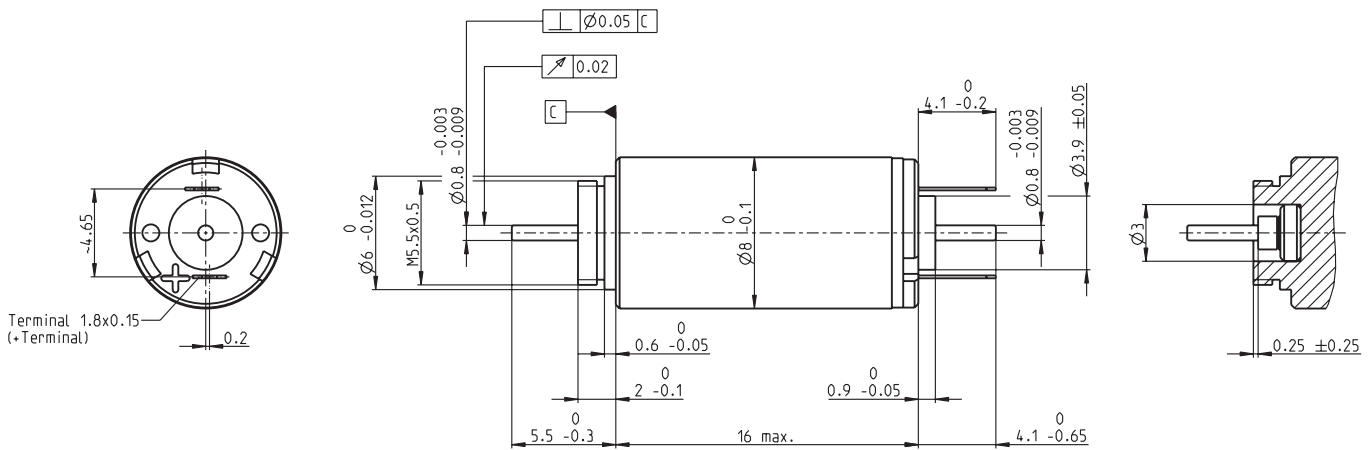


RE 8 Ø8 mm, Precious Metal Brushes, 0.5 Watt



M 2.5:1

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

Order Number

347723	347724	347725	347728	347726	347727
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Motor Data

Values at nominal voltage		347723	347724	347725	347728	347726	347727	
1	Nominal voltage	V	2.4	4.2	6.0	7.2	9.0	12.0
2	No load speed	rpm	13900	14200	13300	14300	14400	15600
3	No load current	mA	19.2	11.2	7.3	6.66	5.34	4.43
4	Nominal speed	rpm	4260	4460	3490	4210	4760	5400
5	Nominal torque (max. continuous torque)	mNm	0.626	0.623	0.616	0.595	0.626	0.589
6	Nominal current (max. continuous current)	A	0.409	0.237	0.154	0.134	0.113	0.0865
7	Stall torque	mNm	0.925	0.932	0.857	0.866	0.957	0.925
8	Starting current	A	0.581	0.340	0.207	0.187	0.166	0.130
9	Max. efficiency	%	67	67	66	66	68	67
Characteristics								
10	Terminal resistance	Ω	4.13	12.3	29.0	38.5	54.3	92.2
11	Terminal inductance	mH	0.0304	0.090	0.206	0.257	0.400	0.606
12	Torque constant	mNm / A	1.59	2.74	4.15	4.63	5.77	7.11
13	Speed constant	rpm / V	6000	3490	2300	2060	1650	1340
14	Speed / torque gradient	rpm / mNm	15600	15700	16100	17200	15500	17400
15	Mechanical time constant	ms	6.31	6.3	6.34	6.44	6.29	6.49
16	Rotor inertia	gcm ²	0.0388	0.0383	0.0375	0.0358	0.0387	0.0355

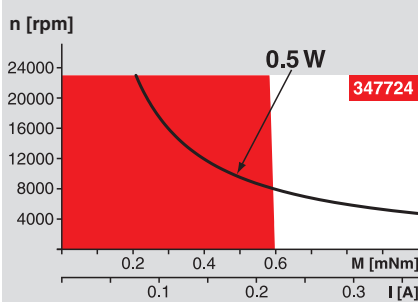
Specifications

Thermal data		
17	Thermal resistance housing-ambient	48 K / W
18	Thermal resistance winding-housing	22 K / W
19	Thermal time constant winding	3.0 s
20	Thermal time constant motor	21.3 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

Values listed in the table are nominal.
Explanation of the figures on page 49.

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.

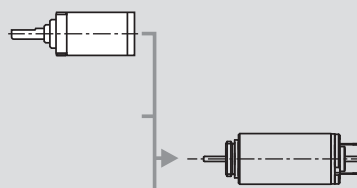
Short term operation
The motor may be briefly overloaded (recurring).

Assigned power rating

maxon Modular System

Overview on page 16 - 21

Planetary Gearhead
Ø8 mm
0.01 - 0.1 Nm
Page 204



Encoder MR
100 Imp.,
2 channels
Page 256

Recommended Electronics:
LSC 30/2 Page 282
EPOS2 Module 36/2 304
Notes 18