EC 32 flat Ø32 mm, brushless, 15 Watt, with Hall sensors

Part number 267121



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Print specifications

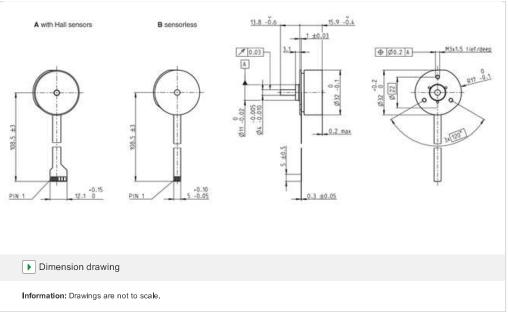
Description

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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	24 V
No load speed	4530 rpm
No load current	36.9 mA
Nominal speed	2760 rpm
Nominal torque (max. continuous torque)	25.5 mNm
Nominal current (max. continuous current)	0.5 A
Stall torque	85.4 mNm
Stall current	1.74 A
Max. efficiency	73 %
Characteristics	
Terminal resistance	13.8 Ω
Terminal inductance	7.73 mH
Torque constant	49 mNm/A
Speed constant	195 rpm/V
Speed / torque gradient	54.8 rpm/mNm
Mechanical time constant	20.1 ms
Rotor inertia	35 gcm ²
hermal data	·
Thermal resistance housing-ambient	10.8 K/W
Thermal resistance winding-housing	4.99 K/W
Thermal time constant winding	8.78 s
Thermal time constant motor	121 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	14 N, 5 mm from flange
Other specifications	
Number of pole pairs	4
Number of phases	3
Number of autoclave cycles	0
Product	
Weight	46 g

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▶ CAD-Files (STEP)

> CAD drawing (STEP) (ZIP 42 KB)

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