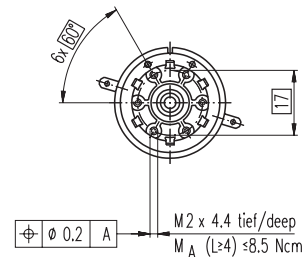
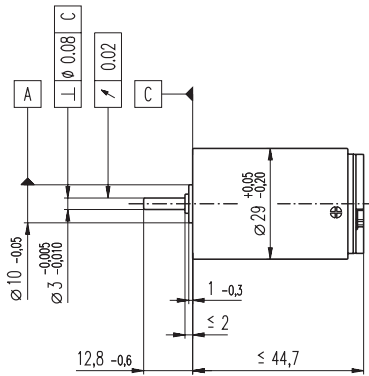
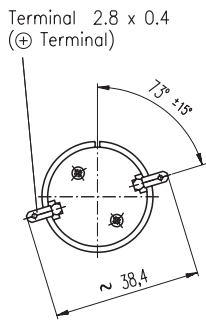


RE-max 29 Ø29 mm, Precious Metal Brushes CLL, 15 Watt



M 1:2

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

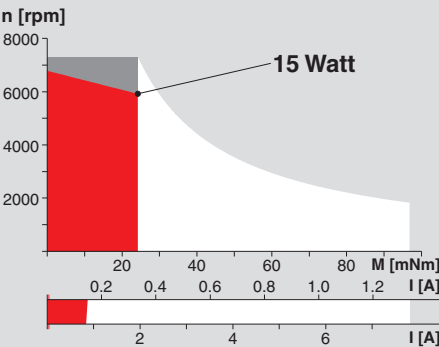
Order Number

Motor Data (provisional)	226748	226749	226751	226752	226753	226754	226755	226756	226757	226759	226760	226761	226762	226763	226764
1 Assigned power rating	W	15	15	15	15	15	15	15	15	15	15	15	15	15	15
2 Nominal voltage	Volt	7.2	9.0	12.0	18.0	18.0	24.0	30.0	36.0	42.0	48.0	48.0	48.0	48.0	48.0
3 No load speed	rpm	6480	7190	6160	6820	5630	5960	6170	6640	6710	6280	5400	5000	4160	3350
4 Stall torque	mNm	195	200	152	214	173	185	188	201	183	182	157	146	117	93.3
5 Speed / torque gradient	rpm / mNm	33.2	36.1	40.6	32.0	32.7	32.3	32.9	33.1	36.8	34.5	34.4	34.5	35.7	36.0
6 No load current	mA	45.1	43.6	24.7	19.8	14.0	11.6	9.90	9.43	8.25	6.39	4.87	4.26	3.09	2.13
7 Starting current	mA	18400	16800	8220	8490	5680	4810	4050	3900	3070	2510	1860	1590	1060	684
8 Terminal resistance	Ohm	0.390	0.536	1.46	2.12	3.17	4.99	7.41	9.24	13.7	19.2	25.8	30.1	45.1	70.2
9 Max. permissible speed	rpm	7300	7300	7300	7300	7300	7300	7300	7300	7300	7300	7300	7300	7300	7300
10 Max. continuous current	mA	839	839	839	838	838	698	573	513	422	356	307	284	232	186
11 Max. continuous torque	mNm	8.28	9.33	14.6	19.8	24.0	25.2	25.0	24.9	23.6	24.4	24.4	24.4	24.0	23.9
12 Max. power output at nominal voltage	mW	33100	37600	24600	38100	25500	28800	30300	35000	32200	30000	22200	19100	12700	8170
13 Max. efficiency	%	91	90	90	91	91	91	91	91	90	90	90	90	90	89
14 Torque constant	mNm / A	10.6	11.9	18.5	25.2	30.4	38.4	46.3	51.6	59.6	72.8	84.7	91.3	110	136
15 Speed constant	rpm / V	902	802	515	380	314	249	206	185	160	131	113	105	86.9	70.0
16 Mechanical time constant	ms	5	5	4	4	4	4	4	4	4	4	4	4	4	4
17 Rotor inertia	gcm ²	13.9	12.4	10.5	12.9	12.6	12.7	12.4	12.3	11.1	11.8	11.9	11.8	11.4	11.3
18 Terminal inductance	mH	0.035	0.045	0.108	0.199	0.292	0.464	0.676	0.839	1.12	1.67	2.26	2.63	3.80	5.85
19 Thermal resistance housing-ambient	K / W	16	16	16	16	16	16	16	16	16	16	16	16	16	16
20 Thermal resistance rotor-housing	K / W	4	4	4	4	4	4	4	4	4	4	4	4	4	4
21 Thermal time constant winding	s	17	15	12	15	15	15	15	15	13	14	14	14	14	13

Specifications

- Axial play 0.1 - 0.2 mm
- Max. **sleeve bearing** loads
 - axial (dynamic) 1.7 N
 - radial (5 mm from flange) 5.5 N
 - Force for press fits (static) 80 N
- Max. **ball bearing** loads
 - axial (dynamic) 5.0 N
 - radial (5 mm from flange) 20.5 N
 - Force for press fits (static) 75 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 13
- Weight of motor 159 g
- 2 pole permanent magnet
- 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).
- 226764 Motor with high resistance winding
- 226748 Motor with low resistance winding

maxon Modular System

Overview on page 17 - 21

Planetary Gearhead

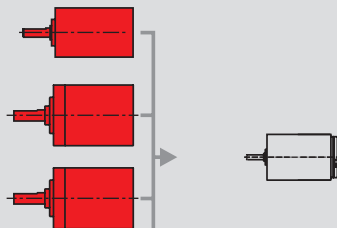
Ø26 mm
0.5 - 2.0 Nm
Details page 210

Planetary Gearhead

Ø32 mm
0.75 - 4.5 Nm
Details page 212

Planetary Gearhead

Ø32 mm
1.0 - 6.0 Nm
Details page 215



Recommended Electronics:
LSC 30/2 page 251
ADS 50/5 253
ADS_E 50/5 254
Notes 17