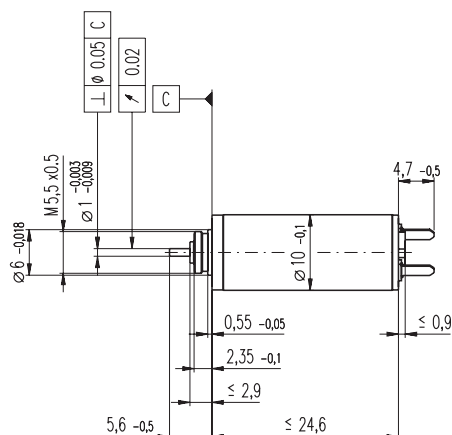
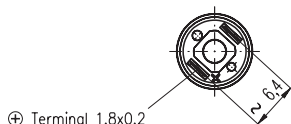


RE 10 Ø10 mm, Precious Metal Brushes, 1.5 Watt, CE approved



M 1:1

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

Order Number

118392	118393	118394	118395	118396	118397	118398	118399	118400
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Motor Data

Values at nominal voltage

Values at nominal voltage																	
1	Nominal voltage	V	3.0	3.0	4.5	4.5	6.0	6.0	9.0	9.0	12.0						
2	No load speed	rpm	13000	10700	12800	10600	12400	9880	12200	11100	12500						
3	No load current	mA	23.9	18.5	15.5	12.1	11.1	8.33	7.27	6.42	5.67						
4	Nominal speed	rpm	6760	4380	6500	4190	6140	3870	6070	4980	6500						
5	Nominal torque (max. continuous torque)	mNm	1.48	1.47	1.48	1.47	1.50	1.57	1.53	1.54	1.54						
6	Nominal current (max. continuous current)	A	0.705	0.578	0.460	0.378	0.338	0.282	0.226	0.207	0.176						
7	Stall torque	mNm	3.12	2.52	3.04	2.47	3.01	2.61	3.08	2.83	3.24						
8	Starting current	A	1.44	0.963	0.919	0.619	0.660	0.458	0.444	0.371	0.360						
9	Max. efficiency	%	76	75	76	74	76	75	76	76	77						

Characteristics

10	Terminal resistance	Ω	2.08	3.11	4.90	7.27	9.09	13.1	20.3	24.3	33.3				
11	Terminal inductance	mH	0.0173	0.0253	0.0402	0.0586	0.0766	0.120	0.178	0.215	0.299				
12	Torque constant	mNm / A	2.16	2.62	3.30	3.99	4.56	5.70	6.95	7.63	9.00				
13	Speed constant	rpm / V	4410	3640	2890	2400	2100	1680	1370	1250	1060				
14	Speed / torque gradient	rpm / mNm	4240	4330	4280	4370	4180	3860	4010	3980	3930				
15	Mechanical time constant	ms	4.60	4.58	4.57	4.57	4.55	4.54	4.56	4.54	4.53				
16	Rotor inertia	gcm ²	0.103	0.101	0.102	0.0998	0.104	0.112	0.109	0.109	0.110				

Specifications

Thermal data

17	Thermal resistance housing-ambient	37.5 K / W
18	Thermal resistance winding-housing	9.0 K / W
19	Thermal time constant winding	2.21 s
20	Thermal time constant motor	188 s
21	Ambient temperature	-20 ... +65°C
22	Max. permissible winding temperature	+85°C

Mechanical data (sleeve bearings)

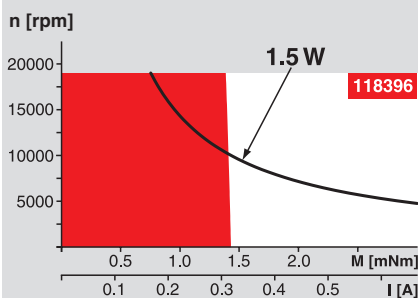
23	Max. permissible speed	19000 rpm
24	Axial play	0.05 - 0.15 mm
25	Radial play	0.012 mm
26	Max. axial load (dynamic)	0.15 N
27	Max. force for press fits (static)	15 N
28	Max. radial loading, 4 mm from flange	0.4 N

Other specifications

29	Number of pole pairs	1
30	Number of commutator segments	7
31	Weight of motor	10 g

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

Operating Range



Comments

Continuous operation

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

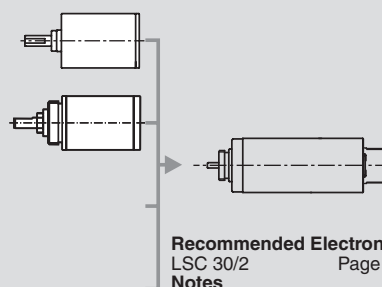
Overview on page 16 - 21

Planetary Gearhead

Ø10 mm
 0.005 - 0.1 Nm
 Page 214

Planetary Gearhead

Ø10 mm
 0.01 - 0.15 Nm
 Page 215



Recommended Electronics:
LSC 30/2 Page 276
Notes **18**