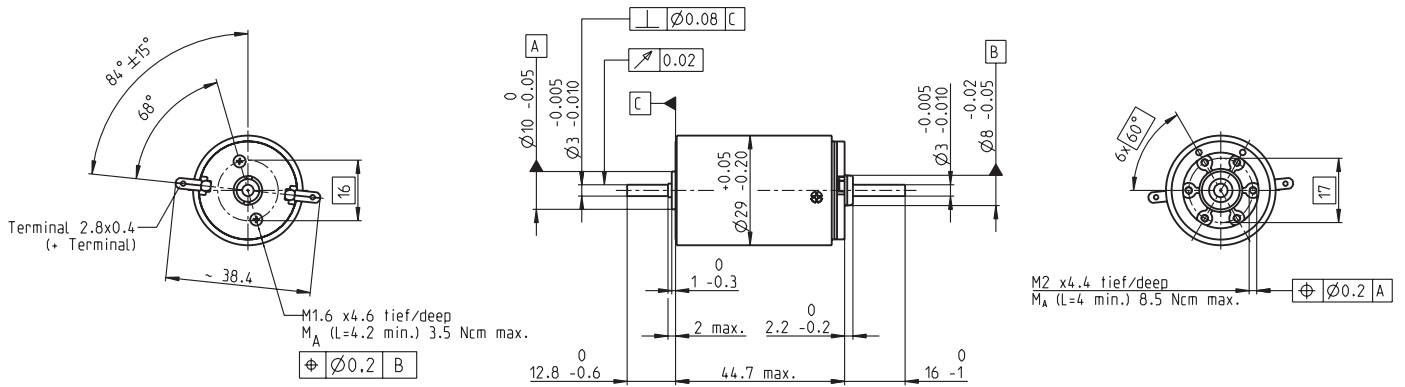


RE-max 29 Ø29 mm, Graphite Brushes, 22 Watt



M 1:2

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

Order Number

226801	226802	226805	226806	226807	226808	226809	226810	226811	226815	226816	226817	226818	226819	226820
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

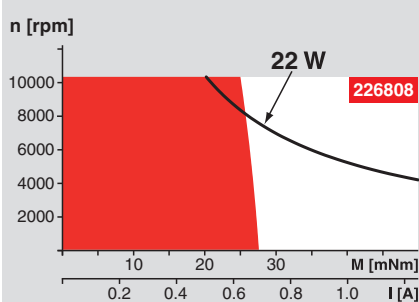
Motor Data

Values at nominal voltage		226801	226802	226805	226806	226807	226808	226809	226810	226811	226815	226816	226817	226818	226819	226820	
1	Nominal voltage	V	9.0	12.0	18.0	24.0	30.0	36.0	42.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	
2	No load speed	rpm	7640	9130	8900	8790	9090	8670	8380	8600	7450	6100	5240	4860	4030	3250	2700
3	No load current	mA	73.1	69.1	44.0	32.3	27.0	21.0	17.2	15.6	12.9	9.93	8.20	7.47	5.95	4.61	3.73
4	Nominal speed	rpm	6690	8170	7760	7680	8020	7630	7350	7580	6380	5050	4200	3810	2970	2180	1610
5	Nominal torque (max. continuous torque)	mNm	11.0	12.4	19.7	26.9	27.5	28.7	29.0	29.2	28.3	29.9	30.4	30.5	30.4	30.5	30.3
6	Nominal current (max. continuous current)	A	1.08	1.08	1.08	1.08	0.907	0.748	0.627	0.565	0.476	0.410	0.357	0.333	0.275	0.222	0.184
7	Stall torque	mNm	171	207	202	262	273	268	257	265	208	182	157	146	118	94.1	76.5
8	Starting current	A	15.8	16.9	10.6	10.2	8.73	6.80	5.41	4.99	3.40	2.43	1.81	1.56	1.04	0.672	0.455
9	Max. efficiency	%	79	82	85	87	88	88	88	88	87	87	87	86	85	84	83
Characteristics																	
10	Terminal resistance	Ω	0.571	0.708	1.69	2.36	3.44	5.29	7.76	9.61	14.1	19.7	26.5	30.8	46.1	71.4	106
11	Terminal inductance	mH	0.0345	0.0437	0.106	0.195	0.285	0.454	0.661	0.820	1.09	1.63	2.21	2.57	3.72	5.73	8.27
12	Torque constant	mNm / A	10.9	12.2	19.0	25.8	31.2	39.4	47.5	53.0	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	46.2	45.3	44.7	33.9	33.6	32.6	32.8	32.7	36.1	33.8	33.5	33.5	34.5	34.8	35.6
15	Mechanical time constant	ms	6.94	6.08	5.10	4.78	4.63	4.52	4.46	4.43	4.44	4.41	4.39	4.38	4.39	4.39	4.39
16	Rotor inertia	gcm ²	14.3	12.8	10.9	13.5	13.2	13.2	13.0	12.9	11.7	12.5	12.5	12.5	12.1	12.0	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 ... +85°C
 - 22 Max. permissible winding temperature +125°C
- Mechanical data (ball bearings)**
- 23 Max. permissible 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 / 440 N
 - 28 Max. radial loading, 5 mm from flange 20.5 N

Operating Range



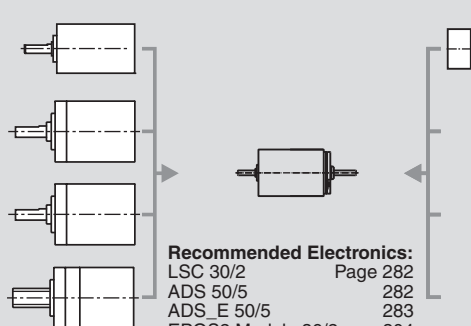
Comments

- 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 (sleeve bearings)**
- 23 Max. permissible 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 / 440 N
 - 28 Max. radial loading, 5 mm from flange 5.5 N
- Other specifications**
- 29 Number of pole pairs 1
 - 30 Number of commutator segments 13
 - 31 Weight of motor 161 g

maxon Modular System

- Planetary Gearhead**
Ø26 mm
0.5 - 2.0 Nm
Page 228
- Planetary Gearhead**
Ø32 mm
0.75 - 4.5 Nm
Page 231
- Planetary Gearhead**
Ø32 mm
1.0 - 6.0 Nm
Page 234
- Spindle Drive**
Ø32 mm
Page 249 / 250 / 251



- Recommended Electronics:**
- LSC 30/2 Page 282
 - ADS 50/5 282
 - ADS_E 50/5 283
 - EPOS2 Module 36/2 304
 - EPOS2 24/5 305
 - EPOS2 50/5 305
 - EPOS2P 24/5 308
 - Notes** 18

Overview on page 16 - 21

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

Values listed in the table are nominal.
Explanation of the figures on page 49.

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