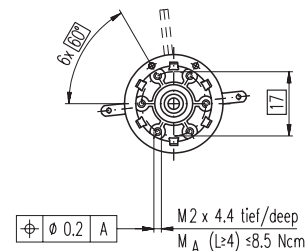
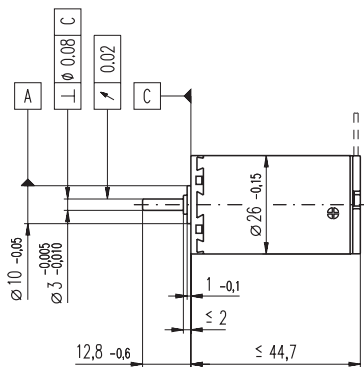
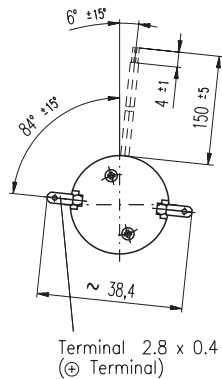


# A-max 26 Ø26 mm, Graphite Brushes, 11 Watt

HighPower

Kabel AWG 24/7  
cable UL Style 1061

⊕ Kabel rot  
cable red



M 1:2

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

## Order Number

with terminals	110935	110936	110937	110938	110939	110940	110941	110942	110943	110944	110945
with cables	139852	353166	353167	353168	353169	206344	353171	314214	202893	353174	353175

## Motor Data

Values at nominal voltage												
1	Nominal voltage	V	6.0	7.2	12.0	15.0	18.0	24.0	30.0	36.0	42.0	48.0
2	No load speed	rpm	9110	9850	8010	8320	7950	8820	7020	7250	7850	6000
3	No load current	mA	140	128	56.7	47.3	37.0	31.7	18.9	15.5	12.7	9.67
4	Nominal speed	rpm	7560	8230	6030	6150	5830	6730	4910	5160	5770	5340
5	Nominal torque (max. continuous torque)	mNm	5.53	6.30	14.2	16.5	17.2	17.2	17.6	17.7	17.6	17.5
6	Nominal current (max. continuous current)	A	1.08	1.08	1.08	1.03	0.846	0.704	0.455	0.394	0.365	0.300
7	Stall torque	mNm	54.4	59.6	66.6	70.3	69.8	77.6	60.5	63.1	68.4	63.2
8	Starting current	A	9.32	9.07	4.80	4.19	3.30	3.04	1.51	1.35	1.36	1.04
9	Max. efficiency	%	68	70	76	77	78	79	78	79	79	77
Characteristics												
10	Terminal resistance	Ω	0.644	0.794	2.50	3.58	5.46	7.90	19.9	26.6	30.9	46.0
11	Terminal inductance	mH	0.0402	0.0509	0.227	0.332	0.528	0.770	1.90	2.57	2.99	4.34
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
13	Speed constant	rpm / V	1640	1450	689	569	451	374	238	205	190	158
14	Speed / torque gradient	rpm / mNm	180	176	124	122	116	116	118	117	116	120
15	Mechanical time constant	ms	27.1	23.6	17.5	16.7	16.2	15.7	15.4	15.3	15.2	15.2
16	Rotor inertia	gcm <sup>2</sup>	14.3	12.8	13.5	13.1	13.2	13.0	12.5	12.5	12.5	12.0

## Specifications

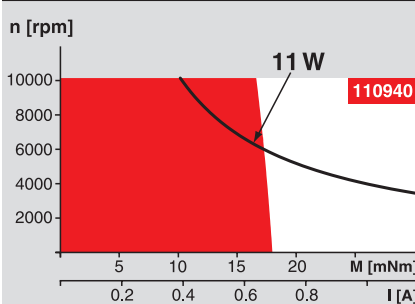
Thermal data			
17	Thermal resistance housing-ambient	13.2 K / W	
18	Thermal resistance winding-housing	3.2 K / W	
19	Thermal time constant winding	12.4 s	
20	Thermal time constant motor	772 s	
21	Ambient temperature	-30 ... +85°C	
22	Max. permissible winding temperature	+125°C	
Mechanical data (ball 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	117 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

Ø26 mm  
0.5 - 2.0 Nm  
Page 235

### Spur Gearhead

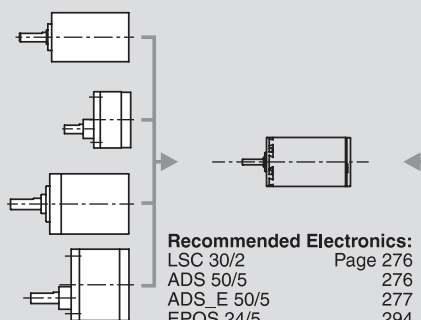
Ø30 mm  
0.07 - 0.2 Nm  
Page 236

### Planetary Gearhead

Ø32 mm  
0.4 - 6.0 Nm  
Page 237 / 238 / 241

### Spur Gearhead

Ø38 mm  
0.1 - 0.6 Nm  
Page 243



### Recommended Electronics:

LSC 30/2	Page 276
ADS 50/5	276
ADS_E 50/5	277
EPOS 24/5	294
EPOS2 50/5	295
EPOS P 24/5	297
Notes	18

### Encoder MEnc

Ø13 mm  
16 CPT, 2 channels  
Page 270