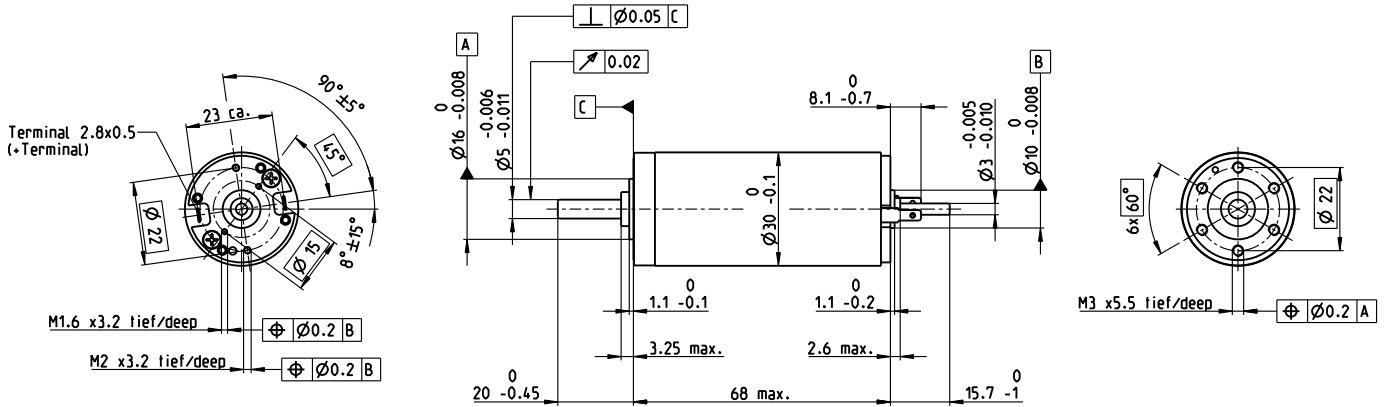


RE 30 Ø30 mm, graphite brushes, 60 watt

RE



M 1:2

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

Part Numbers

according to dimensional drawing
shaft length 15.7 shortened to 8.7 mm

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	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) (static, shaft supported)	110 N
28	Max. radial load, 5 mm from flange	1200 N
		28 N

Other specifications

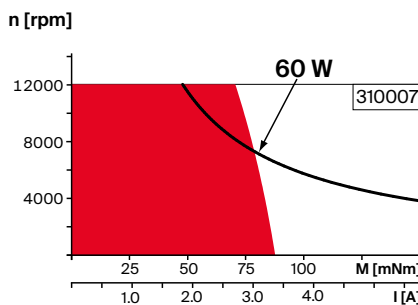
29	Number of pole pairs	1
30	Number of commutator segments	13
31	Weight of motor	260 g

Values listed in the table are nominal.
Explanation of the figures on page 90.

Option

Preloaded 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**

Modular System

Details on catalog page 44

Gear	Sensor	Motor Control
418_GP 32 BZ	511_Encoder MR 256-1024 CPT	532_ESCON 36/2 DC
419_GP 32 A	518_Encoder HEDS 5540	533_ESCON Module 50/5
421_GP 32 AR	520_Encoder HEDL 5540	535_ESCON 50/5
422_GP 32 C		541_EPOS4 Micro 24/5
425_GP 32 CR		542_EPOS4 Module 24/1.5
429_KD 32		543_EPOS4 Compact 24/5 3-axes
452-460_GP 32 S		544_EPOS4 Compact 24/1.5
		547_EPOS4 50/5