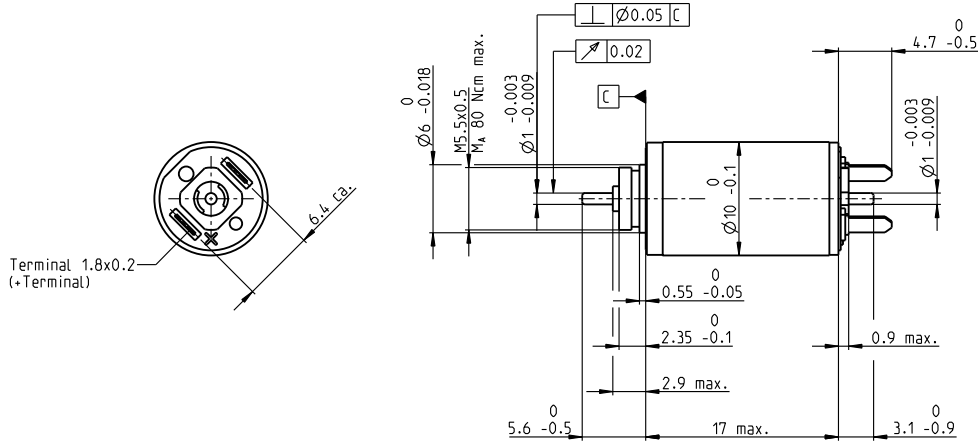


RE 10 \varnothing 10 mm, precious metal brushes, 0.75 watt

RE



M 3:2

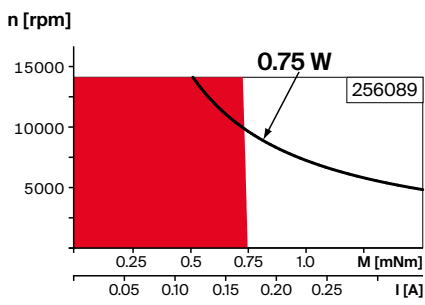
- Stock program
- Standard program
- Special program (on request)

Part Numbers

Motor Data	256085	256086	256087	256088	256089	256090	256091	256092	256093	256094	
Values at nominal voltage											
1 Nominal voltage	V	2.4	3	3.6	4.5	6	6	7.2	7.2	9	12
2 No load speed	rpm	10200	10300	9840	11200	12900	11300	11600	10500	10600	11500
3 No load current	mA	23.4	18.8	14.9	13.9	11.8	10.5	8.86	8.01	6.51	5.37
4 Nominal speed	rpm	1630	1990	1500	2950	4680	3160	3350	1860	2000	2790
5 Nominal torque	mNm	0.742	0.775	0.769	0.771	0.768	0.785	0.768	0.743	0.742	0.731
6 Nominal current (max. continuous current)	A	0.367	0.306	0.243	0.222	0.19	0.17	0.143	0.125	0.101	0.081
7 Stall torque	mNm	0.924	1	0.949	1.09	1.25	1.13	1.12	0.944	0.957	1.01
8 Stall 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	12.7	15.2	20.6	25.8	36.4	479	72.9	114
11 Terminal inductance	mH	0.046	0.072	0.112	0.136	0.184	0.24	0.325	0.398	0.605	0.92
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	7.9	7.9	7.85	7.93	8.04	8.04	8.11
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

- 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 3.16 s
 - 20 Thermal time constant motor 108 s
 - 21 Ambient temperature -20...+65°C
 - 22 Max. winding temperature +85°C
- Mechanical data (sleeve bearings)**
- 23 Max. speed 14.000 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 load, 4 mm from flange 0.4 N



- 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**

<p>Other specifications</p> <ul style="list-style-type: none"> 29 Number of pole pairs 1 30 Number of commutator segments 7 31 Weight of motor 7 g <p>Values listed in the table are nominal. Explanation of the figures on page 90.</p>	<p>maxon Modular System</p> <p>Gear</p> <ul style="list-style-type: none"> 396_GP 10 K 397_GP 10 A 	<p>Sensor</p> <ul style="list-style-type: none"> 471_ENX 10 GAMA 504_Encoder MR 16 CPT 505_Encoder MR 64-256 CPT 	<p>Motor Control</p> <ul style="list-style-type: none"> 532_ESCON Module 24/2 532_ESCON 36/2 DC 542_EPOS4 Module 24/1.5 544_EPOS4 Compact 24/1.5
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