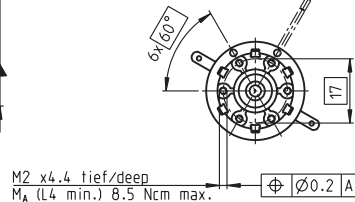
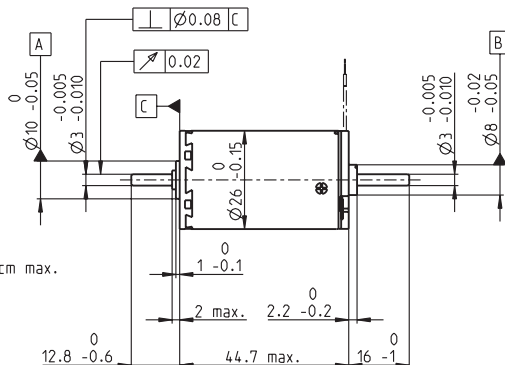
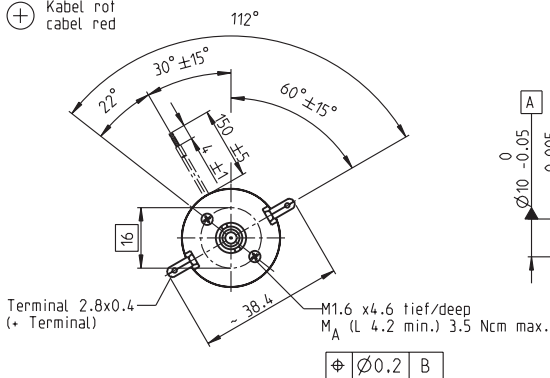


A-max 26 Ø26 mm, Precious Metal Brushes CLL, 4.5 Watt, CE approved

High Power

Kabel AWG 24/7
Kabel UL Style 1061

⊕ Kabel rot
⊖ Kabel red



M 1:2

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

Order Number

with terminals	110204	110205	110206	110207	110208	110209	110210	110211	110212	110213	110214
with cables	353109	353110	353111	353112	353113	353114	353115	353116	353117	353118	353119

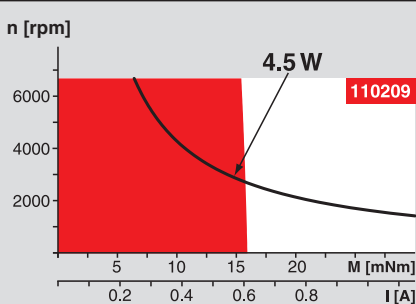
Motor Data

Values at nominal voltage			2.4	3.6	6.0	7.2	9.0	12.0	15.0	18.0	24.0	30.0	36.0
1	Nominal voltage	V	2.4	3.6	6.0	7.2	9.0	12.0	15.0	18.0	24.0	30.0	36.0
2	No load speed	rpm	3880	5180	4090	4050	4020	4440	3530	3640	4510	4680	4520
3	No load current	mA	67.6	69.8	29.2	24.0	19.0	16.5	9.4	8.2	8.44	7.15	5.66
4	Nominal speed	rpm	3390	4580	2910	2580	2340	2750	1780	1900	2770	2920	2750
5	Nominal torque (max. continuous torque)	mNm	4.53	5.09	11.3	13.8	15.9	15.7	15.4	15.5	15.4	15.1	15.0
6	Nominal current (max. continuous current)	A	0.840	0.840	0.840	0.840	0.768	0.629	0.392	0.338	0.312	0.255	0.204
7	Stall torque	mNm	35.9	44.1	39.2	38.1	38.2	41.4	31.4	32.5	40.1	40.3	38.5
8	Starting current	A	6.15	6.71	2.83	2.27	1.80	1.62	0.783	0.697	0.797	0.665	0.513
9	Max. efficiency	%	80	81	81	81	81	81	80	80	81	81	80
Characteristics			0.390	0.536	2.12	3.17	4.99	7.41	19.2	25.8	30.1	45.1	70.2
10	Terminal resistance	Ω	0.390	0.536	2.12	3.17	4.99	7.41	19.2	25.8	30.1	45.1	70.2
11	Terminal inductance	mH	0.0402	0.0509	0.227	0.332	0.528	0.770	1.90	2.57	2.99	4.34	6.68
12	Torque constant	mNm / A	5.84	6.57	13.9	16.8	21.2	25.5	40.1	46.7	50.3	60.6	75.2
13	Speed constant	rpm / V	1640	1450	689	569	451	374	238	205	190	158	127
14	Speed / torque gradient	rpm / mNm	109	119	105	108	106	108	114	113	114	117	119
15	Mechanical time constant	ms	16.4	16.0	14.9	14.8	14.8	14.8	14.8	14.8	14.8	14.9	15.0
16	Rotor inertia	gcm ²	14.3	12.8	13.5	13.2	13.3	13.0	12.5	12.5	12.5	12.1	12.0

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	785 s
21	Ambient temperature	-30 ... +65°C
22	Max. permissible winding temperature	+85°C
Mechanical data (sleeve bearings)		
23	Max. permissible speed	6700 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) (static, shaft supported)	80 N / 1200 N
28	Max. radial loading, 5 mm from flange	5.5 N
Mechanical data (ball bearings)		
23	Max. permissible speed	6700 rpm
24	Axial play	0.1 - 0.2 mm
25	Radial play	0.025 mm
26	Max. axial load (dynamic)	5.0 N
27	Max. force for press fits (static) (static, shaft supported)	75 N / 1200 N
28	Max. radial loading, 5 mm from flange	20.5 N
Other specifications		
29	Number of pole pairs	1
30	Number of commutator segments	13
31	Weight of motor	119 g
CLL= Capacitor Long Life		
Values listed in the table are nominal. Explanation of the figures on page 49.		
Option		
Ball bearings in place of sleeve bearings		
Without CLL		

Operating Range



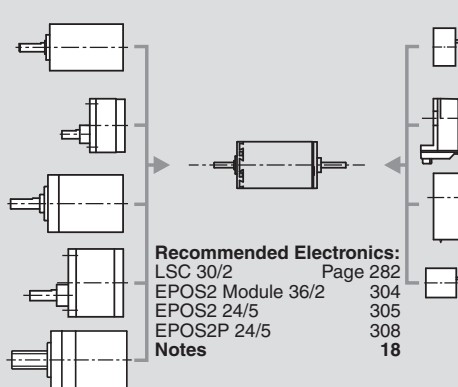
Comments

- 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**
Ø26 mm
0.5 - 2.0 Nm
Page 228
- Spur Gearhead**
Ø30 mm
0.07 - 0.2 Nm
Page 229
- Planetary Gearhead**
Ø32 mm
0.4 - 6.0 Nm
Page 230 / 231 / 233
- Spur Gearhead**
Ø38 mm
0.1 - 0.6 Nm
Page 237
- Spindle Drive**
Ø32 mm
Page 249 / 250 / 251



- Recommended Electronics:**
- LSC 30/2 Page 282
 - EPOS2 Module 36/2 304
 - EPOS2 24/5 305
 - EPOS2P 24/5 308
- Notes** 18

- Encoder MR**
128 - 1000 Imp.,
3 channels
Page 262
- Encoder Enc**
22 mm
100 Imp., 2 channels
Page 265
- Encoder HED_5540**
500 Imp.,
3 channels
Page 267 / 269
- Encoder MEnc**
Ø13 mm
16 Imp., 2 channels
Page 275