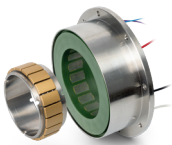
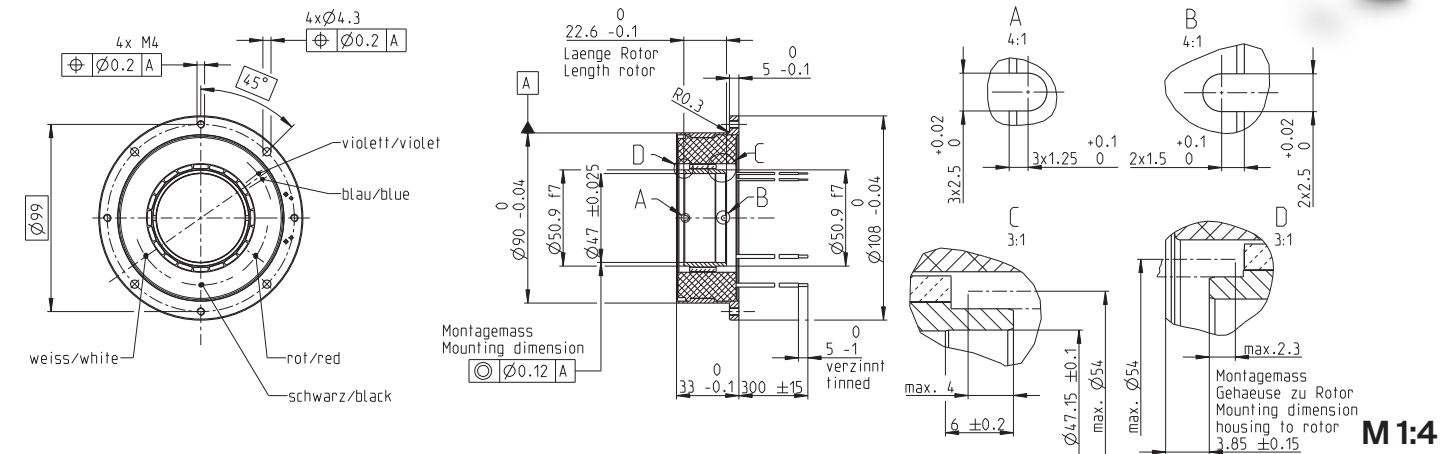


EC frameless DT 85 M Ø90 mm, brushless, 570 watt
Dynamic Torque, potted in mounting flange



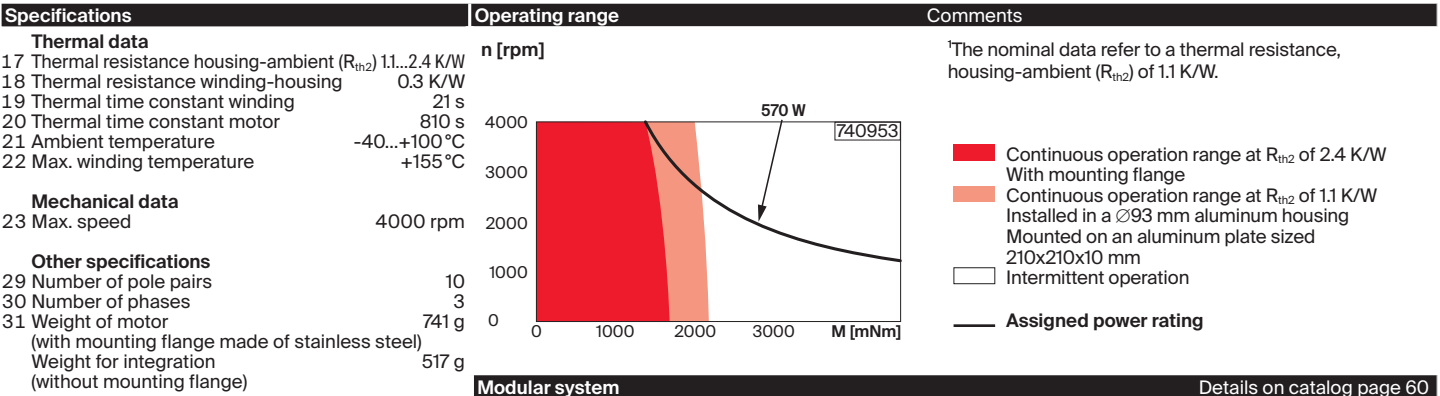
Frameless BLDC Motors



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

Part numbers	
sensorless	740953

Motor data ¹	
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 2760
5 Nominal torque	mNm 2190
6 Nominal current (max. continuous current)	A 14.3
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



Modular system		Details on catalog page 60
Values listed in the table are nominal.	Sensors 430_TSX 85 MAG with commutation signals	Control Electronics 447_ESCON2 Micro 60/5 448_ESCON2 Module 60/30 449_ESCON2 Compact 60/12 450_ESCON2 Compact 60/30 456_EPOS4 Module 50/15 460_EPOS4 Compact 50/15 462_EPOS4 70/15 462_EPOS4 Disk 60/8 CAN 463_EPOS4 Disk 60/8 EtherCAT 463_EPOS4 Disk 60/12 CAN 463_EPOS4 Disk 60/12 EtherCAT
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.	Variants maxon integration into customer housing on request. Other coil designs on request.	