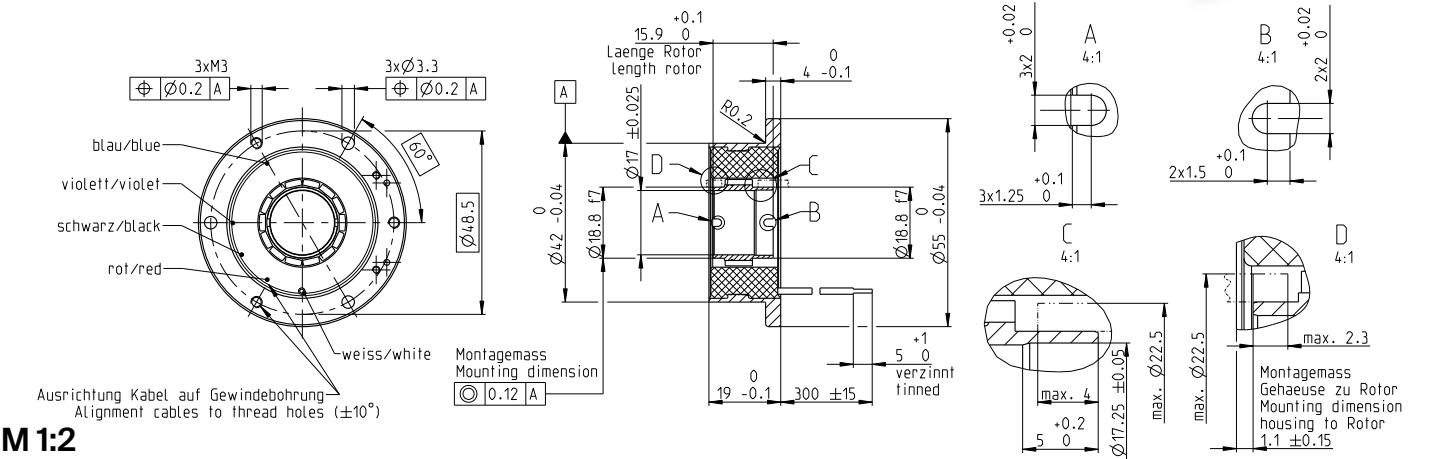


EC frameless DT 38 S Ø42 mm, brushless, 105 watt

Dynamic Torque



EC frameless DT

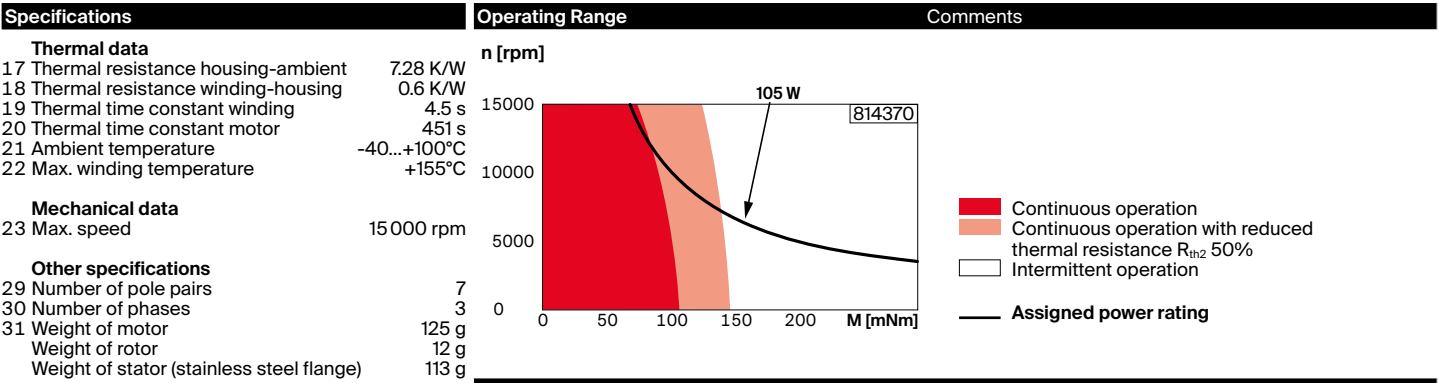


M 1:2

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

Part Numbers	
without Hall sensors	814370

Motor Data	
Values at nominal voltage	
1 Nominal voltage	V 24
2 No load speed	rpm 12 100
3 No load current	mA 242
4 Nominal speed	rpm 9820
5 Nominal torque	mNm 102
6 Nominal current (max. continuous current)	A 4.92
7 Stall torque	mNm 619
8 Stall current	A 151
9 Max. efficiency	% 89.8
Characteristics	
10 Terminal resistance phase to phase	Ω 0.263
11 Terminal inductance phase to phase	mH 0.182
12 Torque constant	mNm/A 18.8
13 Speed constant	rpm/V 508
14 Speed/torque gradient	rpm/mNm 7.1
15 Mechanical time constant	ms 0.91
16 Rotor inertia	gcm ² 12.2



Modular System		Details on catalog page 54
Values listed in the table are nominal.		
Connection motor (Cable AWG 18)	Sensor 520_TSX 38 MAG with Hall sensors	Motor Control 551_ESCON Module 50/5 553_ESCON 50/5 561_EPOS4 Micro 24/5 CAN 561_EPOS4 Micro 24/5 EtherCAT 562_EPOS4 Module 50/5 565_EPOS4 Compact 50/5 567_EPOS4 50/5 568_EPOS4 Disk 60/8 CAN 568_EPOS4 Disk 60/8 EtherCAT
red Motor winding 1		
black Motor winding 2		
white Motor winding 3		
Connection NTC (Cable AWG 24)		
purple NTC		
blue NTC		
Resistance 25°C: 5 kΩ ±1%, beta (25–85°C): 3490 K		
Comment For Torque control data, refer to "Installation Manual" available on maxon online shop.	Variants Aluminum flange (-36 g) on request Without flange: maxon integration on request	