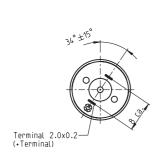
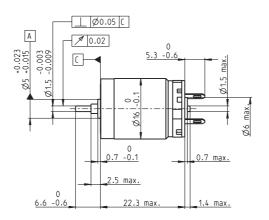
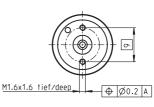
RE 16 Ø16 mm, Precious Metal Brushes CLL, 2 Watt







M 1:1

Stock program Standard program Special program (on request)			Numb							
Motor Data		320173	320174	320175	320176	320177	320178	320179		
Motor Data										
Values at nominal voltage										
1 Nominal voltage	V		3	6	9	12	18	24		
2 No load speed	rpm		8340	8490	8230	8090	7940	7760		
3 No load current	mA		21.4	11	7.02	5.81	3.35	2.44		
4 Nominal speed	rpm	6250	4830	4850	4590	4350	4140	3850		
5 Nominal torque (max. continuous torque)	mNm	1.42	2.38	2.38	2.38	2.29	2.28	2.22		
6 Nominal current (max. continuous current) A	0.72	0.72	0.366	0.237	0.169	0.11	0.0783		
7 Stall torque	mNm	5.46	5.55	5.55	5.4	5.01	4.81	4.45		
8 Starting current	Α	2.65	1.64	0.833	0.524	0.359	0.226	0.153		
9 Max. efficiency	%	79	79	79	79	77	77	77		
Characteristics										
10 Terminal resistance	Ω	0.679	1.83	7.2	17.2	33.4	79.8	157		
11 Terminal inductance	mH	0.0168	0.0456	0.176	0.421	0.77	1.8	3.35		
12 Torque constant	mNm/A	2.06	3.39	6.66	10.3	13.9	21.3	29.1		
13 Speed constant	rpm/V	4640	2810	1430	927	685	448	328		
14 Speed / torque gradient	rpm/mNm		1520	1550	1550	1640	1680	1770		
15 Mechanical time constant	ms	10.4	9.97	9.87	9.87	9.98	9.92	10.1		
40 Determinentie	2			0.000	0.01	0.50	0.505	0.540		

gcm² 0.65 0.626 0.609 0.61 0.58 0.565 0.546 16 Rotor inertia **Specifications Operating Range** Comments Thermal data n [rpm] 40.6 K/W Thermal resistance housing-ambient 2.0 W In observation of above listed thermal resistance 12000 Thermal resistance winding-housing 9.5 K/W (lines 17 and 18) the maximum permissible winding 320175 19 Thermal time constant winding 5.33 stemperature will be reached during continuous op-20 Thermal time constant motor 268 s 8000 eration at 25°C ambient. Ambient temperature -20...+65°C = Thermal limit. 22 Max. permissible winding temperature +85°C 4000 Mechanical data (sleeve bearings) Short term operation Max. permissible speed 11000 rpm The motor may be briefly overloaded (recurring). 0.05 - 0.15 mm 24 Axial play Radial play 0.014 mm 3.0 M [mNm] 26 Max. axial load (dynamic) 27 Max. force for press fits (static) 28 Max. radial load, 5 mm from flange 0.8 N Assigned power rating 0.2 0.3 0.4 15 N 1.5 N Other specifications 29 Number of pole pairs 30 Number of commutator segments maxon Modular System Overview on page 20-25 **Planetary Gearhead Encoder MR** Weight of motor 21 g Ø16 mm 32 CPT, CLL = Capacitor Long Life 0.1 - 0.3 Nm Page 254 2/3 channels Page 315 Values listed in the table are nominal. Planetary Gearhead Encoder MR 128 / 256 / 512 CPT, Explanation of the figures on page 79. Ø16 mm 0.2 - 0.6 Nm 2/3 channels Page 255 Page 317 Spindle Drive ∅16 mm Page 296-298 Recommended Electronics: ESCON 36/2 DC Page 34 ESCON Module 50/5 343 ESCON 50/5 EPOS2 24/2 344 350 EPOS2 Module 36/2 350 EPOS3 70/10 EtherCAT MAXPOS 50/5 357 360 Notes