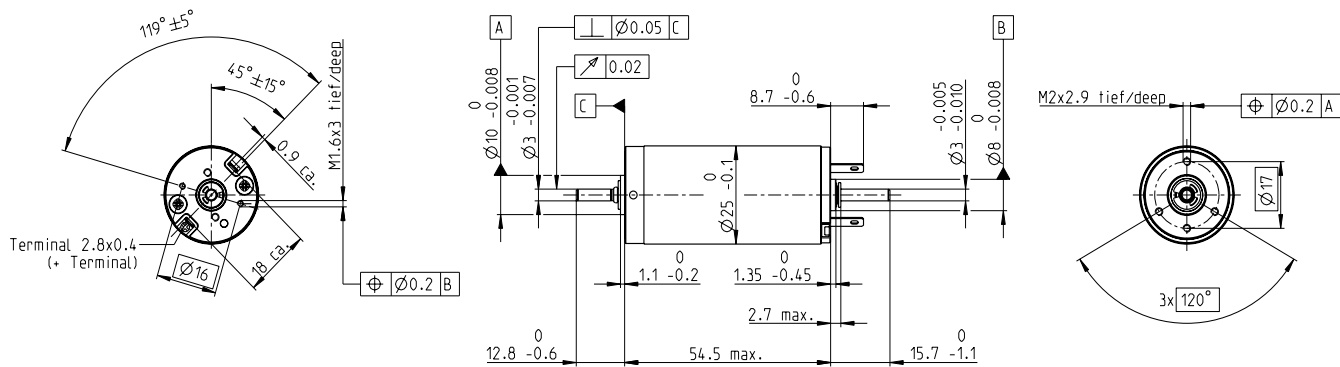


RE 25 Ø25 mm, Precious Metal Brushes CLL, 10 Watt



M 1:2

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

Part Numbers

118740 118741 118742 118743 118744 118745 118746 118747 118748

Motor Data

Values at nominal voltage			4.5	8	9	12	15	18	24	32	48							
1	Nominal voltage	V	4.5	8	9	12	15	18	24	32	48							
2	No load speed	rpm	5360	5320	5230	4850	4980	4790	5190	5510	5070							
3	No load current	mA	79.7	44.4	38.7	26.3	21.8	9.88	14.4	11.7	6.96							
4	Nominal speed	rpm	4980	4520	4220	3800	3920	3710	4130	4450	4000							
5	Nominal torque (max. continuous torque)	mNm	11.4	20.9	23.9	28.6	28.2	28.7	28	27.9	27.9							
6	Nominal current (max. continuous current)	A	1.5	1.5	1.5	1.24	1.01	0.811	0.652	0.516	0.317							
7	Stall torque	mNm	131	132	119	129	131	126	136	144	132							
8	Stall current	A	16.5	9.23	7.31	5.5	4.57	3.52	3.1	2.61	1.47							
9	Max. efficiency	%	87	87	86	87	87	90	87	87	87							
Characteristics																		
10	Terminal resistance	Ω	0.273	0.867	1.23	2.18	3.28	5.11	7.73	12.3	32.6							
11	Terminal inductance	mH	0.0275	0.0882	0.115	0.238	0.353	0.551	0.832	1.31	3.48							
12	Torque constant	mNm/A	7.99	14.3	16.3	23.5	28.6	35.8	43.9	55.2	89.9							
13	Speed constant	rpm/V	1200	668	584	406	334	267	217	173	106							
14	Speed / torque gradient	rpm/mNm	40.9	40.5	44	37.7	38.3	38.2	38.3	38.5	38.6							
15	Mechanical time constant	ms	4.99	4.4	4.37	4.25	4.23	4.22	4.22	4.22	4.23							
16	Rotor inertia	gcm ²	11.7	10.4	9.49	10.8	10.6	10.6	10.5	10.5	10.5							

Specifications

Thermal data		
17	Thermal resistance housing-ambient	14 K/W
18	Thermal resistance winding-housing	3.1 K/W
19	Thermal time constant winding	12.5 s
20	Thermal time constant motor	612 s
21	Ambient temperature	-20...+85°C
22	Max. winding temperature	+100°C

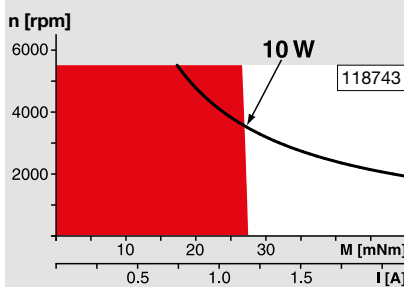
Mechanical data (ball bearings)		
23	Max. speed	5500 rpm
24	Axial play	0.05 - 0.15 mm
25	Radial play	0.025 mm
26	Max. axial load (dynamic)	3.2 N
27	Max. force for press fits (static)	64 N
	(static, shaft supported)	800 N
28	Max. radial load, 5 mm from flange	16 N

Other specifications		
29	Number of pole pairs	1
30	Number of commutator segments	11
31	Weight of motor	130 g
CLL = Capacitor Long Life		

Values listed in the table are nominal.
Explanation of the figures on page 68.

Option
Preloaded ball bearings

Operating Range



Comments

Continuous operation
In observation of above listed thermal resistance (lines 17 and 18) the maximum permissible winding temperature will be reached during continuous operation at 25°C ambient.
= Thermal limit.

Short term operation
The motor may be briefly overloaded (recurring).

— Assigned power rating

maxon Modular System

Details on catalog page 32

Planetary Gearhead

Ø26 mm
0.75 - 4.5 Nm
Page 346

Planetary Gearhead

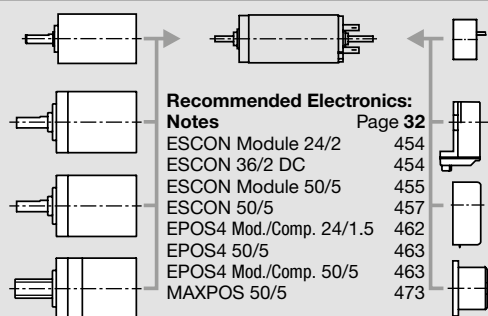
Ø32 mm
0.75 - 6.0 Nm
Page 348/349/352

Koaxdrive

Ø32 mm
1.0 - 4.5 Nm
Page 359

Screw Drive

Ø32 mm
Page 382-387



Encoder MR

128 - 1000 CPT,
3 channels
Page 432

Encoder Enc

22 mm
100 CPT, 2 channels
Page 437

Encoder HED_ 5540

500 CPT,
3 channels
Page 440/442

DC-Tacho DCT

Ø22 mm
0.52 V
Page 449