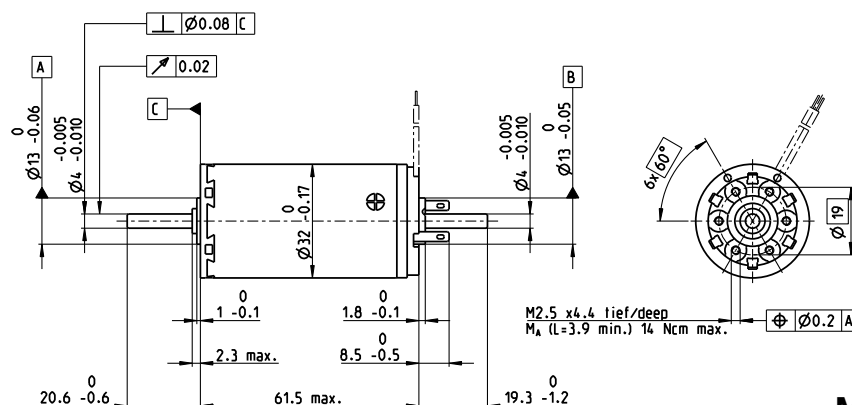


maxon A-max



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

Part number : 236670

with terminals	236666	236667	236668	236669	236670	236671	236672
with cables	353236	353237	301030	353239	353240	353241	353242

Values at nominal voltage		
1 Nominal voltage	V	6 9 12 24 30 36 42
2 No load speed	rpm	4880 5000 4670 6460 6160 5860 5650
3 No load current	mA	123 84.2 58.2 42.8 32.3 25.3 20.8
4 Nominal speed	rpm	3400 3480 3170 5060 4740 4430 4210
5 Nominal torque (max. continuous torque)	mNm	44.5 43.1 44 45.5 45.1 45.4 45
6 Nominal current (max. continuous current)	A	3.96 2.62 1.87 1.33 1.01 0.804 0.659
7 Stall torque	mNm	153 146 140 212 197 189 178
8 Stall current	A	13.2 8.57 5.77 6.02 4.27 3.24 2.54
9 Max. efficiency	%	80 80 80 84 83 83 83
Characteristics		
10 Terminal resistance	Ω	0.454 1.05 2.08 3.99 7.02 11.1 16.6
11 Terminal inductance	mH	0.06 0.13 0.264 0.556 0.954 1.52 2.22
12 Torque constant	mNm/A	11.6 17 24.3 35.2 46.1 58.2 70.4
13 Speed constant	rpm/V	825 562 394 271 207 164 136
14 Speed / torque gradient	rpm/mNm	32.4 34.8 33.8 30.8 31.6 31.3 31.9
15 Mechanical time constant	ms	15 14.9 14.7 14.6 14.6 14.6 14.7
16 Rotor inertia	gcm ²	44.2 40.8 41.7 45.3 44.2 44.6 43.8

Thermal data		
17	Thermal resistance housing-ambient	7.5 K/W
18	Thermal resistance winding-housing	2.1 K/W
19	Thermal time constant winding	17.8 s
20	Thermal time constant motor	521 s
21	Ambient temperature	-20...+85°C
22	Max. winding temperature	+125°C

23	Max. speed	6000 rpm
24	Axial play	0.12 - 0.22 mm
25	Radial play	0.025 mm
26	Max. axial load (dynamic)	7.6 N
27	Max. force for press fits (static) (static, shaft supported)	110 N 2000 N
28	Max. radial load, 5 mm from flange	32 N

23	Max. speed	6000 rpm
24	Axial play	0.12 - 0.22 mm
25	Radial play	0.012 mm
26	Max. axial load (dynamic)	5.0 N
27	Max. force for press fits (static) (static, shaft supported)	110 N 2000 N
28	Max. radial load, 5 mm from flange	10.5 N

29	Number of pole pairs	1
30	Number of commutator segments	13
31	Weight of motor	240 g

Values listed in the table are nominal.
Explanation of the figures on page 68.

Option
Sleeve bearings in place of ball bearings

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.

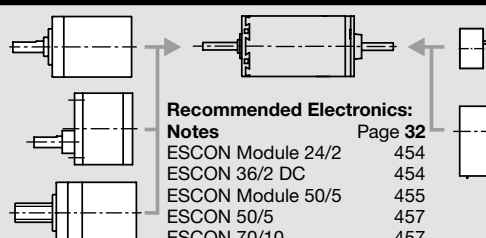
The motor may be briefly overloaded (recurring).

Assigned power rating

Planetary Gearhead
 Ø32 mm
 0.75 - 6.0 Nm
 Page 348–350/352–353

Spur Gearhead
 Ø38 mm
 0.1 - 0.6 Nm
 Page 360

Screw Drive
 Ø32 mm
 Page 382–387



Encoder MR
256 - 1024 CPT,
3 channels
Page 433

Encoder HED_ 5540
500 CPT,
3 channels
Page 441/443