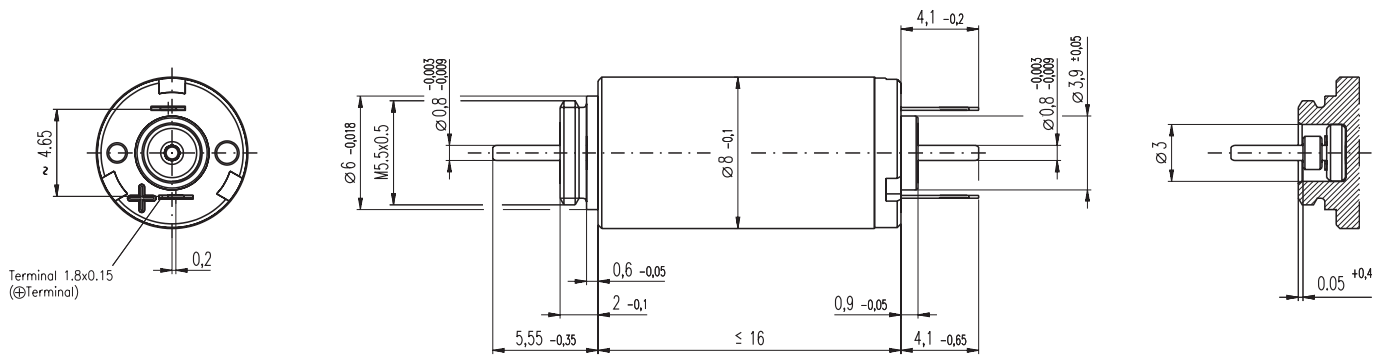


RE 8 Ø8 mm, Precious Metal Brushes, 0.5 Watt



M 2.5:1

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

Order Number

261492	261508	261509	261513	261510	261512
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Motor Data

		261492	261508	261509	261513	261510	261512
Values at nominal voltage							
1	Nominal voltage	V	2.4	4.2	6.0	7.2	9.0
2	No load speed	rpm	14000	14200	13400	14400	14500
3	No load current	mA	16.8	9.81	6.43	5.82	4.66
4	Nominal speed	rpm	4260	4450	3490	4210	4750
5	Nominal torque (max. continuous torque)	mNm	0.627	0.624	0.617	0.596	0.627
6	Nominal current (max. continuous current)	A	0.409	0.237	0.155	0.134	0.113
7	Stall torque	mNm	0.925	0.932	0.857	0.866	0.957
8	Starting current	A	0.581	0.340	0.207	0.187	0.166
9	Max. efficiency	%	69	69	68	68	69
Characteristics							
10	Terminal resistance	Ω	4.13	12.3	29.0	38.5	54.3
11	Terminal inductance	mH	0.0304	0.0900	0.206	0.257	0.400
12	Torque constant	mNm / A	1.59	2.74	4.15	4.63	5.77
13	Speed constant	rpm / V	6000	3490	2300	2060	1650
14	Speed / torque gradient	rpm / mNm	15600	15700	16100	17200	15500
15	Mechanical time constant	ms	6.28	6.26	6.30	6.40	6.26
16	Rotor inertia	gcm ²	0.0385	0.0381	0.0373	0.0356	0.0384

Specifications

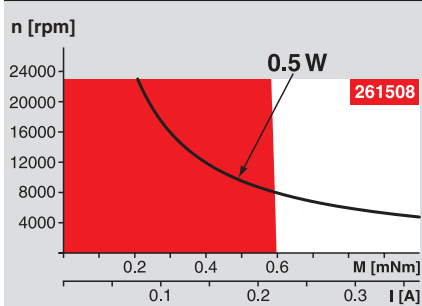
Thermal data		
17	Thermal resistance housing-ambient	48 K / W
18	Thermal resistance winding-housing	22 K / W
19	Thermal time constant winding	2.94 s
20	Thermal time constant motor	98.4 s
21	Ambient temperature	-20 ... +65°C
22	Max. permissible winding temperature	+85°C
Mechanical data (sleeve bearings)		
23	Max. permissible speed	23000 rpm
24	Axial play	0.02 - 0.1 mm
25	Radial play	0.012 mm
26	Max. axial load (dynamic)	0.15 N
27	Max. force for press fits (static)	10 N
28	Max. radial loading, 4 mm from flange	0.6 N

Other specifications

29	Number of pole pairs	1
30	Number of commutator segments	5
31	Weight of motor	4.1 g
	Ceramic shaft	

Values listed in the table are nominal.
Explanation of the figures on page 47.

Operating Range



Comments

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.

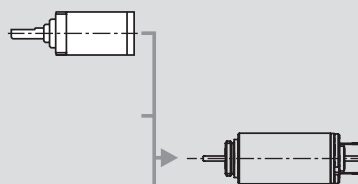
Short term operation
The motor may be briefly overloaded (recurring).

— Assigned power rating

maxon Modular System

Overview on page 16 - 21

Planetary Gearhead
Ø8 mm
0.002 - 0.03 Nm
Page 205



Recommended Electronics:
LSC 30/2 Page 268
Notes 18