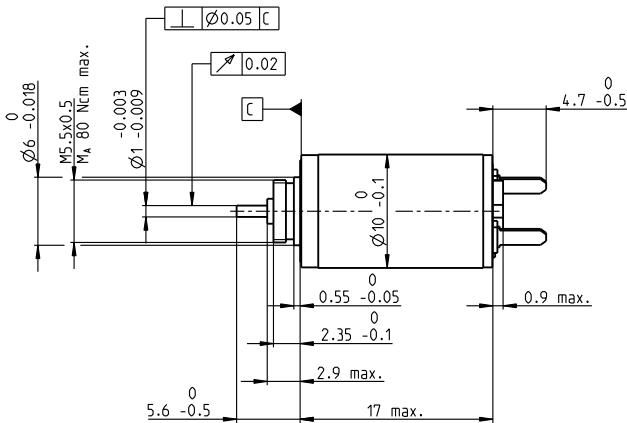
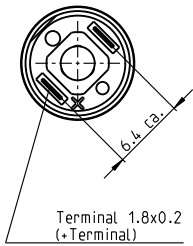


RE 10 Ø10 mm, precious metal brushes, 0.75 watt

RE



M 3:2

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

Part numbers										
118382	118383	118384	118385	118386	118387	118388	118389	118390	118391	

Motor data		118382	118383	118384	118385	118386	118387	118388	118389	118390	118391
Values at nominal voltage											
1 Nominal voltage	V	2.4	3	3.6	4.5	6	6	7.2	7.2	9	12
2 No load speed	rpm	10300	10400	9930	11300	13000	11400	11700	10600	10700	11600
3 No load current	mA	16	12.8	10.1	9.52	8.51	7.18	6.22	5.46	4.44	3.68
4 Nominal speed	rpm	1610	1970	1500	2950	4670	3150	3340	1860	2000	2790
5 Nominal torque	mNm	0.757	0.789	0.784	0.787	0.784	0.8	0.784	0.757	0.757	0.746
6 Nominal current (max. continuous current)	A	0.367	0.306	0.243	0.222	0.19	0.17	0.143	0.125	0.101	0.081
7 Stall torque	mNm	0.924	1	0.949	1.09	1.25	1.13	1.12	0.944	0.957	1.01
8 Stall current	A	0.432	0.375	0.284	0.297	0.292	0.232	0.198	0.15	0.123	0.106
9 Max. efficiency	%	66	67	66	68	69	68	68	66	66	67
Characteristics											
10 Terminal resistance	Ω	5.55	8	12.7	15.2	20.6	25.8	36.4	47.9	72.9	114
11 Terminal inductance	mH	0.046	0.072	0.112	0.136	0.184	0.24	0.325	0.398	0.605	0.92
12 Torque constant	mNm/A	2.14	2.67	3.34	3.67	4.27	4.88	5.68	6.28	7.75	9.55
13 Speed constant	rpm/V	4470	3570	2860	2600	2230	1960	1680	1520	1230	1000
14 Speed/torque gradient	rpm/mNm	11600	10700	10800	10700	10700	10400	10800	11600	11600	11900
15 Mechanical time constant	ms	8.15	8.11	8.14	8.09	8.09	8.03	8.13	8.26	8.25	8.34
16 Rotor inertia	gcm ²	0.0671	0.0723	0.0717	0.0719	0.0719	0.0739	0.0719	0.068	0.068	0.0669

Specifications

Thermal data

17 Thermal resistance housing-ambient 45.5 K/W

18 Thermal resistance winding-housing 19.5 K/W

19 Thermal time constant winding 3.66 s

20 Thermal time constant motor 119 s

21 Ambient temperature -20...+65°C

22 Max. winding temperature +85°C

Mechanical data (sleeve bearings)

23 Max. speed 19 000 rpm

24 Axial play 0.05 - 0.15 mm

25 Radial play 0.012 mm

26 Max. axial load (dynamic) 0.15 N

27 Max. force for press fits (static) 15 N

28 Max. radial load, 4 mm from flange 0.4 N

Other specifications

29 Number of pole pairs 1

30 Number of commutator segments 7

31 Weight of motor 7 g

Values listed in the table are nominal.
Explanation of the figures on page 94.

Operating range

n [rpm]

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

1	Modular system	Details on catalog page 48
7	Gear	
7 g	414_GP 10 A	
	Motor Control	
	550_ESCON Module 24/2	
	550_ESCON 36/2 DC	
	557_ESCON2 Nano 24/2	