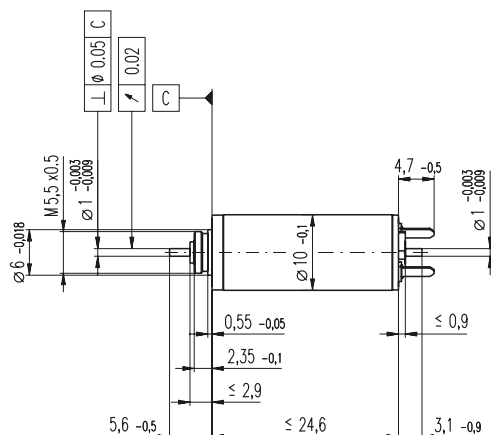


RE 10 Ø10 mm, Precious Metal Brushes, 1.5 Watt, CE approved



M 1:1

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

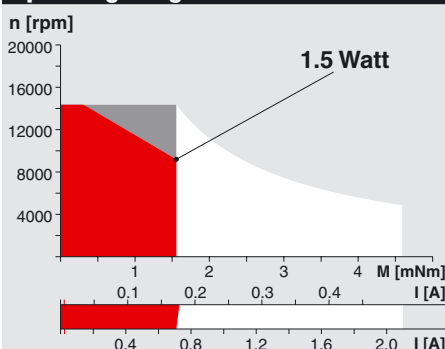
Order Number

		256096	256097	256099	256100	256101	256102	256103	256104	256105										
Motor Data																				
1	Assigned power rating	W	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5										
2	Nominal voltage	Volt	2.4	3.0	4.5	4.5	6.0	7.2	9.0	10.0	12.0									
3	No load speed	rpm	10400	10700	12800	10600	12400	11900	12200	12300	12500									
4	Stall torque	mNm	2.49	2.52	3.03	2.47	3.01	3.13	3.08	3.14	3.24									
5	Speed / torque gradient	rpm / mNm	4250	4340	4290	4370	4180	3860	4010	3980	3930									
6	No load current	mA	22	19	16	12	11	9	7	7	6									
7	Starting current	mA	1150	963	919	619	660	549	444	412	360									
8	Terminal resistance	Ohm	2.08	3.11	4.90	7.27	9.09	13.1	20.3	24.3	33.3									
9	Max. permissible speed	rpm	14300	14300	14300	14900	14300	14300	14300	14300	14300									
10	Max. continuous current	mA	710	580	462	379	339	282	227	208	177									
11	Max. continuous torque	mNm	1.54	1.52	1.53	1.51	1.55	1.61	1.58	1.58	1.59									
12	Max. power output at nominal voltage	mW	669	699	1000	673	962	962	971	1000	1050									
13	Max. efficiency	%	75	75	76	74	76	77	76	77	77									
14	Torque constant	mNm / A	2.16	2.62	3.30	3.99	4.56	5.69	6.95	7.63	9.00									
15	Speed constant	rpm / V	4410	3650	2890	2400	2100	1680	1370	1250	1060									
16	Mechanical time constant	ms	4	4	4	4	4	4	4	4	4									
17	Rotor inertia	gcm ²	0.098	0.096	0.096	0.094	0.098	0.105	0.101	0.102	0.103									
18	Terminal inductance	mH	0.02	0.03	0.04	0.06	0.08	0.12	0.18	0.21	0.30									
19	Thermal resistance housing-ambient	K / W	38	38	38	38	38	38	38	38	38									
20	Thermal resistance rotor-housing	K / W	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0									
21	Thermal time constant winding	s	2	2	2	2	2	2	2	2	2									

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 10 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



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).

- 256105** Motor with high resistance winding
- 256096** Motor with low resistance winding

maxon Modular System

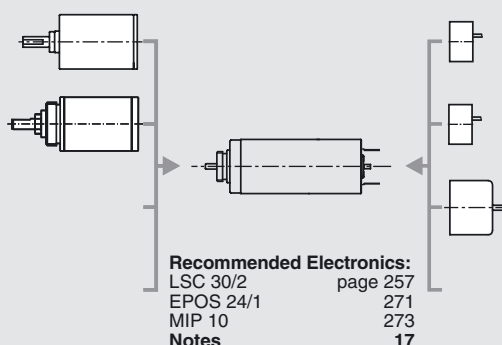
Overview on page 17 - 21

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