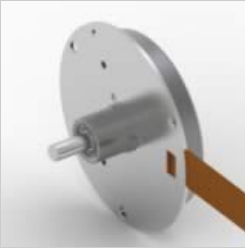


EC 45 flat Ø42.8 mm, brushless, 12 Watt, with Hall sensors

Part number 200188



Enlarge image

- Compare product
- Add to wish list
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Price scales		
Price per unit	1-4	CHF 67.60
	5-19	CHF 59.60
	20-49	CHF 50.30
	from 50	On request
Prices excluding VAT		

Start combination

Order quantity 1

Add to cart

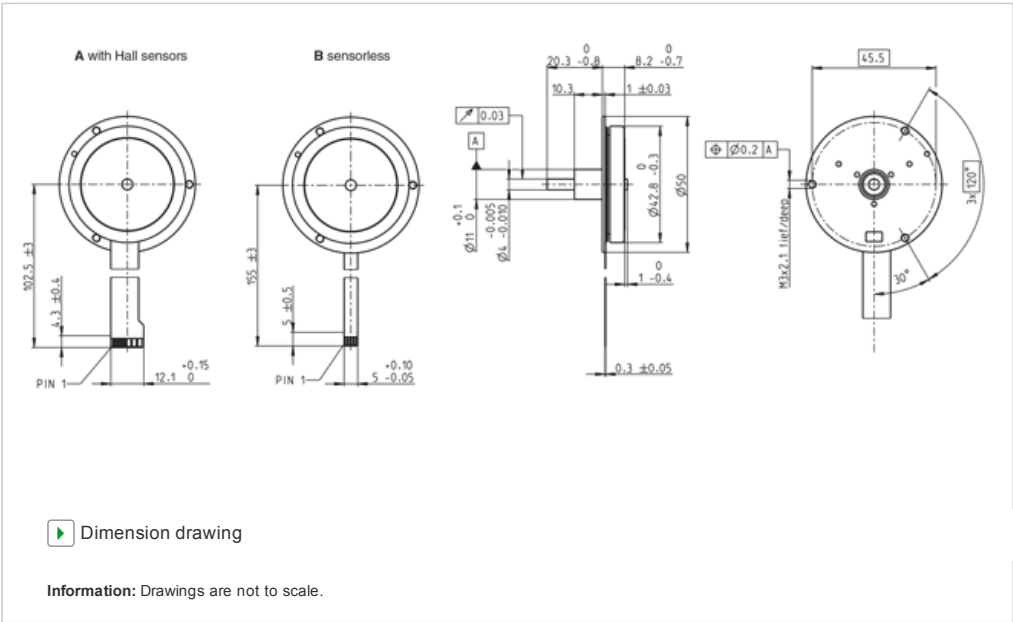
Print specifications

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



Dimension drawing

Values at nominal voltage		
	Nominal voltage	9 V
	No load speed	7990 rpm
	No load current	145 mA
	Nominal speed	4830 rpm
	Nominal torque (max. continuous torque)	22.8 mNm
	Nominal current (max. continuous current)	1.96 A
	Stall torque	89.1 mNm
	Stall current	8.57 A
	Max. efficiency	76 %
Characteristics		
	Terminal resistance	1.05 Ω
	Terminal inductance	0.32 mH
	Torque constant	10.4 mNm/A
	Speed constant	918 rpm/V
	Speed / torque gradient	92.7 rpm/mNm
	Mechanical time constant	50.8 ms
	Rotor inertia	52.3 gcm²
Thermal data		
	Thermal resistance housing-ambient	4.89 K/W
	Thermal resistance winding-housing	4.93 K/W
	Thermal time constant winding	8.31 s
	Thermal time constant motor	148 s
	Ambient temperature	-40...+100 °C
	Max. winding temperature	+125 °C
Mechanical data		
	Bearing type	ball bearings

	Max. speed	10000 rpm
	Axial play	0 - 0.6 mm
	Max. axial load (dynamic)	4.8 N
	Max. force for press fits (static)	45 N
	(static, shaft supported)	1000 N
	Max. radial load	5.5 N, 8 mm from flange
Other specifications		
	Number of pole pairs	8
	Number of phases	3
	Number of autoclave cycles	0
Product		
	Weight	57 g

Downloads

- Catalog page

> Catalog pages (deutsch, PDF 83 KB)

> Catalog page (englisch, PDF 440 KB)

> カタログのページ (日本語, PDF 107 KB)

Version 2015

Version 2015

Version 2014
- CAD-Files (STEP)

> CAD drawing (STEP) (ZIP 41 KB)

Version 2012