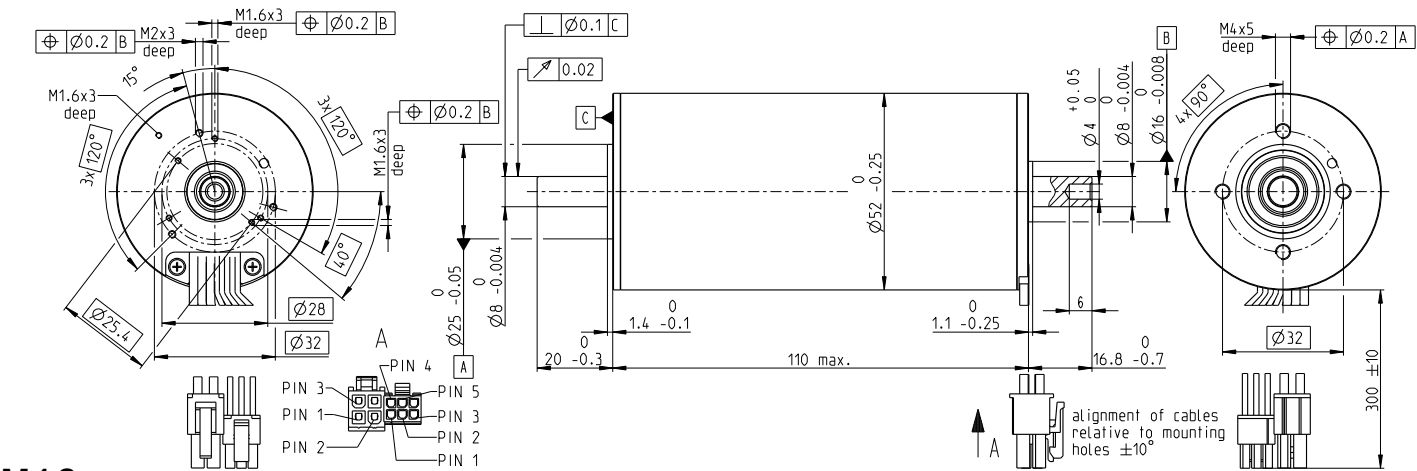


EC-i 52 Ø52 mm, brushless, 200 watt
High Torque



M 1:2

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

Part numbers

	with Hall sensors	606793	596099	634043
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Motor data (provisional)				
Values at nominal voltage				
1 Nominal voltage	V	24	36	48
2 No load speed	rpm	3340	3660	3970
3 No load current	mA	657	499	419
4 Nominal speed	rpm	2970	3300	3610
5 Nominal torque	mNm	646	655	627
6 Nominal current (max. continuous current)	A	9.42	6.98	5.48
7 Stall torque	mNm	6820	7380	7830
8 Stall current	A	205	205	203
9 Max. efficiency	%	88.9	90.2	90.9
Characteristics				
10 Terminal resistance phase to phase	Ω	0.117	0.176	0.236
11 Terminal inductance phase to phase	mH	0.149	0.28	0.424
12 Torque constant	mNm/A	68	93.1	115
13 Speed constant	rpm/V	140	103	83.3
14 Speed/torque gradient	rpm/mNm	0.241	0.194	0.172
15 Mechanical time constant	ms	0.668	0.535	0.475
16 Rotor inertia	gcm ²	264	264	264

Specifications	Operating range	Comments
Thermal data		
17 Thermal resistance housing-ambient		
18 Thermal resistance winding-housing		
19 Thermal time constant winding		
20 Thermal time constant motor		
21 Ambient temperature		
22 Max. winding temperature		
Mechanical data (preloaded ball bearings)		
23 Max. permissible speed		
24 Axial play at axial load < 15 N		
25 Radial play		
26 Max. axial load (dynamic)		
27 Max. force for press fits (static)		
28 Max. radial load, 5 mm from flange		

Other specifications	Modular system	Details on catalog page 52
29 Number of pole pairs	8	Gear
30 Number of phases	3	
31 Weight of motor	1150 g	Sensor
Values listed in the table are nominal.		
Connection motor (Cable AWG 16)		Motor Control
red Motor winding 1 Pin 1		
black Motor winding 2 Pin 2		552_ESCON Module 50/8 HE
white Motor winding 3 Pin 3		553_ESCON 70/10
N.C. N.C. Pin 4		557_ESCON2 Micro 60/5
Connector Article number		558_ESCON2 Module 60/12
Molex 39-01-2040		559_ESCON2 Compact 60/12
Connection sensor (Cable AWG 26)		565_EPOS4 Module 50/8
yellow Hall sensor 1 Pin 1		565_EPOS4 Module 50/15
brown Hall sensor 2 Pin 2		565_EPOS4 Compact 50/8
grey Hall sensor 3 Pin 3		565_EPOS4 Compact 50/15
blue GND Pin 4		569_EPOS4 70/15
green V _{Hall} 4.5...24 VDC Pin 5		570_EPOS4 Disk 60/8
N.C. N.C. Pin 6		571_EPOS4 Disk 60/12
Connector Article number		
Molex 430-25-0600		
Wiring diagram for Hall sensors see p. 69		

on request