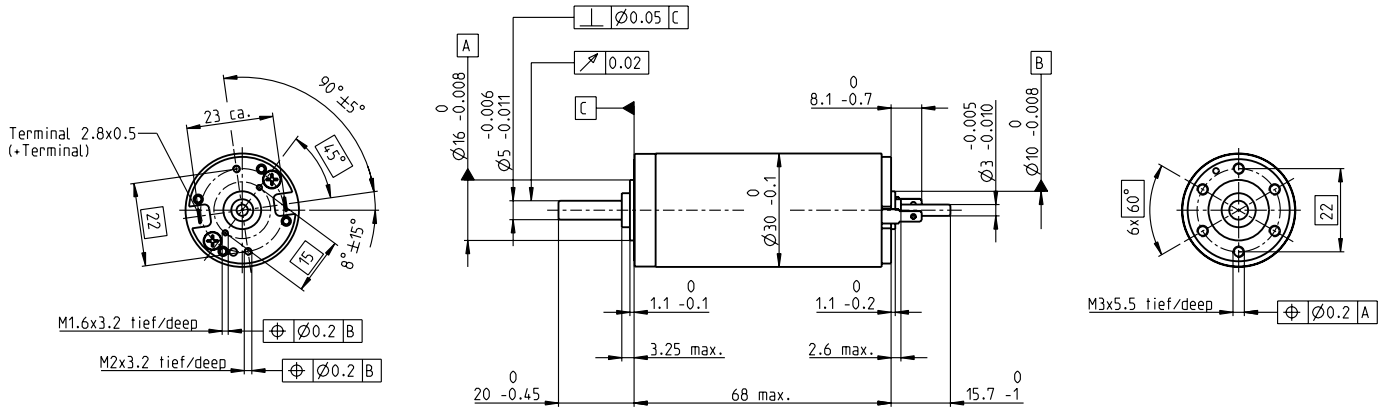


RE 30 Ø30 mm, Graphite Brushes, 60 Watt



M 1:2

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

according to dimensional drawing
shaft length 15.7 shortened to 8.7 mm

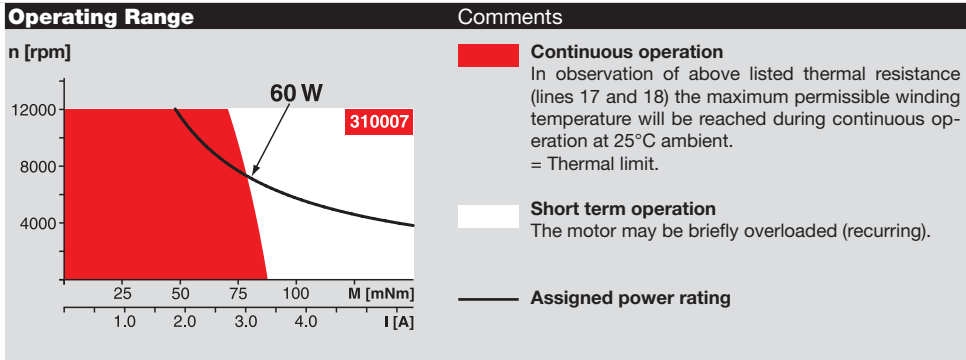
Part Numbers					
	310005	310006	310007	310008	310009
	268193	268213	268214	268215	268216

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 torque)	mNm	51.6	75.5	85.6	86.6	89.7
6 Nominal current (max. continuous current)	A	4	4	3.47	2.28	1.74
7 Stall torque	mNm	853	1000	1020	1000	1050
8 Stall current	A	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 ²	33.7	35.9	33.5	33.1	34.7

Specifications			
Thermal data			
17 Thermal resistance housing-ambient	6.0 K/W		
18 Thermal resistance winding-housing	1.7 K/W		
19 Thermal time constant winding	16.3 s		
20 Thermal time constant motor	593 s		
21 Ambient temperature	-30...+100°C		
22 Max. winding temperature	+125°C		
Mechanical data (ball bearings)			
23 Max. speed	12000 rpm		
24 Axial play	0.05 - 0.15 mm		
25 Radial play	0.025 mm		
26 Max. axial load (dynamic)	5.6 N		
27 Max. force for press fits (static)	110 N		
(static, shaft supported)	1200 N		
28 Max. radial load, 5 mm from flange	28 N		
Other specifications			
29 Number of pole pairs	1		
30 Number of commutator segments	13		
31 Weight of motor	260 g		

Values listed in the table are nominal.
Explanation of the figures on page 151.

Option
Preloaded ball bearings



maxon Modular System		Overview on page 20–27	
Planetary Gearhead Ø32 mm 0.75 - 6.0 Nm Page 338–344		Encoder MR 256 - 1024 CPT, 3 channels Page 393	
Koaxdrive Ø32 mm 1.0 - 4.5 Nm Page 347		Encoder HED_ 5540 500 CPT, 3 channels Page 399/401	
Spindle Drive Ø32 mm Page 370–372		Recommended Electronics: Notes Page 24	
		ESCON 36/2 DC 416 ESCON Module 50/5 417 ESCON 50/5 418 EPOS2 Module 36/2 424 EPOS2 24/5, EPOS2 50/5 425 EPOS2 P 24/5 428 EPOS4 Module 50/8 431 EPOS4 Comp. 50/8 CAN 431 MAXPOS 50/5 435	