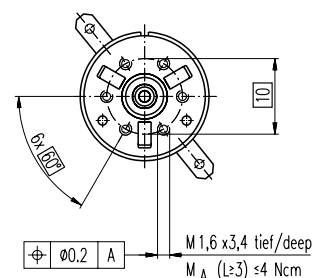
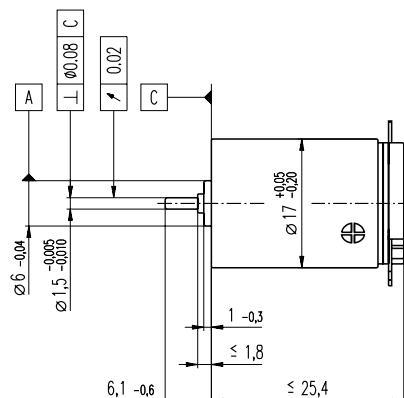
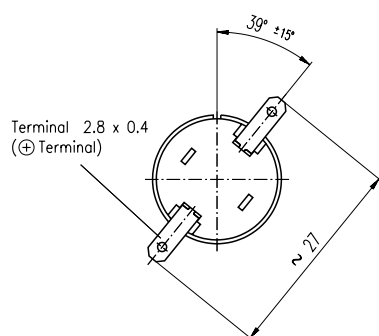


RE-max 17 Ø17 mm, Precious Metal Brushes CLL, 4 Watt



M 1:1

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

Order Number

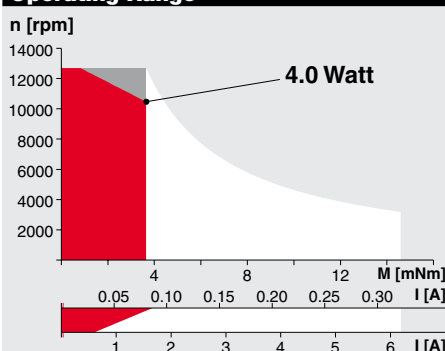
Motor Data (provisional)

		214895	214896	214897	214898	214899	215982	215983	215985	215986	215987								
1 Assigned power rating	W	4	4	4	4	4	4	4	4	4	4								
2 Nominal voltage	Volt	3	5	12	15	21	24	24	30	36	48								
3 No load speed	rpm	11900	11300	11200	11300	11900	11700	10400	10800	11500	10100								
4 Stall torque	mNm	17.5	13.8	14.7	14.7	15.3	15.3	13.3	13.6	14.1	11.8								
5 Speed / torque gradient	rpm / mNm	682	828	764	774	784	776	786	797	822	860								
6 No load current	mA	31	17	7	6	4	4	3	3	2	2								
7 Starting current	mA	7320	3280	1450	1170	910	772	604	518	473	262								
8 Terminal resistance	Ohm	0.41	1.52	8.3	12.8	23.1	31.1	39.7	57.9	76.2	183								
9 Max. permissible speed	rpm	12700	12700	12700	12700	12700	12700	12700	12700	12700	12700								
10 Max. continuous current	mA	600	600	408	328	244	210	186	154	134	86.7								
11 Max. continuous torque	mNm	1.44	2.52	4.15	4.12	4.1	4.12	4.09	4.06	4	3.91								
12 Max. power output at nominal voltage	mW	5460	4070	4310	4360	4740	4600	3600	3860	4220	3120								
13 Max. efficiency	%	88	86	87	87	87	87	86	86	86	86								
14 Torque constant	mNm / A	2.4	4.19	10.2	12.6	16.8	19.6	22	26.4	29.7	45.1								
15 Speed constant	rpm / V	3990	2280	938	759	569	488	435	362	321	212								
16 Mechanical time constant	ms	7	7	7	7	7	7	7	7	7	7								
17 Rotor inertia	gcm ²	1.01	0.781	0.819	0.807	0.797	0.804	0.795	0.785	0.763	0.733								
18 Terminal inductance	mH	0.01	0.04	0.22	0.34	0.59	0.81	1.02	1.47	1.87	4.31								
19 Thermal resistance housing-ambient	K / W	30	30	30	30	30	30	30	30	30	30								
20 Thermal resistance rotor-housing	K / W	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5								
21 Thermal time constant winding	s	4	3	3	3	3	3	3	3	3	3								

Specifications

- Axial play 0.05 - 0.15 mm
- Max. **sleeve bearing** loads
 - axial (dynamic) 0.8 N
 - radial (5 mm from flange) 1.4 N
 - Force for press fits (static) 35 N
- Max. **ball bearing** loads
 - axial (dynamic) 2.2 N
 - radial (5 mm from flange) 7.8 N
 - Force for press fits (static) 30 N
- Radial play **sleeve bearing** 0.012 mm
- Radial play **ball bearing** 0.025 mm
- Ambient temperature range -30 ... +85°C
- Max. rotor temperature +85°C
- Number of commutator segments 7
- Weight of motor 26 g
- 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.
- CLL = Capacitor Long Life

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).
- 215986** Motor with high resistance winding
- 214896** Motor with low resistance winding

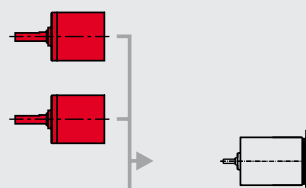
maxon Modular System

Planetary Gearhead

Ø16 mm
0.1 - 0.3 Nm
Details page 185

Planetary Gearhead

Ø16 mm
0.06 - 0.18 Nm
Details page 186



Recommended Electronics:
LSC 30/2
Notes
page 231
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