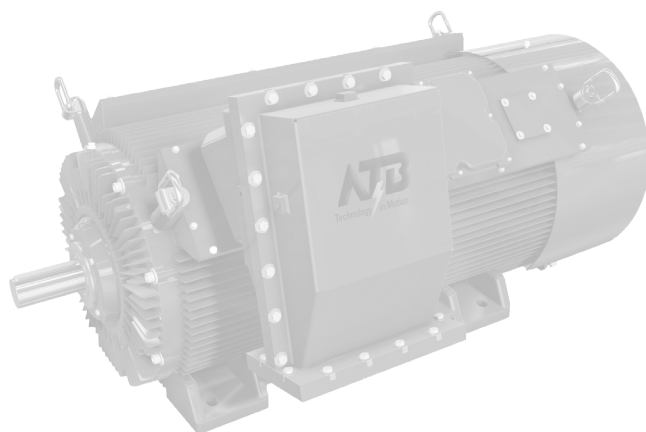
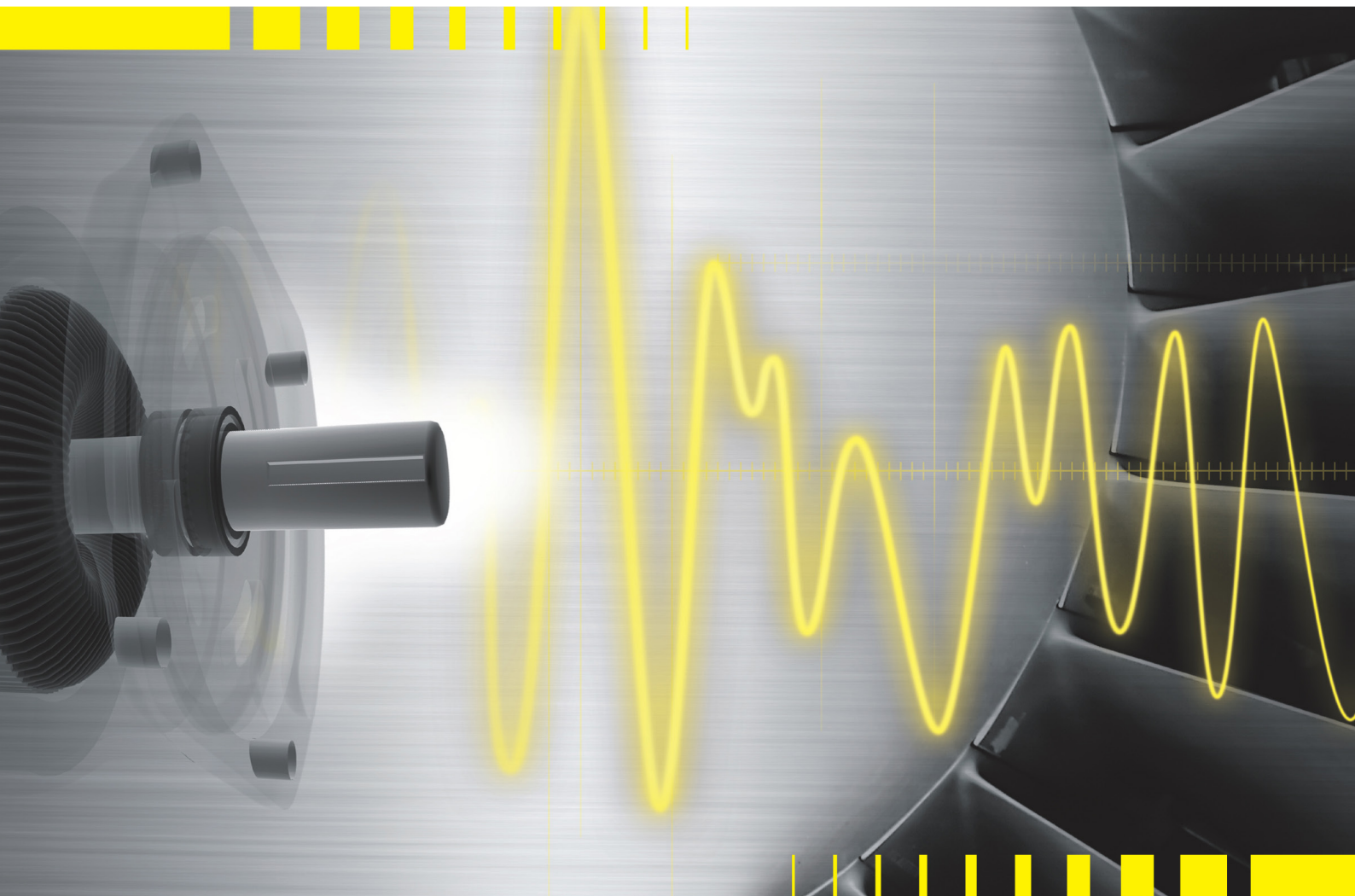


Transnorm Motors Datasheet



Our philosophy

As a competent full-range supplier of bespoke highly efficient electrical drives, we are ready to meet the challenges on a global market.

We find the perfect solution together with our customers and partners for their individual drive applications using our comprehensive development and production competences.

Our product range is as diverse as our customers' needs, leading to highly efficient solutions such as the transnorm motor range.

The transnorm motor range is now upgraded with a IC411 motor family with improved cooling system, providing state of the art performance while committed to our tradition as application expert and development partner.

The highly efficient new motor range has been developed by an international team of ATB specialists bringing together our joint values and expertise and will be produced as new platform on selected sites.

The ATB group represents innovative drive solutions and continually invests in the development of electrical motors and systems to meet the specific requirements of tomorrow.

Characteristics

Performance parameters

- ⚡ Power range from 160 kW to 4 MW
- ⚡ High efficiency up to 97.5 %
- ⚡ Comprehensive range of high and low voltage from 2 to 8 poles
- ⚡ IE3 up to 375 kW (acc. EN 60034-30:20129)
- ⚡ Enclosure IP 55 standard, optional IP 65

Special attributes

- ⚡ Increased power to weight ratio
- ⚡ Optimized design to maximize performance
- ⚡ Improved cooling system IC 411
- ⚡ Lower bearing temperature and easy maintenance
- ⚡ Reduced noise level
- ⚡ Multi-position terminal box
- ⚡ Universal mounting position
- ⚡ Easy customization with modular add-on accessories
- ⚡ Suitable for use with inverter drives
- ⚡ Developed with Computational Fluid Dynamics (CFD)
- ⚡ Easy to fit in multiple industrial application and segments
- ⚡ Worldwide product and service support

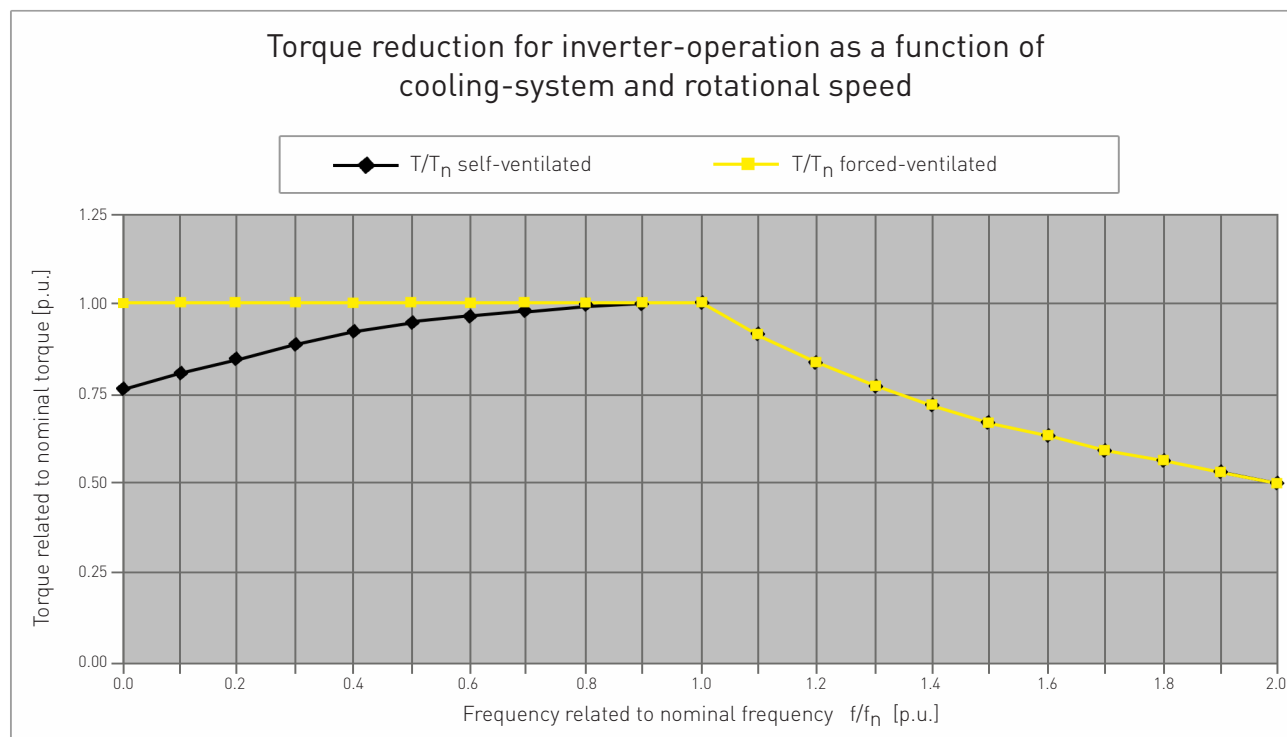
Technical data

Low voltage range

Performance parameters									
Frame size	mm	315	355	400	450	500	560	630	710
Power range	kW	200-500	450-650	400-800	650-1,150	900-1,500	1,250-2,000	1,900-2,140	3,000
Efficiency	%	96.6	97	97	97.2	97	97.3	97.3	97.5
Power factor	$\cos \varphi$	0.88	0.9	0.92	0.89	0.86	0.88	0.89	0.9
Torque	Nm	3,207	4,161	5,124	7,361	14,397	20,615	23,491	28,650
Inertia	kgm^2	3.4	11	21.3	52	100	189.2	315.5	574

High voltage range

Performance parameters									
Frame size	mm	315	355	400	450	500	560	630	710
Power range	kW	160-400	225-600	355-800	560-1,250	710-1,800	1,250-2,250	1,800-3,000	2,600-4,000
Efficiency	%	95.3	96.3	96.8	97	97.4	97.1	97.3	97.5
Power factor	$\cos \varphi$	0.89	0.84	0.88	0.89	0.9	0.89	0.9	0.9
Torque	Nm	1,283	3,843	5,127	7,168	10,220	14,381	19,162	25,555
Inertia	kgm^2	3.3	10.9	21	46.8	100.7	177	320	580



Technical data

	Low voltage range	High voltage range
Voltage	400/690 V	3,6/6/11 kV
Power	200-3,000 kW	160-4,000 kW
Frequency	50/60 Hz	50/60 Hz
Motor type	asynchronous motor with cage rotor	
Starting	direct duty type S1	
Class of insulation	F	
Temperature rise class	B (F*)	
Degree of protection	IP 55	
Degree of protection of terminal box	IP 65	
Method of cooling	IC 411	
Type of construction	IMB3, IMV1	
Ambient temperature	-20°C up to 40°C	
Altitude	up to 1,000 m above sea level	

* Inverter drive motor

Subject to modifications

