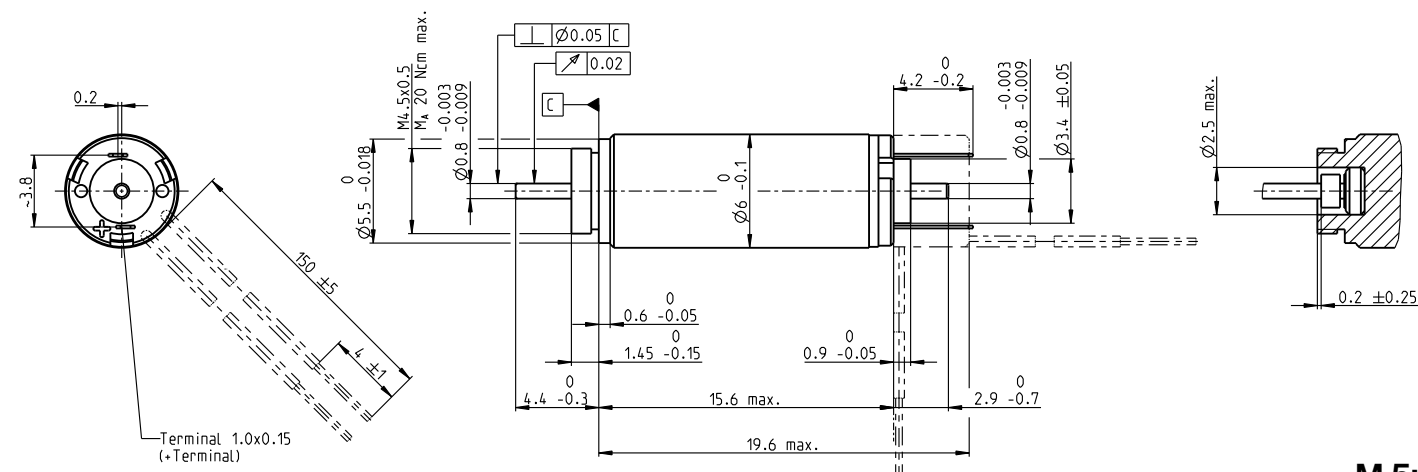


RE 6 Ø6 mm, precious metal brushes, 0.3 watt



RE

M 5:2

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

Part numbers

	B with cables	386780	386781	386782	386783
A with terminals		349189	349190	349191	349192

Motor data					
Values at nominal voltage					
1 Nominal voltage	V	1.5	3	4.5	6
2 No load speed	rpm	18500	18600	18600	18600
3 No load current	mA	42.6	21.3	14.2	10.7
4 Nominal speed	rpm	4680	5670	5400	5340
5 Nominal torque	mNm	0.302	0.324	0.318	0.316
6 Nominal current (max. continuous current)	A	0.453	0.242	0.158	0.118
7 Stall torque	mNm	0.419	0.485	0.469	0.465
8 Stall current	A	0.581	0.336	0.217	0.161
9 Max. efficiency	%	54	56	56	56
Characteristics					
10 Terminal resistance	Ω	2.58	8.92	20.8	37.2
11 Terminal inductance	mH	0.023	0.091	0.204	0.363
12 Torque constant	mNm/A	0.72	1.44	2.16	2.88
13 Speed constant	rpm/V	13300	6630	4420	3310
14 Speed/torque gradient	rpm/mNm	47500	41000	42400	42700
15 Mechanical time constant	ms	7.45	7.18	7.24	7.24
16 Rotor inertia	gcm ²	0.015	0.0167	0.0163	0.0162

Specifications	Operating range	Comments
Thermal data	The graph shows the operating range for the motor at a power rating of 0.3 W. The y-axis represents speed n in rpm, ranging from 4000 to 24000. The x-axis represents torque M in mNm, ranging from 0.1 to 0.3. A secondary x-axis represents current I in A, ranging from 0.1 to 0.3. The graph shows a red shaded area representing the continuous operation range, bounded by a curve that starts at approximately 24000 rpm and 0.1 mNm, and ends at approximately 4000 rpm and 0.3 mNm. A label '0.3 W' is placed near the curve. A box labeled '349190' is also present.	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.
17 Thermal resistance housing-ambient		
18 Thermal resistance winding-housing		
19 Thermal time constant winding		
20 Thermal time constant motor		
21 Ambient temperature		
22 Max. winding temperature		
Mechanical data (sleeve bearings)		
23 Max. speed		
24 Axial play		
25 Radial play		
26 Max. axial load (dynamic)		
27 Max. force for press fits (static)		
28 Max. radial load, 4 mm from flange		

Other specifications	Modular system	Details on catalog page 48
29 Number of pole pairs	1	Motor Control 550_ESCON Module 24/2 550_ESCON 36/2 DC 557_ESCON2 Nano 24/2
30 Number of commutator segments	5	
31 Weight of motor	2.3 g	
Values listed in the table are nominal. Explanation of the figures on page 94.		