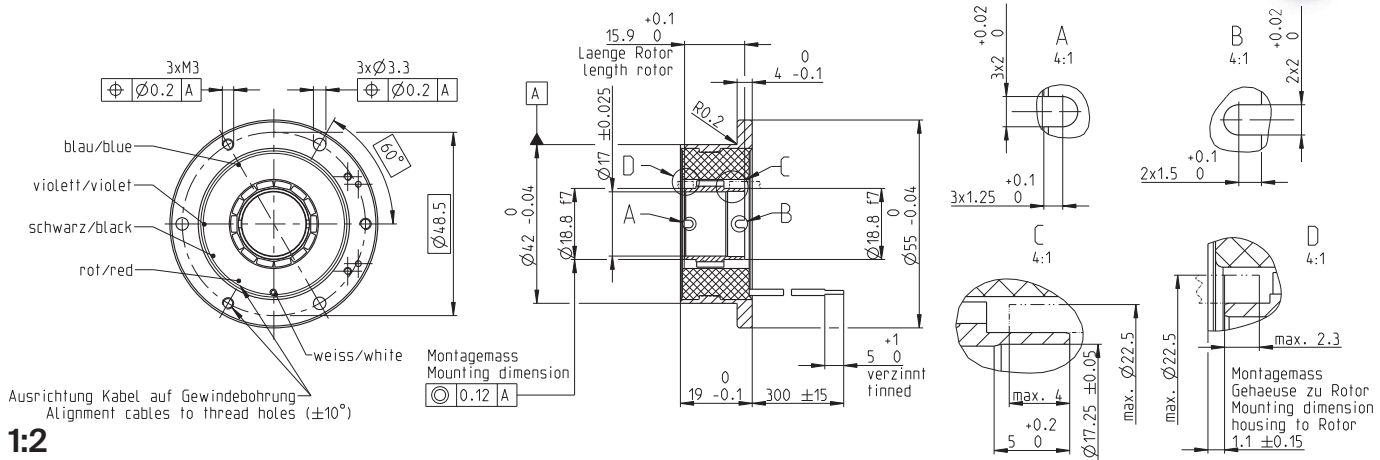


Dynamic Torque



EC frameless DT



M 1:2

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

Part numbers

[illegible]

Motor data

Values at nominal voltage

1	Nominal voltage	V	24
2	No load speed	rpm	12400
3	No load current	mA	261
4	Nominal speed	rpm	10100
5	Nominal torque	mNm	96.8
6	Nominal current (max. continuous current)	A	4.8
	Continuous torque with heat sink	mNm	130
7	Stall torque	mNm	641
8	Stall current	A	89.9
9	Max. efficiency	%	89.5
	Characteristics		
10	Terminal resistance phase to phase	Ω	0.267
11	Terminal inductance phase to phase	mH	0.182
12	Torque constant	mNm/A	18.2
13	Speed constant	rpm/V	524
14	Speed/torque gradient	rpm/mNm	7.7
15	Mechanical time constant	ms	0.98
16	Rotor inertia	gcm ²	12.2

Specifications

Thermal data

17 Thermal resistance housing-ambient	7.28 K/W
18 Thermal resistance winding-housing	0.6 K/W
19 Thermal time constant winding	4.5 s
20 Thermal time constant motor	451 s
21 Ambient temperature	-40...+100°C
22 Max. winding temperature	+155°C

Mechanical data

23 Max. speed 15 000 rpm

Other specifications

29	Number of pole pairs	7
30	Number of phases	3
31	Weight of motor (with mounting flange made of stainless steel)	125 g
	Weight for integration (without mounting flange)	64 g

Values listed in the table are nominal.

Connection motor (Cable AWG 18)

red	Motor winding 1
black	Motor winding 2
white	Motor winding 3

Connection NTC (Cable AWG 24)

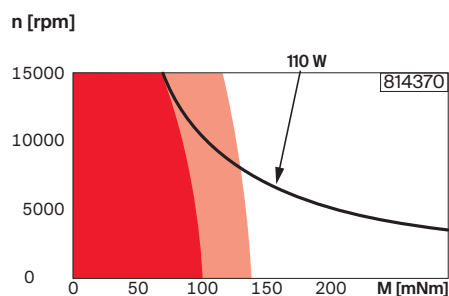
Resistance 25°C: 5 k Ω $\pm$ 1%, beta (25–85°C): 3490 K

Comment

Comment
For Torque control data, refer to "Installation Manual" available on maxon online shop.

Operating range

Comments



-  Continuous operation
 Continuous operation with reduced thermal resistance R_{th2} 50%
 Intermittent operation
 Assigned power rating

Modular system

Details on catalog page 56

Sensor

522_T SX 38 MAG with
commutation signals

Motor Control

551_ESCON Module 50/5
553_ESCON 50/5
557_ESCON2 Micro 60/5
563_EPOS4 Micro 24/5 CAN
563_EPOS4 Micro 24/5 EtherCAT
564_EPOS4 Module 50/5
567_EPOS4 Compact 50/5
569_EPOS4 50/5
570_EPOS4 Disk 60/8 CAN
570_EPOS4 Disk 60/8 EtherCAT

Variants

maxon integration into customer housing on request
Other coil designs on request