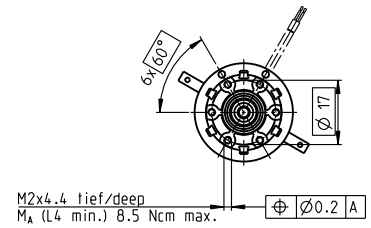
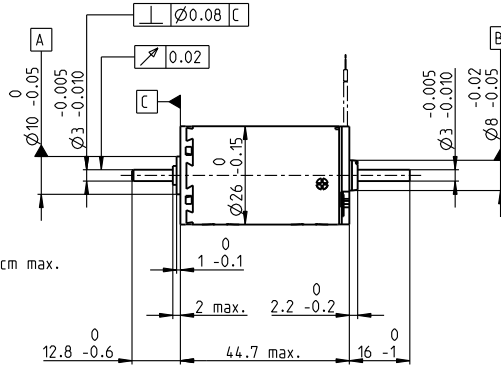
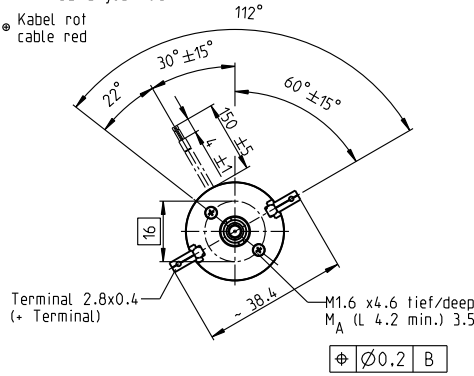


# A-max 26 Ø26 mm, precious metal brushes CLL, 4.5 watt

A-max

Kabel AWG 24/7  
cable UL Style 1061

● Kabel rot  
cable red



## M 1:2

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

		Part Numbers										
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		110204	110205	110206	110207	110208	110209	110210	110211	110212	110213	110214
<b>Values at nominal voltage</b>												
1 Nominal voltage	V	2.4	3.6	6	7.2	9	12	15	18	24	30	36
2 No load speed	rpm	3890	5190	4090	4060	4020	4440	3530	3640	4510	4680	4520
3 No load current	mA	677	69.9	29.2	24	19	16.5	9.41	8.2	8.45	7.16	5.67
4 Nominal speed	rpm	3460	4640	2940	2650	2620	3030	2070	2180	3060	3210	3050
5 Nominal torque (max. continuous torque)	mNm	4.53	5.08	11.3	13.3	13.4	13.2	12.9	12.9	12.8	12.6	12.5
6 Nominal current (max. continuous current)	A	0.84	0.84	0.84	0.814	0.647	0.529	0.33	0.284	0.262	0.214	0.171
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 Stall current	A	6.15	6.71	2.83	2.27	1.8	1.62	0.783	0.697	0.797	0.665	0.513
9 Max. efficiency	%	81	81	81	81	81	81	80	80	81	81	81
<b>Characteristics</b>												
10 Terminal resistance	Ω	0.39	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	0.77	1.9	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	16.6	16.1	15	14.9	14.9	14.9	14.9	14.9	14.9	15	15
16 Rotor inertia	gcm <sup>2</sup>	14.4	12.9	13.6	13.2	13.3	13.1	12.6	12.6	12.5	12.2	12.1

Specifications	Operating Range	Comments
<b>Thermal data</b> 17 Thermal resistance housing-ambient 13.2 K/W 18 Thermal resistance winding-housing 3.2 K/W 19 Thermal time constant winding 12.5 s 20 Thermal time constant motor 473 s 21 Ambient temperature -30...+65°C 22 Max. winding temperature +85°C  <b>Mechanical data (sleeve bearings)</b> 23 Max. 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) 1200 N 28 Max. radial load, 5 mm from flange 5.5 N	<b>n [rpm]</b> 	<div style="background-color: red; width: 15px; height: 10px; display: inline-block;"></div> <b>Continuous operation</b> 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.  <div style="border: 1px solid black; width: 15px; height: 10px; display: inline-block;"></div> <b>Short term operation</b> The motor may be briefly overloaded (recurring).  — <b>Assigned power rating</b>

maxon Modular System		Details on catalog page 38	
<b>Mechanical data (ball bearings)</b> 23 Max. 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) 1200 N 28 Max. radial load, 5 mm from flange 20.5 N  <b>Other specifications</b> 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 82.  <b>Option</b> Ball bearings in place of sleeve bearings Without CLL	<b>Planetary Gearhead</b> Ø26 mm 0.75 - 4.5 Nm Page 390  <b>Spur Gearhead</b> Ø30 mm 0.07 - 0.2 Nm Page 391  <b>Planetary Gearhead</b> Ø32 mm 0.75 - 6.0 Nm Page 392/393/396  <b>Spur Gearhead</b> Ø38 mm 0.1 - 0.6 Nm Page 404  <b>Screw Drive</b> Ø32 mm Page 426-433		<b>Encoder MR</b> 128 - 1000 CPT, 3 channels Page 478  <b>Encoder Enc</b> 22 mm 100 CPT, 2 channels Page 483  <b>Encoder HED_5540</b> 500 CPT, 3 channels Page 487/489