OK

DETAILS

EC-i 40 Ø40 mm, brushless, 50 Watt, with Hall sensors | High Torque

Part number 496653



PRICE SCALES	Quantity	Price per unit
Prices excluding VAT and shipping costs	1-4	€224.91
	5-19	€191.82
	20-49	€158.46
	from 50	On request

Start combination

Order quantity

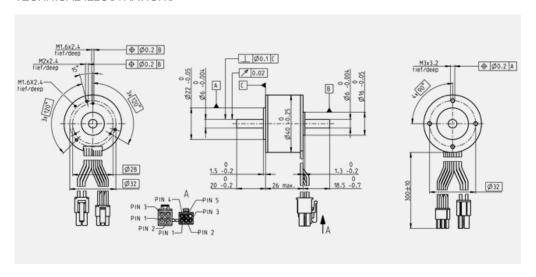
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Specifications Description Downloads

Specifications

TECHNICAL ILLUSTRATIONS



Dimension drawing

Information: Drawings are not to scale.

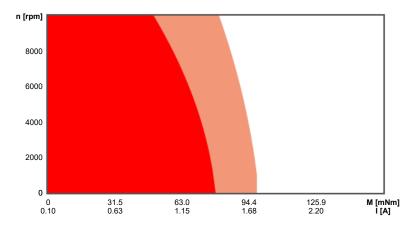
VALUES AT NOMINAL VOLTAGE

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Nominal voltage	48 V
No load speed	7560 rpm
No load current	103 mA
Nominal speed	6310 rpm
Nominal torque (max. continuous torque)	73.3 mNm
Nominal current (max. continuous current)	1.18 A
Stall torque	1090 mNm
Stall current	18.2 A
Max. efficiency	85 %
CHARACTERISTICS	
Terminal resistance	2.63 Ω
Terminal inductance	1.93 mH
Torque constant	59.6 mNm/A
Speed constant	160 rpm/V
Speed / torque gradient	7.07 rpm/mNm
Mechanical time constant	0.948 ms
Rotor inertia	12.8 gcm ²
THERMAL DATA	
Thermal resistance housing-ambient	9.91 K/W
Thermal resistance winding-housing	3.77 K/W
Thermal time constant winding	23.8 s
Thermal time constant motor	892 s
Ambient temperature	-40+100 °C
Max. winding temperature	+155 °C
MECHANICAL DATA	
Bearing type	ball bearings
Max. speed	10000 rpm
Axial play	0 mm, at radial load < 9 N
	0.15 mm, at radial load > 9 N
Max. axial load (dynamic)	7 N
Max. force for press fits (static)	87 N
(static, shaft supported)	6500 N
Max. radial load	21 N, 5 mm from flange
OTHER SPECIFICATIONS	
Number of pole pairs	7
Number of pole pairs Number of phases	3

PRODUCT

Weight 180 g

OPERATING RANGE



Continuous operation range

Short term operation range

Description

Because of their optimized magnetic core, the brushless EC-i motors with iron core windings offer a very high torque density and low cogging torque. The multi-pole internal rotor is extremely dynamic. Its solid design with a steel flange and housing make this motor suitable for a wide range of applications. Order your EC-i drive online now.

Downloads

CAD-FILES (STEP)

CAD model (STEP) (ZIP 235 KB)

Version 2017

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