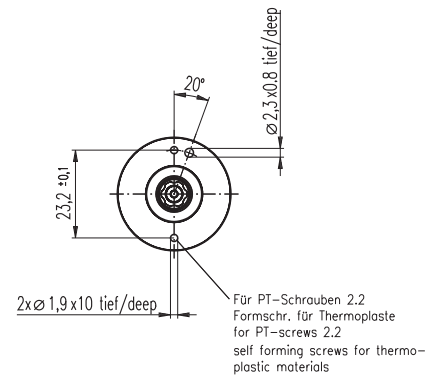
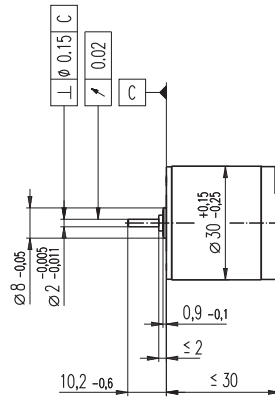
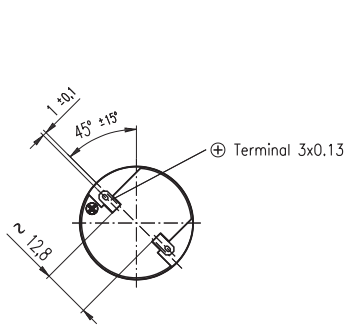




M 1:2

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

Part Numbers

2130. ... -22.112-050 (Insert winding number)

Winding number 917 900 903 904 905 906 907 908 910

Motor Data

Values at nominal voltage			2	3	6	6	9	12	12	15	24
1 Nominal voltage	V		2	3	6	6	9	12	12	15	24
2 No load speed	rpm		5250	5750	6020	4790	5980	6480	5290	5310	5380
3 No load current	mA		43.7	33.7	18.2	12.6	12.0	10.3	7.37	5.94	3.79
4 Nominal speed	rpm		1780	2470	2660	1410	2570	3050	1820	1810	1850
5 Nominal torque (max. continuous torque)	mNm		3.41	3.59	3.49	3.52	3.44	3.39	3.41	3.38	3.34
6 Nominal current (max. continuous current)	A		0.992	0.761	0.388	0.311	0.253	0.204	0.166	0.133	0.0831
7 Stall torque	mNm		5.23	6.35	6.32	5.05	6.09	6.48	5.25	5.19	5.15
8 Starting current	A		1.48	1.31	0.682	0.435	0.436	0.376	0.25	0.198	0.125
9 Max. efficiency	%		70	71	71	70	71	71	70	69	69
Characteristics											
10 Terminal resistance	Ω		1.35	2.29	8.79	13.8	20.6	31.9	48.1	75.7	193
11 Terminal inductance	mH		0.0720	0.136	0.496	0.780	1.13	1.71	2.56	3.96	9.87
12 Torque constant	mNm/A		3.53	4.85	9.27	11.6	14.0	17.2	21.0	26.2	41.3
13 Speed constant	rpm/V		2700	1970	1030	822	683	555	454	365	231
14 Speed/torque gradient	rpm/mNm		1040	930	978	976	1010	1030	1040	1050	1080
15 Mechanical time constant	ms		43.9	42.9	42.9	42.7	43.0	43.2	43.3	43.5	43.6
16 Rotor inertia	gcm ²		4.05	4.40	4.19	4.18	4.07	4.02	3.99	3.94	3.87

Specifications

Thermal data		
17 Thermal resistance housing-ambient	23.1 K/W	
18 Thermal resistance winding-housing	13.3 K/W	
19 Thermal time constant winding	22.1 s	
20 Thermal time constant motor	705 s	
21 Ambient temperature	-20...+65°C	
22 Max. permissible winding temperature	+85°C	
Mechanical data (sleeve bearings)		
23 Max. permissible speed	9500 rpm	
24 Axial play	0.15 - 0.25 mm	
25 Radial play	0.014 mm	
26 Max. axial load (dynamic)	0.4 N	
27 Max. force for press fits (static)	50 N	
28 Max. radial loading, 5 mm from flange	2.0 N	

Other specifications

29 Number of pole pairs	1
30 Number of commutator segments	7
31 Weight of motor	61 g

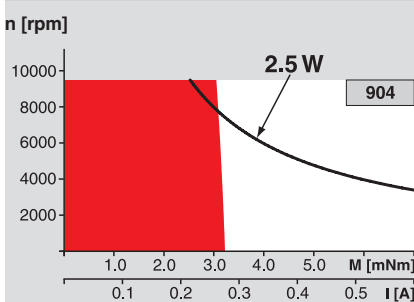
CLL = Capacitor Long Life

Values listed in the table are nominal.
Explanation of the figures on page 71.

Option

Ball bearings in place of sleeve 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).

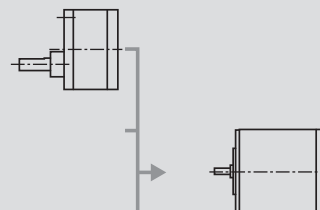
— **Assigned power rating**

maxon Modular System

Overview on page 20 - 25

Spur Gearhead

Ø30 mm
0.07 - 0.2 Nm
Page 258



Recommended Electronics:
ESCON 36/2 DC Page 320
ESCON 50/5 321
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