# EC 45 flat Ø42.9 mm, brushless, 30 Watt, with Hall sensors

Part number 200142



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 Price scales

 Price per unit
 1-4
 USD 100.38

 5-19
 USD 88.50

 20-49
 USD 74.75

 from 50
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 Prices excluding VAT

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Print specifications

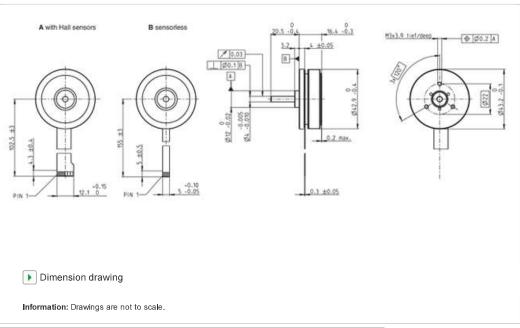
## Description

Enlarge image

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



/alues at nominal voltage	
Nominal voltage	12 V
No load speed	4370 rpm
No load current	163 mA
Nominal speed	2940 rpm
Nominal torque (max. continuous torque)	55 mNm
Nominal current (max. continuous current)	2.02 A
Stall torque	255 mNm
Stall current	10 A
Max. efficiency	76 %
Characteristics	
Terminal resistance	1.2 Ω
Terminal inductance	0.56 mH
Torque constant	25.5 mNm/A
Speed constant	374 rpm/V
Speed / torque gradient	17.6 rpm/mNm
Mechanical time constant	17.1 ms
Rotor inertia	92.5 gcm²
hermal data	
Thermal resistance housing-ambient	6 60 KW

Thermal resistance nousing-ambient	0.001000
Thermal resistance winding-housing	3.92 K/W
Thermal time constant winding	11.4 s
Thermal time constant motor	295 s
Ambient temperature	-40+100 °C
Max. winding temperature	+125 °C
Mechanical data	
Bearing type	ball bearings
Max. speed	10000 rpm
Axial play	0 - 0.14 mm
Max. axial load (dynamic)	4.8 N
Max. force for press fits (static)	53 N
(static, shaft supported)	1000 N
Max. radial load	21 N, 8 mm from flange
Other specifications	
Number of pole pairs	8
Number of phases	3
Number of autoclave cycles	0
Product	
Weight	75 g

## Downloads

# Catalog page

▶ Catalog pages (deutsch, PDF 83 KB) ▶ Catalog page (englisch, PDF 439 KB) ▶ カタログのページ (日本語, PDF 394 KB) Version 2015 Version 2015 Version 2014

# CAD-Files (STEP)

> CAD drawing (STEP) (ZIP 52 KB)

Version 2012