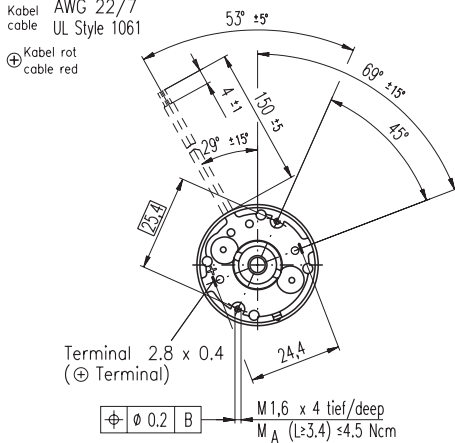
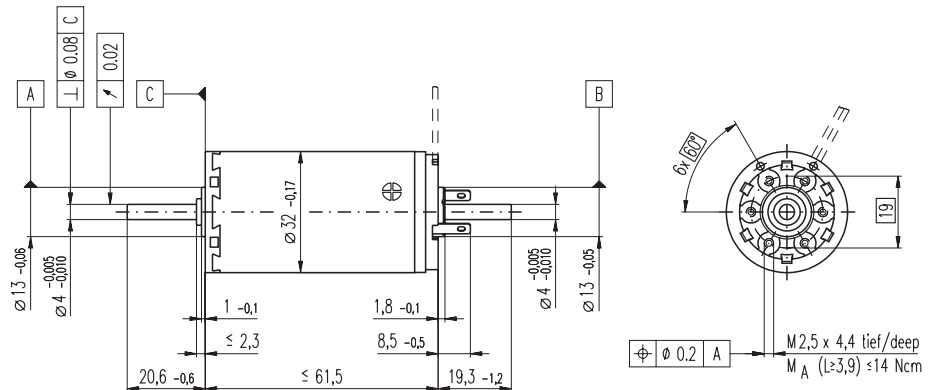


A-max 32 Ø32 mm, Graphite Brushes, 15 Watt

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



Verlegung der Kabel im Bürstendeckel nicht dargestellt



M 1:2

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

Order Number

	236651	236652	236653	236654	236655	236656	236657	236658
with terminals	353220	353221	353222	353223	353224	353225	353226	353227
with cables								

Motor Data

Values at nominal voltage										
1	Nominal voltage	V	6.0	9.0	12.0	18.0	24.0	30.0	36.0	48.0
2	No load speed	rpm	5830	4930	4670	5270	5930	5870	5830	3870
3	No load current	mA	153	83.2	58.4	44.8	38.6	30.5	25.2	11.7
4	Nominal speed	rpm	3800	2980	2860	3550	4180	4140	4090	2080
5	Nominal torque (max. continuous torque)	mNm	31.4	33.1	36.0	37.5	36.7	37.1	36.8	36.9
6	Nominal current (max. continuous current)	A	3.42	2.02	1.55	1.21	0.998	0.798	0.656	0.328
7	Stall torque	mNm	99.7	87.4	95.9	118	127	128	125	81.3
8	Starting current	A	10.4	5.12	3.98	3.66	3.34	2.66	2.15	0.698
9	Max. efficiency	%	75	75	77	79	80	80	80	76
Characteristics										
10	Terminal resistance	Ω	0.577	1.76	3.02	4.92	7.19	11.3	16.7	68.8
11	Terminal inductance	mH	0.0657	0.209	0.416	0.739	1.04	1.66	2.43	9.71
12	Torque constant	mNm / A	9.58	17.1	24.1	32.2	38.2	48.2	58.3	117
13	Speed constant	rpm / V	996	559	396	297	250	198	164	81.9
14	Speed / torque gradient	rpm / mNm	59.9	57.6	49.5	45.5	47.1	46.3	47.1	48.4
15	Mechanical time constant	ms	27.6	23.5	22.4	21.8	21.7	21.5	21.5	21.5
16	Rotor inertia	gcm ²	43.9	39.0	43.3	45.9	44.0	44.4	43.6	42.4

Specifications

- 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 791 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

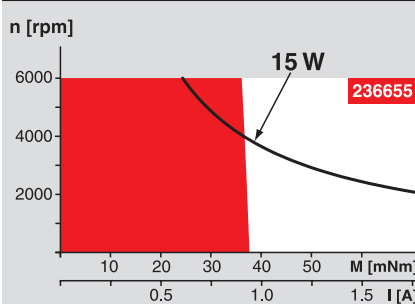
- Mechanical data (sleeve bearings)**
- 23 Max. permissible speed 6000 rpm
 - 24 Axial play 0.12 - 0.22 mm
 - 25 Radial play 0.012 mm
 - 26 Max. axial load (dynamic) 5.0 N
 - 27 Max. force for press fits (static) (static, shaft supported) 110 N / 2000 N
 - 28 Max. radial loading, 5 mm from flange 10.5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

- Other specifications**
- 29 Number of pole pairs 1
 - 30 Number of commutator segments 13
 - 31 Weight of motor 211 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

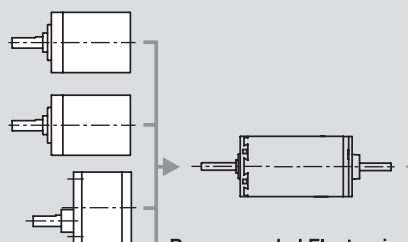
Continuous operation
In observation of above listed thermal resistance (lines 17 and 18) the maximum permissible winding temperature will be reached during continuous operation at 25°C ambient.
= Thermal limit.

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

— Assigned power rating

maxon Modular System

- Planetary Gearhead**
Ø32 mm
0.75 - 4.5 Nm
Page 239
- Planetary Gearhead**
Ø32 mm
1.0 - 6.0 Nm
Page 241
- Spur Gearhead**
Ø38 mm
0.1 - 0.6 Nm
Page 243



Overview on page 16 - 21

- Encoder MR**
256 - 1024 CPT,
3 channels
Page 259
- Encoder HEDS 5540**
500 CPT,
3 channels
Page 263
- Encoder HEDL 5540**
500 CPT,
3 channels
Page 265

- 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