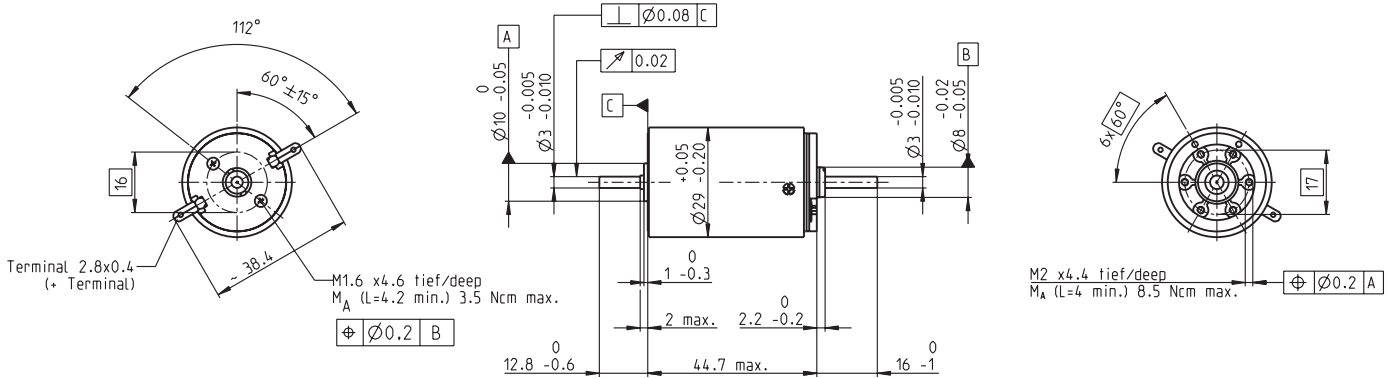


RE-max 29 \varnothing 29 mm, Precious Metal Brushes CLL, 9 Watt



M 1:2

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

Order Number

226765	226767	226770	226771	226772	226773	226774	226775	226776	226778	226779	226780	226781	226782	226783
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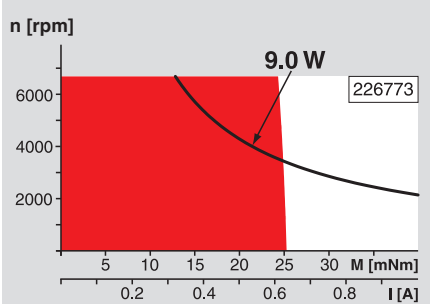
Motor Data

Values at nominal voltage		4.5	6.0	9.0	12.0	15.0	18.0	24.0	24.0	30.0	36.0	36.0	42.0	48.0	48.0	48.0
1	Nominal voltage	V	4.5	6.0	9.0	12.0	15.0	18.0	24.0	24.0	30.0	36.0	36.0	42.0	48.0	48.0
2	No load speed	rpm	4040	4790	4620	4540	4690	4460	4930	4420	4790	4710	4040	4380	4150	3350
3	No load current	mA	41.1	40.4	25.4	18.5	15.6	12.0	10.6	8.88	8.07	6.53	5.13	4.98	4.02	2.87
4	Nominal speed	rpm	3760	4450	4010	3880	3870	3620	4080	3570	3890	3830	3170	3500	3260	1870
5	Nominal torque (max. continuous torque)	mNm	8.48	9.55	15.1	20.7	25.2	26.2	25.9	25.9	24.5	25.3	25.5	25.4	25.0	24.8
6	Nominal current (max. continuous current)	A	0.840	0.840	0.840	0.840	0.840	0.693	0.568	0.510	0.418	0.353	0.305	0.282	0.231	0.186
7	Stall torque	mNm	122	133	114	142	144	139	150	134	131	137	118	127	117	93.3
8	Starting current	A	11.5	11.2	6.16	5.66	4.73	3.61	3.24	2.60	2.20	1.88	1.39	1.39	1.06	0.683
9	Max. efficiency	%	89	89	88	89	89	89	89	89	88	89	88	89	88	87
Characteristics																
10	Terminal resistance	Ω	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
11	Terminal inductance	mH	0.0353	0.0447	0.108	0.199	0.292	0.464	0.676	0.839	1.12	1.67	2.26	2.63	3.81	5.86
12	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
13	Speed constant	rpm / V	902	802	515	380	314	249	206	185	160	131	113	105	86.8	70
14	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	35.6	36.0
15	Mechanical time constant	ms	4.99	4.85	4.63	4.52	4.50	4.48	4.48	4.48	4.52	4.51	4.51	4.50	4.53	4.54
16	Rotor inertia	gcm ²	14.3	12.8	10.9	13.5	13.2	13.3	13.0	12.9	11.7	12.5	12.5	12.5	12.1	11.7

Specifications

- Thermal data**
- 17 Thermal resistance housing-ambient 15.8 K / W
 - 18 Thermal resistance winding-housing 4.0 K / W
 - 19 Thermal time constant winding 15.8 s
 - 20 Thermal time constant motor 1270 s
 - 21 Ambient temperature -30 ... +65°C
 - 22 Max. permissible winding temperature +85°C
- Mechanical data (sleeve bearings)**
- 23 Max. permissible speed 6700 rpm
 - 24 Axial play 0.1 - 0.2 mm
 - 25 Radial play 0.012 mm
 - 26 Max. axial load (dynamic) 1.7 N
 - 27 Max. force for press fits (static) 80 N
 - 28 Max. radial loading, 5 mm from flange 1200 N

Operating Range



Comments

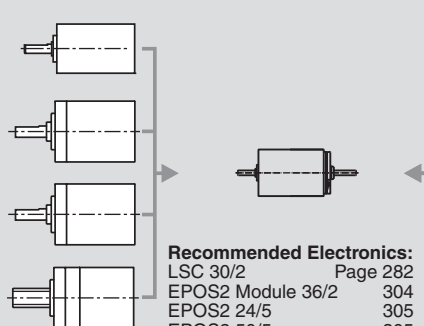
- Continuous operation**
In observation of above listed thermal resistance (lines 17 and 18) the maximum permissible winding temperature will be reached during continuous operation at 25°C ambient.
= Thermal limit.
- Short term operation**
The motor may be briefly overloaded (recurring).
- Assigned power rating**

- Mechanical data (ball bearings)**
- 23 Max. permissible speed 6700 rpm
 - 24 Axial play 0.1 - 0.2 mm
 - 25 Radial play 0.025 mm
 - 26 Max. axial load (dynamic) 5.0 N
 - 27 Max. force for press fits (static) 75 N
 - 28 Max. radial loading, 5 mm from flange 1200 N
- Other specifications**
- 29 Number of pole pairs 1
 - 30 Number of commutator segments 13
 - 31 Weight of motor 161 g
- CLL = Capacitor Long Life
- 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

maxon Modular System

Overview on page 16 - 21

- Planetary Gearhead**
 \varnothing 26 mm
0.5 - 2.0 Nm
Page 228
- Planetary Gearhead**
 \varnothing 32 mm
0.75 - 4.5 Nm
Page 231
- Planetary Gearhead**
 \varnothing 32 mm
1.0 - 6.0 Nm
Page 234
- Spindle Drive**
 \varnothing 32 mm
Page 249 / 250 / 251



Encoder MR
128 - 1000 Imp.,
3 channels
Page 262

- Recommended Electronics:**
- LSC 30/2 Page 282
 - EPOS2 Module 36/2 304
 - EPOS2 24/5 305
 - EPOS2 50/5 305
 - EPOS2P 24/5 308
- Notes** 18