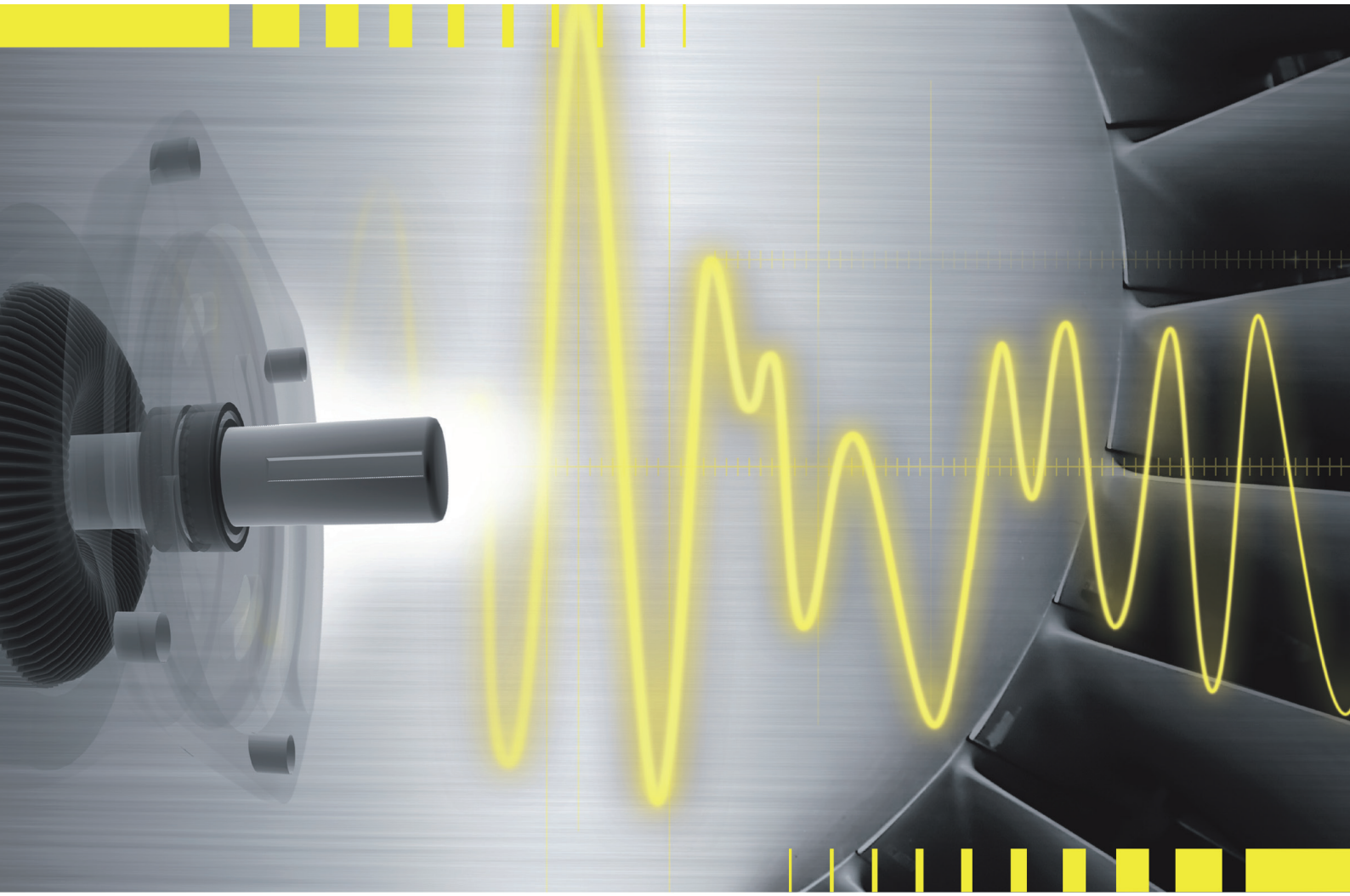
ATB ECODRIVE



Technology in Motion

Specification

Specification	Standard product
Frame material	80- 160 aluminium 80 - 315 cast iron
Enclosure	IP55
Mounting option	IM B3. IMB5. IMB14 IMB35. IMB34
Terminal box position	Top
Voltage	≤ 3 kW: 400/230 V Y/Δ ≥ 4 kW: 690/400 V Y/Δ
Frequency	50 / 60 Hz
Cooling	IC411
Bearing location	80 - 160 aluminium frame - drive end 80 - 315 cast iron frame - drive end
Lubrication	80 - 225 for live with 2Z-type bearings 250- 315 with regreasing bearings
Insulation	class F
Temperature rise	class B
Paint colour	black RAL 9005 low gloss
Thermal protection	F.s. 80 - 315 - thermistors
Inverter Duty (with derating)	Variable Torque: 10:1 Constant Torque: 2:1
Ambient temperature	-20°C to + 40°C

The above specification gives a brief summary of features available for the ATB Ecodrive range. For further requests. please contact ATB sales.

ATB - Keeping the industry turning

ATB is recognized as a leading supplier of high quality electric motors that are used worldwide in many different industries. With products ranging from 0.06kW up to 25MW ATB manufactures motors for most applications.

Based on its 80 years of experience ATB can offer ideal motion control solutions. This includes competitively priced standard motors or highly customized motor designs.

On request, we can offer complete power drive system with inverters to provide a complete drive solution from a single source.

One of ATB's key attributes is the ability to meet your exact needs. We are committed to listening to your needs and responding in a way that meets those requirements, whether that be from stock with one of our standard products, through local modification of a stock motor or the production of a product customized to meet your specific needs.

Shaping the future of electric motors, ATB is focused on the development of new products that improve energy efficiency, offer lower cost of ownership throughout the motor lifetime and reduce the environmental impact.

ATB has a long-standing reputation for efficient customer service, supporting customers through its global network.

ATB Motor Centers operate alongside approved product distributors throughout the world.

Know-how, experience and reliability - this is what ATB stands for!

Quality assurance

Stringent quality procedures are observed from initial design to finished product in accordance with the ISO9001 documented quality systems.

All factories have been assessed to meet these requirements.

ATB Ecodrive IE3 Series

The ATB Ecodrive range is a high quality standard series of electric motors with a specification suitable for most industrial applications. It covers outputs from 0.75 kW up to 200 kW in frame sizes 80 to 315.

Benefits include:

- Full output range to meet your requirements
- Efficiencies are within the IE3 bands
- Robust construction for long life
- Mountings: foot, flange, face or combination
- Multi-mount-aluminium range - frame 80 to 160
- Integrated feet cast iron - frame 80 to 315.
- Dual voltage: up to 3 kW 230/400V / 265/460V
4 kW and above 400 / 460V
- Dual frequency (50 / 60Hz)
- IP55 (TEFC)
- Metal fan cover
- Metric entries
- Thermal protection fitted as standard
- Inverter duty capability

Standards

ATB Ecodrive motors are manufactured to the international standards listed below	
Performance	IEC 60034-1
Dimensions	IEC 60072-1
Mounting	IEC 60034-7
Enclosure protection	IEC 60034-5
Vibration	IEC 60034-14 (grade A)
Noise	IEC60034-9

Environment Enclosure

All motors have degrees of IP protection as defined in IEC EN 60034-5. The normal arrangement is IP55.

Motor cooling

Motors are cooled in accordance with IEC 60034-6. The normal arrangement is IC411 (Totally Enclosed Fan Cooled), which means that the motor is cooled by a fan mounted at the non-drive end side.

European directives

The following European directives apply:

Compliance with European directives applying to AC induction motors				
Directives	**Low voltage (LV)**	**Machinery (MD)**	**Electromagnetic compatibility (EMC)**	**Energy reladet products (EuP)**
Reference numbers	2006/95/EC	2006/42/EC	2004/108/EC	2009/125/EC
Relevant for motor CE marking	SCs	No	No	SCs
Standards	EN 60034	Not applicable	EN 60034-1	EN 60034-30
Documentation for customers' technical file	Declaration of conformity	Certificate of incorporation	Statement[1]	Declaration of conformity
Safety instructions with every motor	SCs	SCs	SCs	—
Comment	Relevant electrical equipment operating between 50 to 1000 volts AC	Statement[2]	Component	Minimum efficiency levels for motor outputs 0.75 - 375kW 2-6 pole

[1] Motors operating from a correctly applied, sinusoidal (AC) supply meet the requirements of the EMC directive and are within the limits specified in standard EN 60034-1

[2] When installed in accordance with our customer safety and installation and maintenance instructions. they can be put into service only when the machinery into which they are being incorporated. has been declared to be in conformity with the machinery directive 2006/42/EC

Minimum Energy Efficiency Performance Requirements

The EU MEPS scheme sets new mandatory minimum efficiency levels for most single speed 3ph induction motors up to 375 kW rated up to 1000 V, unlike the narrow definition of the CEMEP voluntary scheme which only covered a small number of standard motors.

The Voluntary Agreement, since 1998, of CEMEP for motor manufactures has expired
(Efficiency classes EFF3 /EFF2/EFF1).

The scope of EU MEPS covers 2, 4 & 6 pole single speed 3ph induction motors from 0.75 to 375 kW, rated up to 1000 V based on continuous duty operation.

Aiming to reduce energy consumption throughout Europe and the rest of the world, it comes into effect in 3 stages. The effect of this is maximise potential savings in electric motor driven systems. Based on the regulation is a new international IEC 60034-30 standard. It defines the following efficiency classes:

IE1 - Standard Efficiency (comparable to former EFF2)
IE2 - High Efficiency (EFF1 and USA EPACT 60 Hz)
IE3 - Premium Efficiency (USA „NEMA Premium" 60 Hz)

New mandatory efficiency levels in Europe (time line):

Since 16th June 2011:
Minimum efficiency requirement IE2 for all motors within the output range of 0.75 - 375 kW

From 1st January 2015:
Minimum efficiency requirement IE3 for 7.5 - 375 kW motors and/or IE2 for motors operated with an appropriate variable speed drive.

From 1st January 2017:
Minimum efficiency requirement IE3 for 0.75 - 375 kW motors and/or IE2 for motors operated with an appropriate variable speed drive.

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IE 3
DIN EN 60034-30-1

400/230 V Y/Δ 50 Hz
690/400 V Y/Δ 50 Hz
Th. cl. F, utilization according to Th. cl. B

Aluminium construction
Frame surface cooled

3000 min^{-1} (2-pole)

Frame-size	Type	Rated Output P_2 (kW)	Rated Speed n (min^{-1})	Rated Current at 400 V I (A)	Efficiency 100% Load η_1 (%)	Power Factor 100% Load cos φ	Starting Torque T_{st}/T_N	Breakdown Torque T_M/T_N	Starting Current I_{st}/I_N	Weight IM B3 ca. m_M kg	Noise ca. SWL dB(A)
80M	SAE3-80M1-2	0.75	2865	1.64	80.7	0.82	2.3	2.3	6.8	10.5	62
80M	SAE3-80M2-2	1.1	2885	2.31	82.7	0.83	2.2	2.3	7.3	12.5	62
90S	SAE3-90S-2	1.5	2885	3.06	84.2	0.84	2.2	2.3	7.6	16	67
90L	SAE3-90L-2	2.2	2895	4.35	85.9	0.85	2.2	2.3	7.8	18	67
100L	SAE3-100L-2	3.0	2915	5.71	87.1	0.87	2.2	2.3	8.1	26	74
112M	SAE3-112M-2	4.0	2895	7.45	88.1	0.88	2.2	2.3	8.3	35	77
132S	SAE3-132S1-2	5.5	2925	10.1	89.2	0.88	2.0	2.3	8.0	55	79
132S	SAE3-132S2-2	7.5	2925	13.7	90.1	0.88	2.0	2.3	7.8	62	79
160M	SAE3-160M1-2	11	2930	19.6	91.2	0.89	2.0	2.3	7.9	86	81
160M	SAE3-160M2-2	15	2930	26.5	91.9	0.89	2.0	2.3	8.0	94	81
160L	SAE3-160L-2	18.5	2930	32.5	92.4	0.89	2.0	2.3	8.1	117	81

1500 min^{-1} (4-pole)

Frame-size	Type	Rated Output P_2 (kW)	Rated Speed n (min^{-1})	Rated Current at 400 V I (A)	Efficiency 100% Load η_1 (%)	Power Factor 100% Load cos φ	Starting Torque T_{st}/T_N	Breakdown Torque T_M/T_N	Starting Current I_{st}/I_N	Weight IM B3 ca. m_M kg	Noise ca. SWL dB(A)
80M	SAE3-80M2-4	0.75	1425	1.75	82.5	0.75	2.3	2.3	6.5	14	56
90S	SAE3-90S-4	1.1	1420	2.48	84.1	0.76	2.3	2.3	6.5	16	59
90L	SAE3-90L-4	1.5	1420	3.30	85.3	0.77	2.3	2.3	6.5	19	59
100L	SAE3-100L1-4	2.2	1455	4.52	86.7	0.81	2.3	2.3	7.5	26.5	64
100L	SAE3-100L2-4	3.0	1450	6.02	87.7	0.82	2.3	2.3	7.5	30.5	64
112M	SAE3-112M-4	4.0	1445	7.95	88.6	0.82	2.2	2.3	7.5	36	65
132S	SAE3-132S-4	5.5	1445	10.7	89.6	0.83	2.0	2.3	7.5	60	71
132M	SAE3-132M-4	7.5	1460	14.3	90.4	0.84	2.0	2.3	7.5	63	71
160M	SAE3-160M-4	11	1455	20.4	91.4	0.85	2.2	2.3	7.5	90	73
160L	SAE3-160L-4	15	1455	27.3	92.1	0.86	2.2	2.3	7.5	113	73

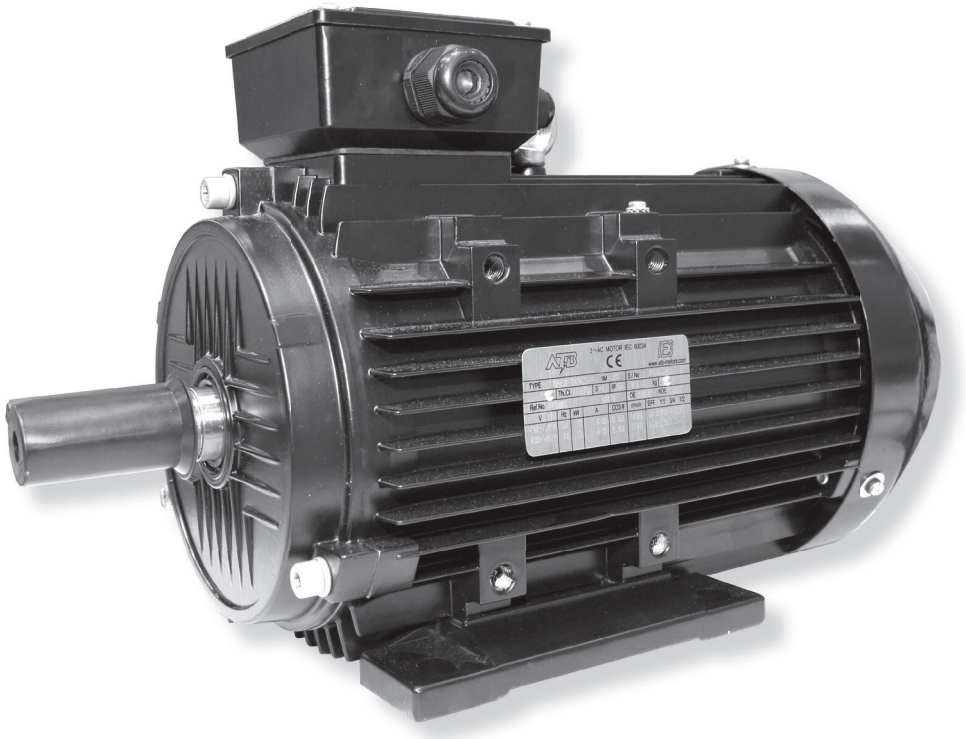
IE 3
DIN EN 60034-30-1

400/230 V Y/Δ 50 Hz
690/400 V Y/Δ 50 Hz
Th. cl. F, utilization according to Th. cl. B

Aluminium construction
Frame surface cooled

1000 min^{-1} (6-pole)

Frame-size	Type	Rated Output P_2 (kW)	Rated Speed n (min^{-1})	Rated Current at 400 V I (A)	Efficiency 100% Load η_1 (%)	Power Factor 100% Load cos φ	Starting Torque T_{st}/T_N	Breakdown Torque T_M/T_N	Starting Current I_{st}/I_N	Weight IM B3 ca. m_M kg	Noise ca. SWL dB(A)
90S	SAE3-90S-6	0.75	935	1.93	78.9	0.71	2.0	2.1	5.8	21	57
90L	SAE3-90L-6	1.1	935	2.69	81.0	0.73	2.0	2.1	5.9	26	57
100L	SAE3-100L-6	1.5	950	3.60	82.5	0.73	2.0	2.1	6.0	31.5	61
112M	SAE3-112M-6	2.2	940	5.09	84.3	0.74	2.0	2.1	6.0	37	65
132S	SAE3-132S-6	3.0	960	6.84	85.6	0.74	2.0	2.1	6.2	47	69
132M	SAE3-132M1-6	4.0	960	8.99	86.8	0.74	2.0	2.1	6.8	57	69
132M	SAE3-132M2-6	5.5	960	12.0	88.0	0.75	2.0	2.1	7.1	63	69
160M	SAE3-160M-6	7.5	970	15.4	89.1	0.79	2.0	2.1	6.7	85	73
160L	SAE3-160L-6	11	970	22.0	90.3	0.80	2.0	2.1	6.9	108	73



IE 3
DIN EN 60034-30-1

400/230 V Y/Δ 50 Hz
690/400 V Y/Δ 50 Hz
Th. cl. F, utilization according to Th. cl. B

Cast iron construction
Frame surface cooled

3000 min^{-1} (2-pole)

Frame-size	Type	Rated Output P_2 (kW)	Rated Speed n (min^{-1})	Rated Current at 400 V I (A)	Efficiency 100% Load η_1 (%)	Power Factor 100% Load cos φ	Starting Torque T_{st}/T_N	Breakdown Torque T_M/T_N	Starting Current I_{st}/I_N	Weight IM B3 ca. m_M kg	Noise ca. SWL dB(A)
80M	SCE3-80M1-2	0.75	2860	1.64	80.7	0.82	2.2	2.3	7	*)	67
80M	SCE3-80M2-2	1.1	2860	2.31	82.7	0.83	2.2	2.3	7.9	*)	67
90S	SCE3-90S-2	1.5	2870	3.06	84.2	0.84	2.2	2.3	7.9	*)	78
90L	SCE3-90L-2	2.2	2870	4.35	85.9	0.85	2.2	2.3	7.9	*)	78
100L	SCE3-100L-2	3.0	2880	5.71	87.1	0.87	2.2	2.3	8.1	*)	82
112M	SCE3-112M-2	4.0	2890	7.45	88.1	0.88	2.2	2.3	8.1	*)	83
132S	SCE3-132S1-2	5.5	2900	10.1	89.2	0.88	2.2	2.3	8.1	*)	85
132S	SCE3-132S2-2	7.5	2900	13.7	90.1	0.88	2.2	2.3	8.1	*)	85
160M	SCE3-160M1-2	11	2940	19.6	91.2	0.89	2.2	2.3	8.1	*)	87
160M	SCE3-160M2-2	15	2940	26.5	91.9	0.89	2.2	2.3	8.1	*)	87
160L	SCE3-160L-2	18.5	2940	32.5	92.4	0.89	2.2	2.3	8.1	*)	87
180M	SCE3-180M-2	22	2950	38.5	92.7	0.89	2.0	2.3	8.1	*)	88
200L	SCE3-200L1-2	30	2960	52.2	93.3	0.89	2.0	2.3	8.1	*)	90
200L	SCE3-200L2-2	37	2960	64.1	93.7	0.89	2.0	2.3	8.1	*)	90
225M	SCE3-225M-2	45	2970	76.8	94.0	0.90	2.0	2.3	8.1	*)	92
250M	SCE3-250M-2	55	2970	93.5	94.3	0.90	2.0	2.3	8.1	*)	92
280S	SCE3-280S-2	75	2980	127	94.7	0.90	2.0	2.3	8.1	*)	94
280M	SCE3-280M-2	90	2980	152	95.0	0.90	2.0	2.3	8.1	*)	94
315S	SCE3-315S-2	110	2980	185	95.2	0.90	1.8	2.2	7.7	*)	98
315M	SCE3-315M-2	132	2980	222	95.4	0.90	1.8	2.2	7.7	*)	98
315L	SCE3-315L1-2	160	2980	265	95.6	0.91	1.8	2.2	7.7	*)	98
315L	SCE3-315L2-2	200	2980	331	95.8	0.91	1.8	2.2	7.7	*)	98

*) on request

1500 min^{-1} (4-pole)

Frame-size	Type	Rated Output P_2 (kW)	Rated Speed n (min^{-1})	Rated Current at 400 V I (A)	Efficiency 100% Load η_1 (%)	Power Factor 100% Load cos φ	Starting Torque T_{st}/T_N	Breakdown Torque T_M/T_N	Starting Current I_{st}/I_N	Weight IM B3 ca. m_M kg	Noise ca. SWL dB(A)
80M	SCE3-80M2-4	0.75	1420	1.75	82.5	0.75	2.2	2.3	6.5	*)	58
90S	SCE3-90S-4	1.1	1420	2.48	84.1	0.76	2.2	2.3	6.5	*)	66
90L	SCE3-90L-4	1.5	1420	3.30	85.3	0.77	2.2	2.3	6.5	*)	66
100L	SCE3-100L1-4	2.2	1440	4.52	86.7	0.81	2.2	2.3	7.5	*)	70
100L	SCE3-100L2-4	3.0	1440	6.02	87.7	0.82	2.2	2.3	7.5	*)	70
112M	SCE3-112M-4	4.0	1450	7.95	88.6	0.82	2.2	2.3	7.5	*)	72
132S	SCE3-132S-4	5.5	1460	10.7	89.6	0.83	2.2	2.3	7.5	*)	75
132M	SCE3-132M-4	7.5	1460	14.3	90.4	0.84	2.2	2.3	7.5	*)	75
160M	SCE3-160M-4	11	1470	20.4	91.4	0.85	2.1	2.3	7.5	*)	77
160L	SCE3-160L-4	15	1470	27.3	92.1	0.86	2.1	2.3	7.5	*)	77
180M	SCE3-180M-4	18.5	1475	33.5	92.6	0.86	2.1	2.3	7.9	*)	80
180L	SCE3-180L-4	22	1475	39.7	93.0	0.86	2.1	2.3	7.9	*)	80
200L	SCE3-200L-4	30	1475	53.8	93.6	0.86	2.1	2.3	7.9	*)	83
225S	SCE3-225S-4	37	1480	66.1	93.9	0.86	2.1	2.3	7.9	*)	84
225M	SCE3-225M-4	45	1480	80.2	94.2	0.86	2.1	2.3	7.9	*)	84
250M	SCE3-250M-4	55	1480	97.6	94.6	0.86	2.1	2.3	7.9	*)	85
280S	SCE3-280S-4	75	1485	129	95.0	0.88	2.1	2.3	7.9	*)	88
280M	SCE3-280M-4	90	1485	155	95.2	0.88	2.1	2.3	7.9	*)	88
315S	SCE3-315S-4	110	1490	187	95.4	0.89	2.1	2.2	7.6	*)	94
315M	SCE3-315M-4	132	1490	224	95.6	0.89	2.1	2.2	7.6	*)	94
315L	SCE3-315L1-4	160	1490	271	95.8	0.89	2.1	2.2	7.6	*)	94
315L	SCE3-315L1-4	200	1490	334	96.0	0.90	2.1	2.2	7.6	*)	94

*) on request

IE 3
DIN EN 60034-30-1

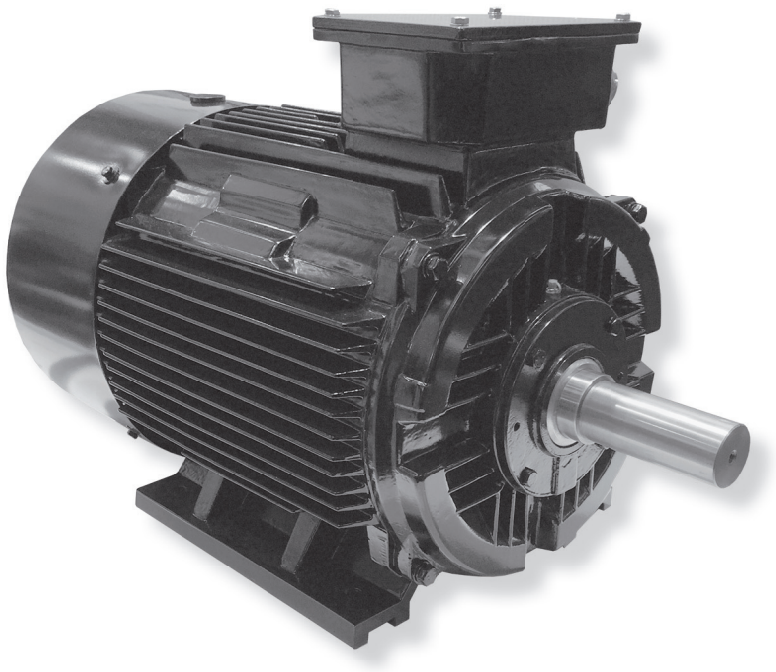
400/230 V Y/Δ 50 Hz
690/400 V Y/Δ 50 Hz
Th. cl. F, utilization according to Th. cl. B

Cast iron construction
Frame surface cooled

1000 min^{-1} (6-pole)

Frame-size	Type	Rated Output P_2 (kW)	Rated Speed n (min^{-1})	Rated Current at 400 V I (A)	Efficiency 100% Load η_1 (%)	Power Factor 100% Load cos φ	Starting Torque T_{st}/T_N	Breakdown Torque T_M/T_N	Starting Current I_{st}/I_N	Weight IM B3 ca. m_M kg	Noise ca. SWL dB(A)
90S	SCE3-90S-6	0.75	920	1.93	78.9	0.71	2.0	2.1	6.0	*)	63
90L	SCE3-90L-6	1.1	920	2.69	81.0	0.73	2.0	2.1	6.0	*)	63
100L	SCE3-100L-6	1.5	950	3.60	82.5	0.73	2.0	2.1	6.0	*)	64
112M	SCE3-112M-6	2.2	950	5.09	84.3	0.74	2.0	2.1	6.9	*)	70
132S	SCE3-132S-6	3.0	970	6.84	85.6	0.74	2.0	2.1	6.9	*)	73
132M	SCE3-132M1-6	4.0	970	8.99	86.8	0.74	2.0	2.1	6.9	*)	73
132M	SCE3-132M2-6	5.5	970	12.0	88.0	0.75	2.0	2.1	6.9	*)	73
160M	SCE3-160M-6	7.5	975	15.4	89.1	0.79	2.0	2.1	6.9	*)	73
160L	SCE3-160L-6	11	975	22.0	90.3	0.80	2.0	2.1	6.9	*)	73
180L	SCE3-180L-6	15	975	29.3	91.2	0.81	2.0	2.1	7.5	*)	77
200L	SCE3-200L1-6	18.5	975	36.0	91.7	0.81	2.0	2.1	7.5	*)	80
200L	SCE3-200L2-6	22	975	42.5	82.2	0.81	2.0	2.1	7.5	*)	80
225M	SCE3-225M-6	30	980	56.2	92.9	0.83	2.0	2.1	7.5	*)	80
250M	SCE3-250M-6	37	980	68.1	93.3	0.84	2.0	2.1	7.5	*)	82
280S	SCE3-280S-6	45	980	81.6	93.7	0.85	2.0	2.0	7.5	*)	85
280M	SCE3-280M-6	55	980	98.1	94.1	0.86	2.0	2.0	7.5	*)	85
315S	SCE3-315S-6	75	990	136	94.6	0.84	2.0	2.0	7.5	*)	89
315m	SCE3-315M-6	90	990	161	94.9	0.85	2.0	2.0	7.5	*)	89
315L	SCE3-315L1-6	110	990	196	95.1	0.85	2.0	2.0	7.3	*)	89
315L	SCE3-315L2-6	132	990	232	95.4	0.86	2.0	2.0	7.3	*)	89

*) on request



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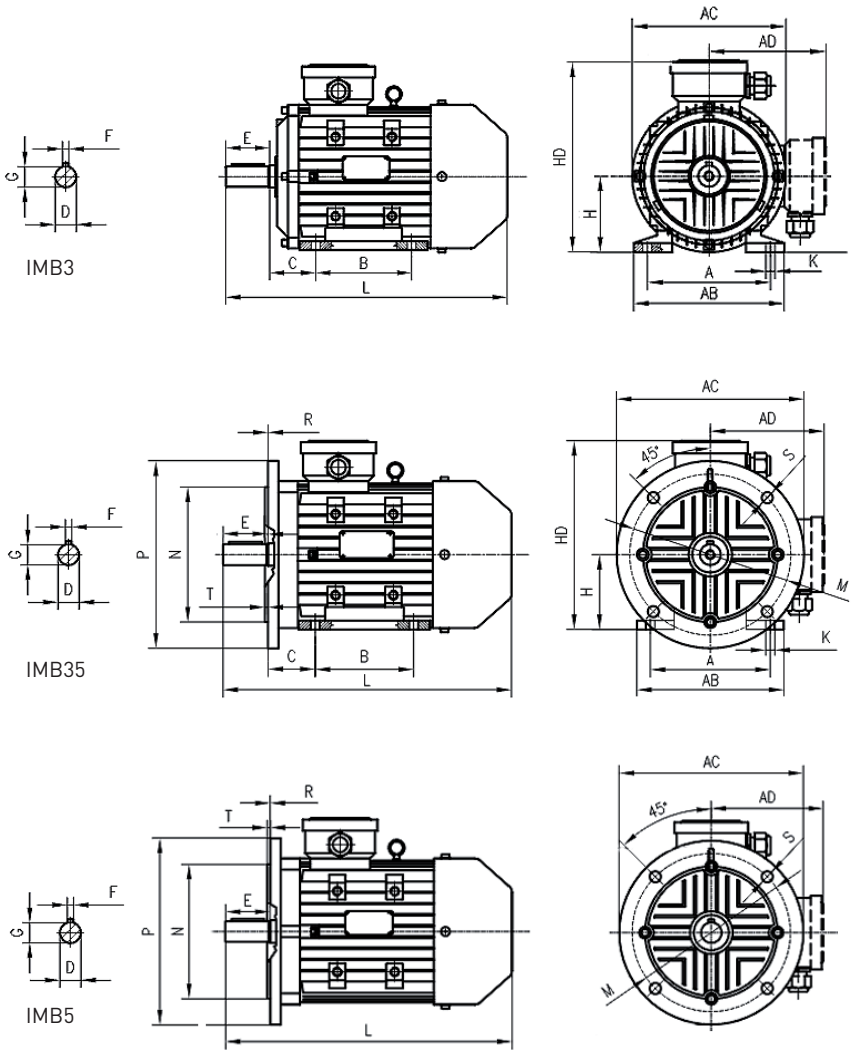
Mounting and Appearance Dimensions

Aluminium construction

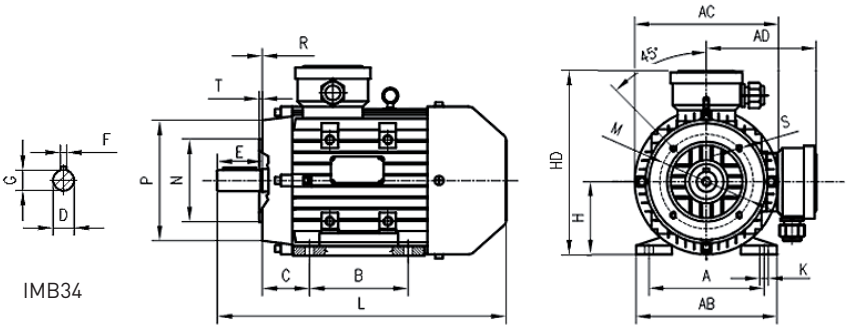


IMB3, IMB 35, IMB5

Dimensions in mm

Frame-size	No. of poles	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AB	AC	AD	HD	HF	L
80M	2-4-6	125	100	50	19	40	6	15.5	80	10	165	130	200	0	4-12	3.5	156	175	140	220	185	300
90S	2-4-6	140	100	56	24	50	8	20	90	10	165	130	200	0	4-12	3.5	180	195	160	255	195	350
90L	2-4-6	140	125	56	24	50	8	20	90	10	165	130	200	0	4-12	3.5	180	195	160	255	195	380
100L	2-4-6	160	140	63	28	60	8	24	100	12	215	180	250	0	4-14.5	4	190	215	172	270	245	430
112M	2-4-6	190	140	70	28	60	8	24	112	12	215	180	250	0	4-14.5	4	230	240	190	300	265	450
132S	2-4-6	216	140	89	38	80	10	33	132	12	265	230	300	0	4-14.5	4	270	275	210	345	315	470
132M	2-4-6	216	178	89	38	80	10	33	132	12	265	230	300	0	4-14.5	4	270	275	210	345	315	510
160M	2-4-6	254	210	108	42	110	12	37	160	14.5	300	250	350	0	4-18.5	5	305	330	255	420	385	620
160L	2-4-6	254	254	108	42	110	12	37	160	14.5	300	250	350	0	4-18.5	5	305	330	255	420	385	665

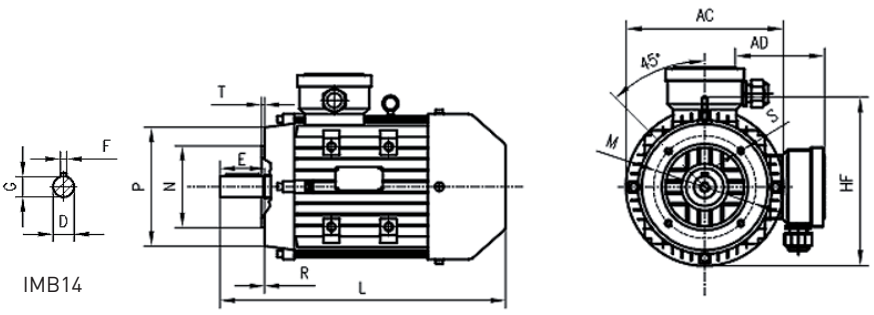
Aluminium construction



IMB34

Dimensions in mm

80M	2-4-6	125	100	50	19	40	6	15.5	80	10	100	80	120	0	M6	3.0	156	175	140	220	300
90S	2-4-6	140	100	56	24	50	8	20	90	10	115	95	140	0	M8	3.0	180	195	160	255	350
90L	2-4-6	140	125	56	24	50	8	20	90	10	115	95	140	0	M8	3.0	180	195	160	255	380
100L	2-4-6	160	140	63	28	60	8	24	100	12	130	110	160	0	M8	3.5	190	215	172	270	430
112M	2-4-6	190	140	70	28	60	8	24	112	12	130	110	160	0	M8	3.5	230	240	190	300	450
132S	2-4-6	216	140	89	38	80	10	33	132	12	165	130	218	0	M10	4	270	275	210	345	470
132M	2-4-6	216	178	89	38	80	10	33	132	12	165	130	218	0	M10	4	270	275	210	345	510



IMB14

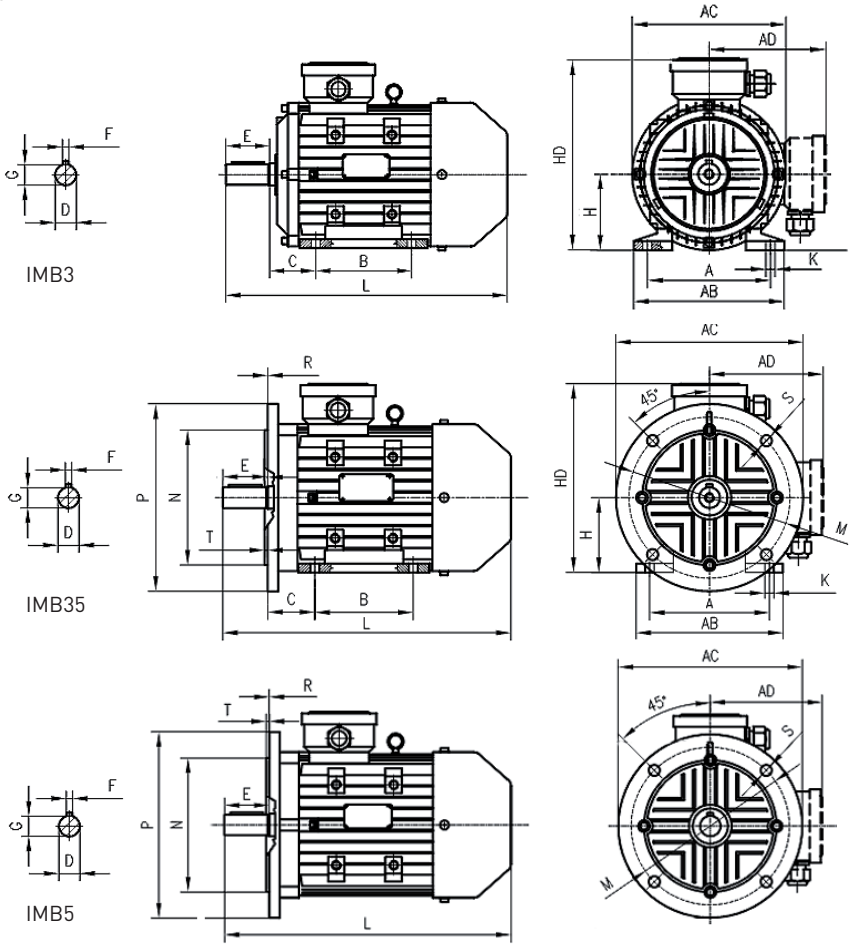
Dimensions in mm

Frame-size	No. of poles	D	E	F	G	M	N	P	R	S	T	AC	AD	HF	L
80M	2-4-6	19	40	6	15.5	100	80	120	0	M6	3.0	175	140	185	300
90S	2-4-6	24	50	8	20	115	95	140	0	M8	3.0	195	160	195	350
90L	2-4-6	24	50	8	20	115	95	140	0	M8	3.0	195	160	195	380
100L	2-4-6	28	60	8	24	130	110	160	0	M8	3.5	215	172	245	430
112M	2-4-6	28	60	8	24	130	110	160	0	M8	3.5	240	190	265	450
132S	2-4-6	38	80	10	33	165	130	218	0	M10	4	275	210	315	470
132M	2-4-6	38	80	10	33	165	130	218	0	M10	4	275	210	315	510

10

Mounting and Appearance Dimensions

Cast iron construction



IMB3, IMB 35, IMB5

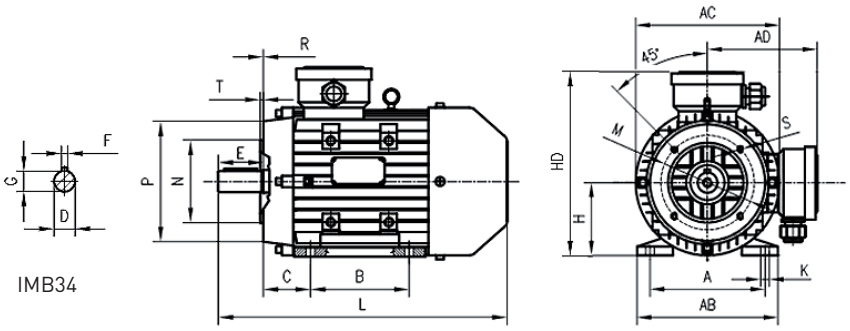
Dimensions in mm

Frame-size	No. of poles	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AB	AC	AD	HD	L
80M	2-4-6	125	100	50	19	40	6	15,5	80	10	165	130	200	-	4-12	3.5	160	162	136	216	333
90S	2-4-6	140	100	56	24	50	8	20	90	10	165	130	200	-	4-12	3.5	176	168	153	243	348
90L	2-4-6	140	125	56	24	50	8	20	90	10	165	130	200	-	4-12	3.5	176	168	153	243	378
100L	2-4-6	160	140	63	28	60	8	24	100	12	215	180	250	-	4-14.5	4	200	200	171	271	427
112M	2-4-6	190	140	70	28	60	8	24	112	12	215	180	250	-	4-14.5	4	226	216	183	295	426
132S	2-4-6	216	140	89	38	80	10	33	132	12	265	230	300	-	4-14.5	4	262	254	208	340	459
132M	2-4-6	216	178	89	38	80	10	33	132	12	265	230	300	-	4-14.5	4	262	254	208	340	497
160M	2-4-6	254	210	108	42	110	12	37	160	14.5	300	250	350	-	4-18.5	5	314	336	285	445	693
160L	2-4-6	254	254	108	42	110	12	37	160	14.5	300	250	350	-	4-18.5	5	314	336	285	445	738
180M	2-4-6	279	241	121	48	110	14	42.5	180	14.5	300	250	350	-	4-18.5	5	349	376	303	503	751
180L	2-4-6	279	279	121	48	110	14	42.5	180	14.5	300	250	350	-	4-18.5	5	349	362	303	503	781
200L	2-4-6	318	305	133	55	110	16	49	200	18.5	350	300	400	-	4-18.5	5	388	421	323	523	844
225S	2-4-6	356	286	149	60	140	18	53	225	18.5	400	350	450	-	8-18.5	5	431	463	349	574	877
225M	2	356	311	149	55	110	16	49	225	18.5	400	350	450	-	8-18.5	5	431	463	349	574	867
	4-6				60	140	18	35													897
250M	2	406	349	168	60	140	18	53	250	24	500	450	550	-	8-18.5	5	484	505	418	632	1016
	4-6				65			58													
280S	2	457	368	190	65	140	18	58	280	24	910	450	550	-	8-18.5	5	542	563	557	698	1031
	4-6				75		20	67.5													
280M	2	457	419	190	65	140	18	58	280	24	970	450	550	-	8-18.5	5	542	563	557	698	1092
	4-6				75		20	67.5													
315S	2	508	406	216	65	140	140	58	315	28	1125	550	660	-	8-24	6	826	618	557	872	1283
	4-6				80	170	170	71													1313
315M	2	508	457	216	65	140	140	58	315	28	1315	550	660	-	8-24	6	826	620	557	872	1473
	4-6				80	170	170	71													1503
315L	2	508	508	216	65	140	140	58	315	28	1315	550	660	-	8-24	6	826	620	557	872	1473
	4-6				80	170	170	71													1503

Subject to modifications

Drawings for information purpose only

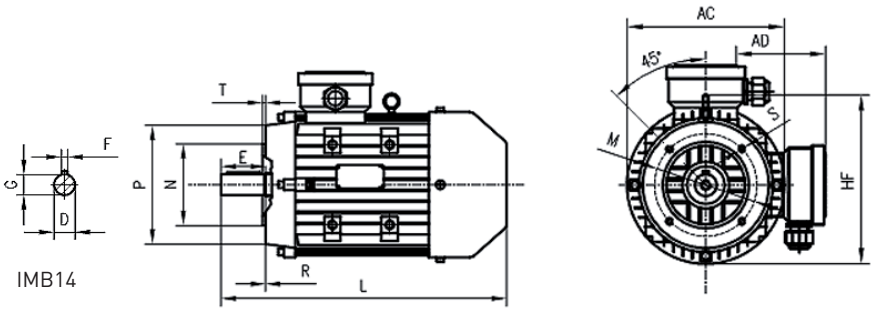
Cast iron construction



IMB34

Dimensions in mm

Frame-size	No. of poles	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AB	AC	AD	HD	L
80M	2-4-6	125	100	50	19	40	6	15.5	80	10	100	80	120	0	4-6	3.0	160	162	136	216	333
90S	2-4-6	140	100	56	24	50	8	20	90	10	115	95	140	0	4-8	3.0	176	168	153	243	348
90L	2-4-6	140	125	56	24	50	8	20	90	10	115	95	140	0	4-8	3.0	176	168	153	243	378
100L	2-4-6	160	140	63	28	60	8	24	100	12	130	110	160	0	4-8	3.5	200	200	171	271	427
112M	2-4-6	190	140	70	28	60	8	24	112	12	130	110	160	0	4-8	3.5	226	216	183	295	426
132S	2-4-6	2-4-6	216	140	89	80	10	33	132	12	265	230	218	0	4-14.5	4	262	254	208	340	459
132M	2-4-6	2-4-6	216	178	89	80	10	33	132	12	265	230	218	0	4-14.5	4	262	254	208	340	497



IMB14

Dimensions in mm

Frame-size	No. of poles	D	E	F	G	M	N	P	R	S	T	AC	AD	L
80M	2-4-6	19	40	6	15.5	100	80	120	0	4-6	3.0	162	136	333
90S	2-4-6	24	50	8	20	115	95	140	0	4-8	3.0	168	153	348
90L	2-4-6	24	50	8	20	115	95	140	0	4-8	3.0	168	153	378
100L	2-4-6	28	60	8	24	130	110	160	0	4-8	3.5	200	171	427
112M	2-4-6	28	60	8	24	130	110	160	0	4-8	3.5	216	183	426
132S	2-4-6	38	80	10	33	265	230	218	0	4-14.5	4	254	208	459
132M	2-4-6	38	80	10	33	265	230	218	0	4-14.5	4	254	208	497

Contacts

ATB Holding

ATB Austria Antriebstechnik AG
Donau-City-Straße 6/15a
1220 Vienna
Austria
Phone: +43 1 90 250 0
Fax: +43 1 90 250 110
E-mail: info@atb-motors.com
http://www.atb-motors.com

Production facilities

ATB Spielberg
ATB Spielberg GmbH
G.-Bauknecht-Str. 1
8724 Spielberg
Austria
Phone: +43 3577 757 0
Fax: +43 3577 757 180
E-mail: info@atb-motors.com

ATB Welzheim
ATB Welzheim GmbH
Silcherstr. 74
73642 Welzheim
Germany
Phone: +49 7182 14 1
Fax: +49 7182 14 590
E-mail: info@de.atb-motors.com

ATB Schorch
ATB Schorch GmbH
Breite Straße 131
41238 Mönchengladbach
Germany
Phone: +49 2166 925 0
Fax: +49 2166 925 100
E-mail: mail@schorch.de

ATB Nordenham
ATB Nordenham GmbH
Helgoländer Damm 75
26954 Nordenham
Germany
Phone: +49 4731 365 0
Fax: +49 4731 365 159
E-mail: info@atb-nordenham.de

ATB Morley
ATB Morley Ltd.
Ruskin Street
Stanningley. Leeds.
West Yorkshire LS28 6QA
United Kingdom
Phone: +44 113 257 1734
Fax: +44 113 257 0751
E-mail: sales@uk.atb-motors.com

ATB Laurence Scott
ATB Laurence Scott Ltd.
Hardy Road
Norwich. Norfolk NR1 1JD
United Kingdom
Phone: +44 1603 628 333
Fax: +44 1603 610 604
E-mail: hvm.sales@laurence-scott.com

ATB Special Products
ATB Special Products Ltd.
Unit 11 Waterfall Lane Trading Estate
Cradley Heath
West Midlands B64 6PU
United Kingdom
Phone: +44 121 698 3100
Fax: +44 121 698 3160
E-mail: spsales@atb-sp.com

ATB Tamel
ATB Tamel S.A.
Ul. Elektryczna 6
33100 Tarnow
Poland
Phone: +48 14 632 11 00
Fax: +48 14 632 11 02
E-mail: office.tamel@tamel.pl

ATB Sever
ATB Sever d.o.o.
Magnetna polja 6
24000 Subotica
Serbia
Phone: +381 24 665 100
Fax: +381 24 546 893
E-mail: sever@rs.atb-motors.com

ATB Fod
ATB FOD d.o.o.
Djordja Vajferta 16
19210 Bor
Serbia
Phone: +381 30 424 147
Fax: +381 30 427 649
E-mail: fod@rs.atb-motors.com

ATB Wuhan
ATB Motors (Wuhan) Co.. Ltd.
No.1. Canglongdao Science Park.
Jiangxia District
430205 Wuhan
China
Phone: +86 27 87 99 3001
Fax: +86 27 87 99 3002
E-mail: atbwhsales@wolong.com

Branch offices

ATB Motors
ATB Motors B.V.
Tasveld 14
8271 RW IJsselmuiden
Netherlands
Phone: +31 38 443 2110
Fax: +31 38 443 2111
E-mail: sales@atb-motors.com

ATB Shanghai
ATB Motors (Shanghai) Co.. Ltd.
25F. NO. 66 North Shaanxi Road
200041 Shanghai
China
Phone: +86 21 6288 6815
Fax: +86 21 6288 5355
E-mail: info@atb-motors.cn

ATB Moscow
ATB Rus LCC
Nauchny proezd 8/1. office 408
117246 Moscow
Russia
Phone: +7 495 545 45 99
Fax: +7 495 545 45 99
E-mail: sales@ru.atb-motors.com

Equity interests

Brook Crompton UK
Brook Crompton UK Ltd.
St. Thomas Road
Huddersfield HD1 3LJ. West Yorkshire
United Kingdom
Phone: +44 1484 557 200
Fax: +44 1484 557 201
E-mail: csc@brookcrompton.com

Brook Crompton Asia Pacific
Brook Crompton Asia Pacific Pte.. Ltd.
100 Cecil Street. # 07-01/02 The Globe
069532 Singapore
Singapore
Phone: +65 6227 0308 126
Fax: +65 6227 0605
E-mail: wegen@linjacob.com

Brook Crompton USA & Canada
Brook Crompton Ltd.
264 Attwell Drive
M9W 5B2 Toronto
Canada
Phone: +1 800 463 8917
E-mail: sales@brookcromptonna.com

ECO 1509.3 EN

ATB SPIELBERG ATB WELZHEIM ATB NORDENHAM SCHORCH ATB SEVER ATB FOD
ATB MORLEY ATB LAURENCE SCOTT ATB SPECIAL PRODUCTS Tamel S.A. ATB WUHAN BROOK CROMPTON OLONG 卧龙