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PROGRAMS

- ☒ All
- ☐ maxon DC motor
 - ☐ DCX Program
 - ☐ DC-max Program
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 - ☐ A-max Program

☐ maxon EC motor
 - ☐ ECX Program
 - ☐ IDX Program
 - ☐ EC Program
 - ☐ EC-max Program
 - ☐ EC-4pole Program
 - ☐ EC-i Program
 - ☐ EC flat Program
 - ☐ EC frameless

☐ Configurable
 - ☐ Brushed DC motors
 - ☐ Brushless DC motors

PARAMETER

Power (W)

Torque (mNm)

Speed constant

Ø (mm)

Max. speed

Commutation

Length (mm)

Number of autoclave cycles

Search in category

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PART NO.	ARTICLE	TECHNICAL DATA					PRICE
		Ø	P	U _N	N ₀	M _N	
734439 NEW	EC frameless DT 50 S, Ø54 mm, brushless, 170W	50 mm	150 W	48 V	6840 rpm	332 mNm	€1,050.71
740953 NEW	EC frameless DT 85 M, Ø90 mm, brushless, 450W	85 mm		48 V	3280 rpm	1790 mNm	€1,274.91
	EC frameless DT 50 M, Ø54 mm, brushless, 150W	50 mm	150 W	48 V	4470 rpm	416 mNm	€1,137.33

758031

NEW

759875

NEW

783327

NEW

783332

NEW

800948

NEW

814370

NEW

NEW

NEW

EC frameless DT 85 L, Ø90 mm, brushless, 400W	85 mm		48 V	1890 rpm	2900 mNm	€1,380.48
EC frameless DT 65 S, Ø70 mm, brushless, 240 W	65 mm		48 V	4690 rpm	667 mNm	€1,157.02
EC frameless DT 65 M, Ø70 mm, brushless, 210W	65 mm		48 V	2630 rpm	1110 mNm	€1,253.02
EC frameless DT 38 M, Ø42 mm	38 mm		24 V	6420 rpm	185 mNm	€923.87
EC frameless DT 38 S, Ø42 mm	38 mm		24 V	12400 rpm	98.2 mNm	€856.82
ECX FLAT 22 L, ø22 mm, brushless, with Hall sensors	22 mm	37 W	36 V	11100 rpm	28 mNm	€188.20
ECX FLAT 42 M ø42 mm, brushless, with Hall sensors	42 mm	150 W	24 V	8050 rpm	214 mNm	On request

12345...181

DETAILS

EC 60 flat Ø60 mm, brushless, 100 W, with Hall sensors

Part number 625854



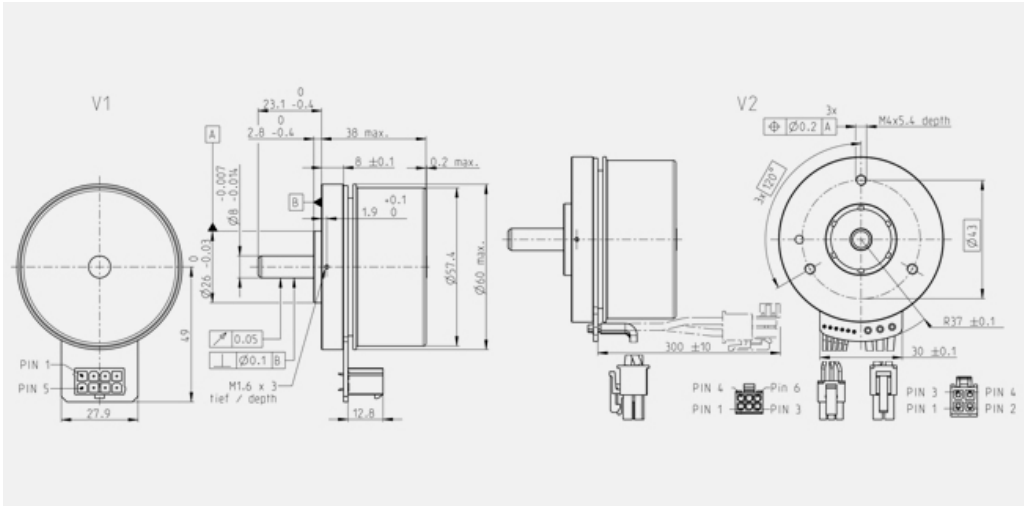
PRICE SCALES	Quantity	Price per unit
Prices excluding VAT and shipping costs	1-4	€139.89
	5-19	€122.94
	20-49	€102.73
	from 50	On request

Start combination

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Specifications

TECHNICAL ILLUSTRATIONS



Dimension drawing

VALUES AT NOMINAL VOLTAGE	
Nominal voltage	12 V
No load speed	3760 rpm
No load current	797 mA
Nominal speed	3210 rpm
Nominal torque (max. continuous torque)	263 mNm
Nominal current (max. continuous current)	8.79 A
Stall torque	2210 mNm
Stall current	113 A
Max. efficiency	84 %
CHARACTERISTICS	
Terminal resistance	0.106 Ω
Terminal inductance	0.0911 mH
Torque constant	30 mNm/A
Speed constant	318 rpm/V
Speed / torque gradient	1.13 rpm/mNm
Mechanical time constant	9.84 ms
Rotor inertia	835 gcm²
THERMAL DATA	
Thermal resistance housing-ambient	2.69 K/W
Thermal resistance winding-housing	3.8 K/W
Thermal time constant winding	37.9 s
Thermal time constant motor	96.7 s
Ambient temperature	-40...+100 °C

Max. winding temperature	+125 °C
MECHANICAL DATA	
Bearing type	ball bearings
Max. speed	6000 rpm
Axial play	0 mm, at radial load < 12 N
	0.14 mm, at radial load > 12 N
Max. axial load (dynamic)	12 N
Max. force for press fits (static)	170 N
(static, shaft supported)	8000 N
Max. radial load	112 N, 5 mm from flange
OTHER SPECIFICATIONS	
Number of pole pairs	7
Number of phases	3
Number of autoclave cycles	0
PRODUCT	
Weight	355 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.

Downloads

FILES (STEP)

AD model (STEP) (ZIP 400 KB)

Version 2019

CATALOG PAGE

目录页 (chinesisch, PDF 1 MB)

Version 2020

Videos

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Print specifications

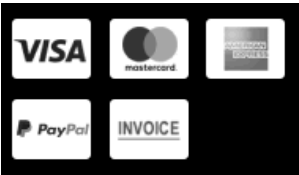
Product support

+41 (41) 666 18 00

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Payment options



Knowledge

Find out more about the interaction of motor, gearhead, sensors, and controller.
Knowledge & e-learning