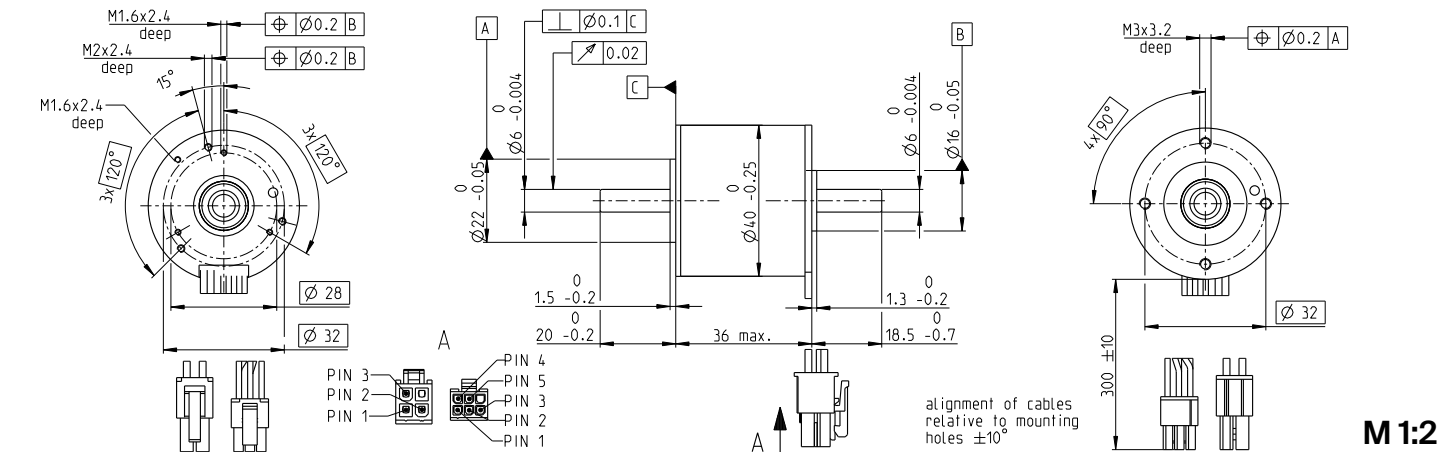


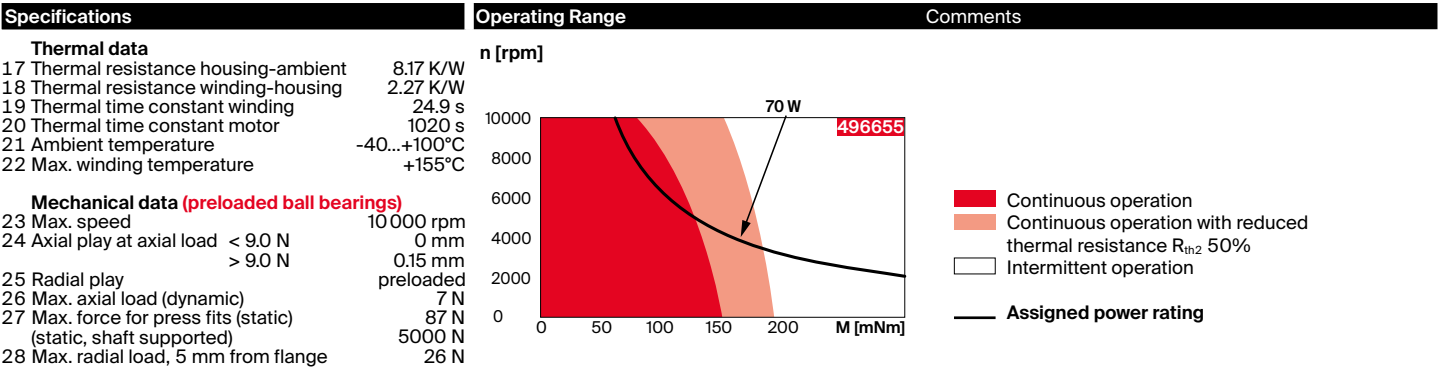
EC-i 40 Ø40 mm, brushless, 70 watt
High Torque



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

Part Numbers			
with Hall sensors	496654	496655	496656

Motor Data			
Values at nominal voltage			
1 Nominal voltage	V	18	36
2 No load speed	rpm	7840	7390
3 No load current	mA	448	205
4 Nominal speed	rpm	6890	6450
5 Nominal torque	mNm	105	130
6 Nominal current (max. continuous current)	A	4.9	2.74
7 Stall torque	mNm	932	1030
8 Stall current	A	91.7	61.8
9 Max. efficiency	%	86.4	88.6
Characteristics			
10 Terminal resistance phase to phase	Ω	0.196	0.582
11 Terminal inductance phase to phase	mH	0.113	0.512
12 Torque constant	mNm/A	21.7	46.1
13 Speed constant	rpm/V	441	207
14 Speed/torque gradient	rpm/mNm	3.99	2.62
15 Mechanical time constant	ms	0.962	0.632
16 Rotor inertia	gcm ²	23	23



Other specifications			Modular System		Details on catalog page 50	
29 Number of pole pairs			7	Gear	Sensor	Motor Control
30 Number of phases			3	454_GP 42 C	505_ENX 16 EASY	547_DEC Module 50/5
31 Weight of motor			250 g		506_ENX 16 EASY XT	551_ESCON 36/3 EC
Values listed in the table are nominal.					507_ENX 16 EASY Absolute	551_ESCON Module50/4 EC-S
					508_ENX 16 EASY Absolute XT	551_ESCON Module 50/5
Connection motor (Cable AWG 20)				516_ENX 22 EMT	553_ESCON 50/5	
red	Motor winding 1	Pin 1		517_ENX 16 RIO	561_EPOS4 Micro 24/5	
black	Motor winding 2	Pin 2		524_TSX 40 MAG	562_EPOS4 Module 50/5	
white	Motor winding 3	Pin 3		525_TSX 40 RIO	563_EPOS4 Compact 24/5 3-axes	
	N.C.	Pin 4			565_EPOS4 Compact 50/5	
Connector	Article number				567_EPOS4 50/5	
Molex	39-01-2040				568_EPOS4 Disk 60/8	
Connection sensor (Cable AWG 26)					569_EPOS4 Disk 60/12	
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						