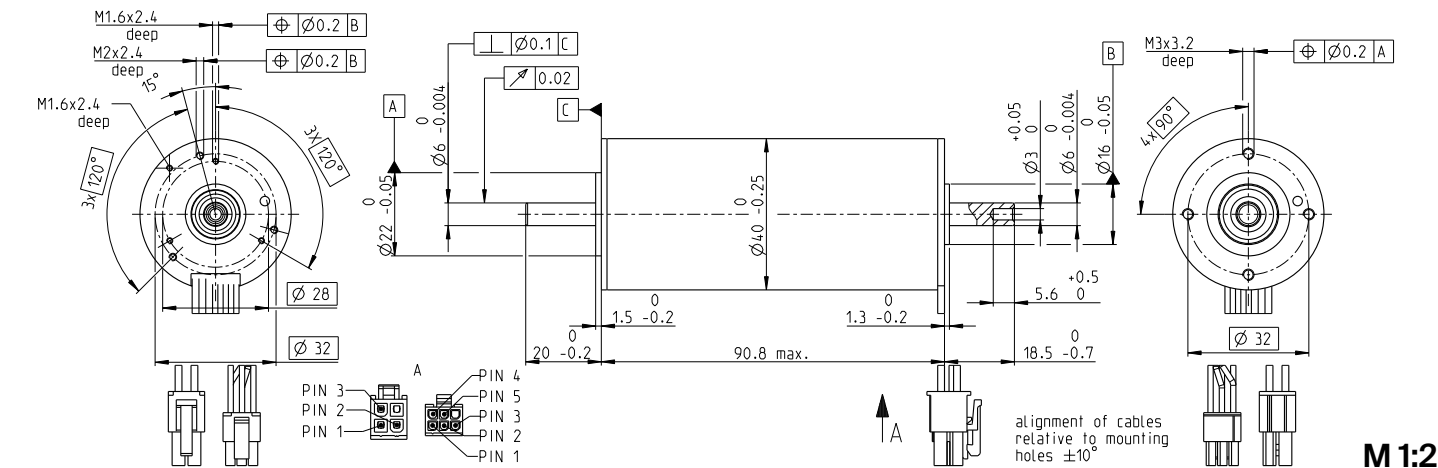


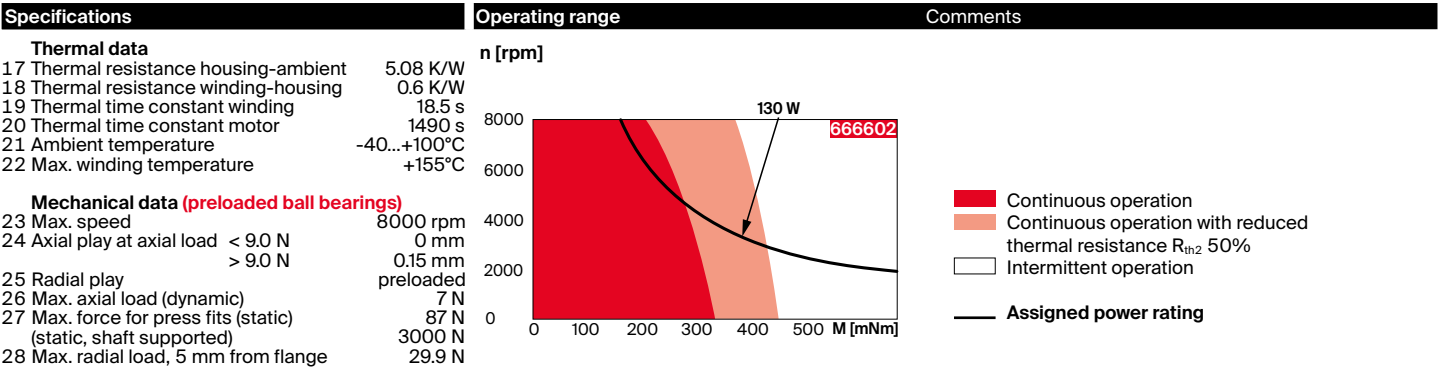
EC-i 40 Ø40 mm, brushless, 130 watt
High Torque



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

Part numbers			
with Hall sensors	666601	676600	666602 666603

Motor data								
Values at nominal voltage								
1 Nominal voltage	V	18	24	36	48			
2 No load speed	rpm	4670	4730	4670	4640			
3 No load current	mA	496	379	248	185			
4 Nominal speed	rpm	3920	3990	3940	3910			
5 Nominal torque	mNm	278	301	330	343			
6 Nominal current (max. continuous current)	A	7.44	6.05	4.3	3.31			
7 Stall torque	mNm	2410	2650	2830	2880			
8 Stall current	A	92.4	86.6	69.1	55.7			
9 Max. efficiency	%	85.7	87	88.1	88.6			
Characteristics								
10 Terminal resistance phase to phase	Ω	0.195	0.277	0.521	0.862			
11 Terminal inductance phase to phase	mH	0.128	0.222	0.512	0.922			
12 Torque constant	mNm/A	36.4	47.9	72.8	97.8			
13 Speed constant	rpm/V	262	199	131	97.7			
14 Speed/torque gradient	rpm/mNm	1.4	1.15	0.938	0.862			
15 Mechanical time constant	ms	1.15	0.942	0.766	0.704			
16 Rotor inertia	gcm²	78	78	78	78			



Other specifications			Modular system		Details on catalog page 52	
29 Number of pole pairs		8	Gear 436-438_GP 42 A 439-441_GP 42 C 455_GSW 55 A 456_GSW 62 A	Sensor 509_ENX 16 EASY 510_ENX 16 EASY XT 511_ENX 16 EASY Absolute 512_ENX 16 EASY Absolute XT 518_ENX 22 EMT 519_ENX 16 RIO 526_TSX 40 MAG 527_TSX 40 RIO	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	
30 Number of phases		3				
31 Weight of motor		587 g				
Values listed in the table are nominal.						
Connection motor (Cable AWG 20)						
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. 69						