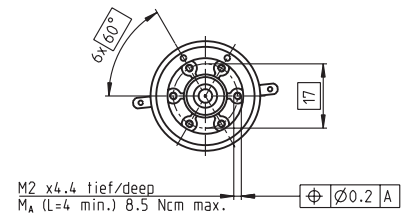
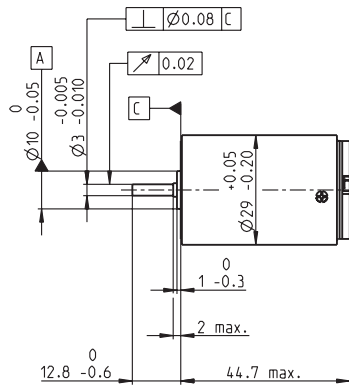
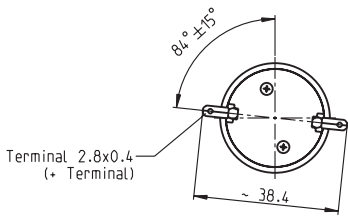


RE-max 29 Ø29 mm, Graphite Brushes, 22 Watt



M 1:2

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

Order Number

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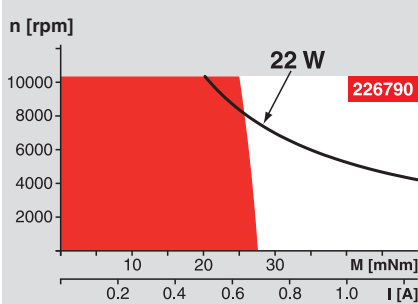
Motor Data

Values at nominal voltage		226784	226785	226787	226788	226789	226790	226791	226792	226793	226795	226796	226797	226798	226799	226800	
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	7630	9130	8890	8780	9090	8660	8380	8600	7450	6100	5240	4860	4030	3250	2700
3	No load current	mA	77.4	73.1	46.6	34.2	28.6	22.3	18.3	16.5	13.7	10.5	8.70	7.93	6.33	4.90	3.96
4	Nominal speed	rpm	6690	8170	7760	7690	8020	7630	7360	7590	6380	5060	4200	3810	2970	2180	1610
5	Nominal torque (max. continuous torque)	mNm	10.9	12.3	19.7	26.8	27.4	28.5	29.0	28.2	29.8	30.3	30.4	30.3	30.5	30.3	
6	Nominal current (max. continuous current)	A	1.08	1.08	1.08	1.07	0.903	0.745	0.625	0.563	0.475	0.409	0.357	0.332	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	84	87	87	88	88	88	87	87	86	86	85	83	82
Characteristics		226784	226785	226787	226788	226789	226790	226791	226792	226793	226795	226796	226797	226798	226799	226800	
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	0.0353	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	19.0	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	4.42	4.44	4.41	4.39	4.38	4.38	4.38	4.38
16	Rotor inertia	gcm ²	14.3	12.8	10.9	13.5	13.1	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 1260 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) 75 N
 - 28 Max. radial loading, 5 mm from flange 20.5 N
- Mechanical data (sleeve bearings)**
- 23 Max. permissible 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 loading, 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 159 g

Operating Range



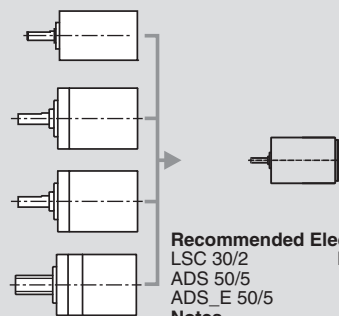
Comments

- 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 16 - 21

- 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 Page 282
 - ADS_E 50/5 Page 283
 - Notes 18