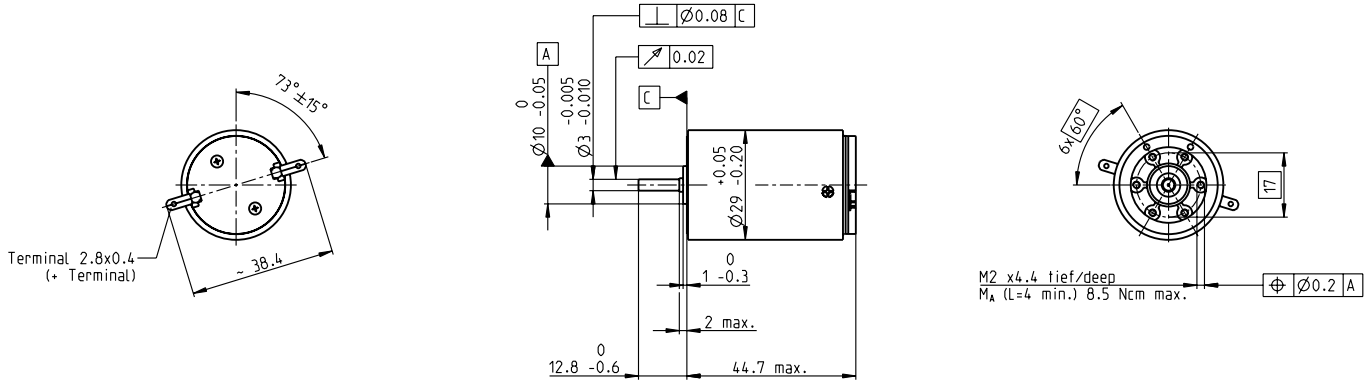


RE-max 29 Ø29 mm, Precious Metal Brushes CLL, 15 Watt



M 1:2

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

Part Numbers

Motor Data	226748	226749	226751	226752	226753	226754	226755	226756	226757	226759	226760	226761	226762	226763	226764	
Values at nominal voltage																
1 Nominal voltage	V	7.2	9	12	18	18	24	30	36	42	48	48	48	48	48	
2 No load speed	rpm	6320	7020	6010	6650	5490	5810	6010	6480	6550	6120	5260	4880	4050	3260	2720
3 No load current	mA	43	41.7	23.6	18.9	13.4	11.1	9.45	9.01	7.87	6.1	4.65	4.07	2.95	2.04	1.5
4 Nominal speed	rpm	6080	6710	5430	6020	4700	4990	5190	5650	5680	5280	4410	4020	3180	2380	1820
5 Nominal torque (max. continuous torque)	mNm	8.67	9.78	15.6	21.2	25.9	27	26.6	26.5	25	25.9	26.2	26.2	25.9	25.8	25.6
6 Nominal current (max. continuous current)	A	0.84	0.84	0.84	0.84	0.84	0.695	0.569	0.508	0.417	0.353	0.305	0.283	0.232	0.186	0.153
7 Stall torque	mNm	200	205	156	219	177	190	193	206	188	187	161	149	120	95.7	77.5
8 Stall current	A	18.4	16.8	8.22	8.49	5.68	4.81	4.05	3.9	3.07	2.51	1.86	1.59	1.06	0.683	0.461
9 Max. efficiency	%	91	91	90	91	91	91	91	91	90	91	90	90	90	90	89
Characteristics																
10 Terminal resistance	Ω	0.39	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	104
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	8.46
12 Torque constant	mNm/A	10.9	12.2	19	25.8	31.2	39.4	47.5	53	61.1	74.7	86.9	93.7	113	140	168
13 Speed constant	rpm/V	879	781	502	370	306	242	201	180	156	128	110	102	84.6	68.2	56.8
14 Speed / torque gradient	rpm/mNm	31.6	34.3	38.6	30.4	31	30.7	31.3	31.4	34.9	32.8	32.7	32.8	33.9	34.2	35.2
15 Mechanical time constant	ms	4.77	4.63	4.42	4.32	4.29	4.28	4.28	4.27	4.31	4.3	4.3	4.29	4.32	4.33	4.34
16 Rotor inertia	gcm ²	14.4	12.9	10.9	13.6	13.2	13.3	13.1	13	11.8	12.5	12.6	12.5	12.2	12.1	11.8

Specifications

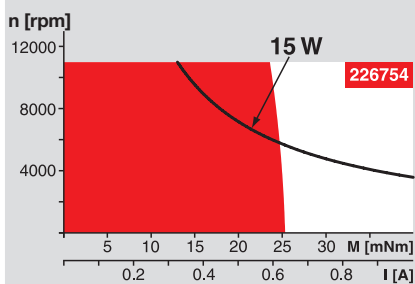
Thermal data	
17 Thermal resistance housing-ambient	15.8 K/W
18 Thermal resistance winding-housing	4.0 K/W
19 Thermal time constant winding	15.4 s
20 Thermal time constant motor	928 s
21 Ambient temperature	-30...+65°C
22 Max. winding temperature	+85°C
Mechanical data (sleeve bearings)	
23 Max. speed	11000 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 load, 5 mm from flange	5.5 N
Mechanical data (ball bearings)	
23 Max. speed	11000 rpm
24 Axial play	0.1 - 0.2 mm
25 Radial play	0.025 mm
26 Max. axial load (dynamic)	5 N
27 Max. force for press fits (static)	75 N
28 Max. radial load, 5 mm from flange	20.5 N
Other specifications	
29 Number of pole pairs	1
30 Number of commutator segments	13
31 Weight of motor	159 g
CLL = Capacitor Long Life	

Values listed in the table are nominal.
Explanation of the figures on page 151.

Option

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

Operating Range



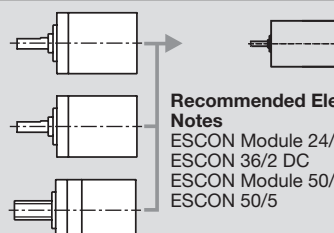
Comments

- 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 20–27

- Planetary Gearhead**
Ø32 mm
0.75 - 4.5 Nm
Page 339
- Planetary Gearhead**
Ø32 mm
1.0 - 6.0 Nm
Page 343
- Spindle Drive**
Ø32 mm
Page 370–372



- Recommended Electronics:**
Notes Page 24
- ESCON Module 24/2 416
 - ESCON 36/2 DC 416
 - ESCON Module 50/5 417
 - ESCON 50/5 418