

EC 20 flat Ø20 mm, brushless, 5 Watt, with integrated electronics, without cover
1-Q-speed controller

Part number 349731



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Price per unit	1-4	CHF 157.00
	5-19	CHF 133.30
	20-49	CHF 108.10
	from 50	On request
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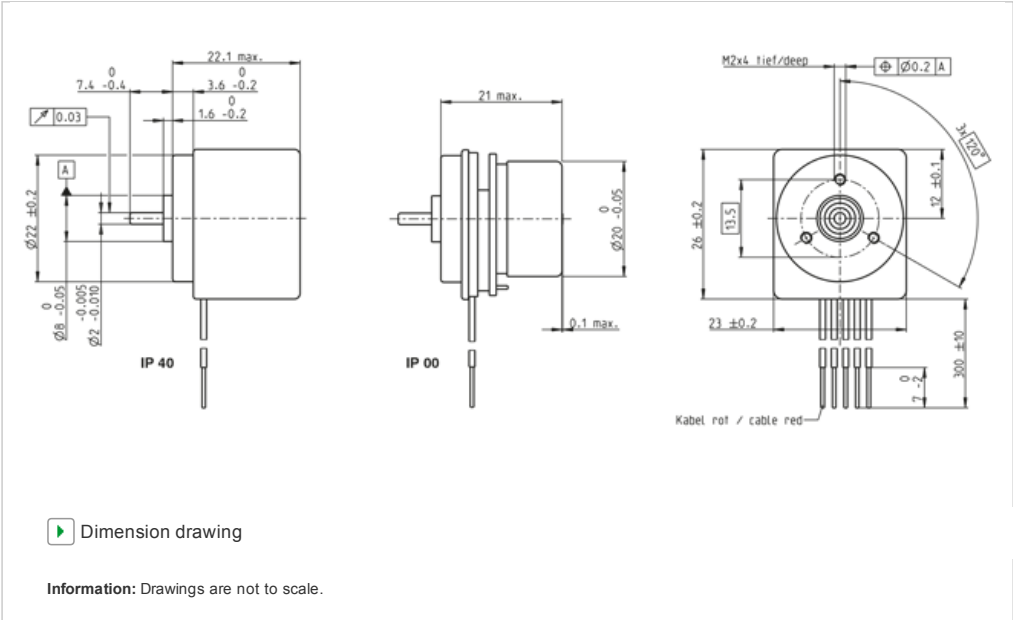
Print specifications

Description

Thanks to their flat design, the **brushless EC flat motors** are exactly the right drive for many applications. The well-conceived, simple engineering allows mainly automated production which results in a favorable price.

Specifications







Technical illustrations



General data		
	Status	provisional
Values at nominal voltage		
	Nominal voltage	24 V
	No load speed	6000 rpm
	No load current	32.9 mA
	Nominal speed	6000 rpm
	Nominal torque (max. continuous torque)	7.31 mNm
	Nominal current (max. continuous current)	0.377 A
	Stall torque	13.2 mNm
	Stall current	0.73 A
	Max. efficiency	54 %
Characteristics		
	Operating mode	Speed
	Terminal resistance	14.6 Ω
	Terminal inductance	2.62 mH
	Torque constant	18.1 mNm/A
	Speed constant	527 rpm/V
	Speed / torque gradient	424 rpm/mNm
	Mechanical time constant	22.6 ms
	Rotor inertia	5.1 gcm²
	Speed set value input	0.33..10.8
	Scaling speed set value input	600 rpm/V
Thermal data		
	Thermal resistance housing-ambient	10.6 K/W
	Thermal resistance winding-housing	5.32 K/W

	Thermal time constant winding	3.66 s
	Thermal time constant motor	17.6 s
	Ambient temperature	-40...+85 °C
	Max. winding temperature	+125 °C
Mechanical data		
	Bearing type	ball bearings
	Max. speed	6480 rpm
	Axial play	0 - 0.14 mm
	Max. axial load (dynamic)	1.8 N
	Max. force for press fits (static)	26 N
	(static, shaft supported)	200 N
	Max. radial load	12 N, 5 mm from flange
Other specifications		
	Number of pole pairs	4
	Number of phases	3
	Number of autoclave cycles	0
Product		
	Weight	37 g

Downloads

	Catalog page	
	➤ Catalog pages (deutsch, PDF 98 KB)	Version 2015
	➤ Catalog page (englisch, PDF 457 KB)	Version 2015
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	CAD-Files (STEP)	
	➤ CAD drawing (STEP) (ZIP 57 KB)	Version 2012