

RE 35 Ø35 mm, Graphite Brushes, 90 Watt

Part number 273752



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Price scales		
Price per unit	1-4	€268.91
	5-19	€221.91
	20-49	€174.18
	from 50	On request
Prices excluding VAT and shipping costs		

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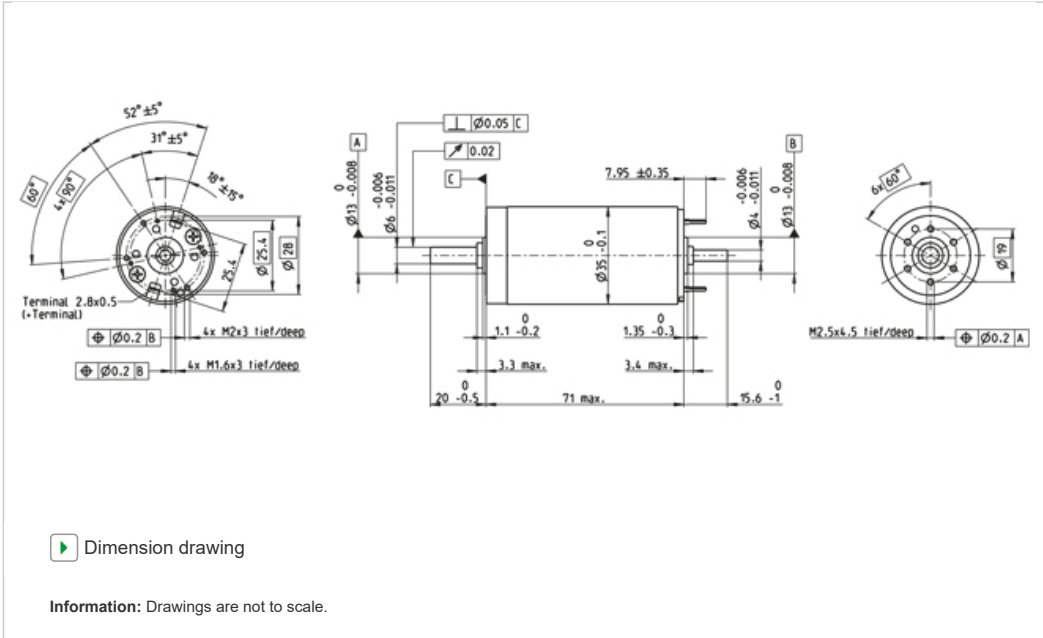
Print specifications

Description

maxon DC motors are high-quality motors fitted with powerful permanent magnets. The “heart” of the motor is the worldwide patented ironless rotor. For you, this means cutting-edge technology in compact, powerful and low inertia drives.

Specifications

Technical illustrations



Values at nominal voltage

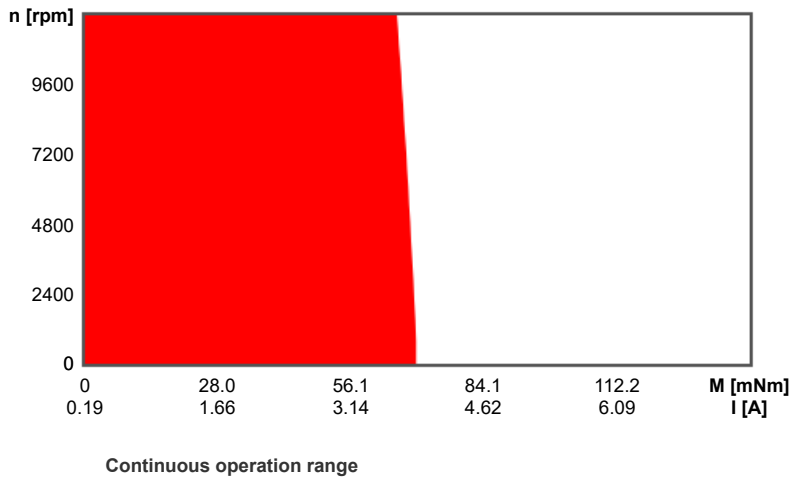
Nominal voltage	15 V
No load speed	7200 rpm
No load current	188 mA
Nominal speed	6500 rpm
Nominal torque (max. continuous torque)	74.2 mNm
Nominal current (max. continuous current)	4 A
Stall torque	931 mNm
Stall current	47.9 A
Max. efficiency	85 %

Characteristics

Terminal resistance	0.313 Ω
Terminal inductance	0.085 mH
Torque constant	19.4 mNm/A
Speed constant	491 rpm/V
Speed / torque gradient	7.91 rpm/mNm
Mechanical time constant	5.62 ms

	Rotor inertia	67.9 gcm²
Thermal data		
	Thermal resistance housing-ambient	6.2 K/W
	Thermal resistance winding-housing	2 K/W
	Thermal time constant winding	28.3 s
	Thermal time constant motor	707 s
	Ambient temperature	-30...+100 °C
	Max. winding temperature	+155 °C
Mechanical data		
	Bearing type	ball bearings
	Max. speed	12000 rpm
	Axial play	0.05 - 0.15 mm
	Radial play	0.025 mm
	Max. axial load (dynamic)	5.6 N
	Max. force for press fits (static)	110 N
	(static, shaft supported)	1200 N
	Max. radial load	28 N, 5 mm from flange
Other specifications		
	Number of pole pairs	1
	Number of commutator segments	13
	Number of autoclave cycles	0
Product		
	Weight	340 g

Operating Range



Short term operation range

Downloads

CAD-Files (STEP)		
	CAD drawing (STEP) (ZIP 202 KB)	Version 2017
Catalog page		
	Katalogseiten (deutsch, PDF 107 KB)	Version 2019
	Catalog page (english, PDF 108 KB)	Version 2019
	カタログページ (日本語, PDF 117 KB)	Version 2017