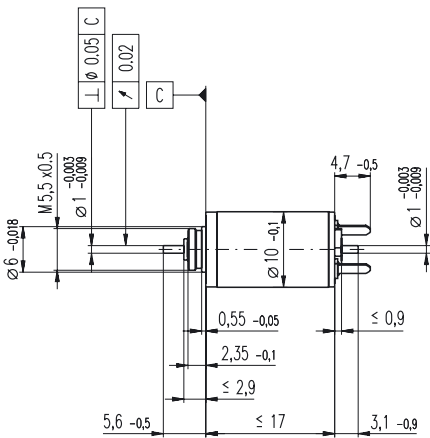
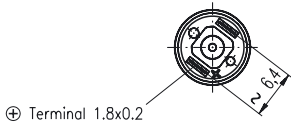


RE 10 Ø10 mm, Precious Metal Brushes, 0.75 Watt, CE approved



M 1:1

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

Order Number

Motor Data		256085	256086	256087	256088	256089	256090	256091	256092	256093	256094						
1	Assigned power rating	W	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75						
2	Nominal voltage	Volt	2.4	3.0	3.6	4.5	6.0	6.0	7.2	7.2	9.0	12.0					
3	No load speed	rpm	10200	10300	9840	11200	12900	11300	11600	10500	10600	11500					
4	Stall torque	mNm	0.924	1.00	0.949	1.09	1.25	1.13	1.12	0.944	0.957	1.01					
5	Speed / torque gradient	rpm / mNm	11600	10700	10800	10700	10700	10400	10800	11600	11600	11900					
6	No load current	mA	20	16	13	12	11	9	8	7	6	5					
7	Starting current	mA	432	375	284	297	292	232	198	150	123	106					
8	Terminal resistance	Ohm	5.55	8.00	12.7	15.2	20.6	25.8	36.4	47.9	72.9	114					
9	Max. permissible speed	rpm	14300	14300	14300	14300	14300	14300	14300	14300	14300	14300					
10	Max. continuous current	mA	367	306	243	222	191	170	143	125	101	81.1					
11	Max. continuous torque	mNm	0.785	0.817	0.812	0.816	0.816	0.830	0.813	0.785	0.785	0.775					
12	Max. power output at nominal voltage	mW	240	261	237	312	412	326	333	250	257	294					
13	Max. efficiency	%	62.7	64.0	63.3	64.9	66.3	65.4	65.2	62.9	63.1	63.0					
14	Torque constant	mNm / A	2.14	2.67	3.34	3.67	4.27	4.88	5.68	6.28	7.75	9.55					
15	Speed constant	rpm / V	4470	3570	2860	2600	2230	1960	1680	1520	1230	1000					
16	Mechanical time constant	ms	8	7	7	7	7	7	7	7	7	7					
17	Rotor inertia	gcm <sup>2</sup>	0.062	0.067	0.066	0.066	0.066	0.068	0.066	0.061	0.061	0.060					
18	Terminal inductance	mH	0.05	0.07	0.11	0.14	0.18	0.24	0.33	0.40	0.60	0.92					
19	Thermal resistance housing-ambient	K / W	46	46	46	46	46	46	46	46	46	46					
20	Thermal resistance rotor-housing	K / W	20	20	20	20	20	20	20	20	20	20					
21	Thermal time constant winding	s	3	3	3	3	3	3	3	3	3	3					

**Specifications**

- Axial play 0.05 - 0.15 mm
- Max. **sleeve bearing** loads
  - axial (dynamic) 0.15 N
  - radial (4 mm from flange) 0.4 N
  - Force for press fits (static) 15 N
- Radial play **sleeve bearing** 0.012 mm
- Ambient temperature range -20 ... +65°C
- Max. rotor temperature +85°C
- Number of commutator segments 7
- Weight of motor 7 g
- 2 pole permanent magnet
- Values listed in the table are nominal. For applicable tolerances see page 43. For additional details please use the maxon selection program on the enclosed CD-ROM.

**Operating Range**

n [rpm]

0.75 Watt

M [mNm]

I [A]

256094 Motor with high resistance winding

256085 Motor with low resistance winding

**Comments**

**Recommended operating range**

**Continuous operation**  
In observation of above listed thermal resistances (lines 19 and 20) the maximum permissible rotor temperature will be reached during continuous operation at 25°C ambient.  
= Thermal limit.

**Short term operation**  
The motor may be briefly overloaded (recurring).

**Details on page 49**

**maxon Modular System**

**Planetary Gearhead**  
Ø10 mm  
0.005 - 0.1 Nm  
Details page 196

**Planetary Gearhead**  
Ø10 mm  
0.01 - 0.15 Nm  
Details page 197

**Encoder MR**  
16 CPT,  
2 channels  
Details page 232

**Encoder MR**  
64 / 128 / 256 CPT,  
2 channels  
Details page 233

**Encoder MEnc**  
Ø10 mm  
12 CPT, 2 channels  
Details page 250

**Recommended Electronics:**  
LSC 30/2 page 257  
EPOS 24/1 271  
MIP 10 273  
Notes 17

**Overview on page 17 - 21**