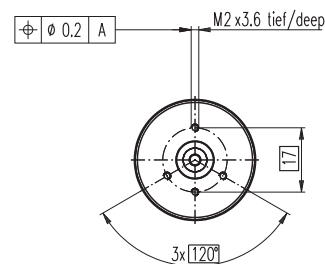
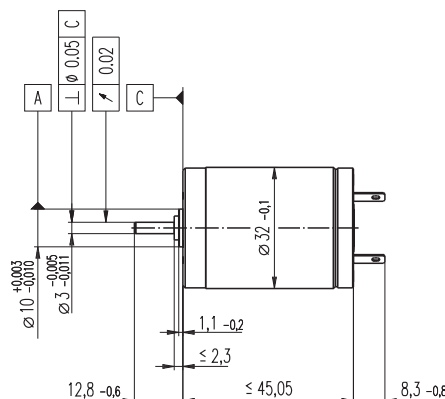
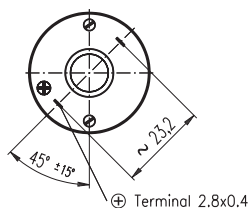


S 2332 Ø32 mm, Graphite Brushes, 11 Watt

NRND See page 13
Not recommended for New Design



M 1:2

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

Part Numbers

2332. ... -12.256-200 (Insert winding number)

Winding number

900 904 905 906 908 909 910 911 912 913

Motor Data

Values at nominal voltage

	V	4.5	9.0	9.0	12.0	18.0	24.0	30.0	36.0	48.0	48.0
1 Nominal voltage	V	4.5	9.0	9.0	12.0	18.0	24.0	30.0	36.0	48.0	48.0
2 No load speed	rpm	7730	8510	7370	7930	7980	8830	8770	8400	8930	7390
3 No load current	mA	160	82.8	68.0	55.2	36.5	31.1	24.5	19.2	15.6	12.1
4 Nominal speed	rpm	6070	6410	5120	5740	5820	6690	6640	6230	6780	5190
5 Nominal torque (max. continuous torque)	mNm	6.32	13.3	15.4	16.1	16.9	17.0	17.3	17.3	17.4	17.4
6 Nominal current (max. continuous current)	A	1.50	1.50	1.48	1.23	0.847	0.703	0.565	0.448	0.359	0.298
7 Stall torque	mNm	52.3	66.4	58.8	66.2	67.4	74.5	74.7	69.4	74.5	59.9
8 Starting current	A	11.2	7.10	5.42	4.84	3.25	2.96	2.34	1.73	1.48	0.986
9 Max. efficiency	%	60	72	72	75	77	78	79	79	80	78

Characteristics

10 Terminal resistance	Ω	0.403	1.27	1.66	2.48	5.54	8.12	12.8	20.8	32.5	48.7
11 Terminal inductance	mH	0.0417	0.167	0.224	0.357	0.821	1.21	1.94	3.06	4.85	7.05
12 Torque constant	mNm/A	4.68	9.35	10.8	13.7	20.8	25.2	31.9	40.0	50.4	60.8
13 Speed constant	rpm/V	2040	1020	881	698	460	379	300	239	189	157
14 Speed/torque gradient	rpm/mNm	176	138	135	126	123	122	120	124	122	126
15 Mechanical time constant	ms	39.5	28.1	27.7	26.1	24.8	24.3	24.0	23.9	23.6	23.7
16 Rotor inertia	gcm ²	21.5	19.4	19.6	19.7	19.3	19.0	19.0	18.4	18.5	18.0

Specifications

Thermal data

17 Thermal resistance housing-ambient	13.5 K/W
18 Thermal resistance winding-housing	2.2 K/W
19 Thermal time constant winding	8.51 s
20 Thermal time constant motor	1170 s
21 Ambient temperature	-20...+100°C
22 Max. permissible winding temperature	+125°C

Mechanical data (ball bearings)

23 Max. permissible speed	9200 rpm
24 Axial play	0.05 - 0.15 mm
25 Radial play	0.025 mm
26 Max. axial load (dynamic)	3.2 N
27 Max. force for press fits (static)	64 N
28 Max. radial loading, 5 mm from flange	16 N

Other specifications

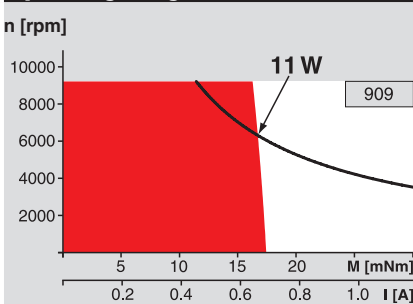
29 Number of pole pairs	1
30 Number of commutator segments	13
31 Weight of motor	174 g

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

Option

Sleeve bearings in place of ball bearings
Pigtails in place of terminals

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 - 25

Planetary Gearhead

Ø32 mm
0.75 - 4.5 Nm
Page 260

Spur Gearhead

Ø38 mm
0.1 - 0.6 Nm
Page 269

