



AXIAL BRUSHLESS ELECTRIC MOTORS AX DRIVE

Electric motor AX Drive has a high efficiency and high torque values.

TECHNICAL CHARACTERISTICS (DIAMETER 350 MM):

IP rating	p65
Cooling type	Water type, flow 8 l/min
Diameter/length	348/107 mm
Maximum operating voltage, rpm rating and idle rpm	400 V (2800/3400 rpm)
Peak capacity (several minutes at the cold start and several seconds at the hot start)	290 kW
Nominal capacity of the electric motor	150 kW
Nominal current	275 Arms
Maximum torque	1000 Nm
Nominal torque	500 Nm
Torque constant, Kt	2.5 Nm/Aph_rms
Velocity constant at full load, Kv	4.75 (rpm)/Nm
Velocity constant at no load, Kv	5.9 (rpm)/Nm
Winding resistance, phase-phase	17.4 mOm
Winding connection	Star
Number of terminal pairs	10
Torque ripple	5 Nm
Maximum efficiency	92%
Maximum current (2 minutes at the cold start and during water cooling)	550 Arms
Maximum allowed heating temperature of the stator	120°C





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High torque values allow using this electric motor as a gearless drive, what significantly reduces capacity losses, weight, complexity and further maintenance ratio.

LINE-UP OF AXIAL ELECTRIC MOTORS:

- 1 Diameter 350 mm, capacity 100 kW

- 2 Diameter 270 mm, capacity 70 kW

- 3 Diameter 230 mm, capacity 50 kW

- 4 Diameter 210 mm, capacity 40 kW

- 5 Diameter 190 mm, capacity 30 kW

FUNCTIONALITY:

- 1. High specific capacity and torque values.
- 2. Possible frameless use.
- 3. Possible control of rotation speed in a wide range.
- 4. Low weight, which does not significantly increase the spring weight.

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