

DETAILS

EC 90 flat Ø90 mm, brushless, 400 W, with Hall sensors and cables | Open rotor

Part number 607934



PRICE SCALES	Quantity	Price per unit
Prices excluding VAT and shipping costs	1-4	€298.94
	5-19	€250.83
	20-49	€217.26
	from 50	On request

Start combination

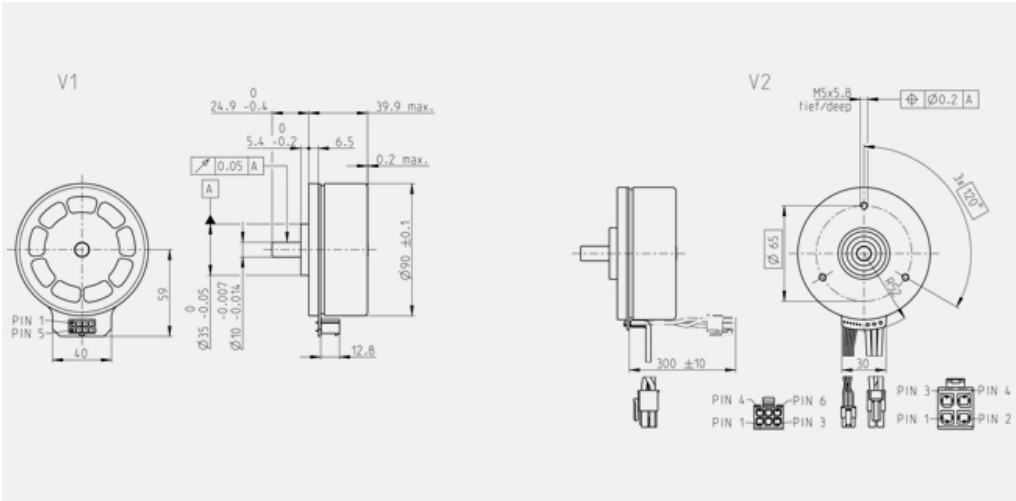
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Specifications	Description	Downloads
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Specifications

TECHNICAL ILLUSTRATIONS



Dimension drawing

VALUES AT NOMINAL VOLTAGE	
Nominal voltage	30 V
No load speed	2080 rpm
No load current	475 mA

Nominal speed	1700 rpm
Nominal torque (max. continuous torque)	1260 mNm
Nominal current (max. continuous current)	8.72 A
Stall torque	11700 mNm
Stall current	107 A
Max. efficiency	87 %
CHARACTERISTICS	
Terminal resistance	0.28 $\Omega$
Terminal inductance	0.369 mH
Torque constant	136 mNm/A
Speed constant	70.2 rpm/V
Speed / torque gradient	0.144 rpm/mNm
Mechanical time constant	7.21 ms
Rotor inertia	4760 gcm <sup>2</sup>
THERMAL DATA	
Thermal resistance housing-ambient	1.37 K/W
Thermal resistance winding-housing	1.02 K/W
Thermal time constant winding	31.9 s
Thermal time constant motor	204 s
Ambient temperature	-40...+100 °C
Max. winding temperature	+125 °C
MECHANICAL DATA	
Bearing type	ball bearings
Max. speed	5000 rpm
Axial play	{0} {1}, at radial load {2} {3} {4}
	0.14 mm, at radial load > 40 N
Max. axial load (dynamic)	34 N
Max. force for press fits (static)	440 N
(static, shaft supported)	8000 N
Max. radial load	130 N, 10 mm from flange
OTHER SPECIFICATIONS	
Number of pole pairs	11
Number of phases	3
Number of autoclave cycles	0
PRODUCT	
Weight	964 g

## Description

The flat design of the brushless **EC flat motors** makes them the perfect solution for many applications. The thought-through, simple design makes it possible to largely automate the manufacturing—this is reflected by the economical price.

The open rotor supports cooling during operation, which permits greater continuous torques.

## Downloads

### CAD-FILES (STEP)

CAD model (STEP) (ZIP 373 KB)

Version 2019

### CATALOG PAGE

目录页 (chinesisch, PDF 1 MB)

Version 2020

Katalogseiten (deutsch, PDF 139 KB)

Version 2020

Catalog page (english, PDF 158 KB)

Version 2021

Catálogo Pagina (español, PDF 141 KB)

Version 2020

Page de catalogue (française, PDF 140 KB)

Version 2020

カタログページ (日本語, PDF 384 KB)

Version 2020

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