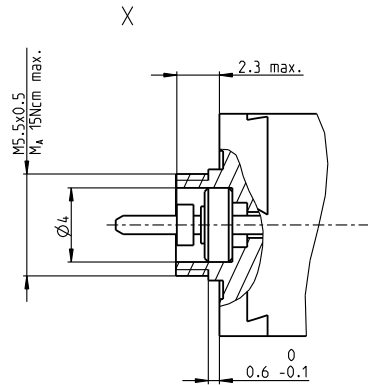
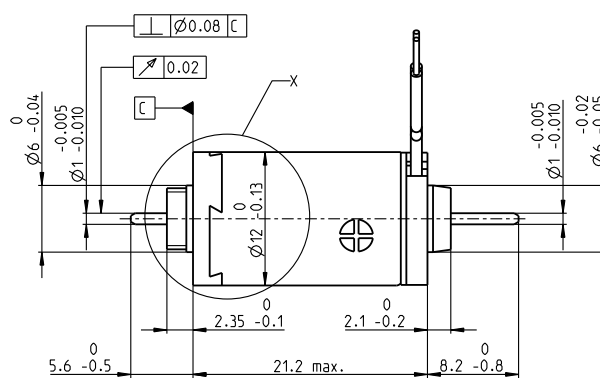
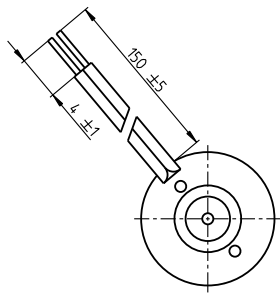


A-max 12 Ø12 mm, precious metal brushes CLL, 0.5 watt

Kabel AWG 28/7
cable UL Style 1061

⊕ Kabel rot
cable red

A-max



M 3:2

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

Part numbers

200938 265389 265390 265391 **265392** 265393

Motor data		200938	265389	265390	265391	265392	265393
Values at nominal voltage							
1 Nominal voltage	V	3	4.5	6	9	12	15
2 No load speed	rpm	13700	11700	12600	11900	12100	13500
3 No load current	mA	34.5	18.8	15.5	9.63	7.38	6.88
4 Nominal speed	rpm	6000	4390	5280	4480	4620	5050
5 Nominal torque	mNm	0.872	0.937	0.923	0.918	0.908	0.78
6 Nominal current (max. continuous current)	A	0.464	0.282	0.225	0.141	0.106	0.0835
7 Stall torque	mNm	1.58	1.55	1.63	1.52	1.52	1.29
8 Stall current	A	0.789	0.438	0.374	0.22	0.168	0.129
9 Max. efficiency	%	63	63	64	63	63	60
Characteristics							
10 Terminal resistance	Ω	3.8	10.3	16	40.9	71.6	116
11 Terminal inductance	mH	0.0851	0.263	0.402	1.01	1.74	2.13
12 Torque constant	mNm/A	2.01	3.53	4.36	6.92	9.06	10
13 Speed constant	rpm/V	4760	2710	2190	1380	1050	952
14 Speed/torque gradient	rpm/mNm	9030	7880	8060	8170	8330	11000
15 Mechanical time constant	ms	20.6	20.3	20.4	20.4	20.5	21.1
16 Rotor inertia	gcm ²	0.218	0.246	0.241	0.238	0.235	0.183

Specifications	Operating range	Comments
Thermal data 17 Thermal resistance housing-ambient 44.5 K/W 18 Thermal resistance winding-housing 15 K/W 19 Thermal time constant winding 5.03 s 20 Thermal time constant motor 267 s 21 Ambient temperature -30...+65°C 22 Max. winding temperature +85°C Mechanical data (sleeve bearings) 23 Max. speed 14 000 rpm 24 Axial play 0.05 - 0.15 mm 25 Radial play 0.012 mm 26 Max. axial load (dynamic) 0.15 N 27 Max. force for press fits (static) 15 N (static, shaft supported) 70 N 28 Max. radial load, 4 mm from flange 0.4 N	n [rpm] 	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

Other specifications	Modular system		Details on catalog page 48
29 Number of pole pairs 1	Gear 414_GP 10 A 415_GP 13 A 448_GS 12 A	Sensor 532_Encoder MR 16 CPT	Motor Control 550_ESCON Module 24/2 550_ESCON 36/2 DC 557_ESCON2 Nano 24/2 563_EPOS4 Micro 24/5 564_EPOS4 Module 24/1.5 565_EPOS4 Compact 24/5 3-axes 566_EPOS4 Compact 24/1.5
30 Number of commutator segments 7			
31 Weight of motor 12 g			

Values listed in the table are nominal.
Explanation of the figures on page 94.