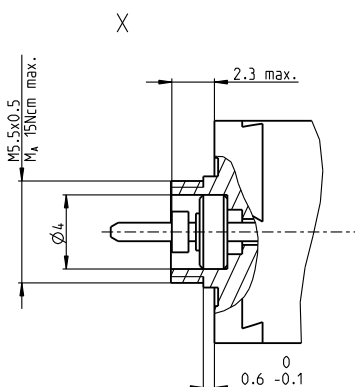
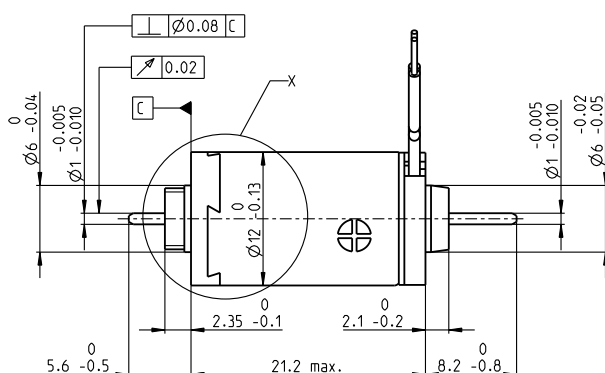
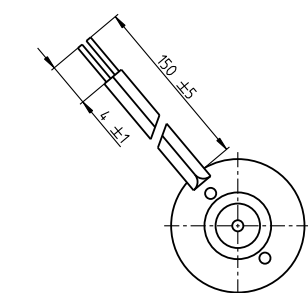


A-max

⊕ Kabel rot
cable red



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

200938	265389	265390	265391	265392	265393
--------	--------	--------	--------	--------	--------

Motor Data		200300	200305	200310	200315	200320	200330										
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 (max. continuous 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	0.085	0.264	0.403	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									

Comments

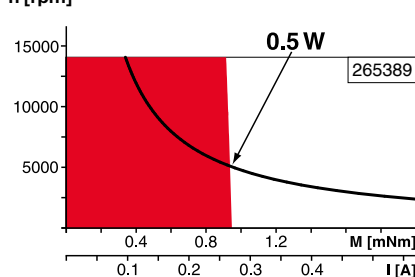
17 Thermal resistance housing-ambient	44.5 K/W
18 Thermal resistance winding-housing	15 K/W
19 Thermal time constant winding	5.03 s
20 Thermal time constant motor	267 s
21 Ambient temperature	-30...+65°C
22 Max. winding temperature	+85°C

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) (static, shaft supported)	15 N 70 N
28	Max. radial load, 4 mm from flange	0.4 N

29 Number of pole pairs
30 Number of commutator segments
31 Weight of motor
CLL = Capacitor Long Life
Alignment of the electronic
connections not specified.

Values listed in the table are nominal.
Explanation of the figures on page 82.

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

Details on catalog page 38

29 Number of pole pairs 30 Number of commutator segments 31 Weight of motor CLL = Capacitor Long Life Alignment of the electronic connections not specified.	$\frac{1}{7}$ 12 g	Planetary Gearhead $\varnothing 10$ mm 0.01 - 0.15 Nm Page 371 Spur Gearhead $\varnothing 12$ mm 0.01 - 0.03 Nm Page 372 Planetary Gearhead $\varnothing 13$ mm 0.05 - 0.15 Nm Page 373 Planetary Gearhead $\varnothing 13$ mm 0.2 - 0.35 Nm Page 374		Recommended Electronics: Notes Page 38 ESCON Module 24/2 500 ESCON 36/2 DC 500 EPOS4 Micro 24/5 509 EPOS4 Mod./Comp. 24/1.5 510 EPOS4 Comp. 24/5 3-axes 511	Encoder MR 16 CPT, 2 channels Page 472 Encoder MR 64 - 256 CPT, 2 channels Page 473
---	-----------------------	--	--	---	--