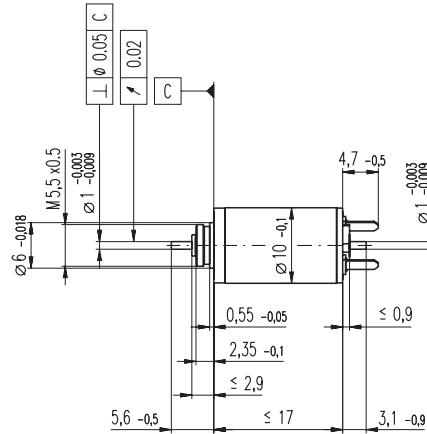
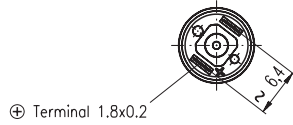


RE 10 \varnothing 10 mm, Precious Metal Brushes, 0.75 Watt, CE approved



M 1:1

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

Order Number

256085 **256086** 256087 256088 **256089** 256090 256091 256092 256093 **256094**

Motor Data		256085	256086	256087	256088	256089	256090	256091	256092	256093	256094
Values at nominal voltage											
1 Nominal voltage	V	2.4	3.0	3.6	4.5	6.0	6.0	7.2	7.2	9.0	12.0
2 No load speed	rpm	10200	10300	9840	11200	12900	11300	11600	10500	10600	11500
3 No load current	mA	19.8	15.8	12.5	11.8	10.6	8.93	7.74	6.77	5.51	4.58
4 Nominal speed	rpm	1630	1990	1500	2950	4670	3160	3340	1860	2000	2790
5 Nominal torque (max. continuous torque)	mNm	0.752	0.784	0.779	0.781	0.777	0.795	0.778	0.752	0.752	0.741
6 Nominal current (max. continuous current)	A	0.367	0.306	0.243	0.222	0.190	0.170	0.143	0.125	0.101	0.081
7 Stall torque	mNm	0.924	1.00	0.949	1.09	1.25	1.13	1.12	0.944	0.957	1.01
8 Starting current	A	0.432	0.375	0.284	0.297	0.292	0.232	0.198	0.15	0.123	0.106
9 Max. efficiency	%	62	64	63	65	66	65	65	63	63	63
Characteristics											
10 Terminal resistance	Ω	5.55	8.00	12.7	15.2	20.6	25.8	36.4	47.9	72.9	114
11 Terminal inductance	mH	0.0461	0.072	0.112	0.136	0.184	0.240	0.325	0.398	0.605	0.920
12 Torque constant	mNm / A	2.14	2.67	3.34	3.67	4.27	4.87	5.68	6.28	7.75	9.55
13 Speed constant	rpm / V	4470	3570	2860	2600	2230	1960	1680	1520	1230	1000
14 Speed / torque gradient	rpm / mNm	11600	10700	10800	10700	10700	10400	10800	11600	11600	11900
15 Mechanical time constant	ms	7.97	7.92	7.95	7.90	7.90	7.85	7.93	8.04	8.04	8.11
16 Rotor inertia	gcm ²	0.0656	0.0707	0.0700	0.0702	0.0702	0.0722	0.0701	0.0662	0.0662	0.0651

Specifications	Operating Range	Comments
Thermal data 17 Thermal resistance housing-ambient 45.5 K / W 18 Thermal resistance winding-housing 19.5 K / W 19 Thermal time constant winding 3.14 s 20 Thermal time constant motor 108 s 21 Ambient temperature -20 ... +65°C 22 Max. permissible winding temperature +85°C Mechanical data (sleeve bearings) 23 Max. permissible speed 14000 rpm 24 Axial play 0.05 - 0.15 mm 25 Radial play 0.012 mm 26 Max. axial load (dynamic) 0.15 N 27 Max. force for press fits (static) 15 N 28 Max. radial loading, 4 mm from flange 0.4 N	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

Other specifications	maxon Modular System	Overview on page 16 - 21
29 Number of pole pairs 1 30 Number of commutator segments 7 31 Weight of motor 7 g Values listed in the table are nominal. Explanation of the figures on page 49.	Planetary Gearhead \varnothing 10 mm 0.005 - 0.1 Nm Page 214 Planetary Gearhead \varnothing 10 mm 0.01 - 0.15 Nm Page 215	Encoder MR 16 CPT, 2 channels Page 252 Encoder MR 64 - 256 CPT, 2 channels Page 253 Encoder MEnc \varnothing 10 mm 12 CPT, 2 channels Page 269

Recommended Electronics:
LSC 30/2 Page 276
Notes 18