



Dimension drawing

Information: Drawings are not to scale.

Values at nominal voltage

Nominal voltage	12 V
No load speed	4360 rpm
No load current	163 mA
Nominal speed	2910 rpm
Nominal torque (max. continuous torque)	54.9 mNm
Nominal current (max. continuous current)	2.02 A
Stall torque	247 mNm
Stall current	9.69 A
Max. efficiency	76 %

Characteristics

Terminal resistance	1.24 Ω
Terminal inductance	0.56 mH
Torque constant	25.5 mNm/A
Speed constant	374 rpm/V
Speed / torque gradient	18.2 rpm/mNm
Mechanical time constant	17.6 ms
Rotor inertia	92.5 gcm ²

Thermal data

Thermal resistance housing-ambient	6.73 K/W
Thermal resistance winding-housing	3.92 K/W
Thermal time constant winding	11.4 s
Thermal time constant motor	296 s
Ambient temperature	-40...+100 °C
Max. winding temperature	+125 °C

Mechanical data

Bearing type	ball bearings
Max. speed	10000 rpm
Axial play	0 - 0.14 mm
Max. axial load (dynamic)	4.8 N
Max. force for press fits (static)	53 N
(static, shaft supported)	1000 N
Max. radial load	18 N, 5 mm from flange

Other specifications

Number of pole pairs	8
Number of phases	3
Number of autoclave cycles	0

Product

Weight	75 g
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