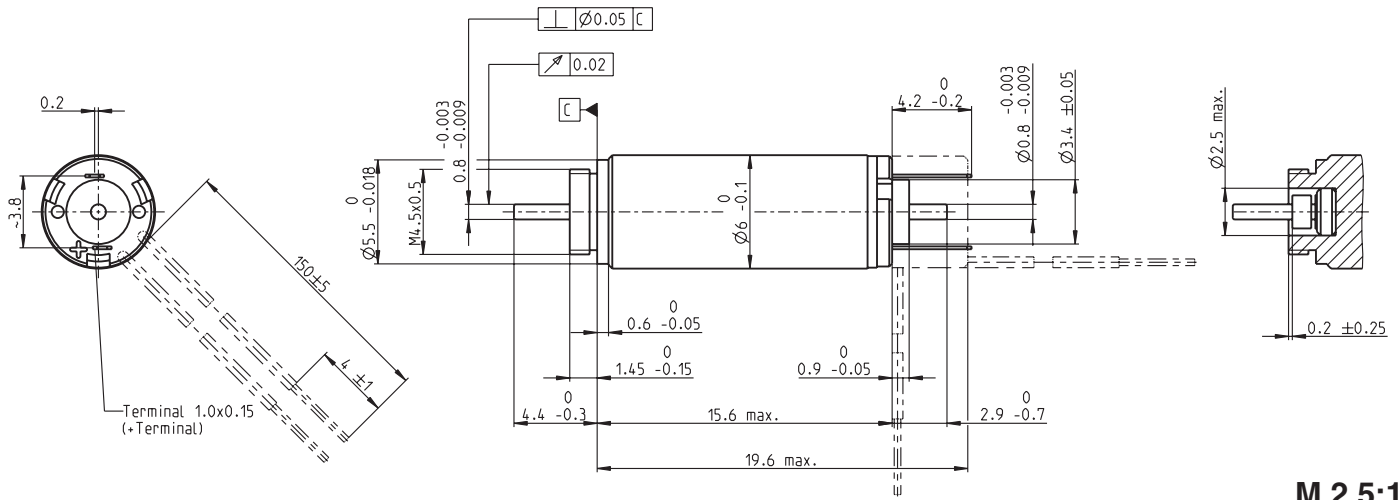


RE 6 $\varnothing 6$ mm, Precious Metal Brushes, 0.3 Watt



M 2.5:1

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

Order Number

with cables
with terminals

386780	386781	386782	386783
349189	349190	349191	349192

Motor Data

Values at nominal voltage						
1	Nominal voltage	V	1.5	3.0	4.5	6.0
2	No load speed	rpm	18400	18600	18600	18600
3	No load current	mA	42.6	21.3	14.2	10.7
4	Nominal speed	rpm	4520	5630	5380	5330
5	Nominal torque (max. continuous torque)	mNm	0.299	0.323	0.317	0.316
6	Nominal current (max. continuous current)	A	0.449	0.241	0.158	0.118
7	Stall torque	mNm	0.419	0.485	0.469	0.465
8	Starting current	A	0.581	0.336	0.217	0.161
9	Max. efficiency	%	54	57	56	56
Characteristics						
10	Terminal resistance	Ω	2.58	8.92	20.8	37.2
11	Terminal inductance	mH	0.0227	0.0907	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

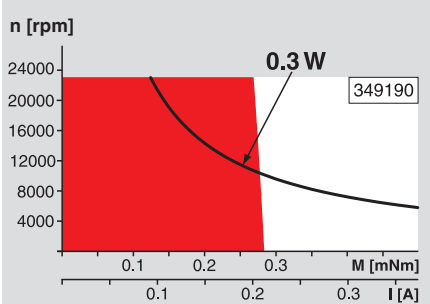
Specifications

Thermal data	
17	Thermal resistance housing-ambient 77 K / W
18	Thermal resistance winding-housing 16.2 K / W
19	Thermal time constant winding 1.39 s
20	Thermal time constant motor 16.3 s
21	Ambient temperature -20 ... +65°C
22	Max. permissible winding temperature +85°C
Mechanical data (sleeve bearings)	
23	Max. permissible speed 23000 rpm
24	Axial play 0.02 - 0.1 mm
25	Radial play 0.012 mm
26	Max. axial load (dynamic) 0.15 N
27	Max. force for press fits (static) 10 N
28	Max. radial loading, 4 mm from flange 0.6 N

Other specifications	
29	Number of pole pairs 1
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 49.

Operating Range



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**

maxon Modular System

Overview on page 16 - 21

Planetary Gearhead
 $\varnothing 6$ mm
0.002 - 0.03 Nm
Page 202

