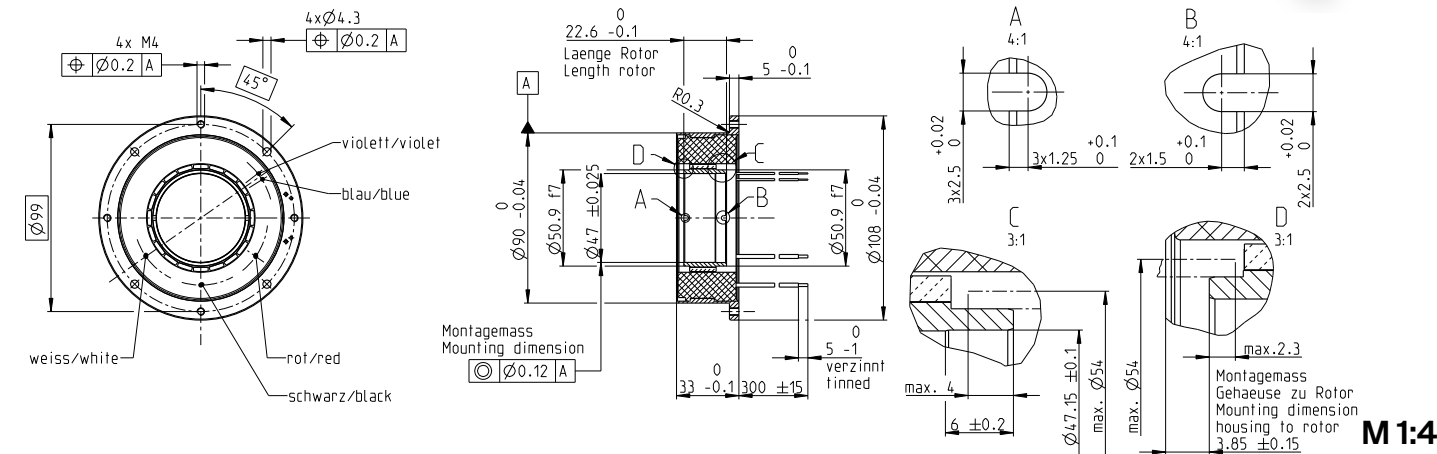


EC frameless DT 85 M Ø90 mm, brushless, 570 watt

Dynamic Torque



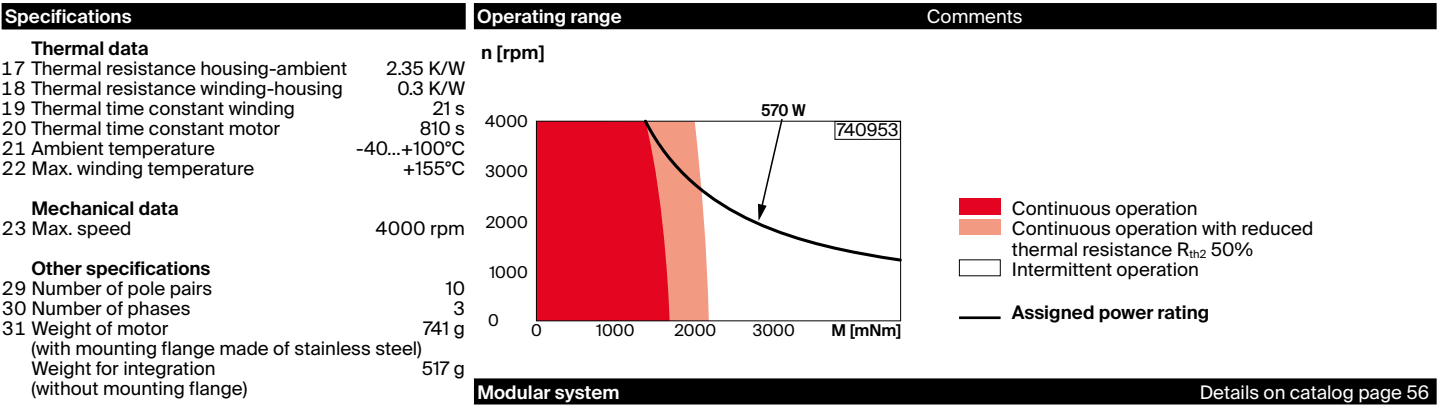
EC frameless DT



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

Part numbers	
sensorless	740953

Motor data	
Values at nominal voltage	
1 Nominal voltage	V 48
2 No load speed	rpm 3410
3 No load current	mA 283
4 Nominal speed	rpm 2850
5 Nominal torque	mNm 1710
6 Nominal current (max. continuous current)	A 11.4
7 Stall torque	mNm 11500
8 Stall current	A 306
9 Max. efficiency	% 93.9
Characteristics	
10 Terminal resistance phase to phase	Ω 0.16
11 Terminal inductance phase to phase	mH 0.367
12 Torque constant	mNm/A 134
13 Speed constant	rpm/V 71.4
14 Speed/torque gradient	rpm/mNm 0.084
15 Mechanical time constant	ms 0.57
16 Rotor inertia	gcm ² 650



Values listed in the table are nominal.

- Connection motor** (Cable AWG 16)
- 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.

Modular system	
Sensor	525_TSX 85 MAG with commutation signals
Motor Control	553_ESCON 70/10 557_ESCON2 Micro 60/5 558_ESCON2 Module 60/30 559_ESCON2 Compact 60/12 559_ESCON2 Compact 60/30 565_EPOS4 Module 50/15 569_EPOS4 Compact 50/15 569_EPOS4 70/15 570_EPOS4 Disk 60/8 CAN 570_EPOS4 Disk 60/8 EtherCAT 571_EPOS4 Disk 60/12 CAN 571_EPOS4 Disk 60/12 EtherCAT

Variants

maxon integration into customer housing on request

Other coil designs on request