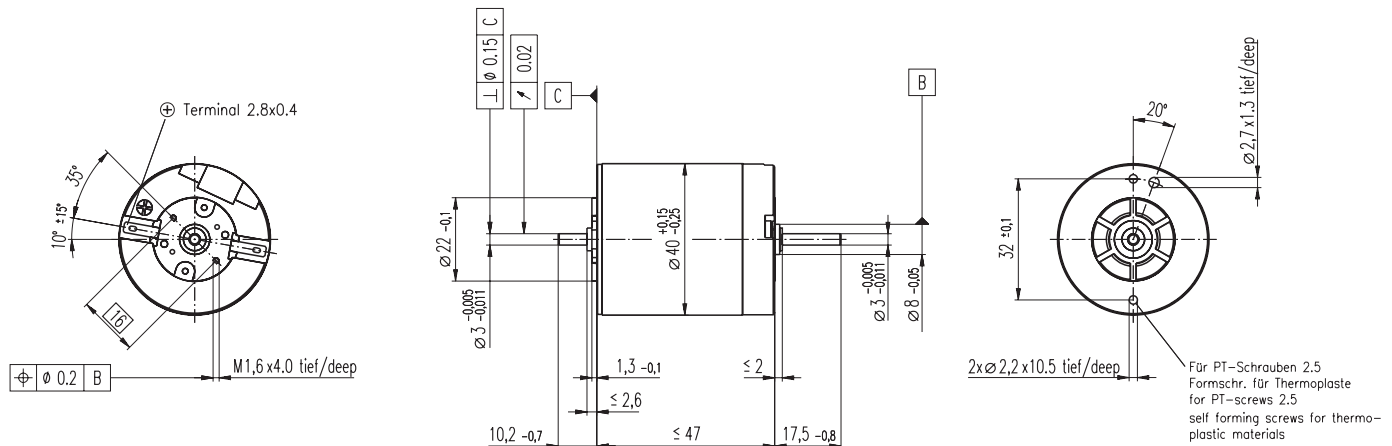


F 2140 Ø40 mm, Graphite Brushes, 6 Watt, CE approved



M 1:2

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

Order Number

2140. ... -58.236-050 (Insert winding number)

Motor Data	Winding number	Order Number								
		931	932	933	934	935	936	937	939	
Values at nominal voltage										
1 Nominal voltage	V	6.0	9.0	9.0	12.0	15.0	18.0	24.0	36.0	
2 No load speed	rpm	3540	4310	3490	3880	3900	3710	3980	4030	
3 No load current	mA	55.5	46.6	34.9	29.7	23.7	18.4	15.1	10.2	
4 Nominal speed	rpm	1900	2730	1880	2270	2300	2080	2360	2380	
5 Nominal torque (max. continuous torque)	mNm	11.0	11.6	12.0	12.2	12.4	12.5	12.5	12.4	
6 Nominal current (max. continuous current)	A	0.814	0.671	0.559	0.465	0.377	0.298	0.240	0.160	
7 Stall torque	mNm	26.3	34.4	27.9	31.2	31.6	29.5	31.9	31.1	
8 Starting current	A	1.83	1.87	1.23	1.13	0.909	0.669	0.578	0.378	
9 Max. efficiency	%	61	66	65	67	68	68	69	70	
Characteristics										
10 Terminal resistance	Ω	3.28	4.81	7.35	10.7	16.5	26.9	41.5	95.2	
11 Terminal inductance	mH	0.341	0.558	0.853	1.27	1.99	3.21	5.02	11.2	
12 Torque constant	mNm / A	14.4	18.4	22.7	27.8	34.8	44.1	55.2	82.3	
13 Speed constant	rpm / V	664	519	420	344	275	216	173	116	
14 Speed / torque gradient	rpm / mNm	152	136	136	132	130	132	130	134	
15 Mechanical time constant	ms	37.9	34.9	34.4	33.3	32.6	32.2	31.7	31.5	
16 Rotor inertia	gcm ²	23.9	24.5	24.2	24.0	23.9	23.3	23.2	22.4	

Specifications

- Thermal data**
- 17 Thermal resistance housing-ambient 10.4 K / W
 - 18 Thermal resistance winding-housing 8.8 K / W
 - 19 Thermal time constant winding 45.5 s
 - 20 Thermal time constant motor 988 s
 - 21 Ambient temperature -20 ... +65°C
 - 22 Max. permissible winding temperature +85°C
- Mechanical data (ball bearings)**
- 23 Max. permissible speed 11000 rpm
 - 24 Axial play 0.2 - 0.3 mm
 - 25 Radial play 0.025 mm
 - 26 Max. axial load (dynamic) 1.5 N
 - 27 Max. force for press fits (static) 50 N
 - 28 Max. radial loading, 5 mm from flange 700 N

Other specifications

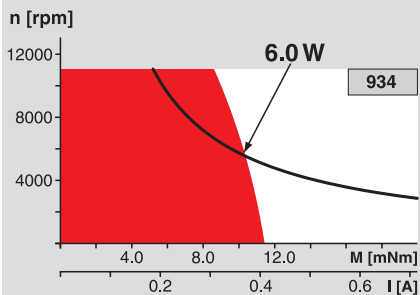
- 29 Number of pole pairs 1
- 30 Number of commutator segments 7
- 31 Weight of motor 190 g

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

Option

Preloaded ball bearings

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.

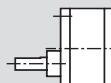
Short term operation
The motor may be briefly overloaded (recurring).

— Assigned power rating

maxon Modular System

Overview on page 16 - 21

Spur Gearhead
Ø38 mm
0.1 - 0.6 Nm
Page 243



Encoder Enc
22 mm
100 CPT, 2 channels
Page 261

