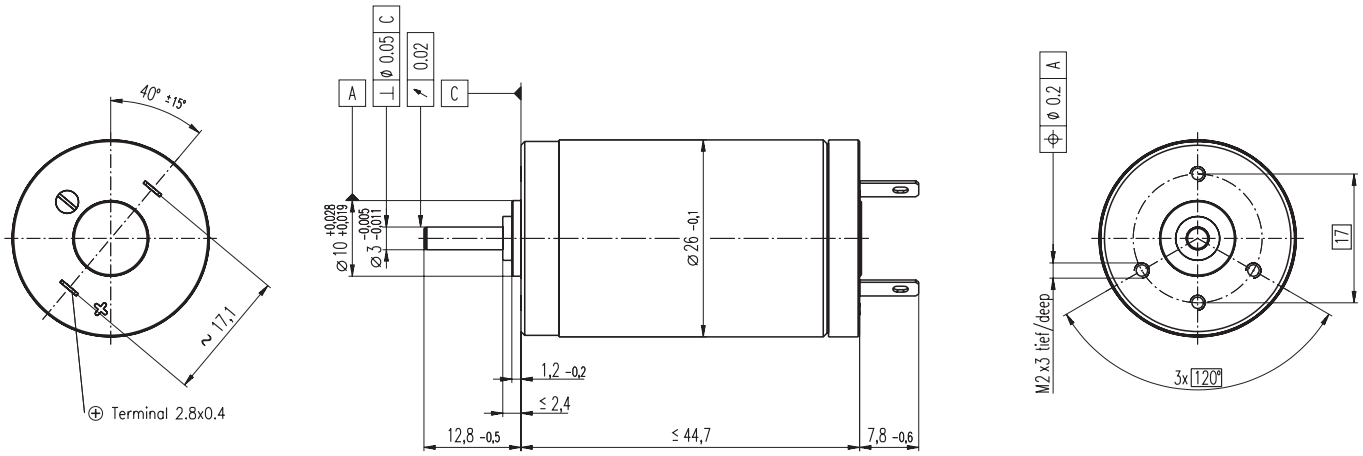
S 2326 ∅26 mm, Precious Metal Brushes, 4 Watt, CE approved



M 1:1

Stock program
Standard program
Special program (on request)

Order Number

2326. ... -12.111-050 (Insert winding number)

			Winding number	930	932	933	934	948	936	937	938	945	939	946	940	941	942	949
Motor Data																		
	Values at nominal voltage																	
1	Nominal voltage	Volt		3.0	3.6	4.5	6.0	6.0	7.2	9.0	12.0	12.0	15.0	18.0	18.0	24.0	30.0	42.0
2	No load speed	rpm		5380	5590	5920	6410	5390	4920	5120	5540	5390	5450	6030	5300	5940	6020	5680
3	No load current	mA		61.5	54.4	47.4	40.1	30.9	22.5	19.1	16.1	15.5	12.6	12.2	10.0	8.94	7.31	4.79
4	Nominal speed	rpm		4130	3910	4020	4060	2870	2460	2640	3030	2750	2910	3410	2740	3330	3390	2980
5	Nominal torque (max. continuous torque)	mNm		7.63	8.84	10.5	13	13.4	13.8	13.6	13.5	12.8	13.3	12.8	13.2	12.9	12.8	12.4
6	Nominal current (max. continuous current)	A		1.50	1.50	1.50	1.50	1.30	1.02	0.837	0.671	0.621	0.522	0.465	0.420	0.345	0.277	0.182
7	Stall torque	mNm		33.2	29.6	32.9	35.6	28.9	27.9	28.3	30.0	26.4	28.7	29.8	27.5	29.5	29.4	26.4
8	Starting current	A		6.29	4.87	4.57	4.02	2.75	2.02	1.71	1.46	1.25	1.11	1.06	0.858	0.773	0.626	0.378
9	Max. efficiency	%		82	80	81	81	80	80	80	81	79	80	80	80	80	80	79
	Characteristics																	
10	Terminal resistance	Ω		0.477	0.739	0.984	1.49	2.18	3.57	5.27	8.19	9.57	13.6	17.1	21.0	31.0	48.0	111
11	Terminal inductance	mH		0.0652	0.0866	0.121	0.183	0.258	0.447	0.644	0.980	1.03	1.58	1.86	2.41	3.41	5.17	11.4
12	Torque constant	mNm / A		5.28	6.08	7.19	8.85	10.5	13.8	16.6	20.5	21.0	26.0	28.2	32.1	38.2	47.0	69.7
13	Speed constant	rpm / V		1810	1570	1330	1080	909	691	576	467	455	367	339	298	250	203	137
14	Speed / torque gradient	rpm / mNm		163	191	182	182	189	179	183	187	207	192	205	195	204	207	218
15	Mechanical time constant	ms		19.0	18.6	18.2	18.0	17.9	17.7	17.7	17.7	17.9	17.8	17.9	17.8	17.9	18.0	18.1
16	Rotor inertia	gcm²		11.1	9.30	9.57	9.42	9.03	9.46	9.23	9.03	8.24	8.84	8.32	8.71	8.38	8.27	7.91

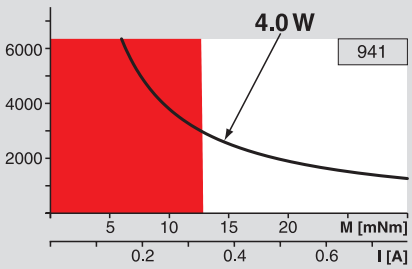
Specifications

	Thermal data	
17	Thermal resistance housing-ambient	17 K / W
18	Thermal resistance winding-housing	2.4 K / W
19	Thermal time constant winding	5.72 s
20	Thermal time constant motor	926 s
21	Ambient temperature	-20 ... +65°C
22	Max. permissible winding temperature	+85°C
	Mechanical data (sleeve bearing)	
23	Max permissible speed	6400 rpm
24	Axial play	0.05 - 0.15 mm
25	Radial play	0.02 mm
26	Max. axial load (dynamic)	1 N
27	Max. force for press fits (static)	100 N
28	Max. radial loading, 5 mm from flange	4.3 N
	Other specifications	
29	Number of pole pairs	1
30	Number of commutator segments	11
31	Weight of motor	107 g

Values listed in the table are nominal.
Explanation of the figures on page 49.

Option
Ball bearings in place of sleeve 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 16 - 21

Spur Gearhead
∅30 mm
0.07 - 0.2 Nm
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