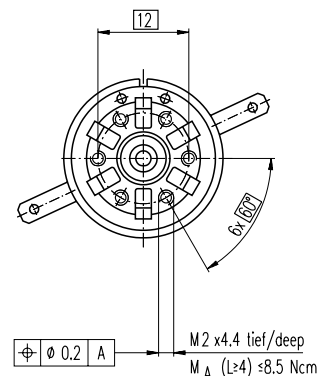
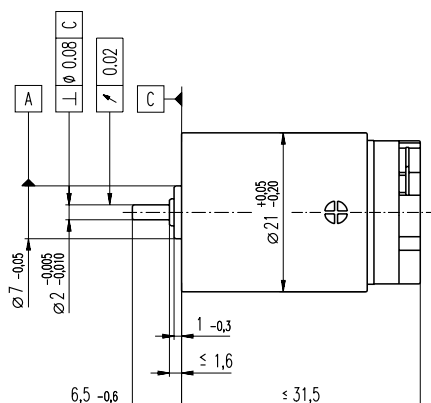
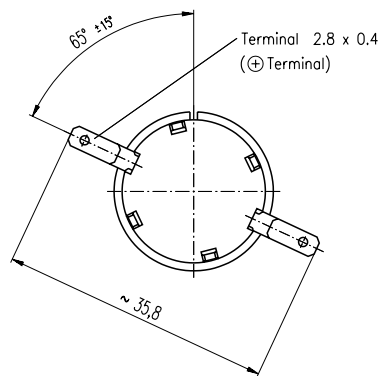


RE-max 21 Ø21 mm, Graphite Brushes, 6 Watt



M 1:1

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

Order Number

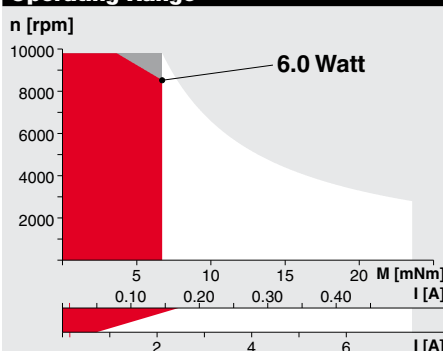
Motor Data (provisional)

		250000	250001	250002	250003	250004	250005	250006	250007	250008										
1	Assigned power rating	W	6	6	6	6	6	6	6	6										
2	Nominal voltage	Volt	4	6	9	15	18	21	24	36	48									
3	No load speed	rpm	11500	9790	10300	10700	10100	9870	9020	10200	9710									
4	Stall torque	mNm	14.6	20.1	26.8	31.3	31	29.7	27.5	30.9	28.3									
5	Speed / torque gradient	rpm / mNm	817	500	391	347	330	338	334	336	350									
6	No load current	mA	157	85	60	38	29	24	19	15	11									
7	Starting current	mA	4530	3510	3260	2370	1850	1490	1100	930	609									
8	Terminal resistance	Ohm	0.883	1.71	2.76	6.33	9.72	14.1	21.8	38.7	78.8									
9	Max. permissible speed	rpm	9800	9800	9800	9800	9800	9800	9800	9800	9800									
10	Max. continuous current	mA	720	720	720	606	486	402	323	242	169									
11	Max. continuous torque	mNm	2.31	4.11	5.91	8	8.15	8.04	8.07	8.03	7.86									
12	Max. power output at nominal voltage	mW	4260	5050	7100	8640	8100	7570	6390	8130	7090									
13	Max. efficiency	%	67	72	75	77	77	76	76	77	76									
14	Torque constant	mNm / A	3.21	5.71	8.21	13.2	16.8	20	25	33.2	46.4									
15	Speed constant	rpm / V	2970	1670	1160	723	569	478	382	288	206									
16	Mechanical time constant	ms	21	11	9	8	7	7	7	7	7									
17	Rotor inertia	gcm ²	2.48	2.02	2.11	2.06	2.09	2.01	2	1.97	1.89									
18	Terminal inductance	mH	0.02	0.06	0.12	0.32	0.51	0.72	1.13	1.99	3.89									
19	Thermal resistance housing-ambient	K / W	21	21	21	21	21	21	21	21	21									
20	Thermal resistance rotor-housing	K / W	11	11	11	11	11	11	11	11	11									
21	Thermal time constant winding	s	13	10	11	11	11	10	10	10	10									

Specifications

- Axial play 0.05 - 0.15 mm
- Max. **sleeve bearing** loads
 - axial (dynamic) 1.0 N
 - radial (5 mm from flange) 2.7 N
 - Force for press fits (static) 80 N
- Max. **ball bearing** loads
 - axial (dynamic) 3.3 N
 - radial (5 mm from flange) 11.9 N
 - Force for press fits (static) 45 N
- Radial play **sleeve bearing** 0.012 mm
- Radial play **ball bearing** 0.025 mm
- Ambient temperature range -30 ... +85°C
- Max. rotor temperature +125°C
- Number of commutator segments 9
- Weight of motor 42 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.

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).
- 250008** Motor with high resistance winding
- 250000** Motor with low resistance winding

maxon Modular System

Planetary Gearhead

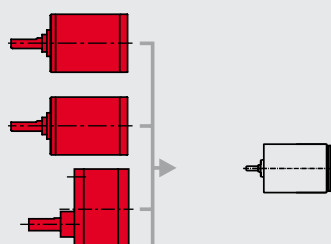
Ø22 mm
0.5 - 1.0 Nm
Details page 190

Planetary Gearhead

Ø22 mm
0.5 - 2.0 Nm
Details page 191

Spur Gearhead

Ø38 mm
0.1 - 0.6 Nm
Details page 200



Recommended Electronics:
LSC 30/2 page 231
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