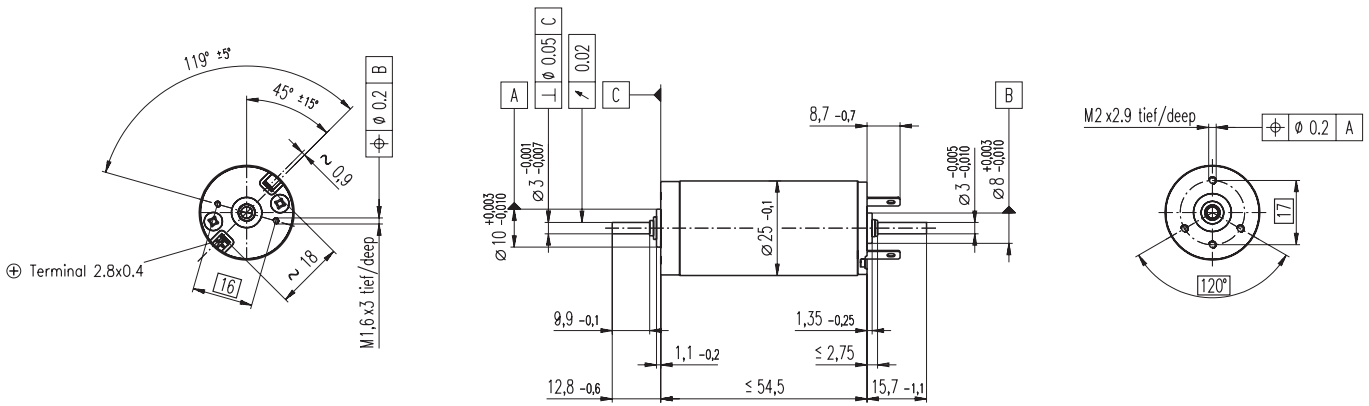


RE 25 \varnothing 25 mm, Graphite Brushes, 20 Watt



M 1:2

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

according to dimensional drawing
shaft length 15.7 shortened to 4 mm

Order Number									
118749	118750	118751	118752	118753	118754	118755	118756	118757	
302002	302003	302004	302005	302006	302007	302001	302008	302009	

Motor Data		118749	118750	118751	118752	118753	118754	118755	118756	118757
Values at nominal voltage										
1	Nominal voltage	V	9.0	15.0	18.0	24.0	30.0	42.0	48.0	48.0
2	No load speed	rpm	10000	9650	10200	9550	9860	11100	10300	8230
3	No load current	mA	110	60.7	53.9	36.9	30.5	25.2	20.1	15.2
4	Nominal speed	rpm	8980	8470	8890	8360	8680	9950	9190	7070
5	Nominal torque (max. continuous torque)	mNm	11.1	20.6	23.1	26.7	27.2	27.6	28.4	29.4
6	Nominal current (max. continuous current)	A	1.50	1.50	1.47	1.17	0.983	0.799	0.667	0.548
7	Stall torque	mNm	244	237	233	257	263	299	280	222
8	Starting current	A	30.7	16.6	14.3	11.0	9.21	8.39	6.38	4.03
9	Max. efficiency	%	77	83	84	86	86	88	88	87
Characteristics										
10	Terminal resistance	Ω	0.293	0.902	1.26	2.19	3.26	5.00	7.53	11.9
11	Terminal inductance	mH	0.0275	0.0882	0.115	0.238	0.353	0.551	0.832	1.31
12	Torque constant	mNm / A	7.97	14.3	16.3	23.4	28.5	35.7	43.8	55.0
13	Speed constant	rpm / V	1200	669	585	407	335	268	218	173
14	Speed / torque gradient	rpm / mNm	44.1	42.3	45.3	38.1	38.2	37.5	37.4	37.6
15	Mechanical time constant	ms	5.36	4.58	4.49	4.28	4.20	4.13	4.11	4.10
16	Rotor inertia	gcm ²	11.6	10.3	9.45	10.7	10.5	10.5	10.5	10.4

Specifications	Operating Range	Comments
Thermal data 17 Thermal resistance housing-ambient 14 K / W 18 Thermal resistance winding-housing 3.1 K / W 19 Thermal time constant winding 12.4 s 20 Thermal time constant motor 910 s 21 Ambient temperature -30 ... +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 28 Max. radial loading, 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 Values listed in the table are nominal. Explanation of the figures on page 49. Option Preloaded ball bearings	Operating Range 	Comments <div style="background-color: red; width: 20px; height: 10px; display: inline-block; margin-right: 5px;"></div> 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. <div style="background-color: white; border: 1px solid black; width: 20px; height: 10px; display: inline-block; margin-right: 5px;"></div> Short term operation The motor may be briefly overloaded (recurring). — Assigned power rating

maxon Modular System	Overview on page 16 - 21
Planetary Gearhead \varnothing 26 mm 0.5 - 2.0 Nm Page 235 Planetary Gearhead \varnothing 32 mm 0.4 - 2.0 Nm Page 237 Planetary Gearhead \varnothing 32 mm 0.75 - 6.0 Nm Page 238 / 240	<div style="display: flex; justify-content: space-between;"> <div> Encoder MR 128 - 1000 CPT, 3 channels Page 258 Encoder Enc 22 mm 100 CPT, 2 channels Page 260 Encoder HED_5540 500 CPT, 3 channels Page 262 / 264 DC-Tacho DCT \varnothing22 mm, 0.52 V Page 271 Brake AB 28 \varnothing40 mm 24 VDC, 0.4 Nm Page 308 </div> <div> Recommended Electronics: LSC 30/2 Page 276 ADS 50/5 276 ADS_E 50/5 277 EPOS 24/5 294 EPOS2 50/5 295 EPOS P 24/5 297 Notes 18 </div> </div>