

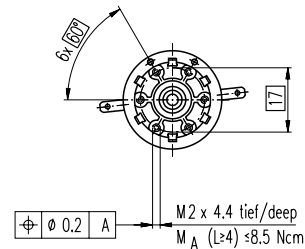
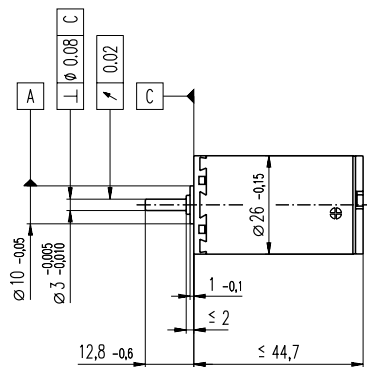
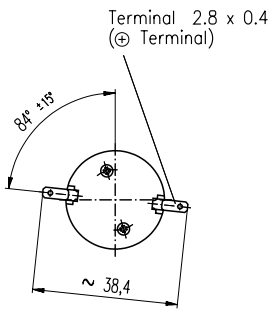
A-max 26 $\varnothing 26$ mm, Graphite Brushes, 11 Watt

HighPower

Farnell Codes

415 8623 - base - 110937

415 8635 - base - 110940



M 1:2

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

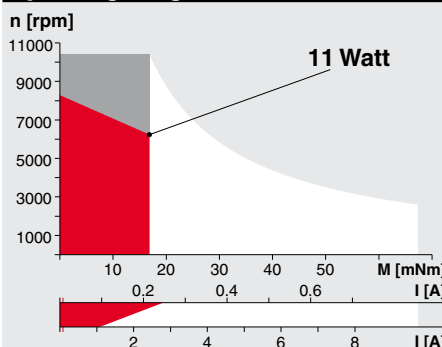
Order Number

Motor Data	Order Number													
	110935	110936	110937	110938	110939	110940	110941	110942	110943	110944	110945			
1 Assigned power rating	W	11	11	11	11	11	11	11	11	11	11			
2 Nominal voltage	Volt	6.0	7.2	12.0	15.0	18.0	24.0	30.0	36.0	42.0	48.0	48.0		
3 No load speed	rpm	8700	9390	7630	7930	7570	8400	6680	6900	7480	7100	5710		
4 Stall torque	mNm	57.1	62.6	70.0	73.9	73.3	81.5	63.6	66.4	71.9	66.4	53.2		
5 Speed / torque gradient	rpm / mNm	163	159	112	110	105	105	107	105	105	108	109		
6 No load current	mA	126	115	51	43	34	29	17	15	14	12	9		
7 Starting current	mA	9310	9060	4800	4190	3300	3040	1510	1350	1360	1040	673		
8 Terminal resistance	Ohm	0.644	0.795	2.50	3.58	5.46	7.90	19.9	26.6	30.9	46.0	71.4		
9 Max. permissible speed	rpm	10400	10400	10400	10400	10400	10400	10400	10400	10400	10400	10400		
10 Max. continuous current	mA	1080	1080	1080	1070	878	732	466	403	374	307	247		
11 Max. continuous torque	mNm	6.63	7.46	15.7	18.9	19.5	19.6	19.7	19.8	19.8	19.6	19.6		
12 Max. power output at nominal voltage	mW	10800	13300	13100	14500	14000	17400	10900	11800	13800	12200	7830		
13 Max. efficiency	%	69	71	77	78	79	80	79	80	80	80	78		
14 Torque constant	mNm / A	6.14	6.91	14.6	17.6	22.3	26.9	42.2	49.1	52.9	63.7	79.0		
15 Speed constant	rpm / V	1560	1380	655	541	429	356	226	194	180	150	121		
16 Mechanical time constant	ms	24	21	15	15	14	14	13	13	13	13	13		
17 Rotor inertia	gcm ²	13.9	12.4	13.0	12.6	12.7	12.4	11.8	11.9	11.8	11.4	11.3		
18 Terminal inductance	mH	0.04	0.05	0.23	0.33	0.53	0.77	1.90	2.57	2.99	4.33	6.67		
19 Thermal resistance housing-ambient	K / W	13	13	13	13	13	13	13	13	13	13	13		
20 Thermal resistance rotor-housing	K / W	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2		
21 Thermal time constant winding	s	13	12	12	12	12	12	11	11	11	11	11		

Specifications

- Axial play 0.1 - 0.2 mm
- Max. **ball bearing** loads
 - axial (dynamic) 5.0 N
 - radial (5 mm from flange) 20.5 N
 - Force for press fits (static) 75 N
- Max. **sleeve bearing** loads
 - axial (dynamic) 1.7 N
 - radial (5 mm from flange) 5.5 N
 - Force for press fits (static) 80 N
- Radial play **ball bearing** 0.025 mm
- Radial play **sleeve bearing** 0.012 mm
- Ambient temperature range -30 ... +85°C
- Max. rotor temperature +125°C
- Number of commutator segments 13
- Weight of motor 117 g
- Values listed in the table are nominal. For applicable tolerances see page 43. For additional details please use the maxon selection program on the enclosed CD-Rom.

Operating Range



Comments

- Recommended operating range**
- Continuous operation**
In observation of above listed thermal resistances (lines 19 and 20) the maximum permissible rotor temperature will be reached during continuous operation at 25°C ambient. = Thermal limit
- Short term operation**
The motor may be briefly overloaded (recurring).
- 110945** Motor with high resistance winding
- 110936** Motor with low resistance winding

Details on page 49

maxon Modular System

Overview on page 17 - 21

Planetary Gearhead

$\varnothing 26$ mm
0.2 - 2.0 Nm
Details page 193

Spur Gearhead

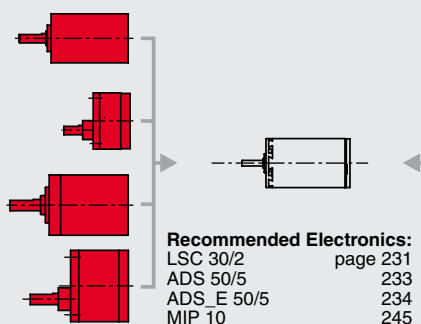
$\varnothing 30$ mm
0.07 - 0.2 Nm
Details page 194

Planetary Gearhead

$\varnothing 32$ mm
0.4 - 6.0 Nm
Details page 195 / 197 / 199

Spur Gearhead

$\varnothing 38$ mm
0.1 - 0.6 Nm
Details page 200



Recommended Electronics:

- LSC 30/2 page 231
- ADS 50/5 233
- ADS_E 50/5 234
- MIP 10 245
- Notes 17

Digital Magnetic Encoder

$\varnothing 13$ mm
16 CPT, 2 channels
Details page 223