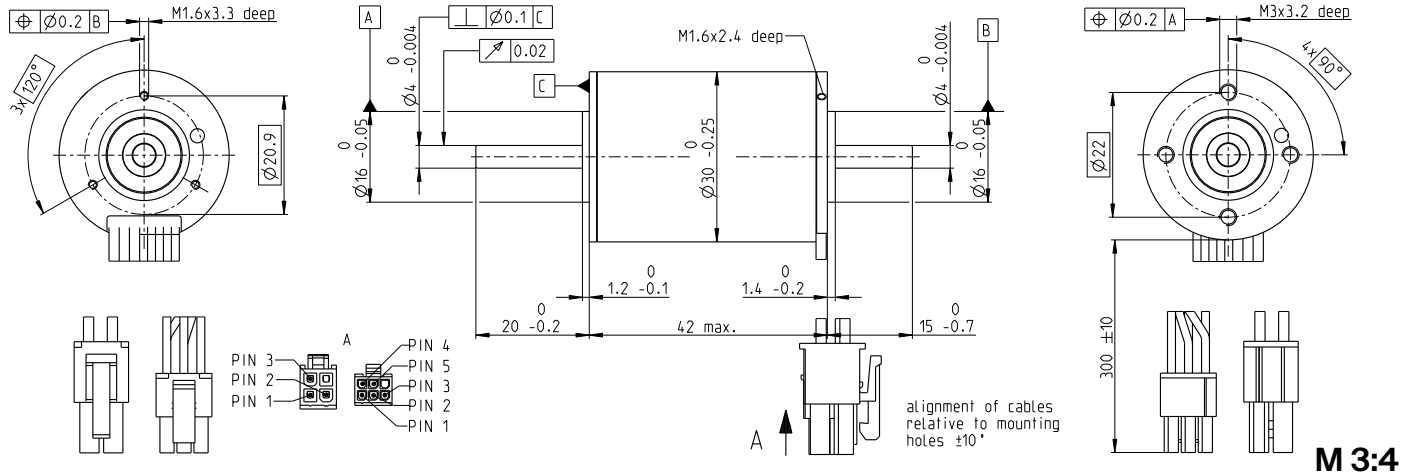


EC-i 30 Ø30 mm, brushless, 30 watt

EC-i



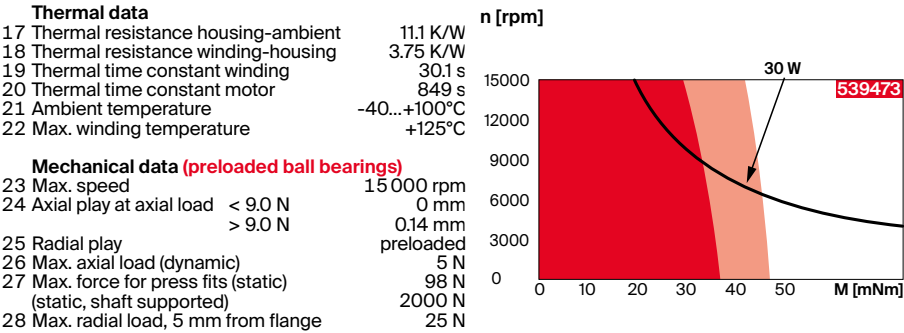
- Stock program
- Standard program
- Special program (on request)

Part numbers

	with Hall sensors	539472	539473	539474	539475
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Motor data (provisional)					
Values at nominal voltage					
1 Nominal voltage	V	12	24	36	48
2 No load speed	rpm	9180	9180	9180	9000
3 No load current	mA	225	112	75	54.7
4 Nominal speed	rpm	7720	7770	7760	7600
5 Nominal torque	mNm	36.9	36.8	35.4	36.9
6 Nominal current (max. continuous current)	A	3.03	1.51	0.976	0.744
7 Stall torque	mNm	292	303	291	302
8 Stall current	A	27.6	14.6	9.12	7.08
9 Max. efficiency	%	82.7	83.1	82.7	83.1
Characteristics					
10 Terminal resistance phase to phase	Ω	0.435	1.65	3.95	6.78
11 Terminal inductance phase to phase	mH	0.279	1.12	2.51	4.66
12 Torque constant	mNm/A	12.3	24.6	37	50.3
13 Speed constant	rpm/V	775	387	258	190
14 Speed/torque gradient	rpm/mNm	27.3	25.9	27.6	25.5
15 Mechanical time constant	ms	2.09	1.98	2.11	1.95
16 Rotor inertia	gcm ²	7.3	7.3	7.3	7.3

Specifications	Operating range	Comments
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Other specifications	Modular system	Sensor	Motor Control
29 Number of pole pairs	2	509_ENX 16 EASY	547_DEC Module 24/2
30 Number of phases	3	510_ENX 16 EASY XT	547_DEC Module 50/5
31 Weight of motor	153 g	511_ENX 16 EASY Absolute	550_ESCON Module 24/2
Values listed in the table are nominal.			
Details on catalog page 52			

Connection motor (Cable AWG 20)			512_ENX 16 EASY Absolute XI	551_ESCON 36/3 EC
red	Motor winding 1	Pin 1	518_ENX 22 EMT	551_ESCON Module 50/4 EC-S
black	Motor winding 2	Pin 2	519_ENX 16 RIO	551_ESCON Module 50/5
white	Motor winding 3	Pin 3		553_ESCON 50/5
	N.C.	Pin 4		557_ESCON2 Nano 24/2
Connector	Article number			557_ESCON2 Micro 60/5
Molex	39-01-2040			563_EPOS4 Micro 24/5
Connection sensors (Cable AWG 26)				564_EPOS4 Module 50/5
yellow	Hall sensor 1	Pin 1		565_EPOS4 Compact 24/5 3-axes
brown	Hall sensor 2	Pin 2		567_EPOS4 Compact 50/5
grey	Hall sensor 3	Pin 3		569_EPOS4 50/5
blue	GND	Pin 4		570_EPOS4 Disk 60/8
green	V _{Hall} 4.5...24 VDC	Pin 5		571_EPOS4 Disk 60/12
	N.C.	Pin 6		
Connector	Article number			
Molex	430-25-0600			
Wiring diagram for Hall sensors see p. 69				