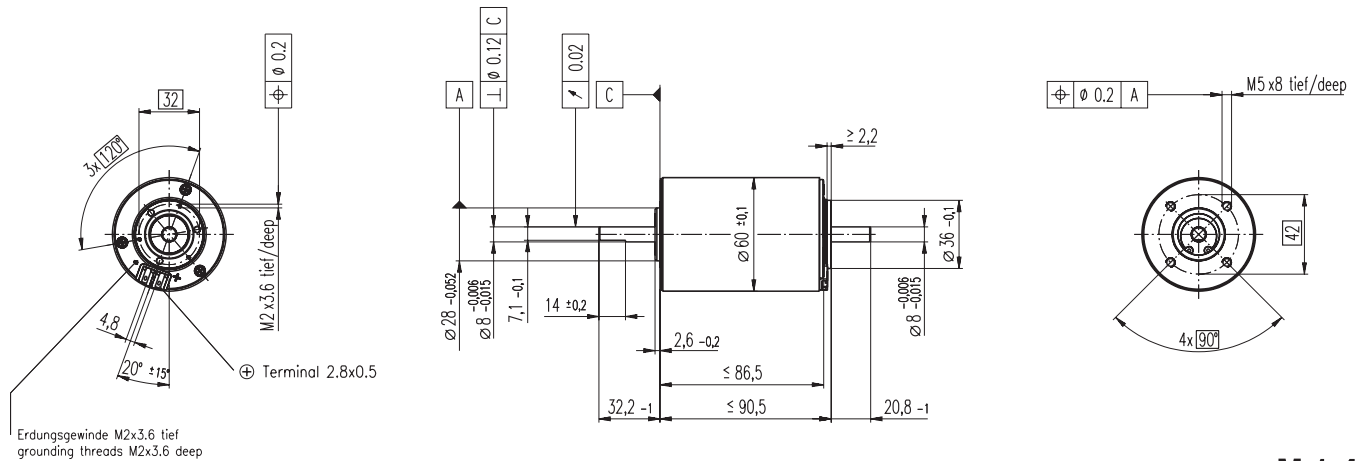


F 2260 Ø60 mm, Graphite Brushes, 40 Watt



M 1:4

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

Order Number

2260. ... -51.216-200 (Insert winding number)

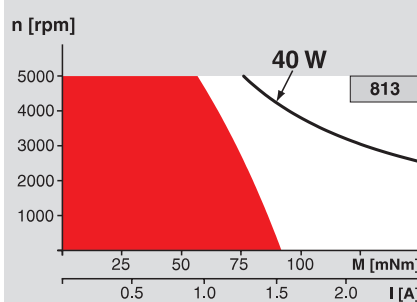
Motor Data	Winding number	Order Number													
		811	812	813	814	815	816	817	818	810	819	820			
Values at nominal voltage															
1	Nominal voltage	V	18.0	21.0	24.0	30.0	36.0	42.0	45.0	48.0	48.0	48.0	48.0		
2	No load speed	rpm	4440	4000	3620	4230	4550	4210	3680	3160	2560	2060	1600		
3	No load current	mA	533	403	314	297	267	210	168	133	107	85	65.8		
4	Nominal speed	rpm	4040	3580	3180	3820	4150	3800	3230	2670	2040	1510	1030		
5	Nominal torque (max. continuous torque)	mNm	65.6	77.8	85.9	78.5	74.6	81.4	88.8	95.3	102	106	109		
6	Nominal current (max. continuous current)	A	2.33	2.03	1.74	1.5	1.29	1.09	0.955	0.815	0.701	0.585	0.47		
7	Stall torque	mNm	883	847	775	890	939	882	762	651	529	419	321		
8	Starting current	A	24.2	17.8	12.9	13.7	12.9	9.59	6.77	4.67	3.09	1.99	1.2		
9	Max. efficiency	%	68.7	69.1	68.7	70.8	71.7	71.4	69.9	68.1	65.5	62.1	57.9		
Characteristics															
10	Terminal resistance	Ω	0.743	1.18	1.87	2.19	2.79	4.38	6.64	10.3	15.5	24.2	40		
11	Terminal inductance	mH	0.917	1.56	2.5	2.91	3.67	5.83	8.74	13.4	20.2	30.7	49.5		
12	Torque constant	mNm / A	36.5	47.5	60.2	65	72.9	91.9	113	139	171	211	268		
13	Speed constant	rpm / V	262	201	159	147	131	104	84.9	68.5	55.8	45.3	35.7		
14	Speed / torque gradient	rpm / mNm	5.34	4.98	4.91	4.96	5.02	4.95	5.01	5.05	5.07	5.19	5.33		
15	Mechanical time constant	ms	37.2	36.1	35.5	35.2	34.9	34.7	34.6	34.6	34.6	34.6	34.8		
16	Rotor inertia	gcm ²	665	691	691	678	665	669	659	654	652	636	623		

Specifications

- Thermal data**
- 17 Thermal resistance housing-ambient 5.0 K / W
 - 18 Thermal resistance winding-housing 2.4 K / W
 - 19 Thermal time constant winding 79 s
 - 20 Thermal time constant motor 1980 s
 - 21 Ambient temperature -20 ... +100°C
 - 22 Max. permissible winding temperature +125°C
- Mechanical data (preloaded ball bearings)**
- 23 Max. permissible speed 5000 rpm
 - 24 Axial play at axial load < 15 N 0 mm
 - 24 Axial play at axial load > 15 N 0.01 - 0.15 mm preloaded
 - 25 Radial play 15 N
 - 26 Max. axial load (dynamic) 15 N
 - 27 Max. force for press fits (static) 400 N
 - 27 Max. force for press fits (static) 10000 N
 - 28 Max. radial loading, 5 mm from flange 100 N
- Other specifications**
- 29 Number of pole pairs 2
 - 30 Number of commutator segments 26
 - 31 Weight of motor 790 g

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

Operating Range



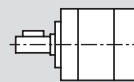
Comments

- 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**

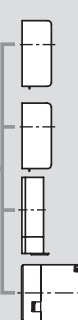
maxon Modular System

Overview on page 16 - 21

Planetary Gearhead
Ø62 mm
8 - 50 Nm
Page 249



Recommended Electronics:
ADS 50/5 Page 276
ADS_E 50/5 277
EPOS 24/5 294
EPOS2 50/5 295
EPOS P 24/5 297
Notes 18



Encoder HEDS 5540
500 CPT,
3 channels
Page 263

Encoder HEDL 5540
500 CPT,
3 channels
Page 265

Encoder HEDS 6540
1000 CPT,
3 channels
Page 268

Brake AB 28
Ø40 mm
24 VDC, 0.4 Nm
Page 308