

MOTOR TECHNICAL SPECIFICATIONS

Technical features

Type of technology: MOTOR BL

Motor Code:

Winding code: PSFBL89

Performance and Specifications

Applied voltage	29 Vrms
Rated speed	2800 Rpm
Nominal Power	5000 W
Nominal Torque	17.1 Nm
Nominal Current	116 Arms
Peak Torque	49.1 Nm
Peak Current	291 Arms
Stall Torque	57.4 Nm
Stall Current	340 Arms
N. Poles	6
Connection	Y
Ke	10.2 V/1000rpm
Kt	0.1687 Nm/A
Winding resistance +/-5%	0.01 Ohm
Winding inductance	0.038 mH
Thermal constant	S2 60'
Thermal threshold	KTY84-130
Rotor Moment of Inertia	47.3 kgm ² x10 ⁻⁴

Motor Feedback

Analogue sinusoidal outputs	Power supply + 5V DC
Signal amplitude	2 ± 0.1 Vpp
Canal A- Canal B	Shift 90 °
Resolution	1 sinusoidal / RPM

Other Features

Insulation Class	H
Ambient Temp.	0 to +40°C
Level of Protection	IP54
Enclosure	Totally enclose; self-cooled

Optional brake

Rated Voltage +/- 10 %	Vcc
Braking torque	Nm

Duty Cycle Curve PSFBL89

