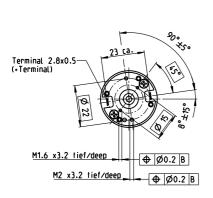
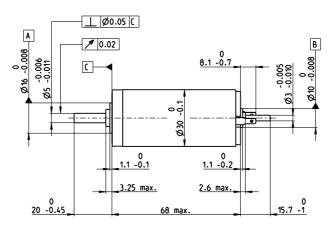
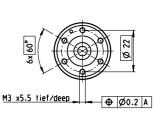
RE 30 Ø30 mm, Graphite Brushes, 60 Watt









M 1:2

Motor Data

Stock program Standard program Special program (on request)

No load current

Characteristics

12 Torque constant

13 Speed constant

16 Rotor inertia

Terminal resistance

Terminal inductance

14 Speed / torque gradient

15 Mechanical time constant

4 Nominal speed

7 Stall torque

8 Stall current Max. efficiency

11

Values at nominal voltage Nominal voltage 2 No load speed

5 Nominal torque (max. continuous torque)

6 Nominal current (max. continuous current)

according to dimensional drawing

shaft length 15.7 shortened to 8.7 mm

gcm²

33.7

		Part Numbe	rs			
nal drawing		310005	310006	310007	310008	310009
d to 8.7 mm		268193	268213	268214	268215	268216
	V	12	18	24	36	48
	rpm	8170	8590	8810	8590	8490
	mA	301	213	165	106	78.6
	rpm	7630	7910	8050	7840	7760
e)	mNm	51.6	75.5	85.6	86.6	89.7
ent)	Α	4	4	3.47	2.28	1.74
	mNm	853	1000	1020	1000	1050
	Α	61.1	50.3	39.3	25.2	19.6
	%	85	87	87	87	88
	Ω	0.196	0.358	0.611	1.43	2.45
	mH	0.034	0.07	0.119	0.281	0.513
mNm/A		13.9	19.9	25.9	39.8	53.8
rpm/V		685	479	369	240	178
rpm/mNm		9.64	8.61	8.7	8.61	8.09
	ms	3.4	3.24	3.05	2.98	2.94

33.1

Comments Thermal data n [rpm] Continuous operation 6.0 K/W Thermal resistance housing-ambient In observation of above listed thermal resistance Thermal resistance winding-housing 1.7 K/W 60 W (lines 17 and 18) the maximum permissible winding Thermal time constant winding 16.3 s12000 temperature will be reached during continuous 310007 593 s +100°C.. 20 Thermal time constant motor operation at 25°C ambient. Ambient temperature = Thermal limit. 22 Max. winding temperature +125°C 8000 Mechanical data (ball bearings) Short term operation 4000 23 Max. speed 12000 rpm The motor may be briefly overloaded (recurring). 0.05 - 0.15 mm 24 Axial play Radial play 0.025 mm Assigned power rating Max. axial load (dynamic) 5.6 N 50 75 100 M [mNm] Max. force for press fits (static) (static, shaft supported) 110 N 2.0 1.0 3.0 4.0 I [A] 1200 N 28 Max. radial load, 5 mm from flange 28 N

Other specifications

- Number of pole pairs
- 30 Number of commutator segments
- Weight of motor

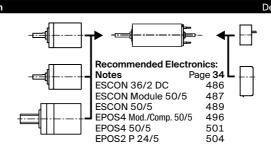
Values listed in the table are nominal Explanation of the figures on page 72.

Option

Preloaded ball bearings

Planetary Gearhead 13 \emptyset 32 mm 260 g 0.75 - 6.0 Nm Page 383-390

Koaxdrive Ø32 mm 1.0 - 4.5 Nm Page 394 Screw Drive Ø32 mm Page 416-421



Details on catalog page 34 **Encoder MR** 256 - 1024 CPT, 3 channels

Page 464 Encoder HED_ 5540 500 CPT. Page 471/473

138 maxon DC motor