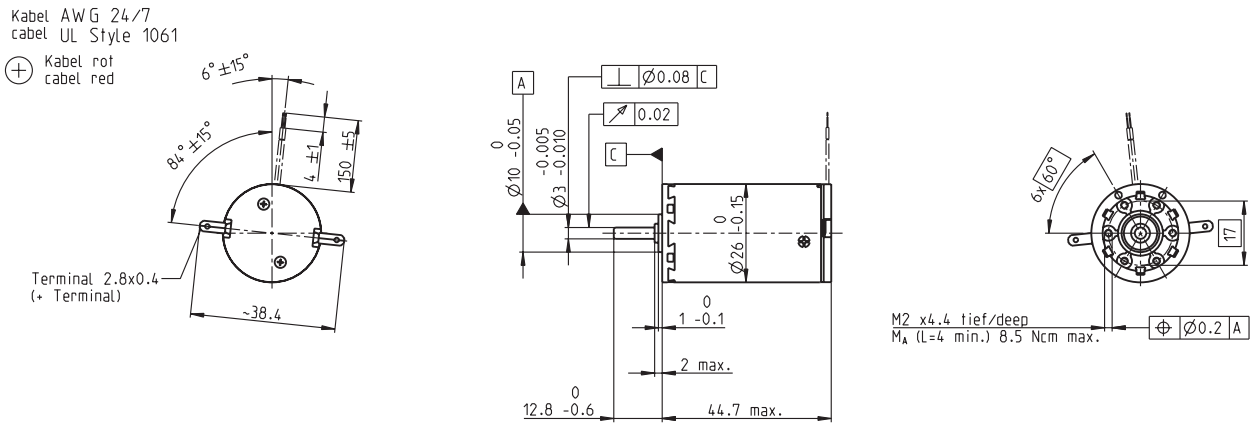
A-max 26 ∅26 mm, Graphite Brushes, 6 Watt



M 1:2

Stock program
Standard program
Special program (on request)

			Order Number												
			with terminals	110923	110924	110925	110926	110927	110928	110929	110930	110931	110932	110933	110934
			with cables	353132	353133	353134	353135	340503	353136	353137	353138	353139	353140	353141	353605
Motor Data															
	Values at nominal voltage														
1	Nominal voltage	V		7.2	9.0	12.0	12.0	18.0	18.0	24.0	24.0	30.0	36.0	42.0	48.0
2	No load speed	rpm		9270	10000	10000	8300	8260	7410	8590	7870	8810	8440	8170	6240
3	No load current	mA		118	104	76.8	59.7	39.2	34.0	30.8	27.6	25.4	20.0	16.4	10.3
4	Nominal speed	rpm		7160	7620	7600	5590	5640	4790	5880	5100	6210	5850	5550	3550
5	Nominal torque (max. continuous torque)	mNm		6.73	7.97	11.1	13.0	13.6	13.8	13.1	12.9	13.7	13.8	13.7	13.7
6	Nominal current (max. continuous current)	A		1.08	1.08	1.08	1.03	0.708	0.642	0.532	0.481	0.452	0.365	0.300	0.201
7	Stall torque	mNm		38.2	39.7	52.7	43.8	45.6	41.0	43.5	38.1	47.9	46.4	43.7	32.6
8	Starting current	A		5.50	4.90	4.80	3.29	2.25	1.82	1.67	1.34	1.51	1.16	0.911	0.455
9	Max. efficiency	%		67	69	73	72	74	73	74	73	75	75	75	72
	Characteristics														
10	Terminal resistance	Ω		1.31	1.84	2.50	3.65	8.00	9.91	14.4	17.9	19.9	31.0	46.1	106
11	Terminal inductance	mH		0.101	0.138	0.254	0.372	0.862	1.07	1.42	1.69	2.13	3.35	4.85	10.8
12	Torque constant	mNm / A		6.94	8.09	11.0	13.3	20.2	22.5	26.0	28.3	31.8	39.9	48.0	71.6
13	Speed constant	rpm / V		1380	1180	869	718	472	423	367	337	300	239	199	133
14	Speed / torque gradient	rpm / mNm		260	268	198	197	186	186	203	213	188	186	191	197
15	Mechanical time constant	ms		33.4	30.5	27.9	27.1	25.4	25.2	24.9	24.9	24.5	24.2	24.2	24.2
16	Rotor inertia	gcm²		12.3	10.9	13.5	13.1	13.0	12.9	11.7	11.2	12.5	12.5	12.1	11.7

Specifications

Thermal data

17	Thermal resistance housing-ambient	13.2 K / W
18	Thermal resistance winding-housing	3.2 K / W
19	Thermal time constant winding	12.4 s
20	Thermal time constant motor	647 s
21	Ambient temperature	-30 ... +85°C
22	Max. permissible winding temperature	+125°C

Mechanical data (ball bearings)

23	Max. permissible speed	10400 rpm
24	Axial play	0.1 - 0.2 mm
25	Radial play	0.025 mm
26	Max. axial load (dynamic)	5 N
27	Max. force for press fits (static)	75 N
28	Max. radial loading, 5 mm from flange	20.5 N

Mechanical data (sleeve bearings)

23	Max. permissible speed	10400 rpm
24	Axial play	0.1 - 0.2 mm
25	Radial play	0.012 mm
26	Max. axial load (dynamic)	1.7 N
27	Max. force for press fits (static)	80 N
28	Max. radial loading, 5 mm from flange	5.5 N

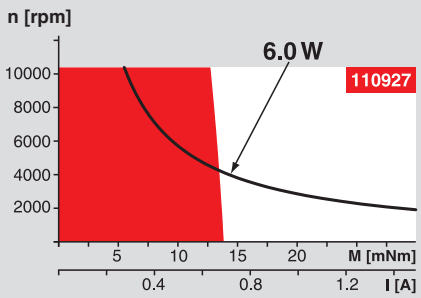
Other specifications

29	Number of pole pairs	1
30	Number of commutator segments	13
31	Weight of motor	98 g

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

Option
Sleeve bearings in place of ball bearings

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

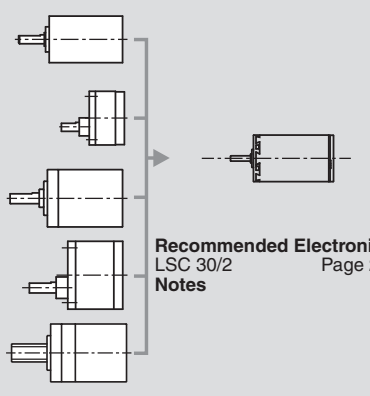
Planetary Gearhead
∅26 mm
0.5 - 2.0 Nm
Page 228

Spur Gearhead
∅30 mm
0.07 - 0.2 Nm
Page 229

Planetary Gearhead
∅32 mm
0.4 - 6.0 Nm
Page 230 / 231 / 233

Spur Gearhead
∅38 mm
0.1 - 0.6 Nm
Page 237

Spindle Drive
∅32 mm
Page 249 / 250 / 251



Recommended Electronics:
LSC 30/2 Page 282
Notes **18**