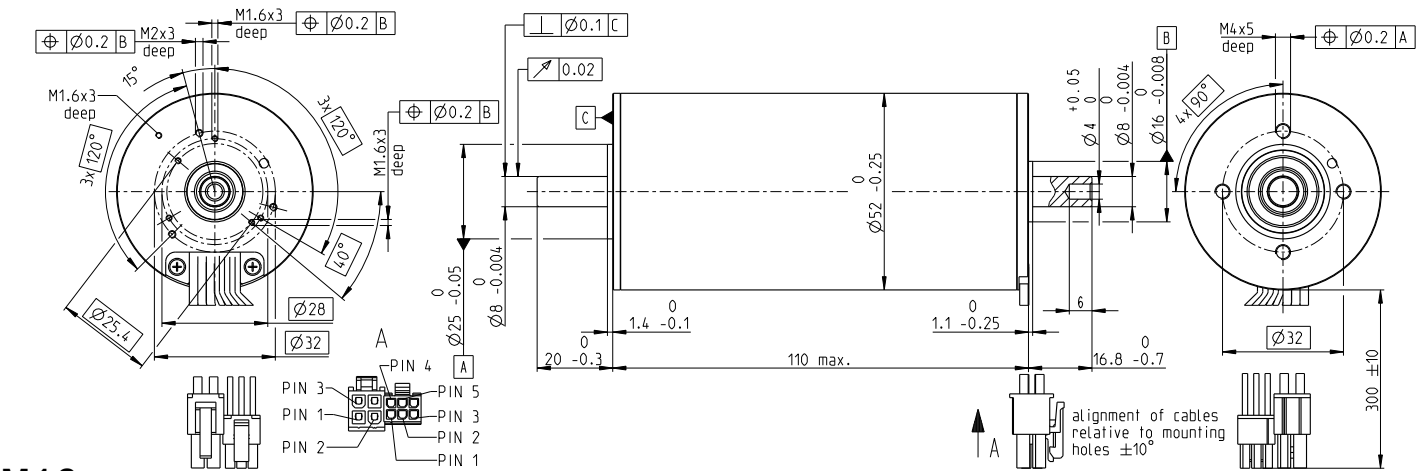


EC-i 52 Ø52 mm, brushless, 200 watt
High Torque



M 1:2

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

Part Numbers			
with Hall sensors	606793	596099	634043

Motor Data (provisional)			
Values at nominal voltage			
1 Nominal voltage	V	24	36
2 No load speed	rpm	3340	3660
3 No load current	mA	657	499
4 Nominal speed	rpm	2970	3300
5 Nominal torque	mNm	646	655
6 Nominal current (max. continuous current)	A	9.42	6.98
7 Stall torque	mNm	6820	7380
8 Stall current	A	205	205
9 Max. efficiency	%	88.9	90.2
Characteristics			
10 Terminal resistance phase to phase	Ω	0.117	0.176
11 Terminal inductance phase to phase	mH	0.149	0.28
12 Torque constant	mNm/A	68	93.1
13 Speed constant	rpm/V	140	103
14 Speed/torque gradient	rpm/mNm	0.241	0.194
15 Mechanical time constant	ms	0.668	0.535
16 Rotor inertia	gcm ²	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 50	
29 Number of pole pairs	8	3 1150 g	Gear 458_GP 52 C 462_GB 80 ¹ 463_GB 12 ¹	Sensor 505_ENX 16 EASY 506_ENX 16 EASY XT 507_ENX 16 EASY Absolute 508_ENX 16 EASY Absolute XT 516_ENX 22 EMT 517_ENX 16 RIO 524_TSX 40 MAG 525_TSX 40 RIO	Motor Control 552_ESCON Module 50/8 HE 553_ESCON 70/10 563_EPOS4 Module 50/8 563_EPOS4 Module 50/15 563_EPOS4 Compact 50/8 563_EPOS4 Compact 50/15 567_EPOS4 70/15 568_EPOS4 Disk 60/8 569_EPOS4 Disk 60/12	
30 Number of phases	3					
31 Weight of motor	1150 g					
Values listed in the table are nominal.						
Connection	motor (Cable AWG 16)					
red	Motor winding 1	Pin 1				
black	Motor winding 2	Pin 2				
white	Motor winding 3	Pin 3				
	N.C.	Pin 4				
Connector	Article number					
Molex	39-01-2040					
Connection	sensor (Cable AWG 26)					
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	Article number					
Molex	430-25-0600					
Wiring diagram for Hall sensors see p. 67						

¹on request