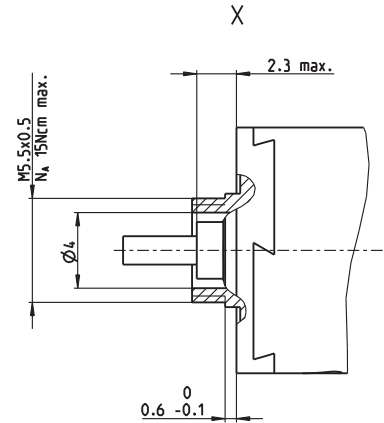
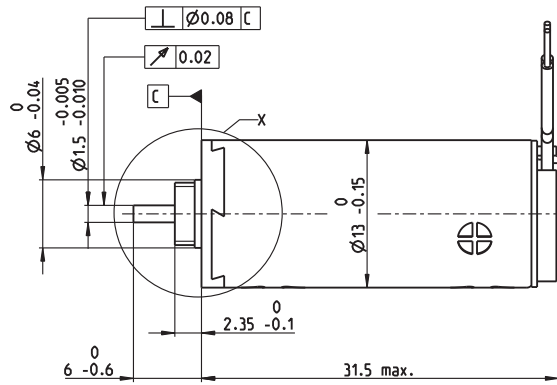
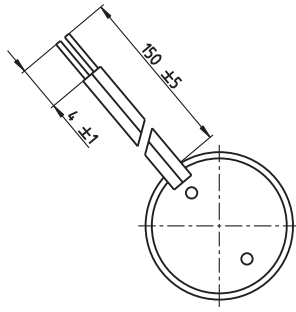


RE-max 13 Ø13 mm, Precious Metal Brushes CLL, 2.5 Watt

Kabel AWG 28/7
cable UL Style 1061

⊕ Kabel rot
cable red



M 3:2

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

Part Numbers

201353 | 203937 | 203938 | 203939 | 203940 | 203941 | 203942 | 203943 | 203944 | 203945 | 203946 | 203947 | 203948 | 203949 | 203950

Motor Data

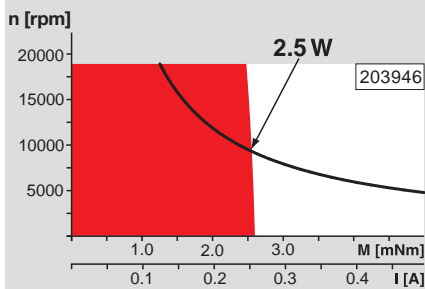
Values at nominal voltage		2.4	3	3	3.6	4.8	4.8	6	7.2	8	10	12	15	15	18	24
1 Nominal voltage	V	2.4	3	3	3.6	4.8	4.8	6	7.2	8	10	12	15	15	18	24
2 No load speed	rpm	10600	12300	10800	10900	11500	10200	11500	11500	10900	11500	11100	11200	10400	10600	11600
3 No load current	mA	30.6	31.5	25.1	21.3	17.5	14.3	14	11.7	9.67	8.4	6.62	5.35	4.72	4.11	3.55
4 Nominal speed	rpm	9550	11000	9180	8940	9050	7440	8320	7990	7580	8060	7670	7750	6910	7210	8080
5 Nominal torque (max. continuous torque)	mNm	0.969	1.04	1.21	1.45	1.84	2.09	2.32	2.67	2.78	2.72	2.71	2.72	2.7	2.72	2.66
6 Nominal current (max. continuous current)	A	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.458	0.408	0.336	0.27	0.218	0.201	0.173	0.138
7 Stall torque	mNm	8.91	9.4	7.84	7.9	8.56	7.61	8.35	8.72	9	9.08	8.73	8.86	8.1	8.42	8.85
8 Stall current	A	4.15	4.06	2.97	2.52	2.16	1.71	1.69	1.47	1.3	1.1	0.852	0.697	0.591	0.526	0.45
9 Max. efficiency	%	84	84	83	83	83	83	83	83	84	84	84	84	83	84	84
Characteristics																
10 Terminal resistance	Ω	0.578	0.738	1.01	1.43	2.22	2.81	3.56	4.91	6.16	9.09	14.1	21.5	25.4	34.3	53.3
11 Terminal inductance	mH	0.016	0.018	0.024	0.033	0.053	0.068	0.083	0.12	0.163	0.232	0.356	0.549	0.638	0.872	1.31
12 Torque constant	mNm/A	2.15	2.31	2.64	3.14	3.96	4.46	4.95	5.94	6.94	8.26	10.2	12.7	13.7	16	19.6
13 Speed constant	rpm/V	4450	4130	3610	3040	2410	2140	1930	1610	1380	1160	933	751	697	596	486
14 Speed / torque gradient	rpm/mNm	1200	1320	1380	1390	1350	1350	1380	1330	1220	1270	1280	1270	1290	1270	1320
15 Mechanical time constant	ms	8.55	8.23	7.94	7.71	7.5	7.44	7.42	7.33	7.25	7.26	7.26	7.24	7.25	7.25	7.3
16 Rotor inertia	gcm ²	0.681	0.596	0.548	0.53	0.53	0.526	0.512	0.528	0.565	0.545	0.541	0.544	0.536	0.543	0.529

Specifications

Thermal data		
17 Thermal resistance housing-ambient		37 K/W
18 Thermal resistance winding-housing		10 K/W
19 Thermal time constant winding		6.97 s
20 Thermal time constant motor		277 s
21 Ambient temperature		-20...+65°C
22 Max. winding temperature		+85°C
Mechanical data (sleeve bearings)		
23 Max. speed		19000 rpm
24 Axial play		0.05 - 0.15 mm
25 Radial play		0.014 mm
26 Max. axial load (dynamic)		0.8 N
27 Max. force for press fits (static)		35 N
28 Max. radial load, 5 mm from flange		1.4 N

Other specifications		
29 Number of pole pairs		1
30 Number of commutator segments		7
31 Weight of motor		24 g
CLL = Capacitor Long Life Alignment of the electronic connections not specified		
Values listed in the table are nominal. Explanation of the figures on page 151.		

Operating Range



Comments

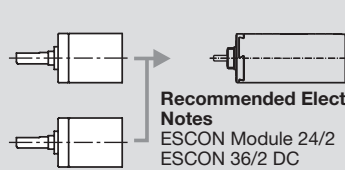
- Continuous operation**
In observation of above listed thermal resistance (lines 17 and 18) the maximum permissible winding temperature will be reached during continuous operation at 25°C ambient.
= Thermal limit.
- Short term operation**
The motor may be briefly overloaded (recurring).
- Assigned power rating**

maxon Modular System

Overview on page 20-27

Planetary Gearhead
Ø13 mm
0.05 - 0.15 Nm
Page 316

Planetary Gearhead
Ø13 mm
0.2 - 0.35 Nm
Page 317



Recommended Electronics:
Notes Page 24
ESCON Module 24/2 416
ESCON 36/2 DC 416