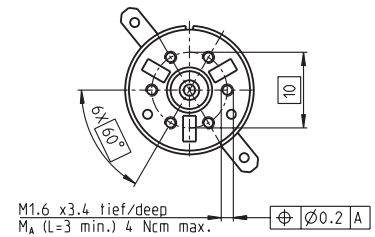
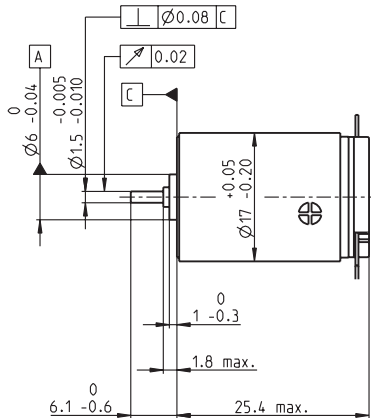
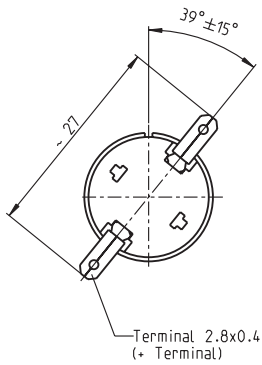


RE-max 17 \varnothing 17 mm, Precious Metal Brushes CLL, 4 Watt



M 1:1

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

Order Number

214895 214896 **214897** 214898 214899 215982 215983 215985 **215986** 215987

Motor Data

Values at nominal voltage		214895	214896	214897	214898	214899	215982	215983	215985	215986	215987	
1	Nominal voltage	V	3.0	4.5	12.0	15.0	21.0	24.0	24.0	30.0	36.0	48.0
2	No load speed	rpm	12200	10500	11500	11600	12200	12000	10600	11100	11800	10400
3	No load current	mA	32.6	16.9	7.38	6.02	4.66	3.94	3.26	2.79	2.57	1.56
4	Nominal speed	rpm	11300	8380	8760	8870	9440	9210	7870	8300	8960	7450
5	Nominal torque (max. continuous torque)	mNm	1.33	2.39	3.41	3.38	3.36	3.38	3.37	3.34	3.28	3.22
6	Nominal current (max. continuous current)	A	0.600	0.600	0.350	0.281	0.209	0.180	0.160	0.132	0.115	0.0745
7	Stall torque	mNm	17.1	12.1	14.4	14.3	14.9	14.7	12.9	13.3	13.7	11.5
8	Starting current	A	7.32	2.95	1.45	1.17	0.910	0.772	0.604	0.518	0.473	0.262
9	Max. efficiency	%	87	86	86	86	86	86	86	86	86	85
Characteristics												
10	Terminal resistance	Ω	0.410	1.52	8.30	12.8	23.1	31.1	39.7	57.9	76.2	183
11	Terminal inductance	mH	0.0114	0.0349	0.206	0.314	0.558	0.759	0.956	1.38	1.75	4.04
12	Torque constant	mNm / A	2.34	4.09	9.92	12.3	16.3	19.1	21.4	25.7	29.0	44.0
13	Speed constant	rpm / V	4090	2340	962	779	584	501	446	372	329	217
14	Speed / torque gradient	rpm / mNm	718	871	804	815	825	817	828	839	865	906
15	Mechanical time constant	ms	7.93	7.44	7.27	7.29	7.30	7.31	7.35	7.32	7.35	7.47
16	Rotor inertia	gcm ²	1.05	0.816	0.864	0.854	0.844	0.854	0.848	0.834	0.811	0.788

Specifications

Thermal data		
17	Thermal resistance housing-ambient	35 K / W
18	Thermal resistance winding-housing	12 K / W
19	Thermal time constant winding	7.7 s
20	Thermal time constant motor	455 s
21	Ambient temperature	-30 ... +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)	0.8 N
27	Max. force for press fits (static)	35 N
28	Max. radial loading, 5 mm from flange	1.4 N

Mechanical data (ball bearings)		
23	Max. permissible speed	19000 rpm
24	Axial play	0.05 - 0.15 mm
25	Radial play	0.025 mm
26	Max. axial load (dynamic)	2.2 N
27	Max. force for press fits (static)	30 N
28	Max. radial loading, 5 mm from flange	7.8 N

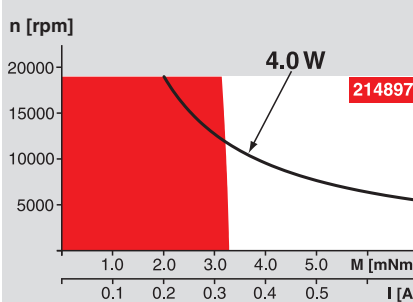
Other specifications		
29	Number of pole pairs	1
30	Number of commutator segments	7
31	Weight of motor	26 g

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

Option

- Ball bearings in place of sleeve bearings
- Pigtails in place of terminals
- Without CLL

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

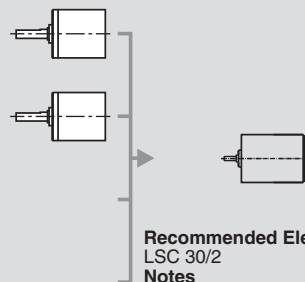
Overview on page 16 - 21

Planetary Gearhead

\varnothing 16 mm
0.06 - 0.18 Nm
Page 215

Planetary Gearhead

\varnothing 16 mm
0.1 - 0.3 Nm
Page 216



Recommended Electronics:
LSC 30/2 Page 282
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