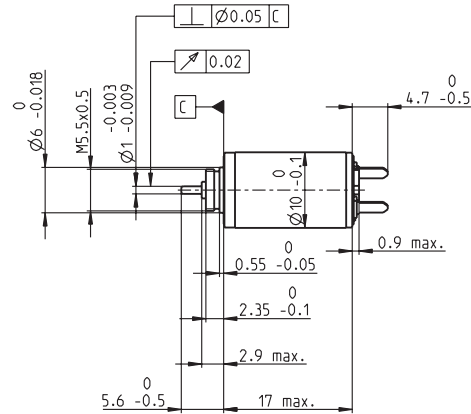
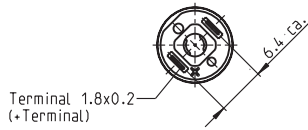


# RE 10 $\varnothing 10$ mm, Precious Metal Brushes, 0.75 Watt, CE approved



M 1:1

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

**Order Number**

118382	118383	118384	118385	118386	118387	118388	118389	118390	118391
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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	10300	10400	9930	11300	13000	11400	11700	10600	10700	11600											
3	No load current	mA	16.0	12.8	10.1	9.51	8.5	7.18	6.21	5.46	4.44	3.68											
4	Nominal speed	rpm	1630	1990	1500	2950	4670	3150	3340	2300	2000	2790											
5	Nominal torque (max. continuous torque)	mNm	0.757	0.789	0.784	0.787	0.784	0.800	0.784	0.718	0.757	0.746											
6	Nominal current (max. continuous current)	A	0.367	0.306	0.243	0.222	0.190	0.170	0.143	0.119	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	0.150	0.123	0.106											
9	Max. efficiency	%	66	67	66	68	69	68	68	66	66	67											
Characteristics																							
10	Terminal resistance	$\Omega$	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	0.0720	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 <sup>2</sup>	0.0656	0.0707	0.0700	0.0702	0.0702	0.0722	0.0701	0.0662	0.0662	0.0651											

Specifications	Operating Range	Comments
<p><b>Thermal data</b></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 3.14 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><b>Mechanical data (sleeve bearings)</b></p> <p>23 Max. permissible speed 19000 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><b>Operating Range</b></p>	<p><b>Continuous operation</b> 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><b>Short term operation</b> The motor may be briefly overloaded (recurring).</p> <p>— Assigned power rating</p>

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><b>Planetary Gearhead</b> <math>\varnothing 10</math> mm 0.005 - 0.1 Nm Page 205</p> <p><b>Planetary Gearhead</b> <math>\varnothing 10</math> mm 0.01 - 0.15 Nm Page 206</p>	<p><b>Recommended Electronics:</b> LSC 30/2 Page 282</p> <p><b>Notes</b> 18</p>