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DETAILS

EC-4pole 30 Ø30 mm, brushless, 200 Watt | High Power

Part number 305013



PRICE SCALES	Quantity	Price per unit
Prices excluding VAT and shipping costs	1-4	\$975.63
	5-19	\$827.88
	20-49	\$670.63
	from 50	On request

Start combination

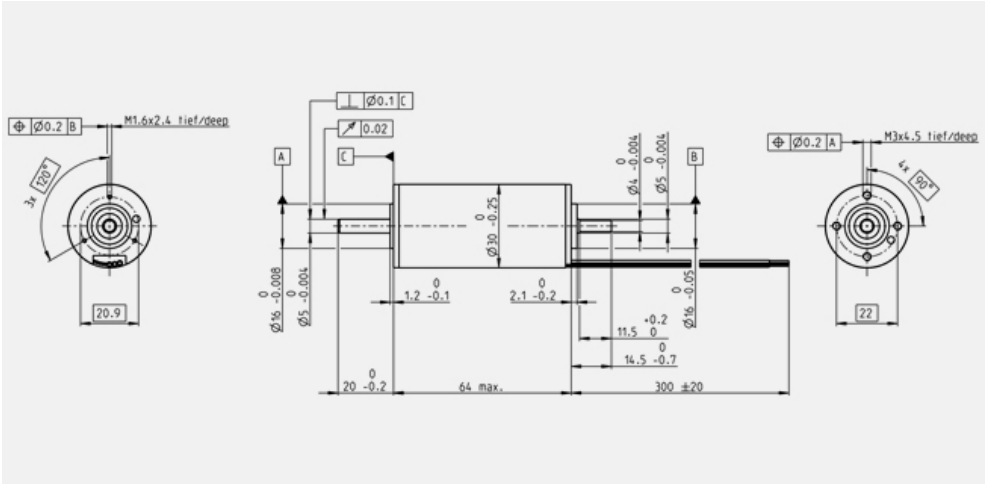
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Specifications	Description	Downloads
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Specifications

TECHNICAL ILLUSTRATIONS



Dimension drawing

Information: Drawings are not to scale.

VALUES AT NOMINAL VOLTAGE	
Nominal voltage	24 V
No load speed	16700 rpm
No load current	723 mA
Nominal speed	16100 rpm

Nominal torque (max. continuous torque)	95.6 mNm
Nominal current (max. continuous current)	7.61 A
Stall torque	3240 mNm
Stall current	236 A
Max. efficiency	90 %
CHARACTERISTICS	
Terminal resistance	0.102 Ω
Terminal inductance	0.0163 mH
Torque constant	13.7 mNm/A
Speed constant	697 rpm/V
Speed / torque gradient	5.17 rpm/mNm
Mechanical time constant	1.8 ms
Rotor inertia	33.3 gcm²
THERMAL DATA	
Thermal resistance housing-ambient	7.4 K/W
Thermal resistance winding-housing	0.209 K/W
Thermal time constant winding	2.11 s
Thermal time constant motor	1180 s
Ambient temperature	-20...+100 °C
Max. winding temperature	+155 °C
MECHANICAL DATA	
Bearing type	ball bearings
Max. speed	25000 rpm
Axial play	0 mm, at radial load < 4 N
	0.14 mm, at radial load > 4 N
Max. axial load (dynamic)	5.5 N
Max. force for press fits (static)	73 N
(static, shaft supported)	1300 N
Max. radial load	25 N, 5 mm from flange
OTHER SPECIFICATIONS	
Number of pole pairs	2
Number of phases	3
Number of autoclave cycles	0
PRODUCT	
Weight	300 g

Description

This **4-pole power motor** is one of the best in its class and demonstrates excellent performance thanks to maxon's winding technology: top performance per volume and weight unit, quality and security thanks to largely automated production, cogging-free motion and of course an unprecedented service life.

Downloads

CAD-FILES (STEP)

CAD model (STEP) (ZIP 94 KB)	Version 2017
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CATALOG PAGE

目录页 (chinesisch, PDF 1014 KB)	Version 2020
Katalogseiten (deutsch, PDF 97 KB)	Version 2020
Catalog page (english, PDF 115 KB)	Version 2021
Catálogo Pagina (español, PDF 103 KB)	Version 2020
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Videos

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