90	52.5	106	49	125.5	154	118	117	93	131.5	46
D07	TBS1	45	90	52.5	106	49	125.5	154	118	117	93	131.5	46
D..08	TBS1	45	90	52.5	106	49	143.5	172	136	117	93	149.5	46
D..09	TBS2	62	132	66	135	71.5	158.5	187	158	117	93	164	68.5
D..11	TBS2	62	132	66	135	71.5	175.5	191	166	117	93	181	68.5
D..13	TBS3	78	156	78	158	83.5	199	227.5	191.5	117	93	216	79.5
D..16	TBS3	74	156	78	158	83.5	225	253.5	225	117	93	242	79.5
D..18	TBS4	94	200	100	201	105.5	257	299	257	117	93	287	100.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Standardbremsen



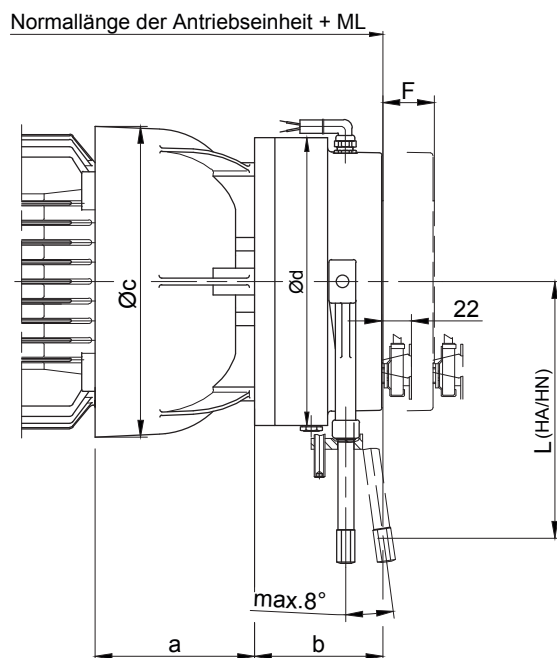
Motor Typ	Bremsen Typ	ML(mm) Mehrlänge mit Bremse	Masse (mm)								Mehrgewicht kg
			a	Øc	e	f <sub>1</sub>	f <sub>2</sub>	L(HN/HA)	SW <sub>HL</sub>	SW <sub>arr.</sub>	
D04	E003	43.5	97	110.5	58.5	20.5	24	96/102	11	11	1.0
D05		42	102	123	60						
D06					58.5						
D07		E003 / E004									
D..08	ES(X)010	66	141	156	68	-	29	132	8	2.5	2.6
D..09	ES(X)010	93	173	176	99	-	29	132	8	2.5	2.7
	ES(X)027				91	-	35.5	162			4.2
D..11	ES(X)027	98	195	218	103	-	35.5	162	8	2.5	4.5
	ES(X)040				100	-	37	172			6.3
	ES(X)070				96	-	34.5	190			12
D..13	ES(X)040	111	225	258	125	-	41	202	12	4	6.5
	ES(X)070				121	-	38	225			8.5
	ES(X)125				116	-	45	223			12.5
D..16	ES(X)125	144	280	310	148	-	48.5	244	12	4	13.5
	ES(X)200				141	-	50	256			19
	ZS(X)300				112	-					22
D..18	ES(X)250	149	304	348	153	-	58.5	286	12	4	28
	ZS(X)500				123	-			19	5	30

HN = Handlüftung nicht arretierbar

HA = Handlüftung arretierbar

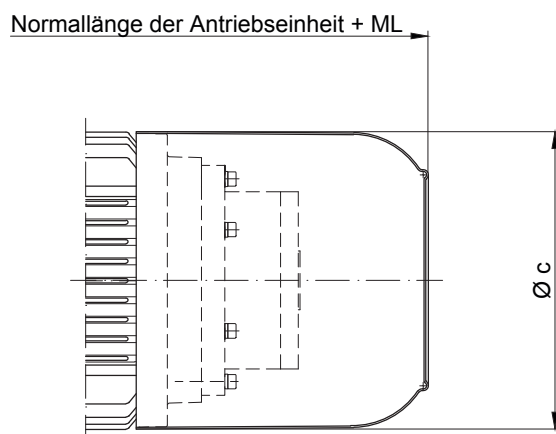
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Motor mit „Heavy-Duty“-Bremse



Motor	Bremse	ML(mm) Mehrlänge mit Bremse		Masse (mm)					Mehrgewicht
		Standard	Mikros.	a	b	c	Ød	L (HA/HN)	
D..08	EH(X)027	79	101	83.5	66.5	166	145	162	5.5
D..09	EH(X)040	90	112	102	73	191	168	172	8.3
D..11	EH(X)125	114	136	120	95	231	213	208.5	19.5
D..13	EH(X)200	128	150	140	106	274.5	245	221	29.3
D..16	EH(X)400	141	163	155	124	326	324	313	55.8
D..18		152	174	183		366			61

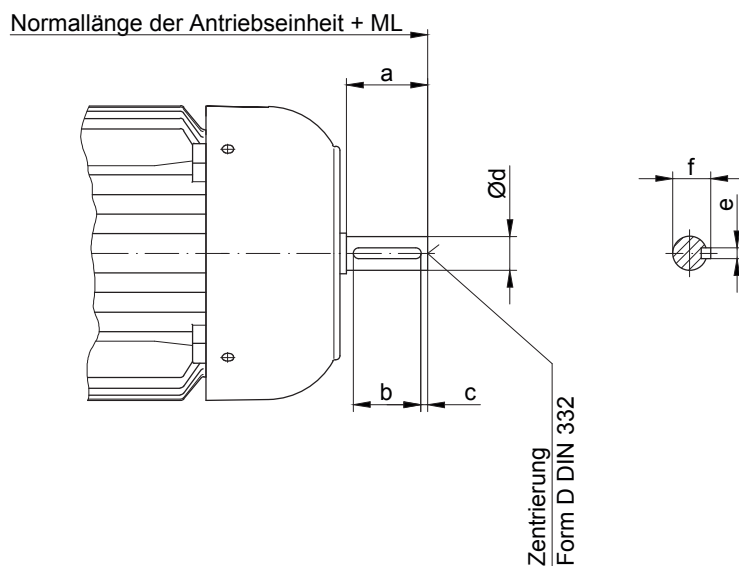
### Motoren mit Rücklaufsperre



Motor	ML (mm) Mehrlänge mit Rücklaufsperre	Masse (mm) c	Mehrgewicht kg
D..08	66	156	6.5
D..09	93	181	6.5
D..11	98	228	8
D..13	111	258	13.5
D..16	144	322	16
D..18	149	368	17

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

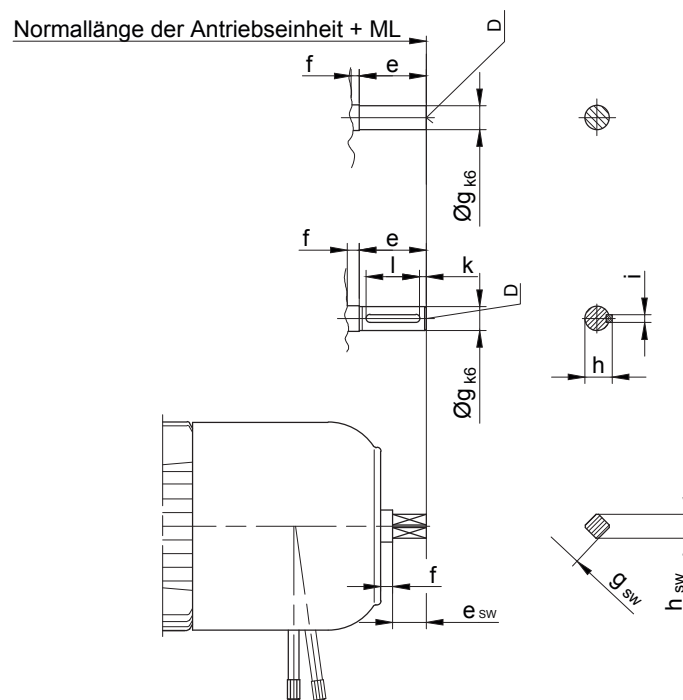
### Motoren mit zweitem Motorwellenende



Motor	ML(mm) Mehrlänge bei zweitem Wellenende	Masse (mm)						Zentrierung
		a	b	c	d	e	f	DIN 332
D04	20	15	-	-	8g6	-	-	-
D05	25	20	-	-	10k6	-	-	-
D06	25	20	-	-	10k6	-	-	-
D07	25.5	20	-	-	10k6	-	-	-
D..08	45	40	30	5	16k6	5	18	D 5
D..09	55	50	40	5	20k6	6	22.5	D 5
D..11	65	60	50	5	25k6	8	28	D 8
D..13	85	80	60	10	35k6	10	38	D 12
D..16	115	110	90	10	40k6	12	43	D 16
D..18	115	110	90	10	45k6	14	48.5	D 16

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Motoren mit Bremse und zweitem Motorwellenende



Motor	Bremsen	Mehrlänge (mm)		Masse (mm)										Zentrierung D 332		
		ML	ML <sub>SW</sub>	e	e <sub>SW</sub>	f	g	g <sub>SW</sub>	h	h <sub>SW</sub>	i	k	l	sw		
D04	E003	63	-	15	-	5	8	-	-	-	-	-	-	-	-	-
D05				20			10									
D06				20			10									
D07				20			10									
D..08	ES(X)..	121	96 *	50	25 *	5	18	SW14 *	20.5	18 *	6	5	40	D6	D4 *	
D..09		98	123 *				20	SW14	22.5	18	6 *	40 *	D6 *	D4		
D..11		153.5 *	128	50 *	25		20 *	SW14	22.5 *	18	6 *	40 *	D6 *	D4		
D..13		176 *	156	60 *	40		4.5	28 *	SW22	31 *	28	8 *	5 *	50 *	D10 *	D10
D..16	ES(X).. / ZS(X)..	208.5 *	188.5	60 *	40	4.5	28 *	SW22	31 *	28	8 *	5 *	50 *	D10 *	D10	
D..18		359 *	194.5			5	5	50 *	D10 *	D10						

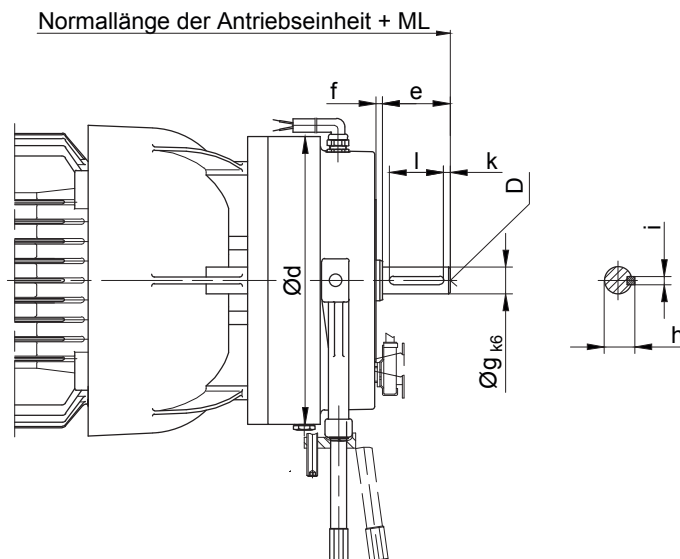
\* Sonderausführung

\*\* mit Handlüftung

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.



### Motor mit „Heavy-Duty“-Bremse und zweiten Wellenende

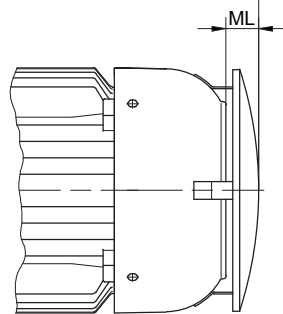


Motor	Bremsen	ML(mm) Mehrlänge mit Geber und Bremsen	Masse (mm)								Zentrierung D 332	Mehrgewicht
			Ød	e	f	g	h	i	k	k		
D..08	EH(X)027	132	145	50	4	18	20.5	6	5	6	D06	6
D..09	EH(X)040	144	168		5	20	22.5					9
D..11	EH(X)125	169	213		20	22.5	20					
D..13	EH(X)200	192	245	60	5	28	31	8	8	D10	29.5	
D..16	EH(X)400	205.5	324			28	31				56	
D..18		216.5				30	33				61	

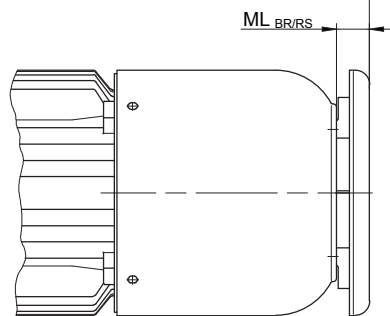
Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Motoren mit Schutzhaube

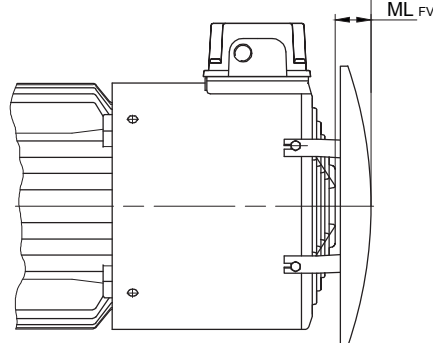
Normallänge der Antriebseinheit + ML



Normallänge der Antriebseinheit + ML



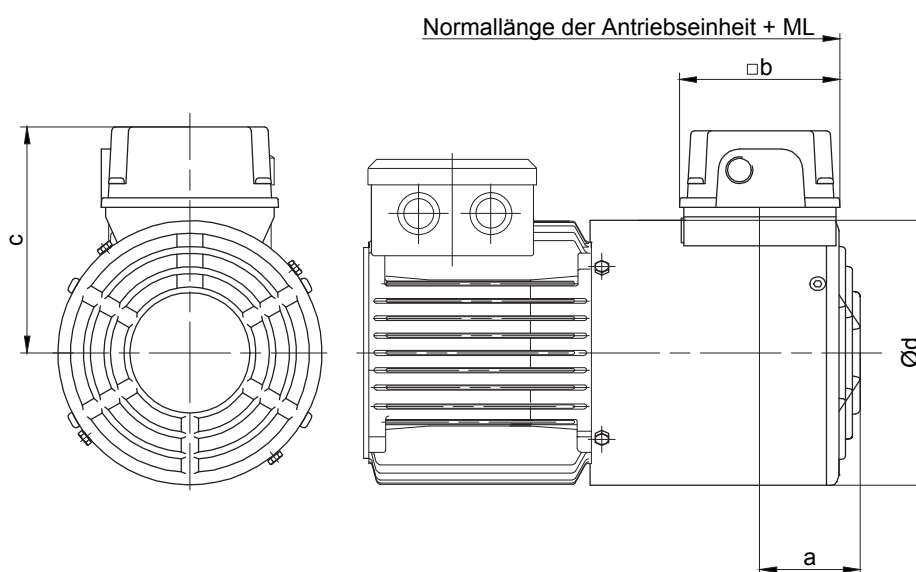
Normallänge der Antriebseinheit + ML



Motor	ML(mm) Mehrlänge bei angebaute Schutzhaube				Mehrgewicht kg
	ML	ML <sub>BR</sub>	ML <sub>RS</sub>	ML <sub>FV</sub>	
D06	18	-	-	-	0.15
D07	18	-	-	-	0.15
D..08	14.5	24.5	24.5	40	0.20
D..09	22	24.5	24.5	30	0.30
D..11	29	29.5	29.5	33	0.40
D..13	30	29.5	29.5	25	0.6
D..16	47	34.5	34.5	32	1.8
D..18	54	34.5	34.5	32	5.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Motoren mit angebautem Fremdlüfter

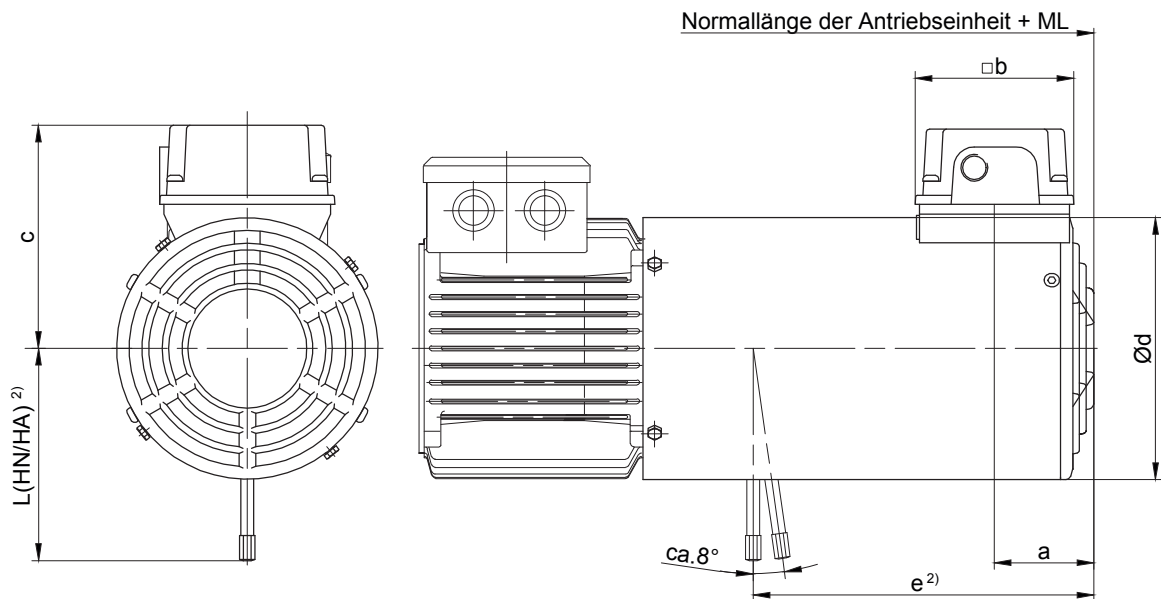


Antriebs- motor  Typ	Lüfter- motor  Typ	kW	r/min	400 V A	ML (mm) Mehrlänge Fremdlüfter	Masse (mm)				Mehrgewicht  ~ kg
						a	b	c	d	
D..08	FV D08	0.019	2670	0.029	92	69.5	95	131.5	157	2.2
D..09	FV D09	0.046	2820	0.106	97	69.5	95	141.5	176	2.7
D..11	FV D11	0.051	2660	0.110	97	79.5	95	162.5	219	3.2
D..13	FV D13	0.073	2820	0.169	119	78.8	95	182	258	4.6
D..16*	FV D16	0.154	2760	0.347	144	78.8	95	208.5	311	6.4
D..18*	FV D18	0.154	2760	0.347	303	78.8	95	208.5	348	8.4

\* mit Bajonettverschluss

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Motoren mit Bremse und angebautem Fremdlüfter



Motor	Bremsen	ML (mm) <sup>1)</sup> Mehrlänge bei angebaute Bremse und Fremdlüfter	Masse (mm)						Mehrgewicht ~kg
			a	b	c	Ød	e <sup>2)</sup>	L(HN/HA) <sup>2)</sup>	
D..08	ES(X)010	202	59	95	131.5	157	204	132	5.0
D..09	ES(X)010	214	69.5	95	141.5	176	220	132	5.5
	212						162	7.5	
D..11*	ES(X)027	221	69.5	95	162.5	219	226	162	8.0
	ES(X)040						223	172	10
	ES(X)070						218	184	12
D..13*	ES(X)040	237	79.5	95	182	258	254	202	11.5
	ES(X)070						250	225	13.5
	ES(X)125						245	223	17.5
D..16*	ES(X)125	294	78.8	95	208.5	311	298	244	19.5
	ES(X)200						291	256	25
	ZS(X)300						262		27
D..18*	ES(X)250	303	78.8	95	208.5	348	307	286	37
	ZS(X)500						277		38.5

\* mit Bajonettverschluss

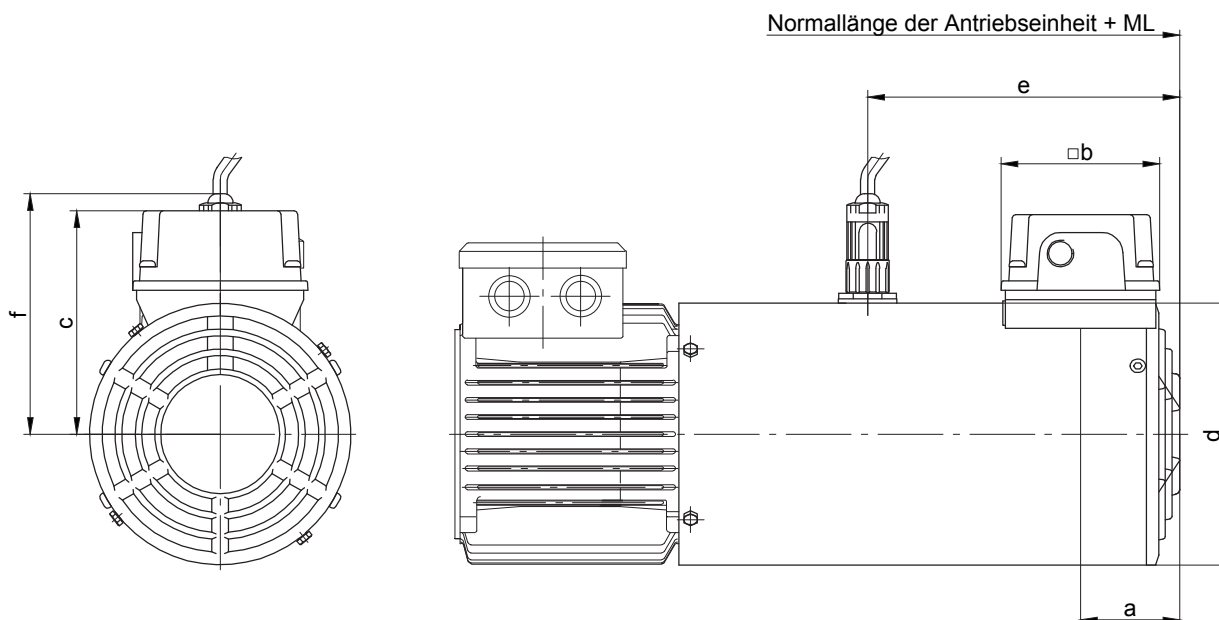
1) Die Mehrlänge bezieht sich auf das normale Motorteil ohne Bremse.

Übrige Maße siehe jeweiliges Standard-Maßbild.

2) Handlüftung auf Anfrage

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Motoren mit Geber und angebautem Fremdlüfter

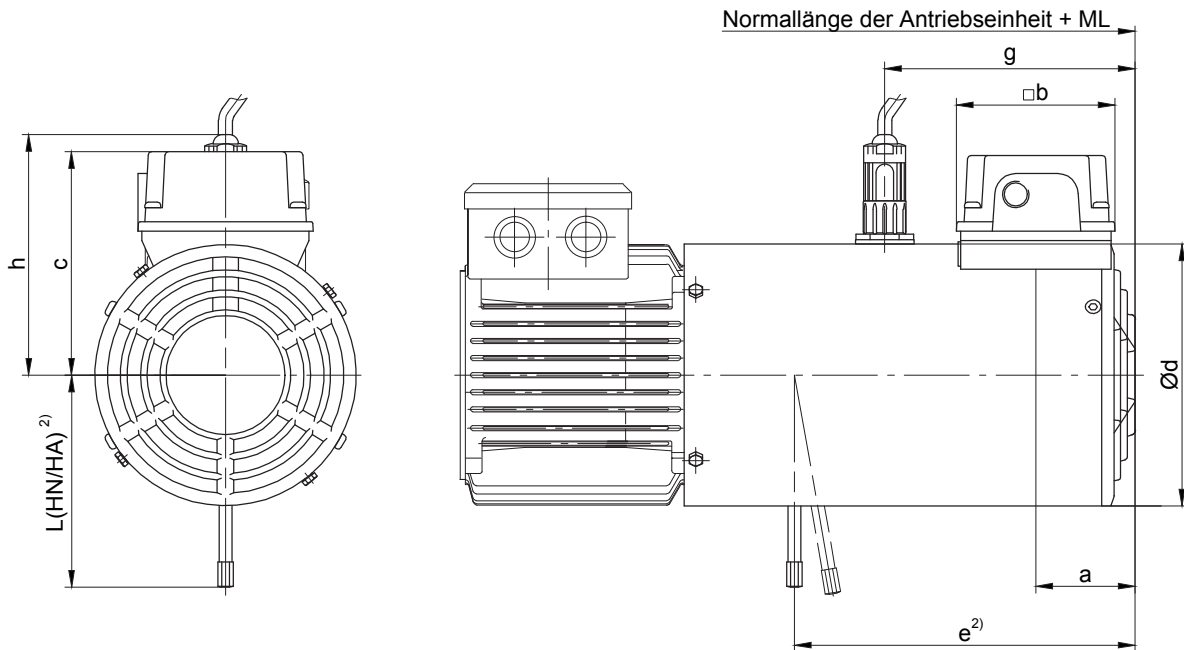


Motor	ML(mm) <sup>1)</sup> Mehrlänge bei angebautem Geber und Fremdlüfter	Masse (mm)						Mehrgewicht ~ kg
		a	b	c	d	e	f	
D..08	202	59	95	131.5	157	187	144	2.6
D..09	214	69.5	95	141.5	176	192	153.5	3.3
D..11*	221	69.5	95	162.5	218	192	-	4.0
D..13*	240	79.5	95	182	258	217	-	5.7
D..16*	294	78.8	95	208.5	311	252	-	7.9
D..18*	303	78.8	95	208.5	348	267	-	10.9

\* mit Bajonettverschluss

1) Die Mehrlänge bezieht sich auf das normale Motorteil ohne Bremse.  
Übrige Maße siehe jeweiliges Standard-Massbild.

### Motoren mit Bremse und Geber mit angebaurem Fremdlüfter



Motor	Bremse	ML (mm) <sup>1)</sup> Mehrlänge mit Bremse, Geber und Fremdlüfter	Masse (mm)								Mehrgewicht ~ kg
			a	b	c	Ød	e <sup>2)</sup>	g	h	L(HN/HA) <sup>2)</sup>	
D..08	ES(X)010	202	59	95	131.5	157	204	150	150	132	6.0
D..09	ES(X)010	214	69.5	95	141.5	176	220	160	160	132	6.5
	ES(X)027						212	160		162	8.5
D..11*	ES(X)027	221	69.5	95	162.5	219	226	155	155	162	9.0
	ES(X)040						223	155		172	11.5
	ES(X)070						218	155		184	13.5
D..13*	ES(X)040	240	79.5	95	182	258	254	175	175	202	13
	ES(X)070						250	175		225	15
	ES(X)125						245	175		223	19
D..16*	ES(X)125	294	78.8	95	208.5	311	298	195	195	244	21
	ES(X)200						291	195		256	27
	ZS(X)300						262	195			29
D..18*	ES(X)250	303	78.8	95	208.5	348	207	212	212	286	39
	ZS(X)500						277	212			40.5

mit Bajonettverschluss

1) Die Mehrlänge bezieht sich auf das normale Motorteil ohne Bremse.

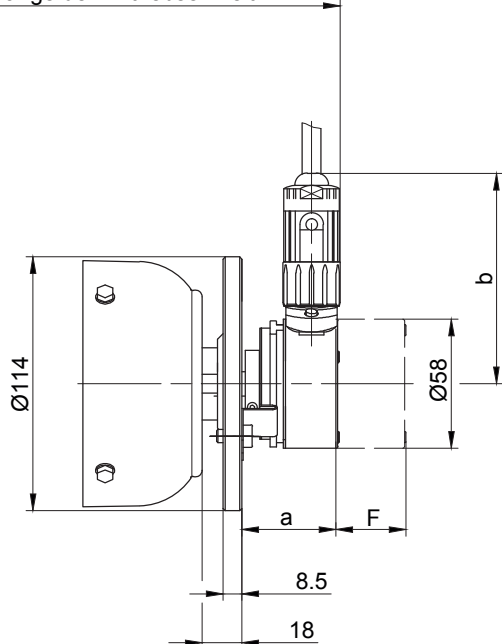
Übrige Maße siehe jeweiliges Standard-Maßbild.

2) Handlüftung auf Anfrage

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

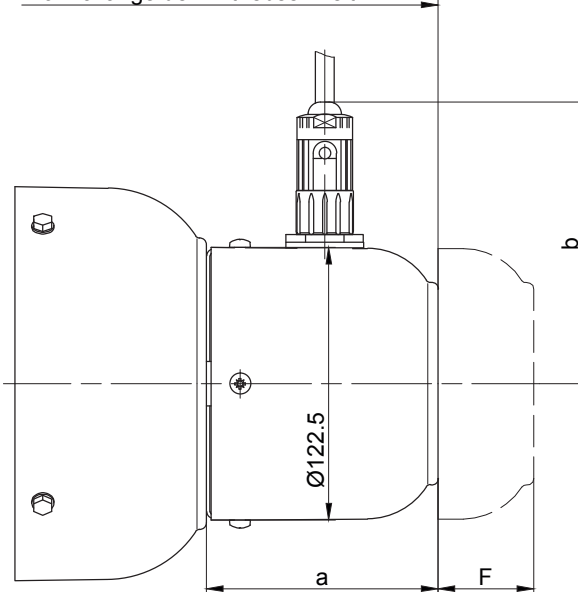
### Motoren mit Standard-Geber

Normallänge der Antriebseinheit + ML



D04

Normallänge der Antriebseinheit + ML

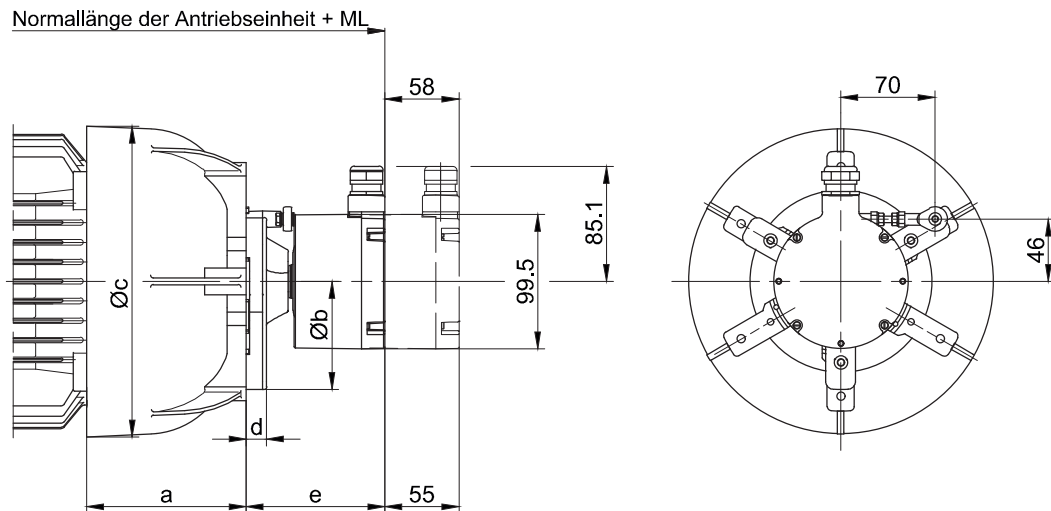


D05-D..18

Motor	ML(mm) Mehrlänge mit Geber	Masse (mm)				Mehrgewicht kg	Freiraum zur Demontage des Tachos "F"	
		Inkrementalgeber Fa. Kübler Typ 5820		Absolutwertgeber Fa. TR Typ CS58-M			Inkrementalgeber Fa. Kübler Typ 5820	Absolutwertgeber Fa. TR Typ CS58-M
		a	b	a	b			
D04	62.5	43.5	95	69.5	109.5	0.7	30	55
D05	103	98.5	127	98.5	127	0.9	63	88
D06								
D07								
D..08	107	107.5	127	107.5	127	0.8	41	66
D..09								
D..11								
D..13	108	104	104	104	104	0.8	43	68
D..16								
D..18								

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

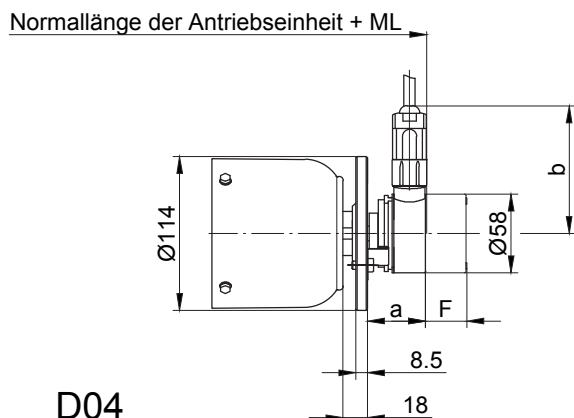
### Motor mit „Heavy-Duty“-Geber



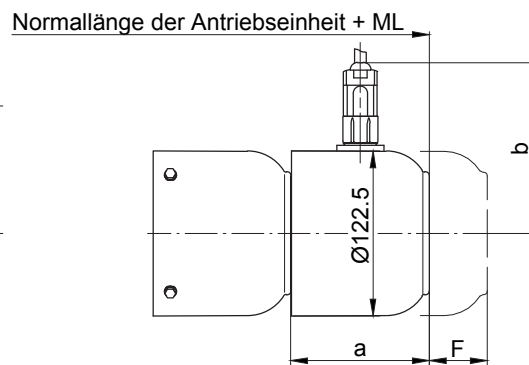
Motor	ML(mm) Mehrlänge mit Geber	Masse (mm)					Mehrgewicht kg
		a	b	c	d	e	
D..08	114	83.5	160	166	15	102.5	2
D..09	118.5	102		191			
D..11	121.5	120		231			
D..13	115.5	140	185	274.5	17	94.5	8.6
D..16	113.5	155		326			
D..18	122.5	183		366			



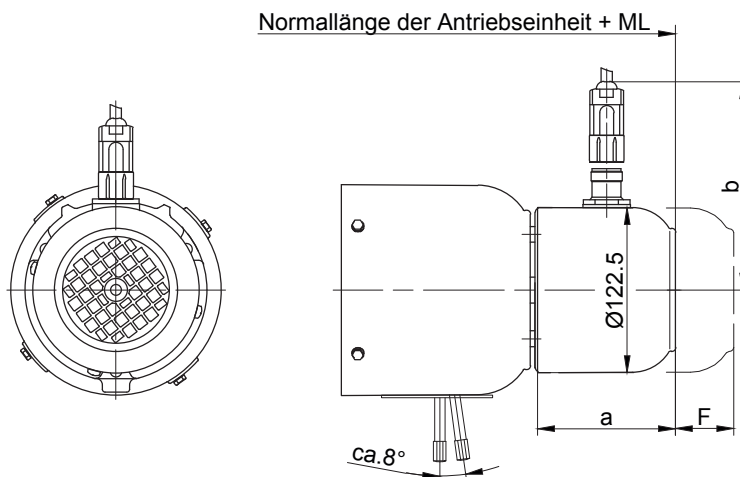
### Motoren mit Bremse und Standard-Geber



D04



D05-D07

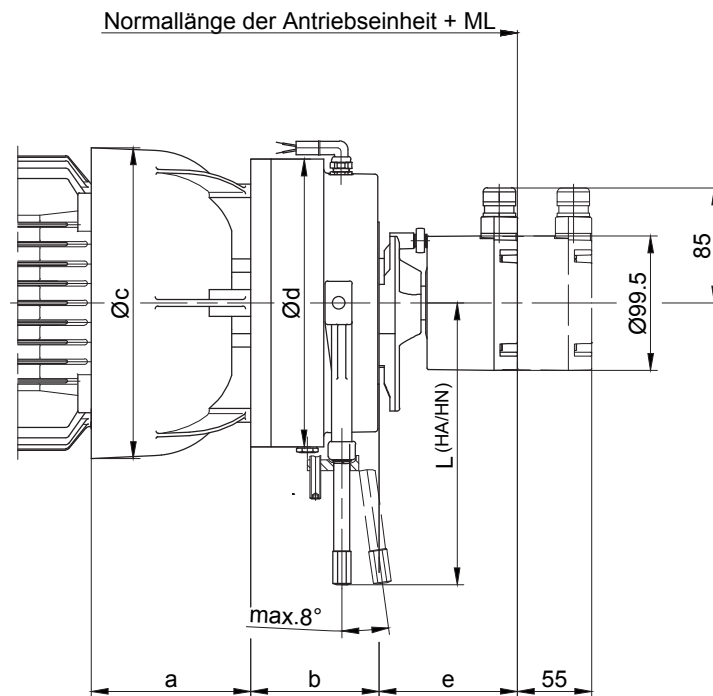


D08-D18

Motor	Bremse	ML(mm) Mehrlänge mit Geber und Bremse	Masse (mm)				Mehrgewicht kg	Freiraum zur Demontage des Tachos "F"	
			Inkrementalgeber Fa. Kübler Typ 5820		Absolutwertgeber Fa. TR Typ CS58-M			Inkrementalgeber Fa. Kübler Typ 5820	Absolutwertgeber Fa. TR Typ CS58-M
			a	b	a	b			
D04	E003 E003 / E004	105.5	43.5	95	69.5	109.5	0.7	30	55
D05		145	102	127	102	127	0.8	49	74
D06									
D07									
D..08	ES(X)..	173.5	102	127	102	127	0.8	49	74
D..09	ES(X)..	197							
D..11	ES(X)..	200							
D..13	ES(X)..	212							
D..16	ES(X).. / ZS(X)..	248							
D..18	ES(X).. / ZS(X)..	253							

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

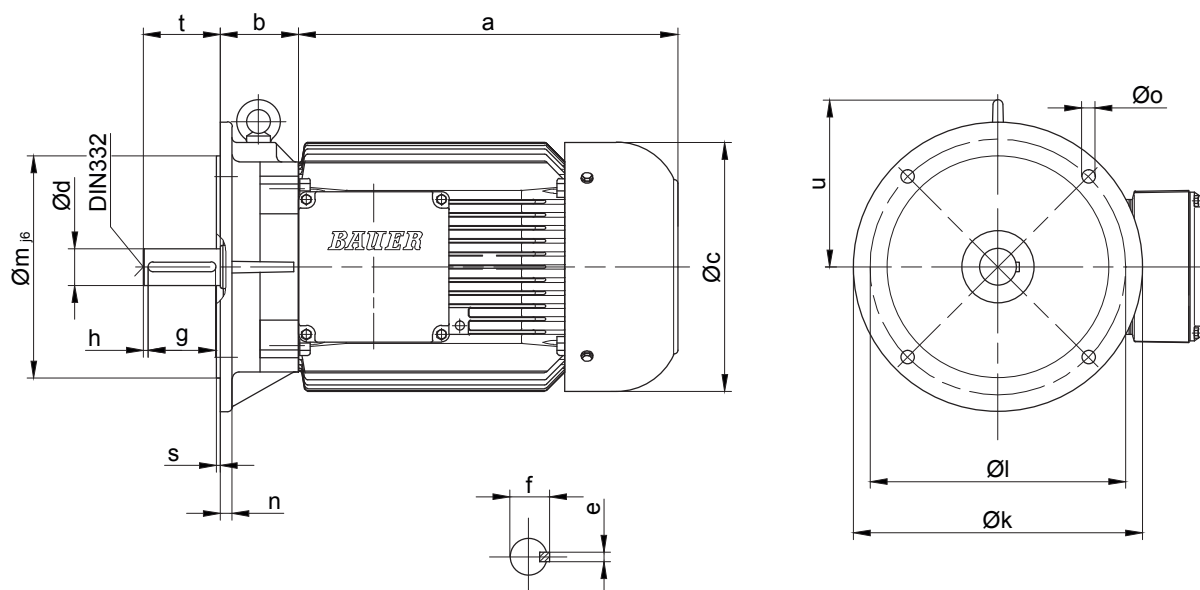
### Motor mit „Heavy-Duty“-Bremse und Geber



Motor	Bremsen	ML(mm) Mehrlänge mit Geber und Bremsen	Masse (mm)						Mehrgewicht
			a	b	c	Ød	e	L (HA/HN)	
D..08	EH(X)027	180.5	83.5	66.5	166	145	102.5	162	7.1
D..09	EH(X)040	191.5	102	73	191	168		172	10
D..11	EH(X)125	216.5	120	95	231	213		208.5	21.4
D..13	EH(X)200	259	140	106	274.5	245	94.5	221	32
D..16	EH(X)400	243	155	124	326	324		313	58
D..18		254	183		366			61	

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

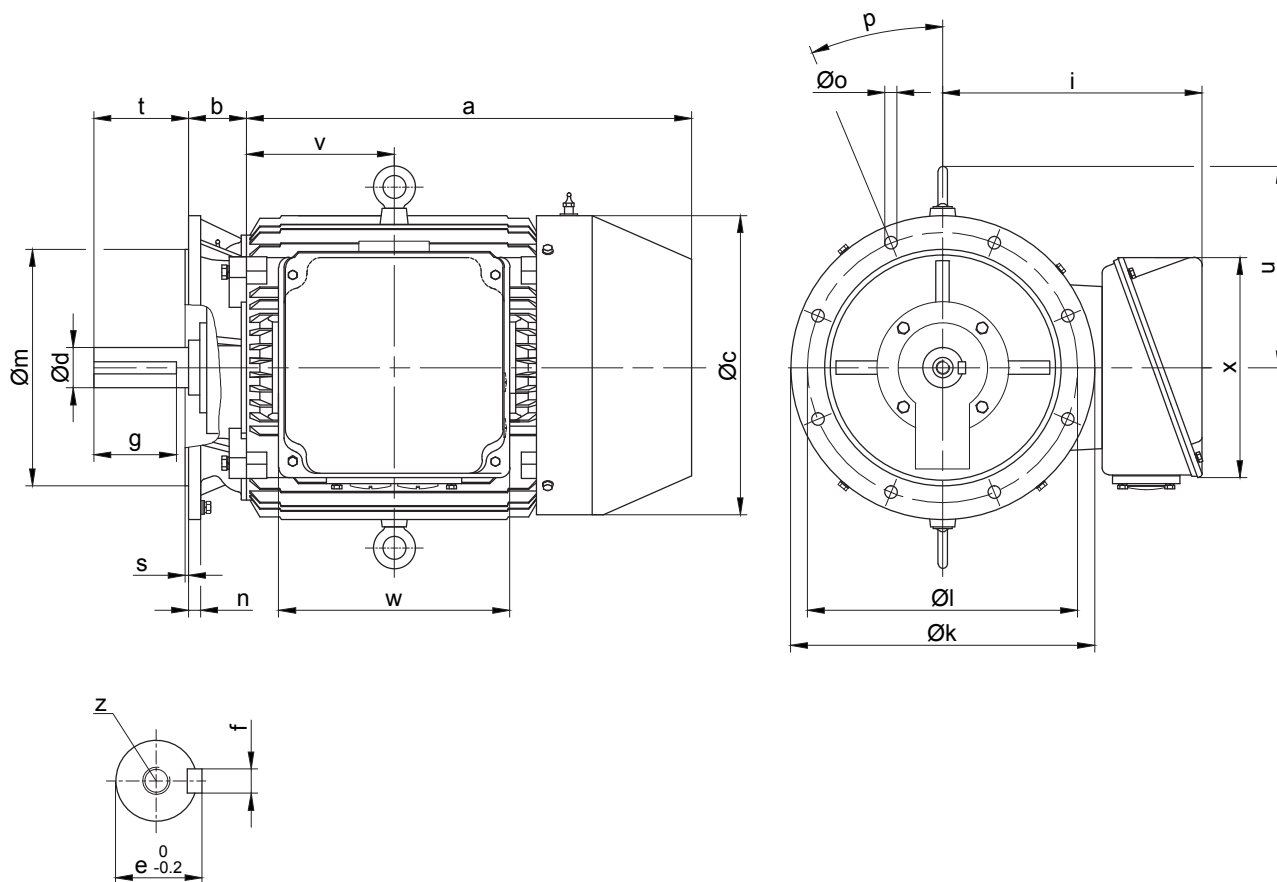
### Motoren in IEC-Ausführung



Motor	Masse (mm)																Zentrierung DIN 332
	a	b	c	d	e	f	g	h	k	l	m	n	o	s	t	u	
D06	170	45	123	11 <sub>j6</sub>	4	12.5	18	2.5	140	115	95	9	10	2.75	23	-	D4
D07	190	45	123	11 <sub>j6</sub>	4	12.5	18	2.5	140	115	95	9	10	2.75	23	-	D4
D..08	200	49	156	19 <sub>j6</sub>	6	21.5	35	2.5	200	165	130	10	12	3.5	40	-	D4
D..09	251	66	176	24 <sub>j6</sub>	8	27	40	5	200	165	130	10	12	3.5	50	128.5	D6
D..11	319	75	218	28 <sub>j6</sub>	8	31	50	5	250	215	180	11	14.5	4	60	145.5	D8
D..13	393	81	266	38 <sub>k6</sub>	10	41	70	5	300	265	230	12	14	4	80	173	D12
D..16	429	98.5	310	42 <sub>k6</sub>	12	45	90	10	350	300	250	13	18.5	5	110	215.5	D16

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Motoren in IEC-Ausführung

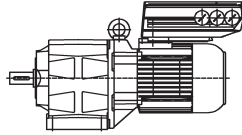


Motor	Masse (mm)																
	a	b	c	d	e	f	g	i	k	l	m	n	o	p	s	t	u
DNF18	551	79	355	48 <sup>+0.018</sup> <sub>+0.002</sub>	14	51.5	80	293	350	300	250	16	Ø19	4x45°	5	110	240
DNF20	613	82	395	55 <sup>+0.030</sup> <sub>+0.011</sub>	16	59	91	313	400	350	300	16	Ø19	4x45°	5	110	270
DNF22	659	86	442	60 <sup>+0.030</sup> <sub>+0.011</sub>	18	64	122	390	450	400	350	18	Ø19	8x22.5°	5	140	300
DNF25	730	95	485	65 <sup>+0.030</sup> <sub>+0.011</sub>	18	69	126	415	550	500	450	18	Ø19	8x22.5°	5	140	330
DNF28	797	98	544	75 <sup>+0.030</sup> <sub>+0.011</sub>	20	79.5	124	445	550	500	450	18	Ø19	8x22.5°	5	140	380

Motor	Zentrierbohrung			Gewicht	
	v	w	x		
DNF18	194	200	221	M16x2x24	215
DNF20	203.5	200	221	M20x2.5x30	293
DNF22	218.5	342	326	M20x2.5x30	395
DNF25	247.5	342	326	M20x2.5x30	487
DNF28	276	342	326	M20x2.5x30	692

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

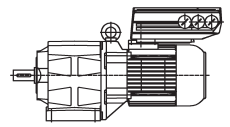
# 17



Seite

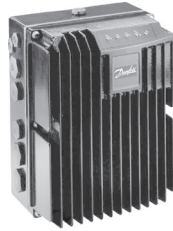
**Antriebslösungen für die dezentrale und zentrale Antriebstechnik**

**633-648**



### FCD 300

Alle Bauer-Getriebemotoren sind von 0,37 bis 3,0kW mit angebaurem Frequenzumrichter / FCD300 lieferbar. Die Frequenzumrichter der Reihe FCD300 werden anstatt Klemmenkasten direkt an den Motor angebauret. Der Umrichter kann auch motornah eingesetzt werden.



### Eigenschaften von FCD Getriebemotoren

#### Flexible Montage

- Der FCD 300 kann an Bauer-Getriebemotoren sowie motornah eingesetzt werden

#### Einfache Verdrahtung

- Über Federzugklemmen und großen Anschlussraum in der Geräteanschlußbox Kabelöffnungen 3 X M25,2 X M20,2 X M16
- max. Anschlussquerschnitte: Steuerklemmen: 2,5 mm<sup>2</sup>, Leistungsklemmen 4 mm<sup>2</sup>, PE: 10 mm<sup>2</sup>
- Die Anschlussbox kann als T-Verteiler der Leistungs- und der Busanbindung verwendet werden
- Auf Wunsch kann der Anschluss steckbar ausgeführt werden (z.B. mit Harting-Steckern)

#### Integrierte Bremssteuerung

- Die elektromechanische Bremse des Getriebemotors wird direkt vom FCD aus angesteuert
- Bremsen können aus dem FCD versorgt werden

#### Robustes Gehäuse

- Schutzart IP 66
- reinigungsfreundlich
- geschützt gegen aggressive Umgebung

#### Fortschrittliche Buskommunikation

- mit Profibus DP (3 oder 12 MB), AS(i) oder DeviceNet
- Über eine zweite Busschnittstelle RS 485 kann das Gerät parallel zur zyklischen Buskommunikation parametrieret werden

#### Gut sichtbare Statusinformationen über LED

- Bus
- Status
- Alarm
- Warnung
- On

#### Netzfilter integriert

- die Filter für Funkentstörung der Klasse 1A (Industrie) und Netzzückwirkung sind standardmäßig im Gerät enthalten

### Technische Daten von FCD 300

#### Leistungsbereich:

0,37-3 kW (3-phasig)

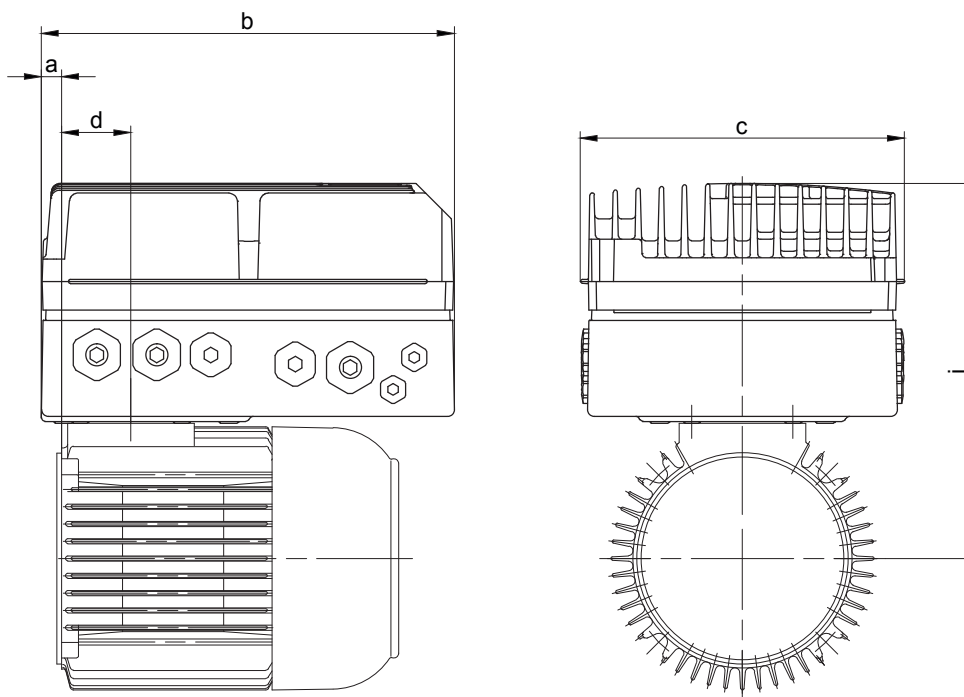
#### Spannungsbereich:

380-480 V

#### Vorteile

- Adaption auf Getriebemotoren, Normmotoren oder motornahe Montage
- Hohe Schutzart IP 66
- Hohe Resistenz gegen aggressive Medien
- Profibusoption
- Integrierte EMV-Filter (EN 55011, 1A)
- Konvektionskühlung, keine Lüftung notwendig
- Automatische Motoranpassung
- Einfache Bedienung durch anschließbares Klartextdisplay

### Zuordnung FCD 300 zu Motor

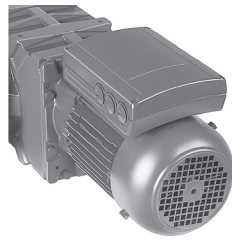


Motor	Typ FCD		Masse (mm)					Kabeleinführung	
			a	b	c	d	i	rechts	beidseitig
D..08	D303	D305	13	244.5	192	40.5	222	2 x M16x1.5	4x M16x1.5
	D307	D311						2 x M20x1.5	4 x M20x1.5
	D315							3 x M25x1.5	6 x M25x1.5
D..09	D303	D305	0	244.5	192	62	240.5	2 x M16x1.5	4 x M16x1.5
	D307	D311						2 x M20x1.5	4 x M20x1.5
	D315							3 x M25x1.5	6 x M25x1.5
D..11	D322	D330	0.5	302	258	62	266	2 x M16x1.5	4 x M16x1.5
								2 x M20x1.5	5 x M20x1.5
								3 x M25x1.5	6 x M25x1.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Eta-Getriebemotoren

Bauer liefert Getriebemotoren von 0,12 bis 7,5 kW auch mit angebautem Frequenzumrichter/Eta-K. Die Frequenzumrichter der Reihe Eta-K werden anstatt Klemmenkasten direkt an den Motor angebaut. Das erforderliche Einbauvolumen des Getriebemotors ist unwesentlich größer als bei den Standard-Getriebemotoren.



### Eigenschaften von Eta-Getriebemotoren

Die Kombination des Getriebemotors mit dem Umrichter bietet eine ganze Reihe von Vorteilen:

#### Kosten reduzieren - Platz sparen

- Kostenreduzierung bei Planung und Installation
- Einsparung von Schaltschrankraum
- Reduzierung der Lagerhaltung durch weniger Antriebsvarianten
- Verbesserung der thermischen Situation im Schaltschrank
- Vermeidung geschirmter Motorzuleitungen

#### In Systemen denken - Anpassungen vermeiden

- Umrichter und Motor in einer kompakten Einheit integriert
- Umrichter werkseitig optimal an Motor und Anwendung angepasst
- Umrüstung von bestehenden Antrieben möglich
- Verkabelung vereinfacht

#### Standards ersetzen - Funktionalitäten steigern

- Ersatz von mechanischen Verstellgetrieben mit komfortabler Fernverstellung
- Ersatz von polumschaltbaren Motoren bei definierten Rampenfunktionen

#### Aufbau

- Kompakte, flache Bauform
- Steckbar mit Motorteil verbunden
- Im Servicefall einfach zu tauschen
- Komplettgerät benötigt keine externe Steuerspannung

#### Anwendungsvorteile

- Anwendungsspezifisch vorkonfiguriert für Plug and Play
- Schlupfkompensation für lastunabhängige Drehzahlkonstanz
- PID-Regler zum Aufbau von Prozessregelungen
- Automatische Anpassung der Taktfrequenz an die Temperatur

### Technische Daten von Eta-K

- Motorleistungsbereich 0,12 .. 7,5 kW
- Anschlussspannung 3 x 380 .. 480 V +/- 10%
- Frequenz 50/60 Hz
- Drehzahl-Stellbereich 1:50
- 160 % des Motornennmoments im gesamten Stellbereich
- Elektrisches Bremsen durch Flux-brake-Verfahren
- Auf Wunsch integrierte Profibusanschaltung anstelle der Standard-Steuerkarte
- CE-Kennzeichnung
- Einhaltung der EMV-Richtlinie für Industrie und Haushalt gemäß EN 61800-3 (EN 50081, EN 50082)
- nach UL-Vorschriften aufgebaut
- Schutzart IP 65 von Motor und Umrichter
- integrierte Schutzeinrichtungen gegen Überlast, Überstrom, Phasenausfall, Über- und Unterspannung
- Thermische Überwachung des Antriebs

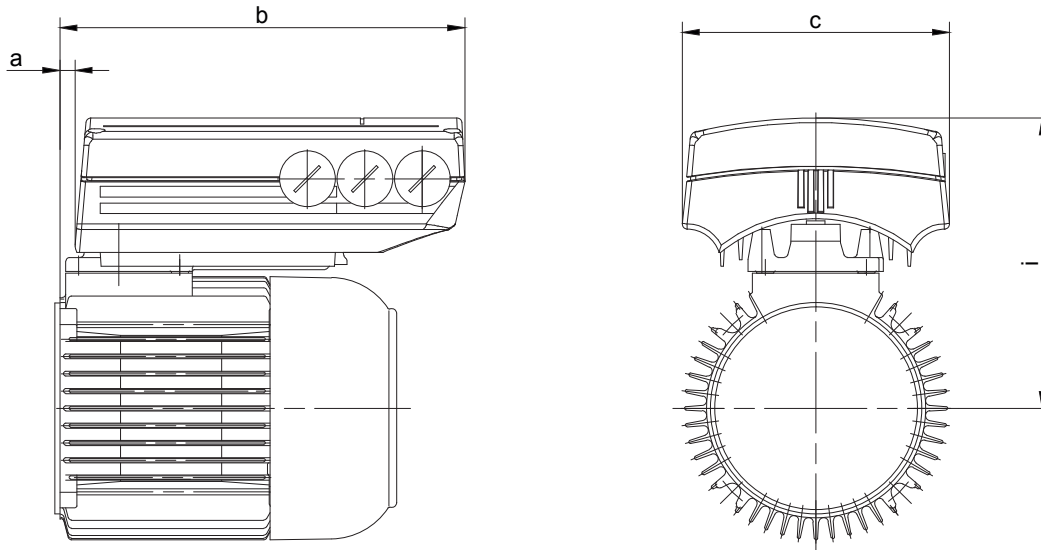


### Zuordnung Eta-K zu Motor

P	Typ	Umrichtertyp 400 V / 50 Hz	Umrichtertyp 400 V / 87 Hz
0,12	D06LA4	K305	K305
0,18	D06LA4	K305	K305
0,25	D06LA4	K305	K305
0,37	D08MA4	K305	K307
0,55	D08MA4	K305	K311
0,75	D08LA4	K307	K315
1,1	D09SA4	K311	K322
1,5	D09LA4	K315	K330
1,8	D09XA4	K322	K340
2,2 *	D09XA4-FV	K322	K340
2,2	D11SA4	K322	K340
3,0	D11MA4	K330	K355
4,0	D11LA4	K340	K375
5,5	D13LA4	K355	-
7,5	D16MA4	K375	-

\* = Motorausführung nur mit Fremdbelüftung FV zulässig

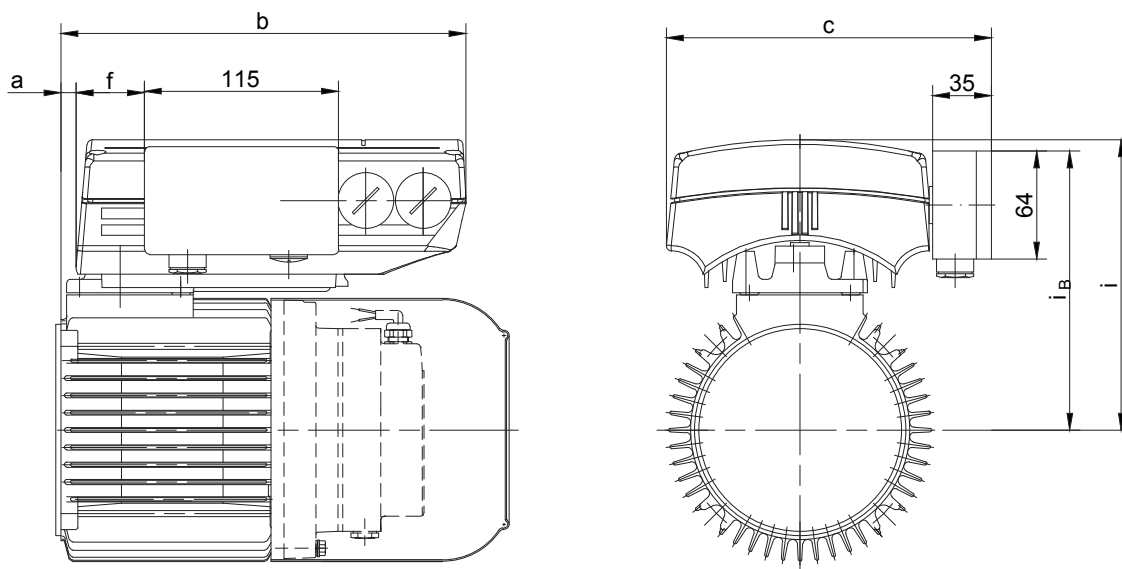
### Maßbild Motoren mit angebautem Eta-K Umrichter



Motor	Typ Eta-K...		Masse (mm)				Kabeleinführung
			a	b	c	i	
D06	K305		12	218	141	148	3xM20x1.5
D..08	K305	K307	8	214	141	166	3xM20x1.5
	K311	K315	9	240	158	174	3xM20x1.5
D..09	K311	K315	5	236	158	202	3xM20x1.5
	K322	K330	2	259	176	212	3xM20x1.5
	K340		1	289	197	228	2xM20x1.5;1xM25x1.5
D..11	K322	K330	3	260	176	223	3xM20x1.5
	K340		2	290	197	245	2xM20x1.5;1xM25x1.5
	K355	K375	4	363	245	257	2xM20x1.5;1xM25x1.5
D..13	K355		7	366	245	278	2xM20x1.5;1xM25x1.5
D..16	K375		8	367	245	304	2xM20x1.5;1xM25x1.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

Maßbild mit angebautem Eta-K Umrichter mit Bremsensteuerung



Motor	Typ Eta-K...		Masse (mm)						Kabeleinführung
			a	b	c	f	i	i <sub>B</sub>	
D06	K305		12	218	180.5	17	148	157	2xM20x1.5
D..08	K305	K307	8	214	180.5	17	166	172	2xM20x1.5
	K311	K315	9	240	198	40	175	170	2xM20x1.5
D..09	K311	K315	5	236	198	40	202	197	2xM20x1.5
	K322	K330	2	259	215	65	212	210	2xM20x1.5
	K340		1	289	236	82	228	218	1xM20x1.5; 1xM25x1.5
D..11	K322	K330	3	260	215	65	223	223	1xM20x1.5
	K340		2	290	236	82	245	235	1xM20x1.5; 1xM25x1.5

Tatsächliche Getriebeausführung kann von der dargestellten Geometrie abweichen.

### Lieferbares Zubehör

Bedienfeld mit Tastatur (LCP2) zur Parametrierung

Das Bedienfeld in Schutzart IP 65 enthält eine 4-zeilige Klartextanzeige für einfachste Bedienung und Parametrierung. Alle Parameter können im Bedienfeld gespeichert und so auch sehr einfach auf andere Umrichter übertragen werden. Das Bedienfeld wird an der seriellen Schnittstelle RS 485 angeschlossen. Für den Anschluss sind 2 Kabelsätze lieferbar:

- Anschlusskabel von LCP auf Klemmleiste des Umrichters
- Anschlusskabel für LCP mit Steckverbinder und Verbindungsstück zu Klemmleiste mit Steckbuchse zum Einbau in Pg 16. Außerdem ist ein Montagesatz inklusive Anschlusskabel zum Einbau des Bedienfelds in eine Schalttafel erhältlich.



Steuerbox (LOP) zur lokalen Bedienung

Zur lokalen Vorgabe der Drehzahl sowie zum Starten und Stoppen des Antriebs kann eine Steuerbox mit Anschlusskabel eingesetzt werden. Durch die programmierbaren Ein-/Ausgänge des Umrichters können mit dieser Steuerbox folgende Funktionen realisiert werden: Start Rechts-, Linkslauf, Stopp, Quittieren, Drehzahl auf, Drehzahl ab.

Sollwertpotentiometer

Zur Drehzahlverstellung direkt am Antrieb kann ein Sollwertpotentiometer direkt in einer PG-Verschraubung des Umrichtergehäuse geliefert werden. Widerstandswert 1 kohm, Drehwinkel 270°, Schutzart IP 52. Diese Version eignet sich besonders zur Ablösung mechanischer Verstellantriebe.



Parametriersoftware

Mit dieser Software können alle Frequenzumrichter vom PC aus parametrierbar, bedient und gesteuert werden. Damit vereinfacht sich die Parametereinstellung, Inbetriebnahme, Diagnose und Dokumentation der Anlagen erheblich. Die Vernetzung von bis zu 126 Umrichtern ist möglich. Stillstandszeiten beim Gerätetausch lassen sich so drastisch reduzieren.

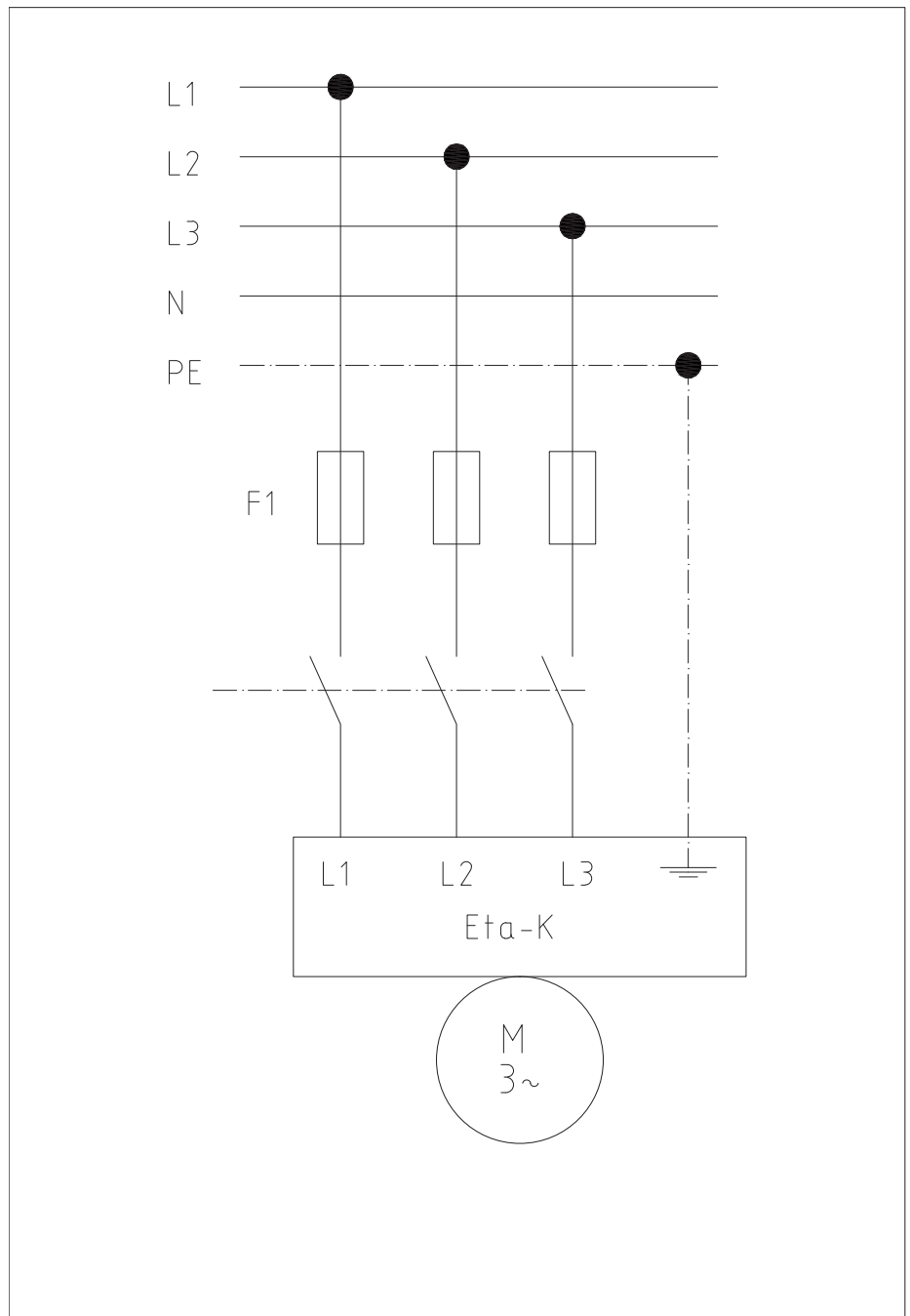
- Grundmodul für komfortables Parametrieren und Testlauf.
- Protokollmodul mit Monitorfunktion für die Inbetriebnahme komplexer Anlagen und Möglichkeit der Modemverbindung.
- Maskierungsmodul zum Erstellen von Ein- und Ausgabemasken mit Passwortschutz.

Versorgung der mechanischen Bremse

Eine mechanische Bremse am Motor kann direkt vom Umrichter angesteuert werden. Der Anschluss erfolgt über einen am Umrichter angebauten zusätzlichen Klemmenkasten. Zusätzlich stehen 2 Ausgangsrelais für die Signale „Eta-K bereit“ sowie „Bremsenfehler“ zur Verfügung.

### Anschlussbilder

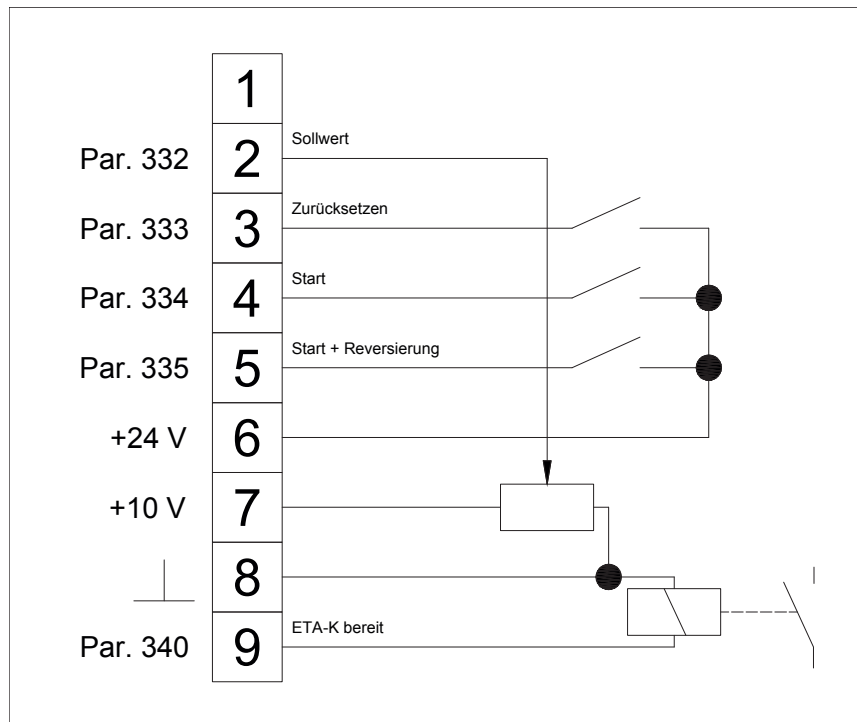
Leistungsteil



Steuerteil

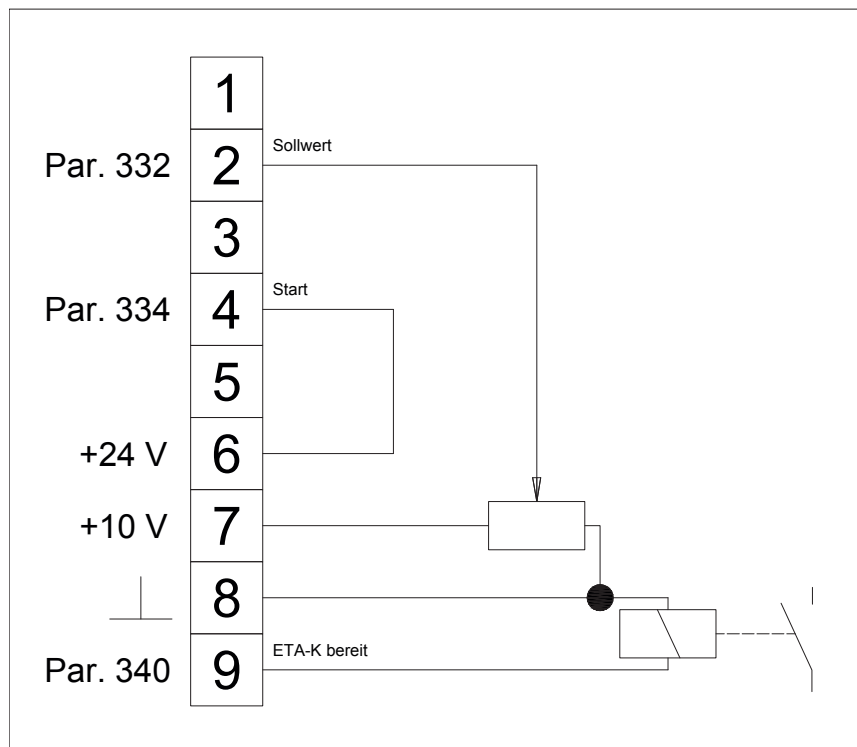
Standard

2 Drehrichtungen, mit analoger Sollwertvorgabe



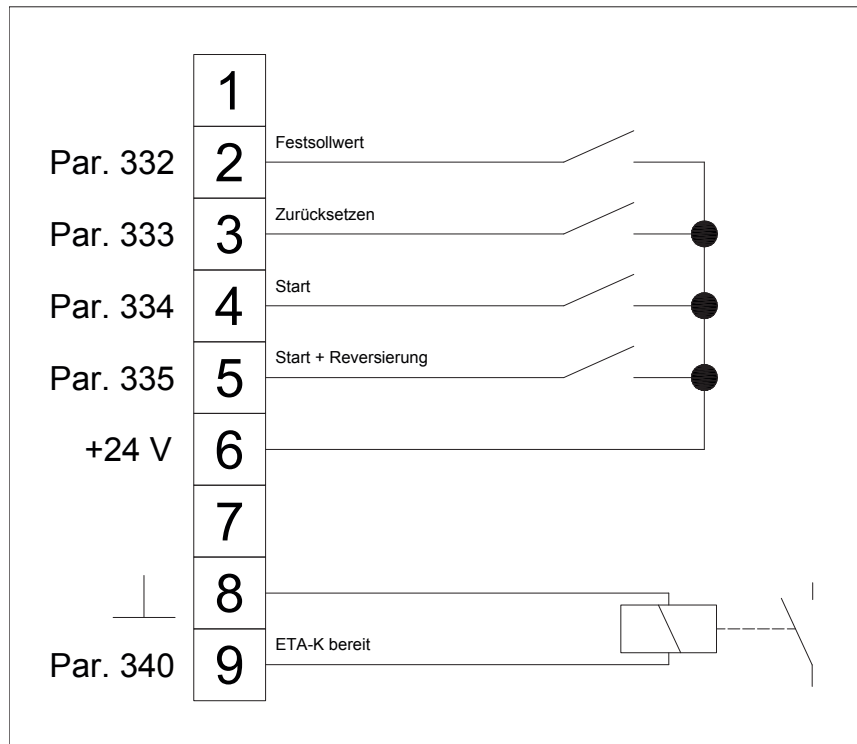
Eine Drehrichtung, mit analoger Sollwertvorgabe.

z. B. als Ersatz von Verstelltriebselektromotoren.



2 Drehzahlen + 2 Drehrichtungen

z. B. als Ersatz von polumschaltbaren Antrieben



### Anbaumöglichkeiten für FCD und Eta-K

#### Reihe BG

KLK-Lage	B3 H4	B6 H1	B7 H2	B8 H3	V5 H5	V6 H6	B5	V1	V3
I	+	o	+	+	+	+	+	+	+
II	+	+	+	o	+	+	+	+	+
III	+	+	o	+	+	+	+	+	+
IV	o	+	+	+	+	+	o	+	+

+ möglich, o gesperrt

#### Reihe BF

KLK-Lage	H1	H2	H3	H4	V1	V2			
I	o	+	+	+	+	+			
II	+	+	o	+	+	+			
III	+	o	+	+	+	+			
IV	+	+	+	o	+	+			

+ möglich, o gesperrt

#### Reihe BK

KLK-Lage	H1	H2	H3	H4	V1	V2			
I	+	+	+	+	o	+			
II	+	o	+	+	+	+			
III	+	+	+	+	+	o			
IV	o	+	+	+	+	+			

+ möglich, o gesperrt

#### Reihe BS

KLK-Lage	H1	H2	H3	H4	V1	V2			
I	+	+	+	+	o	+			
II	+	o	+	+	+	+			
III	+	+	+	+	+	o			
IV	o	+	+	+	+	+			

+ möglich, o gesperrt



### VLT® Micro Drive

#### Kleinstantrieb für Serienanwendungen



#### Technische Daten von VLT® Micro Drive

##### Leistungsbereich:

0,37-7,5 kW (3-phasig 380-480 V)

0,18-2,2 kW (1-phasig 200-240 V)

0,25-3,7 kW (3-phasig 200-240 V)

##### Schutzarten:

IP 20/IP 21

##### Vorteile

- Ca. 40% kleiner als vergleichbare Antriebe
- EMV Filter integriert
- Geschützte Gehäuseausführung
- Abnehmbares Bedienteil mit Kopierfunktion
- Bedienteil mit Sollwert-Potentiometer (Option)
- RS 485 Schnittstelle als Standard
- Einfachste Inbetriebnahme / vorparametriert

### VLT® 2800 Serie

#### Universalumrichter für kleine und mittlere Leistungen



#### Technische Daten der VLT® 2800 Serie

##### Leistungsbereich:

0,55-18,5 kW (3-phasig 380-480 V)

0,37-1,5 kW (1-phasig 200-240 V)

0,37-3,7 kW (3-phasig 200-240 V)

##### Schutzart:

IP 20

##### Vorteile

- EMV Filter und Netzurückwirkdrossel integriert
- Robuster Cold-Plate Kühlkörper
- Seite-an-Seite oder waagrechte Montage möglich
- Großes integriertes Bedienpanel
- RS 485 Schnittstelle als Standard
- Optionale Profibus DPV1 Schnittstelle

### VLT® AutomationDrive

#### Modulare Antriebsplattform mit vollständigem Leistungsspektrum



#### Technische Daten von VLT® AutomationDrive

**Leistungsbereich:**  
0,37-800 kW (3-phasig 380-500 V)  
0,25-37 kW (3-phasig 200-240 V)

**Schutzarten:**  
IP 20/IP 21, IP 55, IP 66

#### Vorteile

- Eine Antriebsplattform für alle Hilfs- und Hauptantriebe
- Modular, dadurch optimal auf die Anwendung abgestimmt
- Sicherheitsfunktionen: Grundgerät mit STO/SIL 2
- EMV Filter und Netzurückwirkdrossel integriert
- Klartext Bedienteil mit Online Hilfe und Kopierfunktion (Option)
- RS 485 und USB Schnittstelle als Standard
- Motorleitungslänge bis 150m geschirmt ohne Zubehör
- Mechanische Brems-/Hubwerksfunktionen
- „Smart Logic“ für einfache Logikaufgaben
- Optionale Feldbus Schnittstellen (Profibus, Profinet, Ethernet/IP, Powerlink, Interbus, Safetybus-p)

### MCT 10 Software

#### Projektorientierte PC Software für alle VLT® Serien



#### Beschreibung der MCT 10 Software

#### Unterstützte VLT Serien:

Eta-K  
FCD 300  
VLT® Micro Drive  
VLT® 2800 Serie  
VLT® 5000 Serie  
VLT® Automation Drive

#### Vorteile

- Übersichtliche Projektverwaltung auch bei umfangreichen Anlagendaten
- Ein Software-Tool für alle VLT® Antriebe
- Online-Bearbeitung für Inbetriebnahmen
- Oszilloskop Funktion
- Unterstützt RS 485, USB und Profibus DPV1 Schnittstellen
- Funktionsfähige Basisversion kostenlos

**Download:**  
[www.danfoss.de/drives](http://www.danfoss.de/drives) (Software)

### MCD Softstarter

MCD 100/MCD 200 Sanftanlaufgeräte zur Schonung der mechanischen Übertragungselemente



### Technische Daten der MCD100 / MCD 200 Softstarter

#### Leistungsbereich:

MCD 100: 1,1 – 11 kW (200-600 V)

MCD 200: 7,5 - 110 kW (200-575 V)

#### Schutzarten:

IP 20/IP 21

#### Vorteile MCD 100

- Minimaler Platzbedarf
- Hutschienenmontage
- Einfachste Handhabung

#### Vorteile MCD 200

- Motorschutzfunktionen
- Externes Bedienteil (Option)
- Feldbusschnittstellen (Option)

### Weitere Informationen

Detailliertere Informationen zu VLT® Frequenzumrichtern und MCD Softstartern können Sie online unter:

[www.danfoss.de/drives](http://www.danfoss.de/drives)

abrufen.

Gerne schicken wir Ihnen auch weitere Projektierungsunterlagen zu diesen Produkten zu.



# 18



**Seite**

---

## **Adressen**

**649-658**

**Auslandsvertretungen  
Bauer Gear Centre Deutschland  
Partnerfirmen Deutschland  
Vertragswerkstätten Deutschland**

---

	<b>Bauer Gear Motor GmbH</b>	<b>Eberhard-Bauer-Strasse 36-60 73734 Esslingen</b>	<b>Postfach 10 02 08 73726 Esslingen</b>	<b>Phone Fax</b>	<b>+711 3518 0 +711 3518 381</b>	<b>info@bauergears.com www.bauergears.com</b>
<b>Argentina</b>	Equitecnica S.A. Buenos Aires	Sanchez De Loria 1852/54 C 1241 ACI Buenos Aires		Phone Fax	+54 11 49 12 45 90 +54 11 49 12 70 28	drivers@equitecnica.com.ar
<b>Australia</b>	Transmission Australia Pty Ltd	22 Corporate Ave VIC 3178 Rowville	P.O. Box 2334	Phone Fax	+61 3 97 55 44 44 +61 3 97 55 44 11	Info@transaus.com.au
<b>Austria</b>	Bauer Gear Motor Europe GmbH	Danfoss-Strasse 8 2353 Guntramsdorf		Phone Fax	+43 22 36 50 40 +43 22 36 50 40 35	info.at@bauergears.com
<b>Austria</b>	BIS Chemserv GmbH	Haimingerst. 1 D-84489 Burghausen		Phone Fax	+49 867 797 75 07 +49 867 797 75 10	j.hoefelmeier@chemserv.co.at
<b>Austria</b>	BIS Chemserv GmbH	Bau 28 St. Peter-Str. 25 4021 Linz	Postfach 7 50 4021 Linz	Phone Fax	+43 732 69 17 22 78 +43 732 69 17 33 22	service@chemserv.at
<b>Austria</b>	ESKO Elektro- maschinenbau GmbH	Ankerweg 8 8753 Fohnsdord		Phone Fax	+43 3573 2 75 70 +43 3573 2 75 70 4	office@esko.at
<b>Austria</b>	Mangold Elektro- maschinenbau GmbH	Holzriedstr. 33 6960 Wolfurt		Phone Fax	+43 5574 6 70 72-0 +43 5574 6 40 72-9	info@mangoldgmbh.at
<b>Belarus</b>	Energopro	prospekt Nezavisimosti, 169 220114 Minsk		Phone Fax	+375 172 18 11 77	inverter@energopro.by
<b>Belgium</b>	Bauer Gear Motor Europe GmbH	p/a EEBIC bedrijventrum Joseph Wybranlaan 40 1070 Brussel (Anderlecht)		Phone Fax	+32 2 529 59 41 +32 2 529 59 44	Info.be@bauergears.com
<b>Belgium</b>	EMR Gent Belgium n.v. EMR s.a	Voorhavenlaan 22b 9000 Gent		Phone Fax	+32 9 2 51 59 56 +32 9 2 51 58 91	emr@nvemr.be
<b>Brazil</b>	MKN Acionamentos LTDA	Rua Marco Gagliano 264 Americópolis 04412-120 São Paulo-SP		Phone Fax	+55 11 56 21 55 74 +55 11 56 21 14 06	mkn.aciona@terra.com.br
<b>Bulgaria</b>	NASA - D Ltd.	kv. Mladost IV bl.602, vh.1 (In front of Business Park Sofia) 1715 Sofia		Phone Fax	+359 2 975 50 65 +359 2 975 50 67	office@nasa-d.com
<b>Bulgaria</b>	NASA - D Ltd.	12, Bitolya str. 9002 Varna		Phone Fax	+359 52 60 59 95 +359 52 60 04 98	varna@nasa-d.com
<b>Canada</b>	Bauer MLD	4020B Sladeview Cres., Unit 5 Mississauga Ontario L5L 6B1		Phone Fax	+1 905 814 51 52 +1 905 814 51 53	
<b>Chile</b>	Jung y Cia LTDA	Huerfanos 757 Of 310 14478 Casilla		Phone Fax	+ 56 2638 37 31	jung@jung.cl
<b>China</b>	Motion (ShenZhen) Co., Ltd Beijing Branch Company	Central International Trade Center, Suite No. 1802 Tower D, No. 6A Jianguomenwai Avenue Chaoyang District 100022 Beijing		Phone Fax	+86 10 85 67 94 88 +86 10 85 67 90 58	dewen.yang@bauergears.vom.cn
<b>China Shanghai</b>	Altra Industrial Motion (ShenZhen) Co., Ltd. Shanghai Branch Company	Suite 703, Universal Mansion 168 Yuyuan Road Shanghai, China - 200040		Phone Fax	+86 21 51 69 92 55 +86 21 62 48 53 87	Yang.Yang@bauergears.com.cn
<b>China Shanghai</b>	Shanghai Jinxin Inverter Company	No.248-5, Xinshi Road 200083 Shanghai		Phone Fax	+86 21 56 63 51 23 +86 21 65 60 04 54	xuzujie@sinodrive.com
<b>Colombia</b>	Transmisiones LTDA.	Cra. 69 B No. 21 A-24 Parque Industrial 77158 Bogota		Phone Fax	+57 1 412 68 98 +57 1 292 97 37	carlospaz@transmisiones.de www.transmisiones.de
<b>Croatia</b>	Pogonska Tehnika d.o.o.	Horvatovac 94 1000 Zagreb		Phone Fax	+385 1 46 80 174 +385 1 46 80 271	pogonska.tehnika@zg.t-com.hr
<b>Czech Republic</b>	Bauer Gear Motor Europe GmbH	V parku 2316/12 148 00 Praha 4 - Chodov		Phone Fax	+420 2 83 01 41 11 +420 2 83 01 41 23	info.cz@bauergears.com
<b>Czech Republic</b>	Jan Koárek-HMF	Sturova 15 415 02 Peplice		Phone Fax	+420 417 56 44 56 +420 417 56 56 88	tomas.abraham@navijama-hmf. cz
<b>Czech Republic</b>	IHR Technika s.r.o.	Boleslavská 902 29306 Kosmonosy		Phone Fax	+420 326 72 27 16 +420 326 32 01 19	indo@ihr-tech.cz
<b>Czech Republic</b>	Huber CS s.r.o.	Cihlarska 19 602 00 Brno		Phone Fax	+420 541 21 56 35 +420 541 21 68 35	doskocil@hubercs.cz

<b>Denmark</b>	Bauer Gear Motor Europe GmbH	Jegstrupvej 3 8361 Hasselager		Phone Fax	+45 89 48 91 11 +45 89 48 93 11	info.dk@bauergears.com
<b>Denmark</b>	Horsens Elektro Service I/S	Egebjergvej 4 8700 Horsens		Phone Fax	+45 75 62 62 44 +45 75 62 62 24	h-e-s@mail.tele.dk
<b>Denmark</b>	Alestrup Electro	Testrupvej 7 9620 Aalestrup		Phone Fax	+45 98 64 12 33	estrupelektro.dk
<b>Denmark</b>	JW Industri	Smedevej 7 7430 Ikast		Phone Fax	+45 97 25 15 16	info@jwelektro.dk
<b>Denmark</b>	Electro Care ApS	Rentemestervej 56c 2400 Copenhagen NV		Phone Fax	+45 38 34 60 10 +45 38 34 60 17	kbh@electrocare.dk
<b>Denmark</b>	Electro Care ApS	Asebro 68 3300 Frederiksvaerk		Phone Fax	+45 47 77 01 22	frv@electrocare.dk
<b>Denmark</b>	PN Electro ApS	Ostre Allé 4200 Slagelse		Phone Fax	+45 58 53 30 60	ta@pn-elektro.dk
<b>Denmark</b>	Glenco A/S	Blytaekkervej 3-5 9000 Aalborg		Phone Fax	+45 70 23 16 00	crk@glenco.dk
<b>Ecuador</b>	Transmisiones & Servicios S.A.C.	Via a Daule KM 6.5		Phone Fax	+59 34 25 43 00 +59 34 25 49 39	controles@maquinarias-henriques.com
<b>Ecuador</b>	Maquinarias Henriques Guayaques	Via a Daule KM 6.5 Guayaquil		Phone Fax	+59 34 25 43 00 +59 34 25 49 39	controles@maquinarias-henriques.com
<b>Egypt</b>	Universal Est.		P.O. Box 101 - Zamalek Cairo	Phone Fax	+20 2 33 81 36 96 +20 2 33 81 36 99	m.zohni@uniest.com
<b>Estonia</b>	Laagri-Ja Tihendikeskus Oü	Laki 17 12915 Tallinn		Phone Fax	+372 653 01 65 +372 653 01 66	laager@laager.ee
<b>Finland</b>	Bauer Gear Motor Finland Oy Ab	Yrittäjänkuja 3, 01800 Klaukkala		Phone Fax	+358 9 4764 70 00 +358 9 4764 70 44	info.fi@bauergears.com
<b>France</b>	Bauer Gear Motor Europe GmbH	Succursale France Hall C 46, avenue des Frères Lumière 78190 Trappes		Phone Phone Fax	+33 1 30 13 73 71 +33 1 30 13 17 11 +33 1 30 13 20 88	info.fr@bauergears.com
<b>France</b>	Petit	Zone industrielle de Bruèges Nord 310 Avenue Monge 30100 Ales (Sud-Est)		Phone Fax	+33 466 30 68 22 +33 466 30 59 85	oliver.lionel@etspetit.com
<b>France</b>	Secco	161 Avenue Roger Salengro 69120 Vaulx en-Velin (Rhone-Alpes)		Phone Fax	+33 47 237 51 31 +33 47 826 99 04	secco@wanadoo.fr
<b>France</b>	FAEP	135 rue du Général de Gaulle 13510 Eguilles		Phone Fax	+33 4 42 92 50 39 +33 4 42 92 39 17	faep@wanadoo.fr
<b>France</b>	Amremm	1 rue Auguste Renoir 93600 Aulnay sous bois (Region parisienne)		Phone Fax	+33 960 53 87 66 +33 148 61 80 23	amremm@orange.fr
<b>France</b>	Avenel	1, rue Lucien Fromage BP 1 76160 Darnetal (Nord- Quest/Normandie)		Phone Fax	+33 23 508 53 53 +33 23 508 56 08	info@avenel.fr
<b>France</b>	Diceep	17-19 Route National 54 280 Nancy-Laneuvelette (Nord-Est)		Phone Fax	+33 3 83 29 03 43 +33 3 83 21 43 13	diceep@diceep.fr
<b>Germany</b>	Bauer Gear Motor GmbH	Eberhard-Bauer-Strasse 36-60 73734 Esslingen	Postfach 10 02 08 73726 Esslingen	Phone Fax	+49 711 3518 0 +49 711 3518 381	info.de@bauergears.com www.bauergears.com
<b>Great Britain</b>	Bauer Gear Motor Limited	Unit 1 Nat Lane Business Park Winsford, Cheshire CW7 3BS		Phone Fax	+44 1606 86 86 00 +44 1606 86 86 03	info.uk@bauergears.com
<b>Greece</b>	Drivetech e.p.e.	Chrysostomou Smyrnis 124 18345 Moschato		Phone Fax	+30 210 723 33 18 +30 210 723 33 57	info@drivetech.gr
<b>Guatemala</b>	Juan Niemann & Cia. Ltda.	Apartado Postal 290 C / Mariscal Cruz 10-69, Zona 5 Guatemala Ciudad, C.A.		Phone Fax	+502 331 54 54 +502 334 74 53	jcnemann@jcnemann.com
<b>Hong Kong</b>	A-CALL Company	Flat 8A, 8th Floor Wing Cheong Industrial Building 109 How Ming Street		Phone Fax	+852 27 93 02 50 +852 27 93 06 20	

<b>Hungary</b>	BC Ongroelektro. Kft.	Bolyai tér 1. 3702 Kazincgarcika (East Hungary)	Phone Fax	+36 48 51 11 86 +36 48 71 27 71	toth.tibor@borsodchem.hu
<b>Hungary</b>	Schoch Hungaria Ltd.	Industrial Site, Gyari Street 1 3580 Tiszaujvaros	P.O. box 85 3580 Tiszaujvaros	Phone Fax	+36 49 44 08 77 +36 49 44 08 77 info@schochhungaria.hu www.schochhungaria.hu
<b>India</b>	International Combustion (India) Ltd.	Infinity Benchmark, 11 <sup>th</sup> Floor, Plot- G1, Block - EP & GP, Salt Lake Electronics Complex, Kolkata - 700 091.	Phone Fax	+91 33 33 15 30 00 +91 33 23 57 66 53	info@internationalcombustion.in
<b>Indonesia</b>	PT. Cahaya Mekar Sejati	Jl. Agung Utara Raya Blok A36 D/ 46 Jakarta 14350	Phone Fax	+62 21 640 18 03 +62 21 64 71 50 82	cahkarti@cbn.net.id
<b>Iran</b> Kontakt Inland	Sherlock GmbH Deutschland	Rostockerstrasse 19 65191 Wiesbaden	Phone Fax	+49 611 18 95 00 +49 611 18 95 01 8	
<b>Israel</b>	I.Ettner - Representations Ltd.	17, Mazal Dli St. Hod Hasharon 45309 Tel-Aviv 69086	Phone Fax	+972 0 9 745 35 52 +972 0 9 745 25 54	israel@ettner.co.il
<b>Italy</b>	Bauer Gear Motor Europe GmbH	Via Kennedy 43 36040 Grisignano di Zocco (VI)	Phone Fax	+39 (0444) 41 43 92 +39 (0444) 41 43 84	Info.
<b>Italy</b>	Ma.In s.n.c.	Via Pola, 8 10135 Torino	Phone Fax	+39 (011) 347 33 25 +39 (011) 391 33 56	
<b>Italy</b>	Elettromeccanica Volta Srl	Via Leucaspide, 10240 74010 Statte TA	Phone Fax	+39 099 474 02 64 +39 099 474 02 64	
<b>Italy</b>	Reima Sud	Via Naz. le delle Puglie Contrada Salice, 11 80021 Afragola (Napoli)	Phone Fax	+39 (081) 851 23 82 +39 (081) 851 00 66	
<b>Japan</b>	Leybold Co., Ltd.	5th Floor, Tokyo Tatemono Bldg. 1-9-9, Yaesu 1-Chome, Chuo-Ku 103-0028 Tokyo	Phone Fax	+81 3 32 72 18 61 +81 3 32 81 44 90	koki@leybold-kk.com
<b>Korea</b>	Chemiko Trading Co. Ltd.	Chung Rok Bldg, 721-29 Yeoksam - Dong, Kangnam-Gu Seoul	Phone Fax	+82 2 567 53 36 +82 2 554 12 84	chemiko@chol.com
<b>Korea</b>	Chemiko Trading Co. Ltd.	Rm 1612, Namwoon Officetel, 229-10, Mooguh-Dong Nam-Gu Ulsan	Phone Fax	+82 52 277 21 07 +82 52 247 21 95	chemiko@choillian.net
<b>Latvia</b>	SIA Generis	Skanstes 13 LV1013 Riga	Phone Fax	+371 67 80 50 76 +371 67 80 50 93	info@vlt.lv
<b>Lithuania</b>	Dotronika UAB	Smolensko 6 03201 Vilnius	Phone Fax	+370 52 10 57 42 +370 52 05 19 67	dainius@dotronika.lt
<b>Malaysia</b>	Greenvi Technologies (M) Sdn Bhd Industrial Automation	No.64-02, Jalan Molek 2/2 Taman Molek 81100 Johor Bahru Johor	Phone Fax	+60 7 354 30 06 +60 7 354 20 06	bpchin@greenvitech.com
<b>Mexico</b>	Mexpump S. A. de C.V.	Calle 1. No. 7 Manzana1, Colonia Ampliacion Guadalupe Proletraria 07670 Mexico City, D.F.	Phone Fax	+52 24 51 77 63 +52 24 51 77 64	
<b>Mexico</b>	Tecnoseal S.A. de C. V.	Calle 19, No.31 Col. Pro-Hogar C.P. 02600 Mexico City, D. F.	Phone Fax	+52 55 55 56 28 43 +52 55 53 55 43 89	tecnosel@prodigy.net.mx
<b>Montenegro</b>	Indas Industry Assistance d.o.o.	Heroja Pinkija 95 YU-21000 Novi Sad	Phone Fax	+381 21 480 48 00 +381 21 480 48 08	office@indas.rs
<b>Netherlands</b>	Bauer Gear Motor Europe GmbH	p/a EEBIC bedrijventrum Joseph Wybranlaan 40 1070 Brussel (Anderlecht)	Phone Fax	+32 2 529 59 42 +32 475 32 28 47	Info.be@bauergears.com
<b>Netherlands</b>	De Bruyn B.V. Power Repairs	Van Konijnenburgweg 105 4612 PL Bergen op Zoom	Phone Fax	+31 164 23 43 02 +31 164 25 51 40	repair@de-bruyn.nl
<b>Netherlands</b>	Gekas & Boot Zaanstad b.v.	Grote Tocht 25 1507 CG Zaandam	Phone Fax	+31 75 670 19 01 +31 75 616 51 62	zaanstad@gekassenboot.nl
<b>Netherlands</b>	Gekas & Boot Noord b.v.	Holepolder 1 9902 SN Appingedam	Phone Fax	+31 50 318 73 74 +31 50 318 73 37	groningen@gekassenboot.nl



<b>Netherlands</b>	Gekas & Boot Zuid b.v.	Pannenweg 208 6031 RK Nederweert		Phone Fax	+31 495 63 41 41 +31 495 63 27 03	nederweert@gekassenboot.nl
<b>Netherlands</b>	Gekas & Boot Noord b.v.	Osnabrückstraat 22 7418 BN Deventer		Phone Fax	+31 570 60 87 66 +31 570 62 09 61	deventer@gekassenboot.nl
<b>Norway</b>	Bauer Gearmotorer AS	Vestvollveien 10 2019 Skedsmokorset	Postboks 221 2021 Skedsmo- korset	Phone Fax	+47 63 87 59 50 +47 63 87 59 60	bauergear@bauergear.no
<b>Peru</b>	Transmisiones & Servicios S.A.C.	Alcanfores 981. of 601. 18 Miraflores - Lima		Phone Fax	+51 1 242 08 62 +51 1 242 08 62 21	www.transmisiones.pe
<b>Philippines</b>	Optima Equipment Corporation	Unit 1905 Cityland Herrera Tower Valero St. Cor. V. A. Rufino St. 1227 Salcedo Village, Makati City		Phone Fax	+63 2 817 31 35 +63 2 817 31 19	vandel@optima-equipment.com
<b>Poland</b>	Steinlen Polska Sp. z o.o.	ul. W. Grabskiego 4/8 63-500 Ostrzeszów		Phone Fax	+48 62 732 23 52 +48 62 732 23 51	biuro@steinlenpolska.pl
<b>Russia</b>	NPF Inger	423800 Naberezhnye Chelny, BSI		Phone Fax	+7 85 52 77 83 00	info@inger.ru
<b>Russia</b>	SP Reduktor	Perovskoe st, 21 Moscow		Phone Fax	+7 495 258 54 60 +7 495 258 54 60	derevitskiy a@privod.ru
<b>Russia</b>	Uraltehmarket	Serafima Deryabninoy st., 24 20149 Ekaterinburg		Phone Fax	+7 343 380 51 41 +7 343 380 51 41	info@uraltm.ru
<b>Russia</b>	Uralteplopribor	Elkina st., 14 455016 Magnitogorsk		Phone Fax	+7 3519 48 96 33 +7 3519 48 96 33	smv_utp@mail.ru
<b>Russia</b>	Tet-RS	Borisa Bogatkova st., 63 630008 Novosibirsk		Phone Fax	+7 383 213 55 21 +7 383 266 33 26	koroleva@tet-rs.ru
<b>Russia</b>	Pribor-Service	Uchebnaya st, 90 644010 Omsk		Phone Fax	+7 3812 53 45 98 +7 3812 53 45 98	info@pribor-servis.ru
<b>Russia</b>	Epos Plus	Turgenevskaya st., 72 344002 Rostov-na-Donu		Phone Fax	+7 863 262 35 70 +7 863 262 35 70	ermakova@epos-plus.ru
<b>Russia</b>	S-Tek	Karl Marks st, 29a 443082 Samara		Phone Fax	+7 846 279 04 79 +7 846 279 04 79	Danfoss.BAUER@s-tec.ru
<b>Russia</b>	Stek-Master	Kosmonavtov st. 39 B 420061 Kazan		Phone Fax	+7 843 279 64 68 +7 843 279 64 68	master@stekmaster.ru
<b>Russia</b>	Privod Service	Nikitina st., 20 634062 Tomsk		Phone Fax	+7 3822 53 53 47 +7 3822 53 53 47	privodservice@bk.ru
<b>Serbia &amp; Montenegro</b>	Indas Industry Assistance d.o.o.	Heroja Pinkija 95 YU-21000 Novi Sad		Phone Fax	+381 21 480 48 00 +381 21 480 48 08	office@indias.co.yu www.indias.co.yu
<b>Singapore</b>	AVM Diesel (F. E.) PTE	BLK 27 TUAS AVE 13 #01-23 Singapore 638993		Phone Fax	+65 68 63 69 33 +65 68 63 69 00	sales@avmdiesel.com www.avmdiesel.com
<b>Slovakia</b>	Bauer Gear Motor s.r.o	Tovarenská 953 01 Zlate Moravce		Phone Fax	+421 37 6 92 61 00 +421 37 6 92 61 81	www.bauergears.com
<b>Slovakia</b>	Transmisie Engineering a.s.	P. Mudrona 10 03601 Martin		Phone Fax	+421 37 64 06 294 +421 37 64 06 291	dps@transmisie.sk www.transmisie.sk
<b>Slovenia</b>	TALER ING d.o.o.	Jelovška cesta 43A 4264 Bohinjska Bistrica		Phone Fax	+386 4 574 71 28 +386 4 574 71 29	info@talering.si
<b>South Africa</b>	Bauer a Division of Hudaco Trading (Pty) Ltd.	72 Acacia Road 1401 Primrose	P.O. Box 19007 Fisher's Hill 1408	Phone Fax	+27 11 828 97 15 +27 11 822 41 35	johnB@gbauer.co.za
<b>Spain</b>	Bauer Gear Motor Europe GmbH	Duquesas, 14 - bajo 28341 Valdemoro (Madrid)		Phone Fax	+34 91 801 83 40 +34 91 808 27 58	Info.es@bauergears.com
<b>Spain</b>	Santos Maquinaria Electrica, S.L.	Pol. Ind. Los Olivos Sindicalismo, 13-15 28906 Getafe (Madrid)		Phone Fax	+34 91 468 35 00 +34 91 467 06 45	comercial@santosmaquinaria.es
<b>Spain</b>	Baurroll S.A.	Rafael Pikabea, 15 bajo 20180 Oiartzun (Guipúzcoa)		Phone Fax	+34 943 49 11 28 +34 973 49 42 27	baurroll@baurroll.com
<b>Spain</b>	Motronic Service s.a.	Avgda. Castell de Barberà 16 Pol. Ind. Santiga 08210 Barberà del Vallès (Barcelona)		Phone Fax	+34 937 19 29 20 +34 937 19 29 21	motronic@motronic.es
<b>Spain</b>	Matinso s.l.	Pol. Ind. Horta Vella c/ 3, n° 13 46117 Betera (Valencia)		Phone Fax	+34 96 313 20 39 +34 96 160 07 69	admin@matinso.es
<b>Sri Lanka</b>	Southern Automation Systems (Pvt) Ltd.	593 Maranda Road Colombo 10		Phone Fax	+94 115 343 190 +94 115 343 191	sas@saslanka.com web: www.saslanka.com

<b>Sweden</b>	Bauer Gearmotorer AS	Skårs Led 3 412 63 Göteborg	Phone Fax	+46 31 703 71 65 +46 31 703 71 64	postmaster@bauergear.net
<b>Sweden</b>	AB Carl A. Nilssons	Industrigatan 60 25229 Helsingborg	Phone Fax	+46 42 18 00 85 +46 42 13 65 92	info@carlanilsson.se
<b>Switzerland</b>	Meier + Co AG Antriebstechnik	Oltnerstrasse 92 5013 Niedergösgen	Phone Fax	+41 62 858 67 00 +41 62 858 67 11	info@meico.ch
<b>Switzerland</b>	Electro Müller AG	Bözingenstrasse 37 2500 Biel	Phone Fax	+41 32 344 10 10 +41 32 344 10 19	info@electromueller.ch
<b>Taiwan</b>	Saturn Power Ltd.	9F, No. 69-5, Sec. 2 Chung Cheng E. Rd. Tanshui District 105 New Taipei City	Phone Fax	+886 2 28 09 58 90 +886 2 28 09 67 70	service@saturnpowerltd.com
<b>Thailand</b>	Kasetphand Industry Co.,LTD	100 m. 3 SOI Suksawad 76 Suksawad rd. Bangjark, Phrapradaeng 10130 Samutprakarn	Phone Fax	+66 28 17 64 10 +66 28 17 64 37	sakchai_engineer@hotmail.com
<b>Turkey</b>	CEFIP - Makina & Endüstriyel	Ürünler San.ve Dis Tic. Ltd. Sti. Perpa Ticaret Merkezi A Blok Kat: 2 No: 9-0033 34384 Okmeydani - Istanbul	Phone Fax	+90 212 210 18 90 +90 212 210 15 97	cefip@cefip.com.tr
<b>Turkey</b>	Senka Enerji Sanayi ve Ticaret Ltd Sti	Kara Hasan Atli Is Merkezi Sok. No: 1203/11 Kat.: 4/419 Yenisehir / Izmir	Phone Fax	+90 232 4 69 55 55 +90 232 4 33 43 71	senka@senka.org
<b>Ukraine</b>	AIDAR	Ilichavenue 46 83003 Donetsk	Phone Fax	+38 062 345 55 11 +38 062 34526 06	sa@aidar.in.ua
<b>Ukraine</b>	Pryvid Plus LLC	Krasnopolskaya str. 9, of.434 49000 Dnepropetrovsk	Phone Fax	+38 056 763 77 01	ot@privod-plus.com.ua
<b>Ukraine</b>	CHP Rychko	Artelnaya str, 10 49081 Dnepropetrovsk	Phone Fax	+38 067 565 44 20	seg_64@ua.fm
<b>Ukraine</b>	Comfort Group	Bykova str., 16 50036 Krivoy Rog	Phone Fax	+38 050 321 89 98	dir@komfortgroup.com.ua
<b>Ukraine</b>	Leko Trade	Akademicheskaya str, 6/1 83037 Donetsk	Phone Fax	+38 062 63 39 05	leko_trade@bk.ru
<b>Ukraine</b>	Service - Avtomatika	Peremogi st, 56 04080 Kiev	Phone Fax	+38 044 332 54 23 +38 044 223 09 13	avtomatika@ukr.net
<b>Ukraine</b>	ZEVS	Elektrikov str. 26 04040 Kiev	Phone Fax	+38 044 498 07 82	yarik100@gmail.com
<b>Ukraine</b>	Fedama	Dragomannova str., 48 79005 Lvov	Phone Fax	+38 032 244 55 60	fedama@lviv.farlep.net
<b>Ukraine</b>	Nadezhda	Lenina st, 47 61103 Kharkov	Phone Fax	+38 057 717 76 98	Nadezhda@ilt.kharkov.ua
<b>United Arab Emirates</b>	Dubai Drydocks Afloat Repair Division	P.O. BOX 8988	Phone Fax	+97 1 43 45 13 53 +97 1 43 45 01 16	drydocks@drydocks.gov.ae
<b>Uruguay</b>	Tradinter S.R.L	Pereira de la luz 1327 11300 Montevideo	Phone Fax	+598 2 622 11 30 +598 2 628 46 91	
<b>USA</b>	Bauer Gear Motor LLC.	31, Schoolhouse Rd. Somerset, N.J. 08873-1212	Phone Fax	+1 732 469 87 70 +1 732 469 87 73	bauer.us@bauergears.com
<b>Venezuela</b>	EMOTEC S. A.,	Calle Johann Schafer, Edif.FHT, Piso 1, Oficina 1, Urb. Buena Vista, Caracas-Venezuela Urb. Sabana Grande Caracas	Phone Fax	+58 212 271 52 61 +58 212271 18 38	ventas@emotecs.com
<b>Vietnam</b>	GNN CO., LTD	33 Hoa hong2, W.2 Phu Nhuan District	Phone Fax	+84 8 35 18 49 23 +84 8 35 17 49 24	



<b>30938</b>	Burgwedel	Ehlbeck 21	<b>Steinlen Elektromaschinenbau GmbH</b>	Phone Fax	05139-8070-0 05139-8070-60	info@steinlen.de www.steinlen.de
<b>40223</b>	Düsseldorf	Martinstrasse 38-42	<b>Scheib Elektrotechnik GmbH</b>	Phone Fax	0211-90148-10 0211-90148-11	www.scheib-gmbh.de
<b>67065</b>	Ludwigshafen	August-Heller-Strasse 3	<b>Klebs + Hartmann GmbH &amp; Co. KG</b>	Phone Fax	0621-57900-0 0621-57900-24	www.klebs-hartmann.de
<b>72631</b>	Aichtal	Gutenbergstrasse 5	<b>Elektrotechnik + Automation Ulrich Brodbeck GmbH</b>	Phone Fax	07127-9583-0 07127-9583-17	www.elektrotechnik-automation. de

<b>06493</b>	Ballenstedt	Grüne Strasse 64	<b>Digi Table GmbH Technisches Büro Ballenstedt</b>	Phone Fax	039483-536-39 039483-536-49	www.digitable.de
<b>06886</b>	Lutherstadt- Wittenberg	Heuweg 1	<b>Digi Table GmbH Zentrale Wittenberg</b>	Phone Fax	03491-6146-0 03491-6146-31	www.digitable.de
<b>08060</b>	Zwickau	Herschelstrasse 13	<b>Gützold Elektrotechnik GmbH</b>	Phone Fax	0375-2040550 0375-2040551	www.guetzold.com
<b>48308</b>	Senden	Bahnhofstrasse 81	<b>Th. Niehues GmbH</b>	Phone Fax	02536-990-01 02536-990-19	www.niehues.com
<b>49134</b>	Wallenhorst	Otto-Lilienthal-Strasse1	<b>Elektro-Anlagen-Technik EAT GmbH</b>	Phone Fax	05407-8173-20 05407-8173-29	www.eatechnik.de
<b>49429</b>	Visbek	Schneiderkruger Strasse 12	<b>Schulz Systemtechnik GmbH</b>	Phone Fax	04445-897-0 04445-7122	www.schulz-systemtechnik.com
<b>63069</b>	Offenbach	Spredlinger Landstrasse 180	<b>Bühler &amp; Sell Elektro-Motoren KG</b>	Phone Fax	069-423076 069-423078	www.buehler-sell.de
<b>76547</b>	Sinzheim	Am Markbach 2	<b>Dipl. Ing. Kögel &amp; Ernst &amp; Co. GmbH</b>	Phone Fax	07221-5095-0 07221-61330	www.koegel-ernst.de
<b>88046</b>	Friedrichshafen	Lindauer Strasse 116	<b>Mangold Elektromaschinenbau GmbH</b>	Phone Fax	07541-5006-0 07541-5006-30	www.mangold-fn.de
<b>93354</b>	Siegenburg	Gewerbegebiet Egelsee 15	<b>EMS Elektro-Motoren GmbH</b>	Phone Fax	09444-976-0 09444-976-177	www.ems-elektromotoren.de
<b>94234</b>	Viechtach	Prof. H.-Staudinger-Strasse 4	<b>UAS Meßtechnik GmbH</b>	Phone Fax	09942-9486-0 09942-9486-10	www.uas.de
<b>97076</b>	Würzburg	Nürnberger Strasse 109	<b>Beck Elektrotechnik GmbH</b>	Phone Fax	0931-2005-0 0931-2005-200	www.beck-elektrotechnik.de

<b>01468</b>	Boxdorf	Ringstrasse 18	<b>Motoren Franke GmbH Inh. Gerhard Glaser</b>	Phone Fax	0351-20768-0 0351-20768-29	www.motoren-franke.de
<b>04249</b>	Leipzig	Kunzestrasse 20	<b>Polzin Elektromaschinenbau</b>	Phone Fax	0341-4250-107 0341-4250-108	www.polzin-elektromaschinenbau.de
<b>08371</b>	Glauchau	Auestrasse 36	<b>Jens &amp; Uwe Rülke GbR</b>	Phone Fax	03763-5089-0 03763-5632	www.ruelke-glauchau.de
<b>10555</b>	Berlin	Alt-Moabit 73	<b>Schmidtsdorff Elektromotoren</b>	Phone Phone Fax	030-391-1011 030-391-7011 030-391-9913	www.schmidtsdorff-elektromotoren.de
<b>22111</b>	Hamburg	Am Schiffbeker Berg 18	<b>Gebrüder Wittmann GmbH Elektromotoren</b>	Phone Fax	040-732-0307 040-732-2228	www.gebr-wittmann.de
<b>24941</b>	Flensburg	Graf Zeppelin Strasse 5	<b>Wilhelm Kleeberg GmbH &amp; Co.KG E-Motoren E-Werkzeuge</b>	Phone Fax	0461-93073 0461-95383	www.kleeberg-fl.de
<b>26603</b>	Aurich	Leerer Lanstrasse 35-41	<b>Janssen Elektromaschinen GmbH</b>	Phone Fax	04941-174257 04941-1742-60	www.rolf-janssen.de
<b>27570</b>	Bremerhaven	Mushardstrasse 11	<b>Heinz Greif GmbH Elektrotechnische Werkstatt</b>	Phone Fax	0471-31997 0471-303694	www.greif-elektrotechnik.de
<b>35463</b>	Fernwald- Annerod	Industriestrasse 5	<b>Harald Bogner Elektromaschinenbau GmbH &amp; Co.KG</b>	Phone Fax	0641-41023 0641-492840	www.elektromaschinenbau-bogner.de
<b>39340</b>	Haldensleben	Töberheide 10	<b>Bär - Elektromaschinen</b>	Phone Fax	03904-65669 03904-462589	www.baer-ema.de
<b>44147</b>	Dortmund	Tankweg 27	<b>Boss Elektromaschinen + Pumpentechnik GmbH</b>	Phone Fax	0231-982022-0 0231-982022-11	www.boss-elektromaschinen.de
<b>49084</b>	Osnabrück	Pferdestrasse 24	<b>Sroczyński GmbH</b>	Phone Fax	0541-588-443 0541-588-609	
<b>53129</b>	Bonn	Burbacher Strasse 216	<b>Bauer Elktromotoren GmbH</b>	Phone Fax	0228-91785-0 0228-91785-16	www.BauerBonn.de
<b>63071</b>	Offenbach	Bieberer Strasse 254	<b>Wilhelm Klörs Elektromaschinenbau</b>	Phone Fax	069-543369 069-543313	
<b>64293</b>	Darmstadt	Bunsenstrasse 5-7	<b>Siebert Elektromaschinenbau GmbH</b>	Phone Fax	06151-824462 06151-895590	www.siebertgmbh.de
<b>66133</b>	Saarbrücken- Scheidt	Kaiserstrasse 5	<b>Fuchs Elektromaschinenbau &amp; Vertriebs GmbH</b>	Phone Fax	0681-814905 0681-813153	
<b>68642</b>	Bürstadt	Lorscher Strasse 10	<b>Brenner GmbH Elektrotechnik</b>	Phone Fax	06206-9806-0 06206-9806-16	www.brenner-gmbh.de
<b>78532</b>	Tuttlingen	Rudolf-Diesel-Strasse 8/1	<b>Dent Elektromaschinen GmbH</b>	Phone Fax	07461-969727-0 07461-969727-19	www.dent-elektromaschinen.de
<b>91207</b>	Lauf	Simonshofer Strasse 41	<b>Hans Mayer Elektrotechnik GmbH</b>	Phone Fax	09123-2041 09123-82661	www.hans-mayer-elektrotechnik.de
<b>99734</b>	Nordhausen	An der Helme 14	<b>Dipl. Ing. Günter Francke Elektromaschinen &amp; Antriebstechnik</b>	Phone Fax	03631-4795-0 03631-4795-20	www.elektrowerk-nordhausen.de

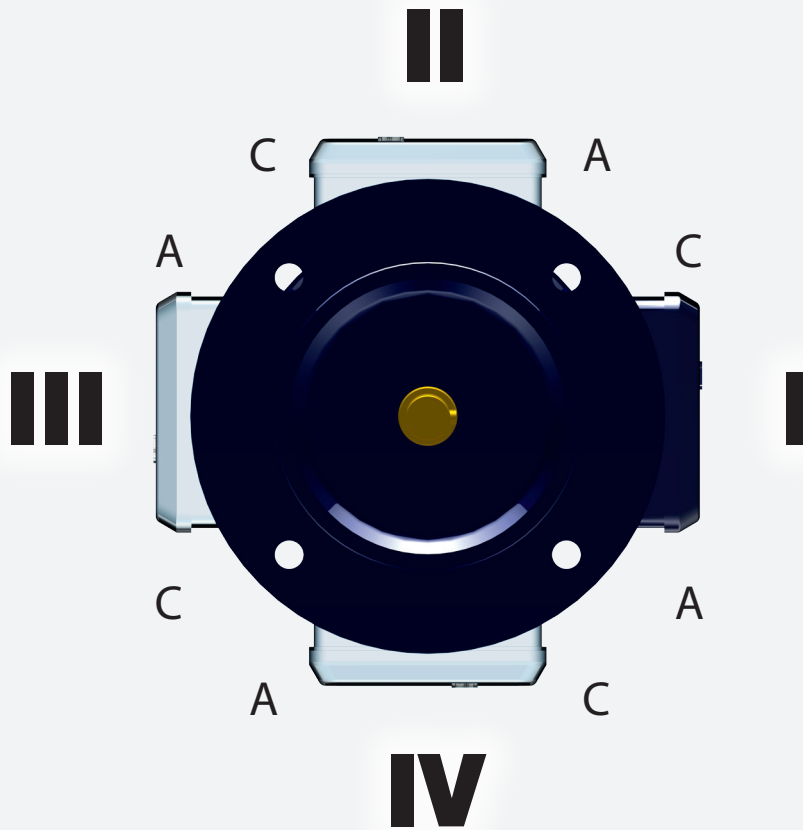




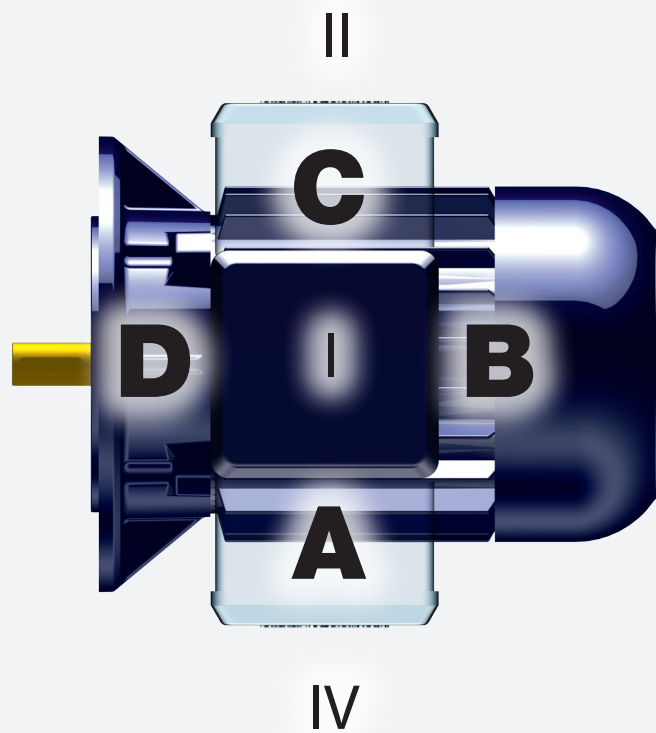


# Klemmenkasten

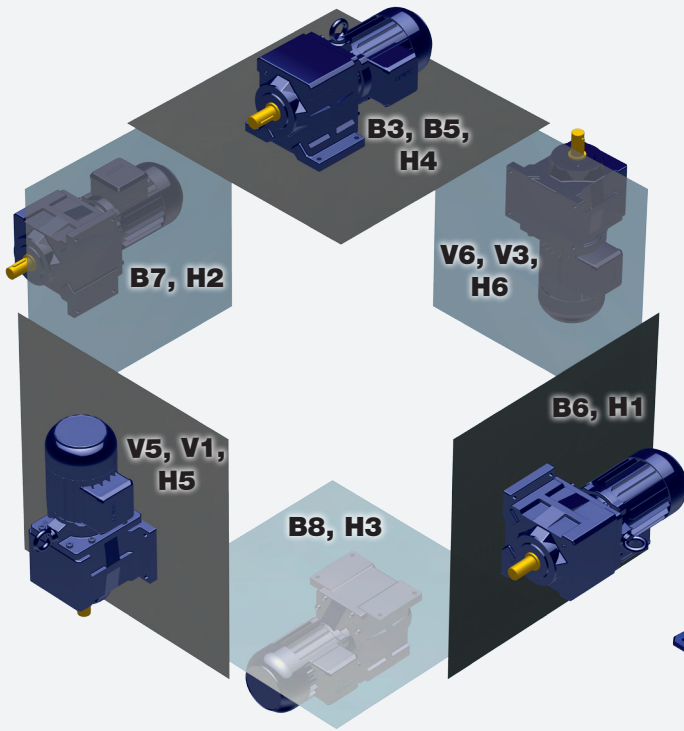
Lage des Klemmenkastens



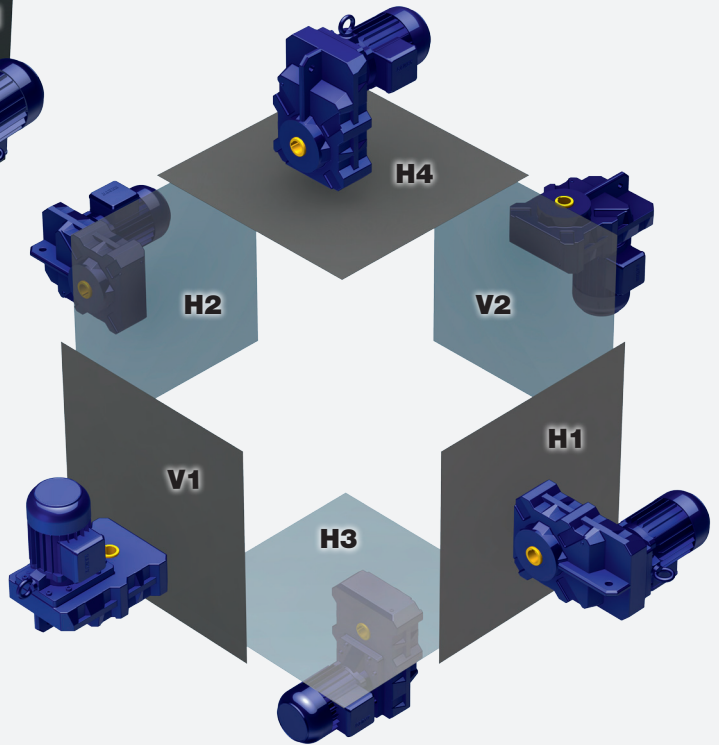
Lage der Kabeleinführung



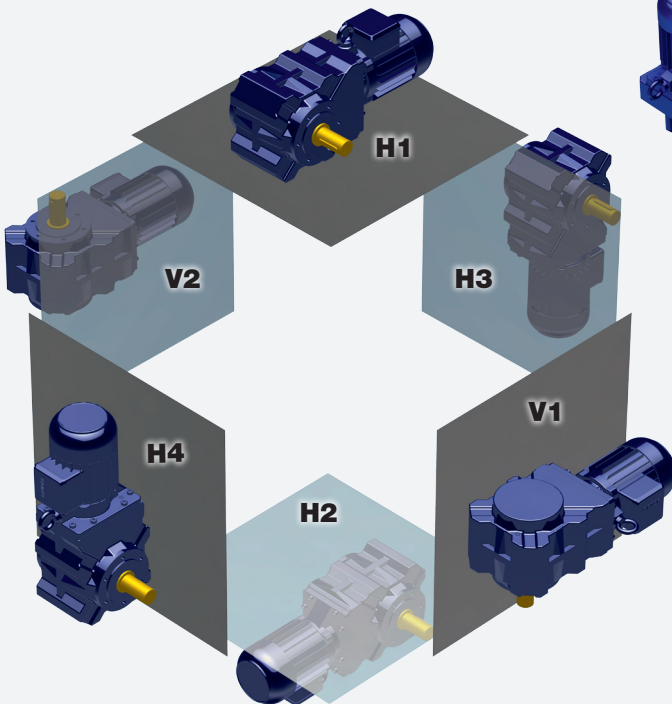
# Bauformen



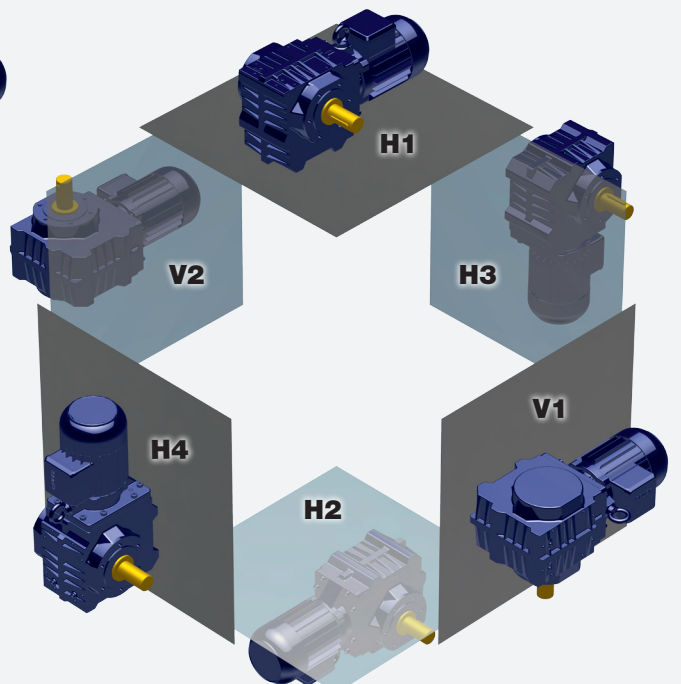
Stirradtriebmotoren



Flachtriebmotoren



Kegelradtriebmotoren



Schneckentriebmotoren

# The Gear Motor Academy

<http://academy.bauergears.com>

Schulung	Inhalt
Basis	<ul style="list-style-type: none"> <li>• Vorstellung des aktuellen Bauer Gear Motor Getriebemotoren Programms</li> <li>• Definition und Bestimmung des Betriebsfaktors bei der Getriebeauswahl</li> <li>• Einfluss von Radialkräften auf die Dimensionierung von Getriebemotoren</li> <li>• Definition der IP - Schutzarten</li> <li>• Grundlagen zur Berechnung und Auswahl von Getriebemotoren</li> <li>• Auswahl von Getriebemotoren bei Frequenzumrichterbetrieb</li> </ul>
Projektierung	<ul style="list-style-type: none"> <li>• Einführung in die technische Mechanik und Physik</li> <li>• Herleitung der antriebspezifischen Formeln</li> <li>• Auslegung von unterschiedlichen Maschinen (geregelt Antriebe, ungeregelte Antriebe, Fahrtrieb, Hubantrieb, Kettenförderer, Rollenbahn, Drehtisch, Gurtförderer)</li> </ul>
Branchen und Anwendungen	<ul style="list-style-type: none"> <li>• Aufbau und Funktionsbeschreibung von ASM-, polumschaltbaren, Gleichstrom-, Synchron- und Servomotoren</li> <li>• Aufbau und Funktionsbeschreibung von Frequenzumrichtern und deren Regelungsarten</li> <li>• Unterscheidung zwischen Netzbetrieb und Umrichterbetrieb</li> <li>• Branchenlösungen von Bauer Gear Motor (ATEX, Aseptik, Hängebahn, Stahlindustrie)</li> <li>• Branchen und ihre Ausführungen (Umgebungseinflüsse, Betriebsfaktoren, Modifikationen an den Getriebemotoren)</li> </ul>
ATEX	<ul style="list-style-type: none"> <li>• Explosionsschutz allgemein</li> <li>• EU-Richtlinien 94/9/EG und 1999/92/EG</li> <li>• Zündschutzarten für den Gasexplosionsschutz nach EN 60079 und Staubexplosionsschutz nach EN 61241</li> <li>• Auswahl von Motoren, Getrieben und Zubehör</li> <li>• Was ist hinsichtlich der Getriebe Betriebsfaktoren zu beachten</li> <li>• Hinweise zu Wartung und Instandhaltung von Bauer Gear Motor Getriebemotoren</li> </ul>
Demontage und Montage	<ul style="list-style-type: none"> <li>• Fachgerechte Demontage und Montage von Getriebe, Motor sowie Bremse und Rücklaufperre</li> <li>• Aufbau von Bauer Gear Motor Bremsen</li> <li>• Bauform – Drehzahländerung</li> <li>• Schmierstoffmengen</li> <li>• Wartung und Instandhaltung – Vorgehensweise</li> <li>• Ersatzteil- und Reparaturlogistik</li> </ul>

<http://forum.bauergears.com>

Topic	Inhalt
Hygiene	<ul style="list-style-type: none"> <li>• Die stetig wachsenden Anforderungen an die Lebensmittel- und Getränkeindustrie führen zu immer höherer Hygiene- und Prozesssicherheit. Deshalb befasst sich die Fachtagung Hygiene mit folgenden Themen:</li> <li>• Hygieneanforderungen an Produktionsanlagen der Lebensmittel- und Getränkeindustrie</li> <li>• Allgemeine Erläuterungen zu den neuen Richt- und Leitlinien für die Lebensmittel- und Getränkeindustrie</li> <li>• Inaktivierung von suspendierten Mikroorganismen und Biofilmen auf Oberflächen</li> <li>• Warum Schutzlack und nicht immer Edelstahl für Oberflächen?</li> </ul>
Energie	<ul style="list-style-type: none"> <li>• Der umweltbewusste Umgang mit Energie und anderen Ressourcen wird immer wichtiger. Deshalb befasst sich die Fachtagung Energie mit folgenden Themen:</li> <li>• Total Cost of Ownership (TCO) - Gesamtkostenbetrachtung in der Antriebstechnik</li> <li>• Effizienz und Normen - Einsparpotenziale nutzen durch konsequente Umsetzung der neuen Vorschriften</li> <li>• Motortechnologien - Effizienzsteigerung durch richtige Auswahl</li> <li>• Leistungselektronik und die Welt der revolutionären Motoren</li> </ul>
Service	<ul style="list-style-type: none"> <li>• Die Instandhaltung spielt eine immer größere Rolle in der Gesamtkostenstruktur eines Unternehmens. Deshalb befasst sich die Fachtagung Service mit folgenden Themen:</li> <li>• Total Productive Maintenance: Produktivitätssteigerung durch Instandhaltung</li> <li>• Damit billig nicht teuer wird: Gesamtkosten für die Instandhaltung von Maschinen und Anlagen optimieren</li> <li>• Auswirkung von Schmierstoffen auf Getriebemotoren</li> <li>• Globalisierung des Services - eine Herausforderung?</li> </ul>

Alle Kundenservicenummern sind fett gedruckt

## Couplings

### Ameridrives Couplings

*Mill Spindles, Ameriflex, Ameridisc*

Erie, PA - USA  
1-814-480-5000

*Gear Couplings*

San Marcos, TX - USA  
1-800-458-0887

### Bibby Turboxflex

*Disc, Gear, Grid Couplings, Overload Clutches*

Dewsbury, England  
+44 (0) 1924 460801

Boksburg, South Africa  
+27 11 918 4270

### TB Wood's

*Elastomeric Couplings*

Chambersburg, PA - USA  
1-888-829-6637 – Press #5

*For application assistance:  
1-888-829-6637 – Press #7*

*General Purpose  
Disc Couplings*

San Marcos, TX - USA  
1-888-449-9439

### Ameridrives Power Transmission

*Universal Joints, Drive Shafts, Mill Gear Couplings*

Green Bay, WI - USA  
1-920-593-2444

### Huco Dynatork

*Precision Couplings and Air Motors*

Hertford, England  
+44 (0) 1992 501900

Chambersburg, PA - USA  
1-800-829-6637

## Linear Products

### Warner Linear

*Linear Actuators*

Belvidere, IL - USA  
1-800-825-6544

*For application assistance:  
1-800-825-9050*

St Barthelemy d'Anjou, France  
+33 (0) 2 41 21 24 24

## Electromagnetic Clutches and Brakes

### Warner Electric

*Electromagnetic Clutches and Brakes*

New Hartford, CT - USA  
1-800-825-6544

*For application assistance:  
1-800-825-9050*

St Barthelemy d'Anjou, France  
+33 (0) 2 41 21 24 24

*Precision Electric Coils and Electromagnetic Clutches and Brakes*

Columbia City, IN - USA  
1-260-244-6183

### Matrix International

*Electromagnetic Clutches and Brakes, Pressure Operated Clutches and Brakes*

Brechin, Scotland  
+44 (0) 1356 602000

New Hartford, CT - USA  
1-800-825-6544

### Inertia Dynamics

*Spring Set Brakes; Power On and Wrap Spring Clutch/Brakes*

New Hartford, CT - USA  
1-800-800-6445

## Overrunning Clutches

### Formsprag Clutch

*Overrunning Clutches and Holdbacks*

Warren, MI - USA  
1-800-348-0881 – Press #1

*For application assistance:  
1-800-348-0881 – Press #2*

### Marland Clutch

*Roller Ramp and Sprag Type Overrunning Clutches and Backstops*

South Beloit, IL - USA  
1-800-216-3515

### Stieber Clutch

*Overrunning Clutches and Holdbacks*

Heidelberg, Germany  
+49 (0) 6221 30 47 0

## Heavy Duty Clutches and Brakes

### Wichita Clutch

*Pneumatic Clutches and Brakes*

Wichita Falls, TX - USA  
1-800-964-3262

Bedford, England  
+44 (0) 1234 350311

### Twiflex Limited

*Caliper Brakes and Thrusters*

Twickenham, England  
+44 (0) 20 8894 1161

### Industrial Clutch

*Pneumatic and Oil Immersed Clutches and Brakes*

Waukesha, WI - USA  
1-262-547-3357

## Gearing

### Boston Gear

*Enclosed and Open Gearing, Electrical and Mechanical P.T. Components*

Charlotte, NC - USA  
1-800-825-6544

*For application assistance:  
1-800-816-5608*

### Bauer Gear Motor

*Gearred Motors*

Esslingen, Germany  
+49 (711) 3518-0

### Nuttall Gear and Delroyd Worm Gear

*Worm Gear and Helical Speed Reducers*

Niagara Falls, NY - USA  
1-716-298-4100

## Belted Drives and Sheaves

### TB Wood's

*Belted Drives*

Chambersburg, PA - USA  
1-888-829-6637 – Press #5

*For application assistance:  
1-888-829-6637 – Press #7*

## Engineered Bearing Assemblies

### Kilian Manufacturing

*Engineered Bearing Assemblies*

Syracuse, NY - USA  
1-315-432-0700

## Bauer Gear Motor

### Bauer Gear Motor GmbH

Eberhard-Bauer-Strasse 36-60  
73734 Esslingen - Germany

+49 711 3518 0  
+49 711 3518 381 (Fax)  
www.bauergears.com

### Bauer Gear Motor s.r.o.

Tovarenská 49  
953 01 Zlate Moravce - Slovakia

+421 37 6926100  
+421 37 6926181 (Fax)  
www.bauergears.com

### Bauer Gear Motor Limited

Nat Lane Business Park  
Winsford, Cheshire  
CW7 3BS - United Kingdom

+44 1606 868600  
+44 1606 868603 (Fax)  
www.bauergears.com

### Bauer Gear Motor Finland Oy Ab

Yrittäjänkuja 3  
01800 Klaukkala - Finland

+358 207 189 700  
+358 207 189 701 (Fax)  
www.bauergears.com

### Bauer Gear Motor LLC

31 Schoolhouse Rd.  
Somerset NJ 08873-1212 - USA

+1 732 469 8770  
+1 732 469 8773 (Fax)  
www.bauergears.com

### Altra Industrial Motion (Shenzhen) Co., Ltd.

18 Huan Zhen Road Dabo  
Industrial Zone - BoGoang Village  
ShaJing Town - BaoAn District  
Guangdong Province  
518104 Shenzhen City - China

+86 755 27246308  
+86 755 27246017 (Fax)  
www.bauergears.com

Bauer übernimmt keine Haftung für Irrtümer und Fehler in Katalogen, Prospekten und anderen gedruckten Unterlagen. Bauer behält sich das Recht vor, ohne vorherige Ankündigung Änderungen an ihren Produkten vorzunehmen, auch an Produkten, die bereits in Auftrag genommen wurden, insoweit keine schon vereinbarten technischen Spezifikationen dadurch geändert werden. Alle in dieser Publikation enthaltenen Warenzeichen sind alleiniges und exklusives Eigentum der jeweiligen Firmen. Bauer und das Bauer Logo sind Warenzeichen der Bauer Gear Motor GmbH. Alle Rechte vorbehalten.



www.bauergears.com

Eberhard Bauer Straße 36-60  
73734 Esslingen - Germany  
Tel: +49 711 3518-0  
Fax: +49 711 3518-381