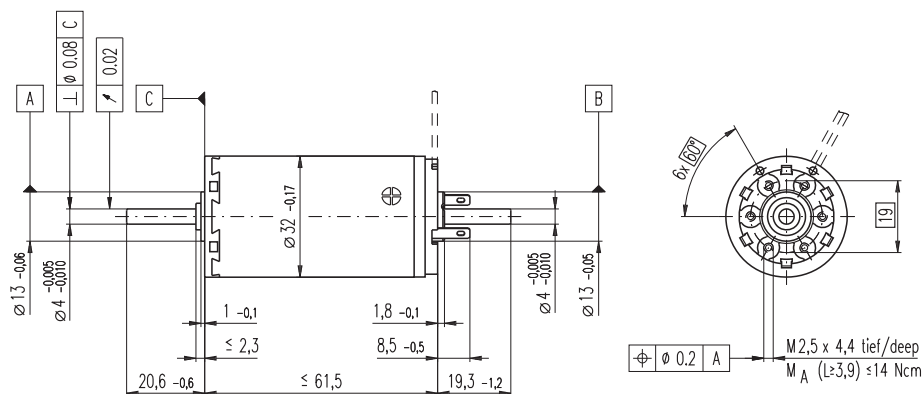



maxon A-max

Kabel AWG 22/7
cable UL Style 1061
⊕ Kabel rot
cable red



 Stock program
 Standard program
 Special program (on request)

with terminals
with cables

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

Values at nominal voltage																		
1	Nominal voltage	V	6.0	9.0	12.0	24.0	30.0	36.0	42.0									
2	No load speed	rpm	4850	4980	4660	6460	6160	5850	5650									
3	No load current	mA	122	83.8	58.0	42.7	32.2	25.2	20.7									
4	Nominal speed	rpm	3140	3350	3100	5020	4710	4420	4200									
5	Nominal torque (max. continuous torque)	mNm	38.4	40.0	42.1	44.4	44.4	45.0	44.7									
6	Nominal current (max. continuous current)	A	3.43	2.43	1.79	1.30	0.994	0.796	0.655									
7	Stall torque	mNm	120	129	131	205	193	186	177									
8	Starting current	A	10.4	7.62	5.39	5.81	4.18	3.19	2.51									
9	Max. efficiency	%	77	79	80	83	83	83	83									
Characteristics																		
10	Terminal resistance	Ω	0.577	1.18	2.23	4.13	7.17	11.3	16.7									
11	Terminal inductance	mH	0.0601	0.129	0.264	0.555	0.953	1.52	2.22									
12	Torque constant	mNm / A	11.6	17.0	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	41.1	39.1	36.1	31.9	32.2	31.8	32.3									
15	Mechanical time constant	ms	18.9	16.6	15.7	15.0	14.8	14.8	14.7									
16	Rotor inertia	acm ²	43.9	40.6	41.4	45.0	44.0	44.4	43.6									

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	17.7 s
20	Thermal time constant motor	900 s
21	Ambient temperature	-20 ... +85°C
22	Max. permissible winding temperature	+125°C
Mechanical data (ball bearings)		
23	Max. permissible 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 loading, 5 mm from flange	32 N

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.

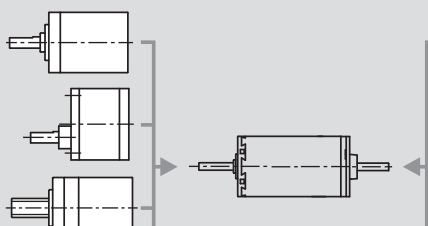
Short term operation
The motor may be briefly overloaded (recurring).

Assigned power rating

Planetary Gearhead
 Ø32 mm
 0.75 - 6.0 Nm
 Page 232 / 234 / 235

Spur Gearhead
 Ø38 mm
 0.1 - 0.6 Nm
 Page 239

Spindle Drive
 Ø32 mm
 Page 251 / 252 / 253



Encoder MR
256 - 1024 CPT,
3 channels
Page 265

Encoder HED_5540
500 CPT,
3 channels
Page 269 / 271

ADS 50/5	282
ADS_E 50/5	283
EPOS2 Module 36/2	302
EPOS2 24/5	303
EPOS2 50/5	303
EPOS P 24/5	306
Notes	18

Values listed in the table are nominal.
Explanation of the figures on page 49.

Option
Sleeve bearings in place of ball bearings