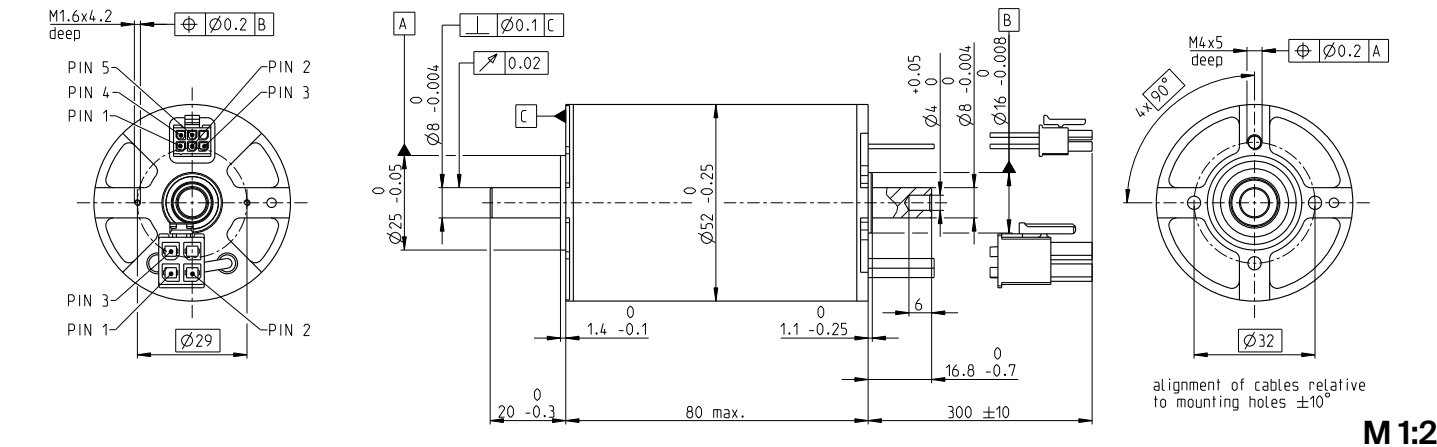


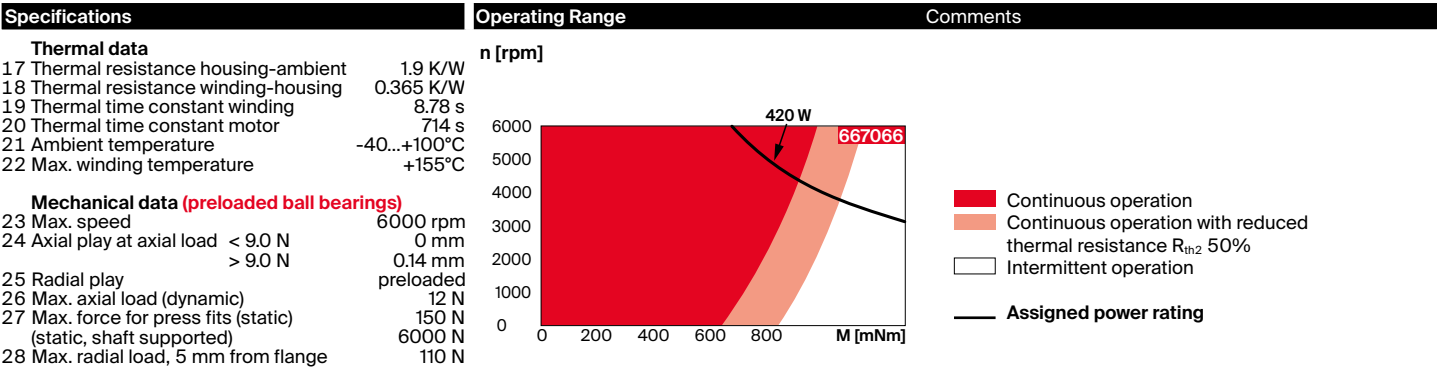
EC-i 52 Ø52 mm, brushless, 420 watt
Ventilated



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

Part Numbers				
with Hall sensors	667064	667065	667066	633919

Motor Data					
Values at nominal voltage					
1 Nominal voltage	V	18	24	36	48
2 No load speed	rpm	4450	4860	5010	5090
3 No load current	mA	829	707	493	379
4 Nominal speed	rpm	3470	3800	3910	3990
5 Nominal torque	mNm	904	972	1050	1020
6 Nominal current (max. continuous current)	A	21	18.3	13.3	9.94
7 Stall torque	mNm	4290	4560	4860	4830
8 Stall current	A	273	278	232	174
9 Max. efficiency	%	89.1	90	90.8	90.7
Characteristics					
10 Terminal resistance phase to phase	Ω	0.0658	0.0863	0.155	0.276
11 Terminal inductance phase to phase	mH	0.0826	0.123	0.261	0.45
12 Torque constant	mNm/A	38.2	46.7	68	89.2
13 Speed constant	rpm/V	250	204	140	107
14 Speed/torque gradient	rpm/mNm	0.43	0.377	0.32	0.331
15 Mechanical time constant	ms	0.765	0.671	0.57	0.59
16 Rotor inertia	gcm ²	170	170	170	170



Other specifications			Modular System		Details on catalog page 50	
29	Number of pole pairs	8				
30	Number of phases	3		Sensor		Motor Control
31	Weight of motor	752 g		505_ENX 16 EASY		553_ESCON 70/10
Values listed in the table are nominal.				506_ENX 16 EASY XT		557_ESCON2 Module 60/30
Connection motor (Cable AWG 16)				507_ENX 16 EASY Absolute		557_ESCON2 Compact 60/30
red	Motor winding 1	Pin 1		508_ENX 16 EASY Absolute XT		
black	Motor winding 2	Pin 2		517_ENX 16 RIO		
white	Motor winding 3	Pin 3				
	N.C.	Pin 4				
Connector	Article number					
Molex	171692-0104					
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						