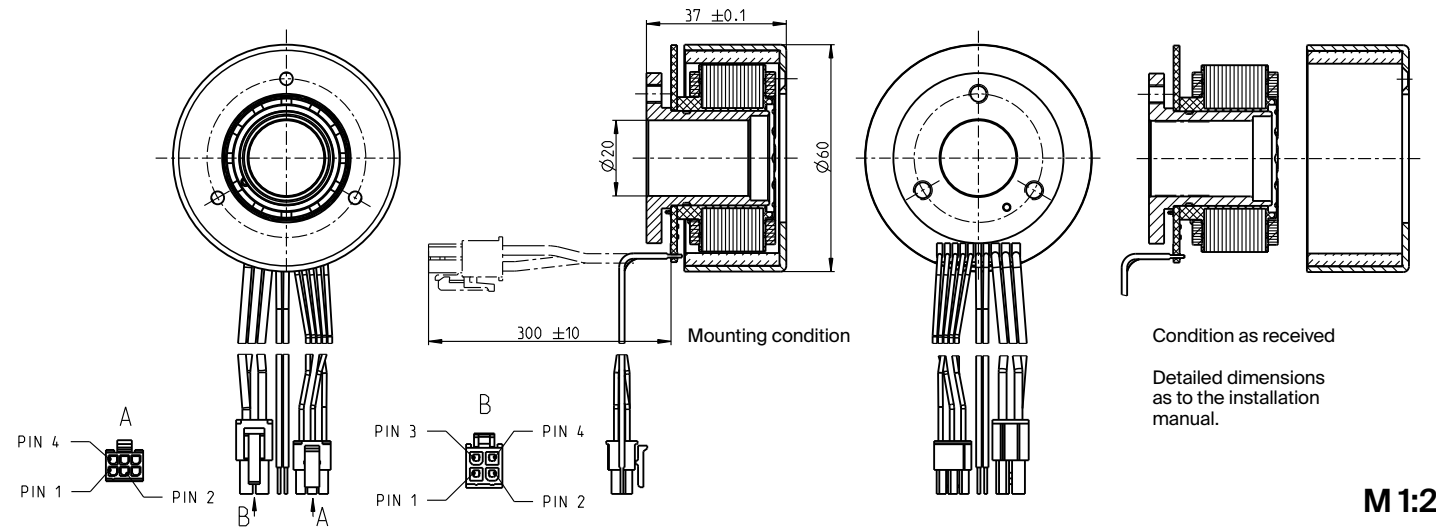


EC frameless 60 flat Ø60 mm, brushless, 100 watt



M 1:2

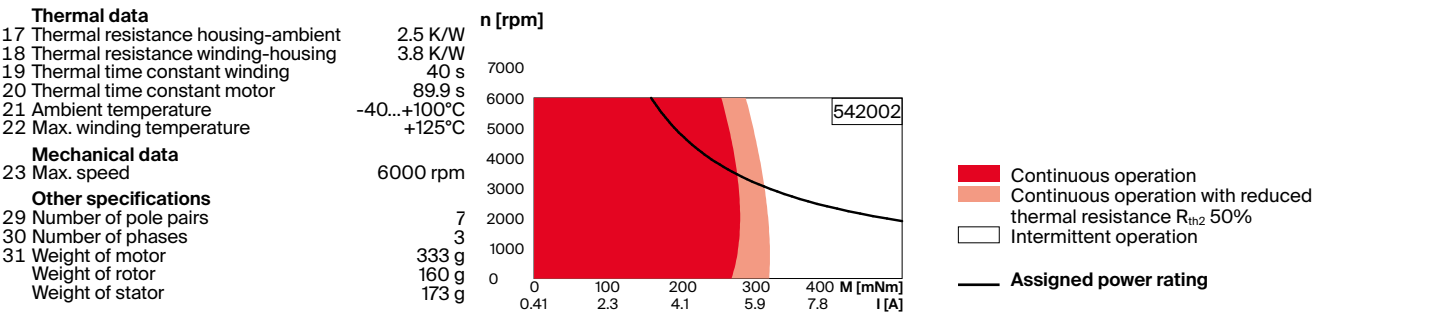
- Stock program
- Standard program
- Special program (on request)

Part numbers

	with Hall sensors	550153	542002	550154					
Motor data									

Values at nominal voltage									
1 Nominal voltage	V	12	24	48					
2 No load speed	rpm	3710	4250	3970					
3 No load current	mA	671	419	187					
4 Nominal speed	rpm	3170	3740	3490					
5 Nominal torque	mNm	279	289	319					
6 Nominal current (max. continuous current)	A	9.25	5.47	2.78					
7 Stall torque	mNm	2850	4180	5010					
8 Stall current	A	93.5	78.2	43.8					
9 Max. efficiency	%	84	86	88					
Characteristics									
10 Terminal resistance phase to phase	Ω	0.128	0.307	1.1					
11 Terminal inductance phase to phase	mH	0.062	0.188	0.864					
12 Torque constant	mNm/A	30.5	53.4	114					
13 Speed constant	rpm/V	313	179	83.4					
14 Speed/torque gradient	rpm/mNm	1.32	1.03	0.798					
15 Mechanical time constant	ms	17.2	13.4	10.4					
16 Rotor inertia	gcm ²	1246	1246	1246					

Specifications	Operating range	Comments
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Values listed in the table are nominal.

Connection motor (Cable AWG 18)

- red Motor winding 1 Pin 1
- black Motor winding 2 Pin 2
- white Motor winding 3 Pin 3
- N.C. Pin 4

Connector Part number

Molex 39-01-2040

Connection sensors (Cable AWG 24)

- yellow Hall sensor 1 Pin 1
- brown Hall sensor 2 Pin 2
- grey Hall sensor 3 Pin 3
- blue GND Pin 4
- green V_{Hall} 4.5...24 VDC Pin 5
- N.C. Pin 6

Connector Part number

Molex 43025-0600

Wiring diagram for Hall sensors see p. 69

Connection NTC (Cable AWG 24)

- pink NTC
- blue NTC

Resistance 25°C: 5 kΩ ±1%, beta (25–85°C): 3490 K

Modular system

Details on catalog page 56

- Motor Control**
- 547_DEC Module 50/5
 - 551_ESCON Module 50/4 EC-S
 - 551_ESCON Module 50/5
 - 552_ESCON Module 50/8 (HE)
 - 553_ESCON 50/5
 - 553_ESCON 70/10
 - 557_ESCON2 Micro 60/5
 - 558_ESCON2 Module 60/12
 - 559_ESCON2 Compact 60/12
 - 564_EPOS4 Module 50/5
 - 565_EPOS4 Module 50/8
 - 567_EPOS4 Compact 50/5
 - 567_EPOS4 Compact 50/8
 - 569_EPOS4 50/5
 - 569_EPOS4 70/15
 - 570_EPOS4 Disk 60/8
 - 571_EPOS4 Disk 60/12