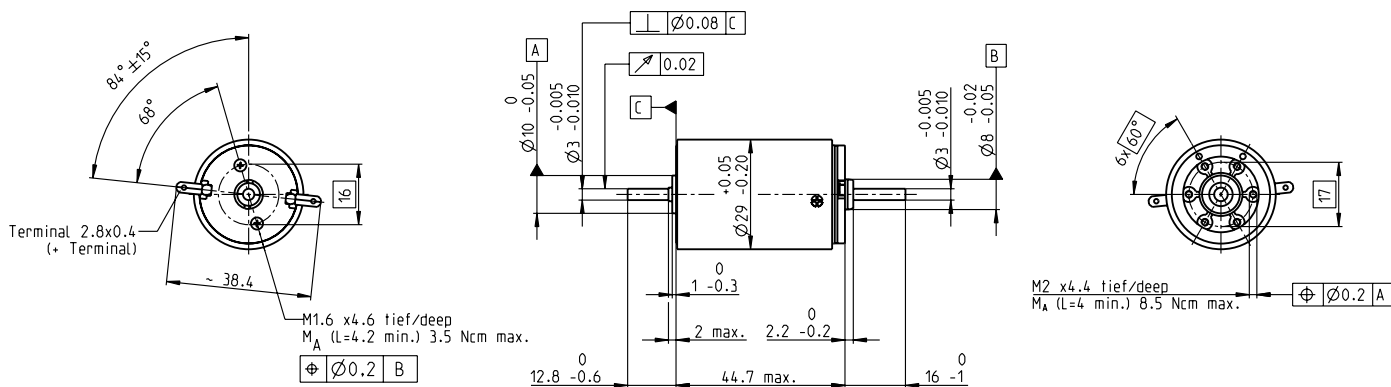


RE-max 29 Ø29 mm, Graphite Brushes, 22 Watt



M 1:2

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

Part Numbers

Motor Data	226801	226802	226805	226806	226807	226808	226809	226810	226811	226815	226816	226817	226818	226819	226820	
Values at nominal voltage																
1 Nominal voltage	V	9	12	18	24	30	36	42	48	48	48	48	48	48	48	
2 No load speed	rpm	7890	9350	9010	8860	9140	8700	8410	8630	7470	6110	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	10.5	8.7	7.93	6.33	4.9	3.96
4 Nominal speed	rpm	7580	8960	8270	8050	8200	7760	7450	7670	6450	5100	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	30.8	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	0.423	0.366	0.34	0.28	0.225	0.186
7 Stall torque	mNm	284	299	242	299	300	287	271	277	215	188	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	2.51	1.86	1.6	1.06	0.684	0.461
9 Max. efficiency	%	89	89	88	90	90	89	89	89	88	88	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	0.034	0.044	0.106	0.195	0.285	0.453	0.66	0.82	1.09	1.63	2.21	2.57	3.72	5.73	8.27
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	4.29	4.23	4.24	4.25	4.26	4.26	4.3	4.3	4.3	4.3	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

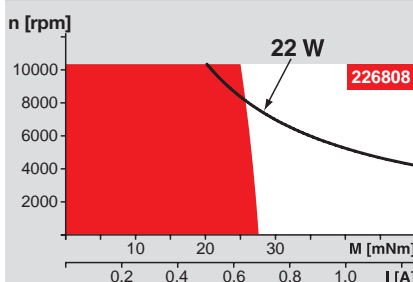
- Thermal data**
- 17 Thermal resistance housing-ambient 15.8 K/W
 - 18 Thermal resistance winding-housing 4.0 K/W
 - 19 Thermal time constant winding 15.9 s
 - 20 Thermal time constant motor 927 s
 - 21 Ambient temperature -30...+85°C
 - 22 Max. winding temperature +125°C
- Mechanical data (ball bearings)**
- 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) (static, shaft supported) 75 N
 - 28 Max. radial load, 5 mm from flange 1200 N
- Mechanical data (sleeve 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) 1.7 N
 - 27 Max. force for press fits (static) (static, shaft supported) 80 N
 - 28 Max. radial load, 5 mm from flange 1200 N
- Other specifications**
- 29 Number of pole pairs 1
 - 30 Number of commutator segments 13
 - 31 Weight of motor 160 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

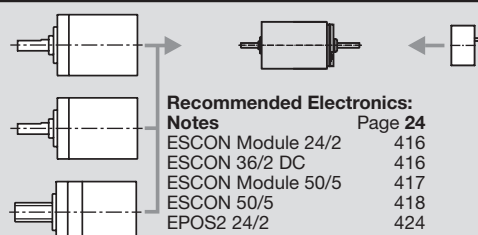


Comments

- 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

- 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



Overview on page 20-27

Encoder MR
128 - 1000 CPT,
3 channels
Page 392

Recommended Electronics:

Notes	Page 24
ESCON Module 24/2	416
ESCON 36/2 DC	416
ESCON Module 50/5	417
ESCON 50/5	418
EPOS2 24/2	424
EPOS2 Module 36/2	424
EPOS2 50/5	425
MAXPOS 50/5	435