

RECOMMENDED

RE 40 Ø40 mm, Graphite Brushes, 150 Watt

Part number 148867



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Price scales		
Price per unit	1-4	€347.73
	5-19	€287.36
	20-49	€226.00
	from 50	On request
Prices excluding VAT and shipping costs		

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1

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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

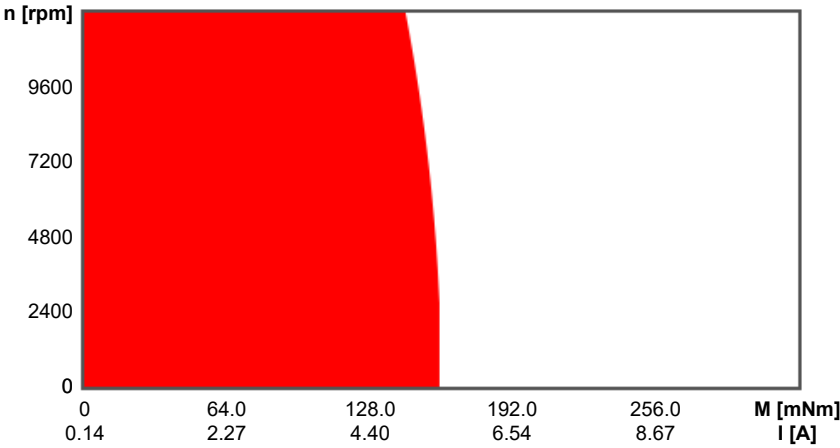
▶ Dimension drawing

**Information:** Drawings are not to scale.

Values at nominal voltage		
	Nominal voltage	24 V
	No load speed	7580 rpm
	No load current	137 mA
	Nominal speed	6940 rpm
	Nominal torque (max. continuous torque)	177 mNm
	Nominal current (max. continuous current)	6 A
	Stall torque	2420 mNm
	Stall current	80.2 A
	Max. efficiency	91 %
Characteristics		
	Terminal resistance	0.299 Ω
	Terminal inductance	0.082 mH
	Torque constant	30.2 mNm/A
	Speed constant	317 rpm/V
	Speed / torque gradient	3.14 rpm/mNm
	Mechanical time constant	4.67 ms
	Rotor inertia	142 gcm²
Thermal data		
	Thermal resistance housing-ambient	4.65 K/W

	Thermal resistance winding-housing	1.93 K/W
	Thermal time constant winding	42.8 s
	Thermal time constant motor	809 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	480 g

Operating Range



Continuous operation range

Short term operation range

Downloads

	<b>CAD-Files (STEP)</b>	
	<a href="#">CAD drawing (STEP) (ZIP 184 KB)</a>	Version 2017
	<b>Catalog page</b>	
	<a href="#">Katalogseiten (deutsch, PDF 83 KB)</a>	Version 2019
	<a href="#">Catalog page (english, PDF 84 KB)</a>	Version 2019
	<a href="#">カタログページ (日本語, PDF 116 KB)</a>	Version 2017