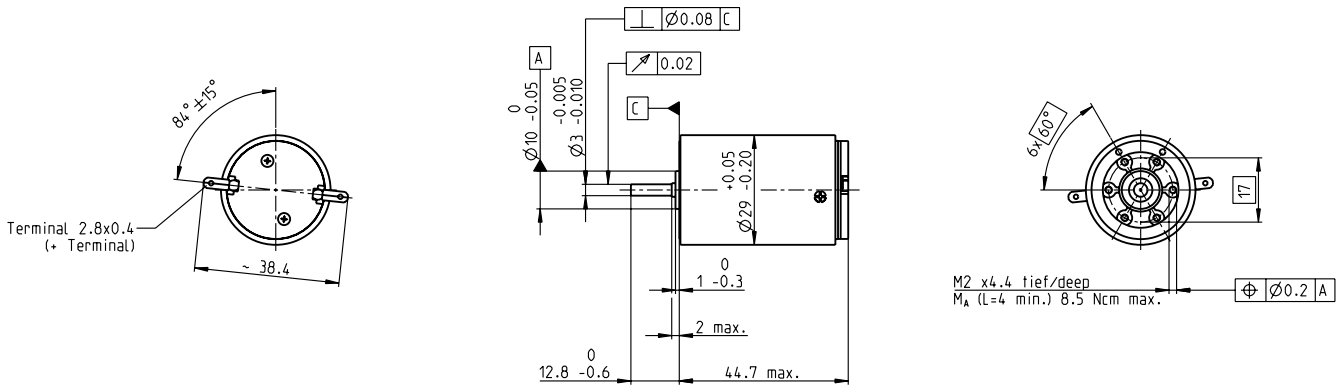


RE-max 29 Ø29 mm, Graphite Brushes, 22 Watt



M 1:2

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

Part Numbers

226784 226785 226787 226788 226789 226790 226791 226792 226793 226795 226796 226797 226798 226799 226800

Motor Data

Values at nominal voltage		9	12	18	24	30	36	42	48	48	42	48	48	48	48	
1 Nominal voltage	V	9	12	18	24	30	36	42	48	48	42	48	48	48	48	
2 No load speed	rpm	7890	9350	9010	8860	9140	8700	8410	8630	7470	5350	5250	4870	4040	3250	2700
3 No load current	mA	78.2	73.7	46.8	34.2	28.6	22.3	18.3	16.5	13.7	10.2	8.7	7.93	6.33	4.9	3.96
4 Nominal speed	rpm	7580	8960	8270	8050	8200	7760	7450	7670	6450	4330	4240	3850	3000	2200	1630
5 Nominal torque (max. continuous torque)	mNm	10.9	12.3	19.7	27	30.8	31.1	30.8	30.7	29.4	31	31.1	31.2	30.9	30.9	30.6
6 Nominal current (max. continuous current)	A	1.08	1.08	1.08	1.08	1.01	0.811	0.666	0.595	0.495	0.425	0.366	0.34	0.28	0.225	0.186
7 Stall torque	mNm	284	299	242	299	300	287	271	277	215	164	162	150	120	95.7	77.5
8 Stall current	A	26.1	24.5	12.7	11.6	9.6	7.29	5.71	5.22	3.52	2.2	1.86	1.6	1.06	0.684	0.461
9 Max. efficiency	%	89	89	88	90	90	89	89	89	88	87	87	86	85	84	82
Characteristics																
10 Terminal resistance	Ω	0.345	0.49	1.41	2.07	3.13	4.94	7.36	9.19	13.6	19.1	25.8	30.1	45.1	70.2	104
11 Terminal inductance	mH	0.035	0.045	0.108	0.199	0.292	0.465	0.677	0.841	1.12	1.67	2.26	2.63	3.81	5.87	8.48
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	27.9	31.4	37.4	29.8	30.6	30.4	31.1	31.3	34.8	32.7	32.6	32.7	33.8	34.2	35.1
15 Mechanical time constant	ms	4.21	4.24	4.28	4.23	4.24	4.24	4.26	4.26	4.3	4.3	4.3	4.29	4.32	4.34	4.35
16 Rotor inertia	gcm ²	14.4	12.9	11	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	15.9 s	
20 Thermal time constant motor	927 s	
21 Ambient temperature	-30...+85°C	
22 Max. winding temperature	+125°C	

Mechanical data (ball bearings)		
23 Max. speed	10400 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 load, 5 mm from flange	20 N	

Mechanical data (sleeve bearings)		
23 Max. speed	10400 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	12.3 N	

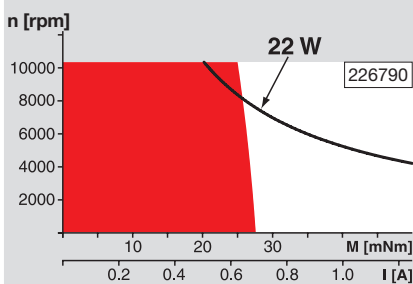
Other specifications		
29 Number of pole pairs	1	
30 Number of commutator segments	13	
31 Weight of motor	150 g	

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

Option

- Sleeve bearings in place of ball bearings
- Pigtails in place of terminals

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

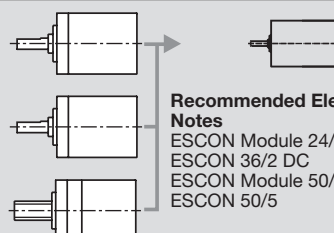
Ø32 mm
0.75 - 4.5 Nm
Page 339

Planetary Gearhead

Ø32 mm
1.0 - 6.0 Nm
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Spindle Drive

Ø32 mm
Page 370-372



Recommended Electronics:

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ESCON 36/2 DC	416
ESCON Module 50/5	417
ESCON 50/5	418