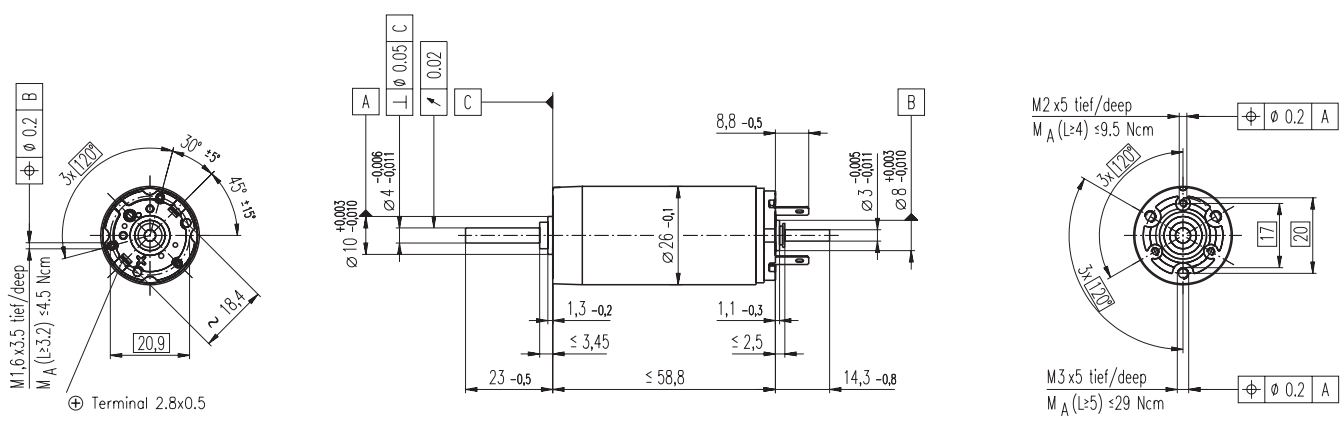


RE 26 $\varnothing 26$ mm, Graphite Brushes, 18 Watt



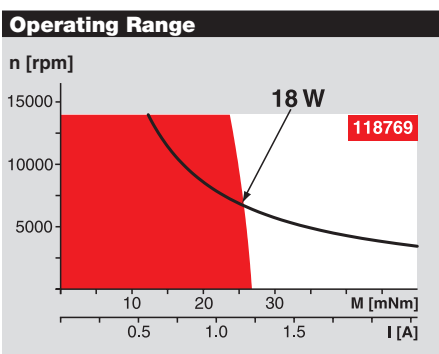
M 1:2

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

Order Number										
118767	118768	118769	118770	118771	118772	118773	118774	118775		

Motor Data											
Values at nominal voltage											
1	Nominal voltage	V	15.0	18.0	24.0	30.0	36.0	36.0	45.0	48.0	48.0
2	No load speed	rpm	10400	9910	10600	9500	10300	9400	9520	9080	5200
3	No load current	mA	79.7	61.4	50.8	34.4	32.3	28.2	23.0	20.1	9.28
4	Nominal speed	rpm	9060	8430	9100	8110	8930	8020	8170	7730	3800
5	Nominal torque (max. continuous torque)	mNm	19.2	24.6	27.7	31.0	30.8	31.3	31.8	32.1	32.9
6	Nominal current (max. continuous current)	A	1.50	1.50	1.35	1.07	0.961	0.888	0.73	0.659	0.384
7	Stall torque	mNm	199	202	226	236	252	230	237	227	125
8	Starting current	A	14.8	11.8	10.6	7.88	7.62	6.34	5.28	4.52	1.42
9	Max. efficiency	%	82	84	85	86	86	86	87	87	84
Characteristics											
10	Terminal resistance	Ω	1.01	1.52	2.27	3.81	4.72	5.68	8.52	10.6	33.7
11	Terminal inductance	mH	0.0596	0.0956	0.149	0.293	0.359	0.432	0.659	0.825	2.51
12	Torque constant	mNm / A	13.5	17.1	21.3	29.9	33.1	36.3	44.8	50.2	87.5
13	Speed constant	rpm / V	708	559	447	320	289	263	213	190	109
14	Speed / torque gradient	rpm / mNm	53.3	49.9	47.5	40.7	41.2	41.2	40.5	40.3	42.1
15	Mechanical time constant	ms	6.22	5.84	5.56	5.32	5.26	5.23	5.16	5.13	5.10
16	Rotor inertia	gcm ²	11.2	11.2	11.2	12.5	12.2	12.1	12.2	12.1	11.6

Specifications		
Thermal data		
17	Thermal resistance housing-ambient	9.7 K / W
18	Thermal resistance winding-housing	4.2 K / W
19	Thermal time constant winding	15.9 s
20	Thermal time constant motor	728 s
21	Ambient temperature	-20 ... +100°C
22	Max. permissible winding temperature	+125°C
Mechanical data (ball bearings)		
23	Max. permissible speed	14000 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) (static, shaft supported)	64 N / 270 N
28	Max. radial loading, 5 mm from flange	16 N



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

Other specifications		
29	Number of pole pairs	1
30	Number of commutator segments	11
31	Weight of motor	150 g

Values listed in the table are nominal.
Explanation of the figures on page 47.

⚠ Tolerances may vary from the standard specification.

Option
Preloaded ball bearings

maxon Modular System

- Planetary Gearhead**
 $\varnothing 26$ mm
0.5 - 2.0 Nm
Page 226
- Planetary Gearhead**
 $\varnothing 32$ mm
0.4 - 2.0 Nm
Page 228
- Planetary Gearhead**
 $\varnothing 32$ mm
0.75 - 6.0 Nm
Page 229 / 231

Overview on page 16 - 21

- Encoder MR**
128 - 1000 CPT,
3 channels
Page 250
- Encoder Enc**
22 mm
100 CPT, 2 channels
Page 252
- Encoder HED_5540**
500 CPT,
3 channels
Page 254 / 256
- DC-Tacho DCT**
 $\varnothing 22$ mm
0.52 V
Page 263

Recommended Electronics:

- LSC 30/2 Page 268
- ADS 50/5 268
- ADS_E 50/5 269
- EPOS 24/5 286
- EPOS P 24/5 287
- MIP 10 289
- Notes 18