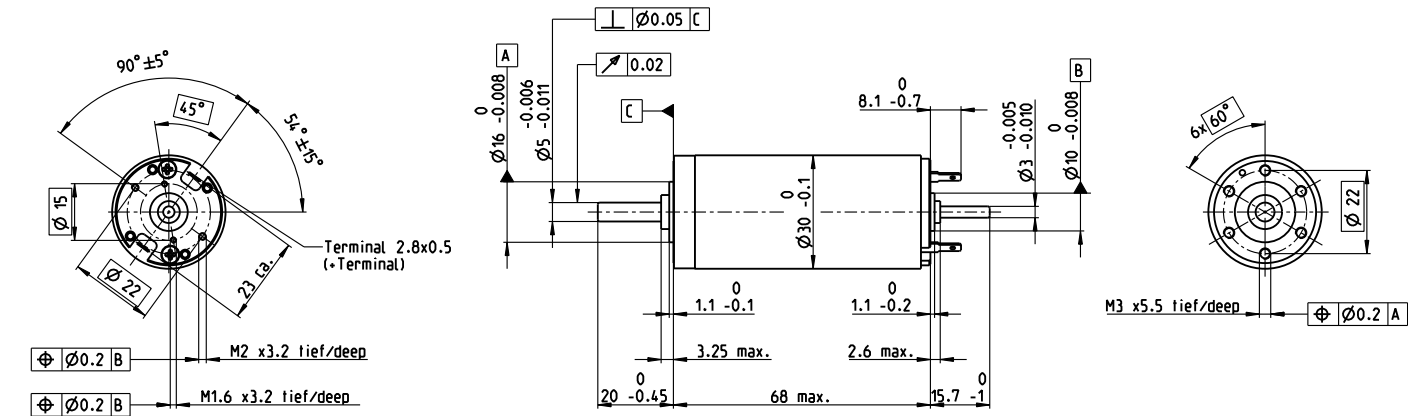


RE 30 Ø30 mm, precious metal brushes, 15 watt

RE



M 1:2

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

Part numbers				
448593	448594	448595	448596	

Motor data (provisional)		448593	448594	448595	448596
Values at nominal voltage					
1 Nominal voltage	V	6	9	12	18
2 No load speed	rpm	2870	3310	2870	3190
3 No load current	mA	41.6	33.4	20.8	15.9
4 Nominal speed	rpm	2450	2870	2420	2770
5 Nominal torque	mNm	53	53	53	53
6 Nominal current (max. continuous current)	A	2.7	2.08	1.35	1
7 Stall torque	mNm	364	402	342	401
8 Stall current	A	18.3	15.5	8.58	7.45
9 Max. efficiency	%	90	91	90	91
Characteristics					
10 Terminal resistance	Ω	0.378	0.63	1.45	2.47
11 Terminal inductance	mH	0.07	0.119	0.281	0.513
12 Torque constant	mNm/A	19.9	25.9	39.8	53.8
13 Speed constant	rpm/V	479	369	240	178
14 Speed / torque gradient	rpm/mNm	9.1	8.97	8.71	8.14
15 Mechanical time constant	ms	3.42	3.14	3.02	2.96
16 Rotor inertia	gcm ²	35.9	33.5	33.1	34.7

Specifications	Operating range	Comments
Thermal data 17 Thermal resistance housing-ambient 6 K/W 18 Thermal resistance winding-housing 1.7 K/W 19 Thermal time constant winding 16.9 s 20 Thermal time constant motor 593 s 21 Ambient temperature -20...+85°C 22 Max. winding temperature +100°C	n [rpm] M [mNm] I [A]	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 3300 rpm 24 Axial play at axial load 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	Gear 428_GP 32 A	Sensor 506_ENX 32 IMR 535_Encoder HEDS 5540 537_Encoder HEDL 5540	Motor Control 550_ESCON Module 24/2 550_ESCON 36/2 DC 551_ESCON Module 50/5 553_ESCON 50/5 557_ESCON2 Nano 24/2 557_ESCON2 Micro 60/5 563_EPOS4 Micro 24/5 564_EPOS4 Module 24/1.5 564_EPOS4 Module 50/5 565_EPOS4 Compact 24/5 3-axes 566_EPOS4 Compact 24/1.5 567_EPOS4 Compact 50/5 569_EPOS4 50/5		
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 94.

Option
Preloaded ball bearings