

DETAILS

RECOMMENDED

EC 40 Ø40 mm, brushless, 170 Watt, with Hall sensors

Part number 393023



PRICE SCALES	Quantity	Price per unit
Prices excluding VAT and shipping costs	1-4	€537.82
	5-19	€429.36
	20-49	€353.73
	from 50	On request

Start combination

Order quantity

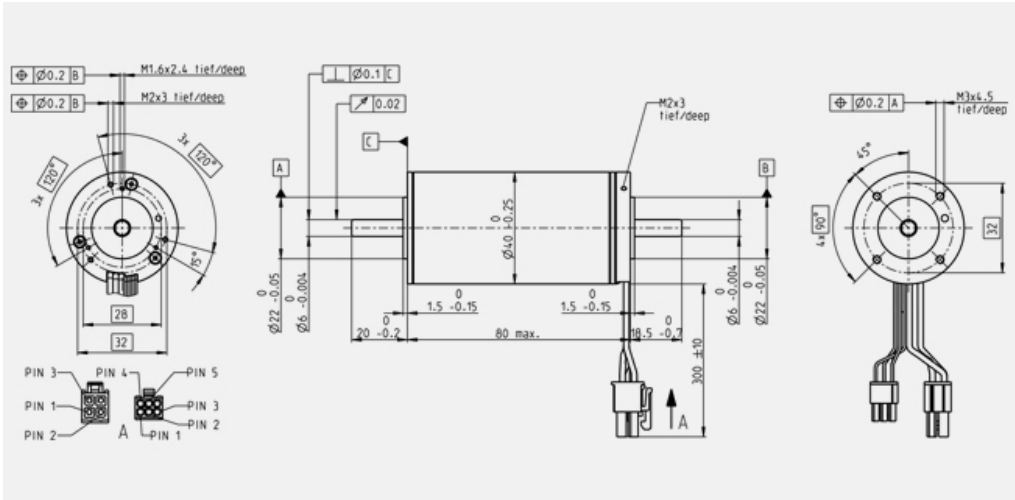
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Specifications

TECHNICAL ILLUSTRATIONS



Dimension drawing

Information: Drawings are not to scale.

VALUES AT NOMINAL VOLTAGE

Nominal voltage	24 V
No load speed	9840 rpm
No load current	408 mA
Nominal speed	9130 rpm
Nominal torque (max. continuous torque)	163 mNm
Nominal current (max. continuous current)	7.35 A
Stall torque	2660 mNm
Stall current	115 A
Max. efficiency	89 %

CHARACTERISTICS

Terminal resistance	0.209 Ω
Terminal inductance	0.084 mH
Torque constant	23.2 mNm/A
Speed constant	412 rpm/V
Speed / torque gradient	3.71 rpm/mNm
Mechanical time constant	2.09 ms
Rotor inertia	53.8 gcm ²

THERMAL DATA

Thermal resistance housing-ambient	5.21 K/W
Thermal resistance winding-housing	1.05 K/W
Thermal time constant winding	17.6 s
Thermal time constant motor	1910 s
Ambient temperature	-40...+100 °C
Max. winding temperature	+155 °C

MECHANICAL DATA

Bearing type	ball bearings
Max. speed	18000 rpm
Axial play	0 - 0.14 mm
Max. axial load (dynamic)	23 N
Max. force for press fits (static)	100 N
(static, shaft supported)	5500 N
Max. radial load	75 N, 5 mm from flange

OTHER SPECIFICATIONS

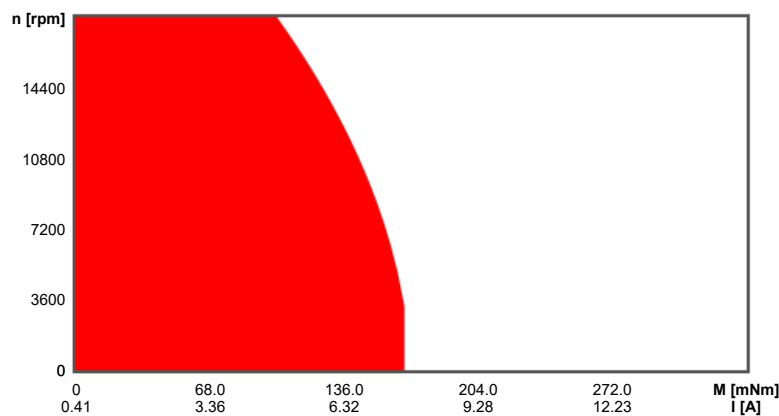
Number of pole pairs	1
Number of phases	3
Number of autoclave cycles	0

PRODUCT

Weight

580 g

OPERATING RANGE



Continuous operation range

Short term operation range

Description

The electronically commutated **EC motors** are characterized especially by their favorable torque characteristics, high power, extremely broad speed range and, of course, by their unsurpassed service life.

Downloads

CAD-FILES (STEP)

CAD drawing (STEP) (ZIP 275 KB)

Version 2017

CATALOG PAGE

目录页 (chinesisch, PDF 1 MB)

Version 2020

Katalogseiten (deutsch, PDF 114 KB)

Version 2020

Catalog page (english, PDF 112 KB)

Version 2020

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Version 2017

Videos

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