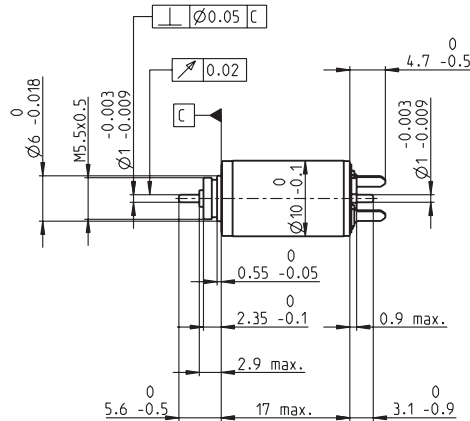
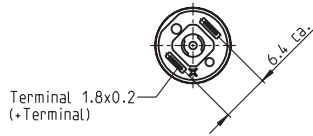


RE 10 Ø10 mm, Precious Metal Brushes, 0.75 Watt, CE approved



M 1:1

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

Order Number

256085	256086	256087	256088	256089	256090	256091	256092	256093	256094
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Motor Data															
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	10100	10200	9760	11200	12800	11200	11600	10400	10500	11400			
3	No load current	mA	23.4	18.8	14.9	13.9	12.3	10.5	9.07	8.01	6.51	5.37			
4	Nominal speed	rpm	1630	1990	1500	2950	4680	3160	3350	1860	2000	2790			
5	Nominal torque (max. continuous torque)	mNm	0.742	0.775	0.769	0.771	0.768	0.785	0.768	0.742	0.742	0.731			
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	%	59	61	60	62	64	62	62	60	60	60			
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	8.02	7.96	7.99	7.95	7.95	7.9	7.98	8.09	8.09	8.16			
16	Rotor inertia	gcm ²	0.066	0.0711	0.0704	0.0706	0.0706	0.0726	0.0706	0.0666	0.0666	0.0654			

Specifications	Operating Range	Comments
<p>Thermal data</p> <p>17 Thermal resistance housing-ambient 45.5 K / W</p> <p>18 Thermal resistance winding-housing 19.5 K / W</p> <p>19 Thermal time constant winding 2.93 s</p> <p>20 Thermal time constant motor 108 s</p> <p>21 Ambient temperature -20 ... +65°C</p> <p>22 Max. permissible winding temperature +85°C</p> <p>Mechanical data (sleeve bearings)</p> <p>23 Max. permissible speed 14000 rpm</p> <p>24 Axial play 0.05 - 0.15 mm</p> <p>25 Radial play 0.012 mm</p> <p>26 Max. axial load (dynamic) 0.15 N</p> <p>27 Max. force for press fits (static) 15 N</p> <p>28 Max. radial loading, 4 mm from flange 0.4 N</p>	<p>Operating Range</p>	<p>Comments</p> <p> 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.</p> <p> Short term operation The motor may be briefly overloaded (recurring).</p> <p> Assigned power rating</p>

Other specifications	maxon Modular System	Overview on page 16 - 21
<p>29 Number of pole pairs 1</p> <p>30 Number of commutator segments 7</p> <p>31 Weight of motor 7 g</p> <p>Values listed in the table are nominal. Explanation of the figures on page 49.</p>	<p>Planetary Gearhead Ø10 mm 0.005 - 0.1 Nm Page 205</p> <p>Planetary Gearhead Ø10 mm 0.01 - 0.15 Nm Page 206</p>	<p>Encoder MR 16 Imp., 2 channels Page 255</p> <p>Encoder MR 64 - 256 Imp., 2 channels Page 256</p> <p>Encoder MEnc Ø10 mm 12 Imp., 2 channels Page 273</p> <p>Recommended Electronics: LSC 30/2 Page 282 EPOS2 Module 36/2 304 Notes 18</p>