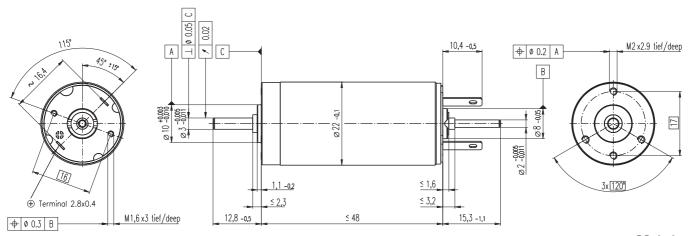
\$ 2322 Ø22 mm, Graphite Brushes, 6 Watt





M 1:1

Stock program Standard program Special program (on request)		Part	Numb	ers									
		232252.235-200 (Insert winding number)											
Wind	ding number	980	981	990	982	983	985	987			,		
Motor Data													
Values at nominal voltage													
1 Nominal voltage	V	12	15	18	18	24	36	48					
2 No load speed	rpm	7010	7000	7530	6690	7190	7240	6370					
3 No load current	mA	42.2	33.3	30.6	25.8	21.3	14.3	8.88					
4 Nominal speed	rpm	4300	4310	4840	3970	4490	4500	3580					
5 Nominal torque (max. continuous torque)	mNm	11.8	12.2	12.2	12.3	12.4	12.3	12.4					
6 Nominal current (max. continuous current)) A	0.807	0.654	0.583	0.520	0.420	0.279	0.184					
7 Stall torque	mNm	32.9	33.5	35.9	31.4	34.1	33.4	28.8					
8 Starting current	Α	2.14	1.72	1.64	1.28	1.11	0.724	0.411					
9 Max. efficiency	%	70	71	72	71	73	73	73					
Characteristics													
10 Terminal resistance	Ω	5.61	8.71	10.9	14.1	21.6	49.7	117					
11 Terminal inductance	mH	0.492	0.790	0.995	1.26	1.97	4.43	10.2					
12 Torque constant	mNm/A	15.4	19.4	21.8	24.6	30.7	46.1	69.9					
13 Speed constant	rpm/V	622	491	437	389	311	207	137					
14 Speed/torque gradient	rpm/mNm	227	220	219	223	219	224	228					
15 Mechanical time constant	ms	13.9	13.5	13.3	13.3	13.0	12.9	12.8					

gcm² 5.84 5.86 5.79 5.70 5.68 5.50 5.37

Specifications Thermal data n [rpm] Thermal resistance housing-ambient 14.1 K/W 18 Thermal resistance winding-housing19 Thermal time constant winding 3.6 K/W 10000 8.91 s 20 Thermal time constant motor 649 s 8000 21 Ambient temperature 22 Max. permissible winding temperature -20...+100°C +125°C 6000 Mechanical data (ball bearings) 23 Max. permissible speed 4000 9500 rpm 24 Axial play25 Radial play26 Max. axial load (dynamic) 0.05 - 0.15 mm 2000 0.025 mm 2.8 N Max. force for press fits (static) 64 N

Other specifications Number of pole pairs

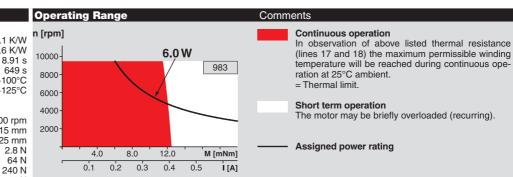
- 30 Number of commutator segments
- 31 Weight of motor

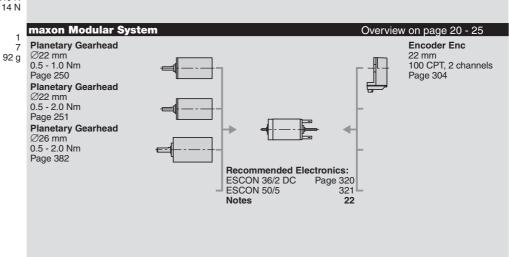
16 Rotor inertia

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

(static, shaft supported)
Max. radial loading, 5 mm from flange

Sleeve bearings in place of ball bearings





May 2013 edition / subject to change