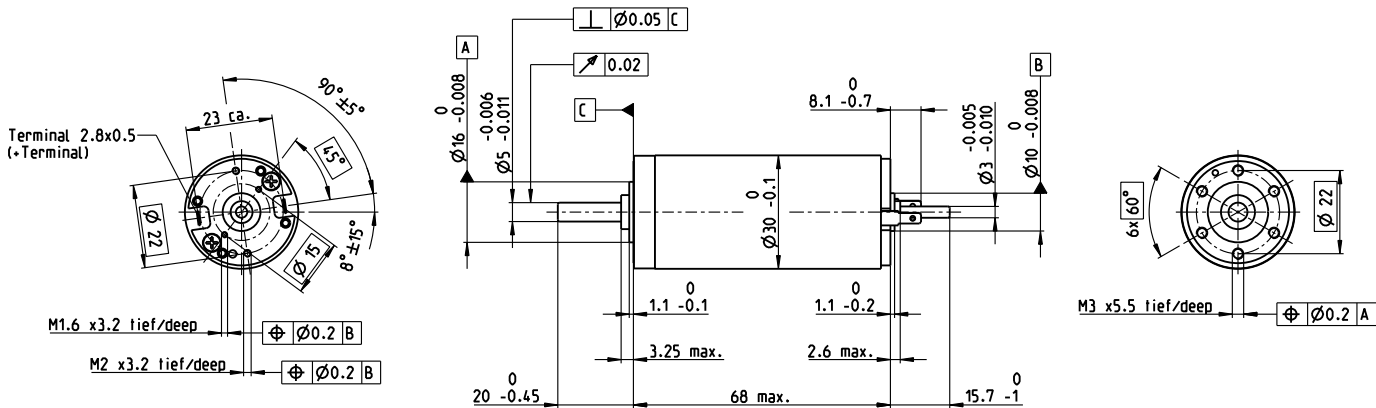


RE 30 Ø30 mm, graphite brushes, 60 watt

RE



M 1:2

- Stock program
Standard program
Special program (on request)

Part numbers					
according to dimensional drawing	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	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	Operating range	Comments
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	n [rpm] 60 W 310007	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
Mechanical data (ball bearings) 23 Max. speed 12 000 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	Modular system	Details on catalog page 48
29 Number of pole pairs 1 30 Number of commutator segments 13 31 Weight of motor 260 g	Gear 426_GP 32 BZ 427_GP 32 A 429_GP 32 C 435_KD 32 474-482_GP 32 S	Sensor 506_ENX 32 IMR 535_Encoder HEDS 5540 537_Encoder HEDL 5540
Values listed in the table are nominal. Explanation of the figures on page 94.		Motor Control 550_ESCON 36/2 DC 551_ESCON Module 50/5 553_ESCON 50/5 557_ESCON2 Micro 60/5 563_EPOS4 Micro 24/5 564_EPOS4 Module 24/1.5 565_EPOS4 Compact 24/5 3-axes 566_EPOS4 Compact 24/1.5 569_EPOS4 50/5
Option Preloaded ball bearings		