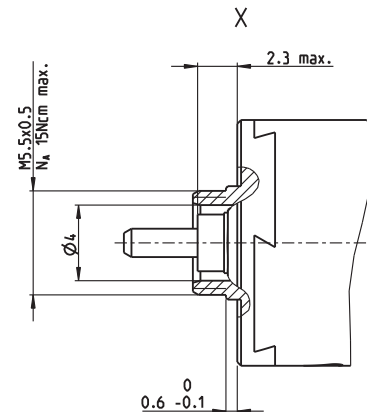
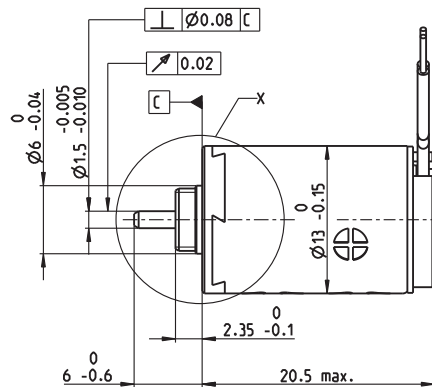
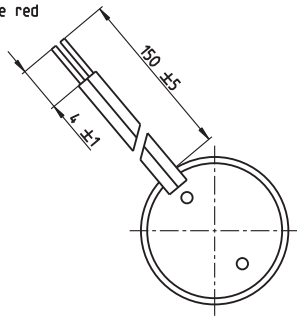


RE-max 13 Ø13 mm, Precious Metal Brushes CLL, 1.2 Watt

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

201352 | 203881 | 203882 | 203883 | 203884 | 203885 | 203886 | 203887 | 203888 | 203889 | 203890 | 203891 | 203892 | 203893 | 203894

Motor Data

Values at nominal voltage			1	1.2	1.5	1.8	2.4	3	3.6	4.2	5	6	8	9	10	12	15
1	Nominal voltage	V	1	1.2	1.5	1.8	2.4	3	3.6	4.2	5	6	8	9	10	12	15
2	No load speed	rpm	11700	11400	11200	11100	11400	11700	12200	11600	11400	11100	11800	10700	11200	11300	10800
3	No load current	mA	68	55	42.8	35.1	27.5	22.7	20.3	16.1	13.2	10.4	8.69	6.65	6.36	5.43	4.02
4	Nominal speed	rpm	10200	9350	8720	7950	7350	6920	7070	6300	6020	5670	6440	5250	5630	5860	5240
5	Nominal torque (max. continuous torque)	mNm	0.334	0.422	0.552	0.682	0.898	1.11	1.28	1.31	1.29	1.3	1.28	1.27	1.26	1.27	1.26
6	Nominal current (max. continuous current)	A	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.4	0.325	0.263	0.209	0.167	0.155	0.132	0.0997
7	Stall torque	mNm	2.36	2.14	2.33	2.32	2.47	2.7	3.02	2.87	2.74	2.68	2.83	2.51	2.56	2.64	2.47
8	Stall current	A	2.94	2.18	1.87	1.53	1.26	1.12	1.09	0.846	0.668	0.527	0.447	0.321	0.306	0.267	0.19
9	Max. efficiency	%	73	72	73	73	73	74	75	75	75	75	75	74	74	74	74
Characteristics																	
10	Terminal resistance	Ω	0.34	0.55	0.802	1.17	1.91	2.67	3.29	4.96	7.48	11.4	17.9	28.1	32.7	44.9	78.9
11	Terminal inductance	mH	0.0056	0.0083	0.0135	0.0199	0.0333	0.0501	0.0661	0.0993	0.145	0.223	0.346	0.532	0.607	0.847	1.47
12	Torque constant	mNm/A	0.802	0.98	1.25	1.51	1.96	2.41	2.76	3.39	4.1	5.08	6.33	7.84	8.38	9.89	13
13	Speed constant	rpm/V	11900	9740	7650	6300	4870	3970	3460	2820	2330	1880	1510	1220	1140	965	734
14	Speed / torque gradient	rpm/mNm	5050	5470	4920	4880	4740	4400	4110	4130	4250	4210	4270	4360	4450	4380	4450
15	Mechanical time constant	ms	19	16.7	15.4	14.8	14.3	14	13.7	13.6	13.6	13.6	13.6	13.7	13.7	13.6	13.7
16	Rotor inertia	gcm ²	0.358	0.291	0.299	0.29	0.288	0.303	0.318	0.315	0.306	0.308	0.304	0.3	0.293	0.297	0.294

Specifications

Thermal data		
17	Thermal resistance housing-ambient	47.5 K/W
18	Thermal resistance winding-housing	14 K/W
19	Thermal time constant winding	5.11 s
20	Thermal time constant motor	186 s
21	Ambient temperature	-20...+65°C
22	Max. winding temperature	+85°C

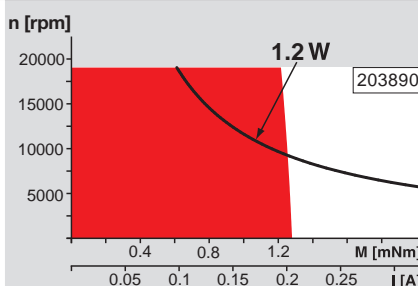
Mechanical data (sleeve bearings)		
23	Max. speed	19000 rpm
24	Axial play	0.05 - 0.15 mm
25	Radial play	0.014 mm
26	Max. axial load (dynamic)	0.8 N
27	Max. force for press fits (static)	35 N
28	Max. radial load, 5 mm from flange	1.4 N

Other specifications		
29	Number of pole pairs	1
30	Number of commutator segments	7
31	Weight of motor	15 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

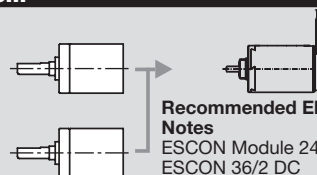
Overview on page 20–27

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