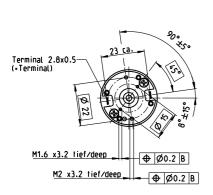
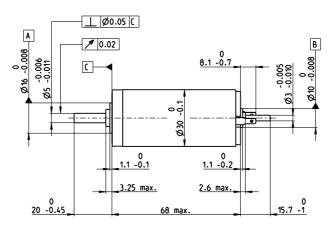
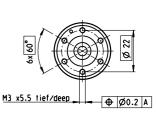
# RE 30 Ø30 mm, Graphite Brushes, 60 Watt









### M 1:2

Stock program

Standard program								
Special program (on request)								
according to dimensional drawing		310005	310006	310007	310008	310009		
shaft length 15.7 shortened to 8.7 mm		268193	268213	268214	268215	268216		
Motor Data								
Values at nominal voltage								
1 Nominal voltage	V	12	18	24	36	48		
2 No load speed	rpm	8170	8590	8810	8590	8490		
3 No load current	mA	301	213	165	106	78.6		
4 Nominal speed	rpm	7630	7910	8050	7840	7760		
5 Nominal torque (max. continuous tor	que) mNm	51.6	75.5	85.6	86.6	89.7		
6 Nominal current (max. continuous cu	rrent) A	4	4	3.47	2.28	1.74		
7 Stall torque	mNm	853	1000	1020	1000	1050		
8 Stall current	Α	61.1	50.3	39.3	25.2	19.6		
9 Max. efficiency	%	85	87	87	87	88		
Characteristics								
10 Terminal resistance	Ω	0.196	0.358	0.611	1.43	2.45		
11 Terminal inductance	mH	0.034	0.07	0.119	0.281	0.513		
12 Torque constant	mNm/A	13.9	19.9	25.9	39.8	53.8		
13 Speed constant	rpm/V	685	479	369	240	178		
14 Speed/torque gradient	rpm/mNm	9.64	8.61	8.7	8.61	8.09		
15 Mechanical time constant	ms	3.4	3.24	3.05	2.98	2.94		
16 Rotor inertia	gcm <sup>2</sup>	33.7	35.9	33.5	33.1	34.7		

#### Specifications Thermal data n [rpm] Continuous operation 6.0 K/W 17 Thermal resistance housing-ambient In observation of above listed thermal resistance 18 Thermal resistance winding-housing 1.7 K/W 60 W (lines 17 and 18) the maximum permissible winding 19 Thermal time constant winding $16.3 \, s$ 12000 temperature will be reached during continuous 310007 593 s ..+100°C 20 Thermal time constant motor operation at 25°C ambient. 21 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 0.025 mm 24 Axial play 25 Radial play Assigned power rating 26 Max. axial load (dynamic) 5.6 N 50 75 100 M [mNm] 27 Max. force for press fits (static) (static, shaft supported) 110 N 2.0 1.0 3.0 4.0 I [A] 1200 N

## Other specifications

- 29 Number of pole pairs
- 30 Number of commutator segments

28 Max. radial load, 5 mm from flange

31 Weight of motor

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

## Option

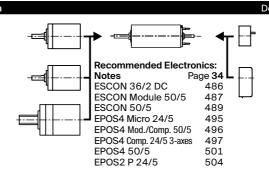
Preloaded ball bearings

#### Planetary Gearhead 13 Ø32 mm 260 g 0.75-6.0 Nm Page 383-390

28 N

**Part Numbers** 

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, 3 channels Page 471/473