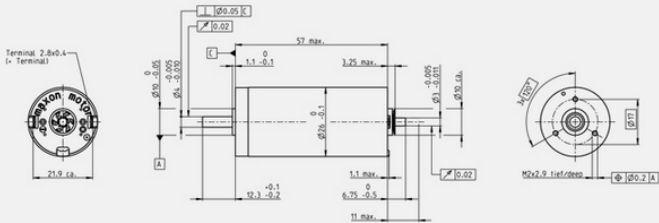


TECHNICAL ILLUSTRATIONS



Dimension drawing

Information: Drawings are not to scale.

VALUES AT NOMINAL VOLTAGE

Nominal voltage	12 V
No load speed	5320 rpm
No load current	68.3 mA
Nominal speed	4690 rpm
Nominal torque (max. continuous torque)	45.8 mNm
Nominal current (max. continuous current)	2.2 A
Stall torque	384 mNm
Stall current	17.9 A
Max. efficiency	88 %

CHARACTERISTICS

Terminal resistance	0.671 Ω
Terminal inductance	0.129 mH
Torque constant	21.4 mNm/A
Speed constant	445 rpm/V
Speed / torque gradient	13.9 rpm/mNm
Mechanical time constant	3.13 ms
Rotor inertia	21.4 gcm²

THERMAL DATA

Thermal resistance housing-ambient	10.2 K/W
Thermal resistance winding-housing	3.01 K/W
Thermal time constant winding	24.1 s
Thermal time constant motor	620 s
Ambient temperature	-30...+85 °C
Max. winding temperature	+100 °C

MECHANICAL DATA

Bearing type	sleeve bearing
Max. speed	5900 rpm
Axial play	0 - 0.2 mm
Radial play	0.02 mm
Max. axial load (dynamic)	0.1 N
Max. force for press fits (static)	80 N
(static, shaft supported)	500 N
Max. radial load	5.5 N, 5 mm from flange

OTHER SPECIFICATIONS

Number of pole pairs	1
Number of commutator segments	11
Number of autoclave cycles	0

PRODUCT

Weight	170 g
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OPERATING RANGE

