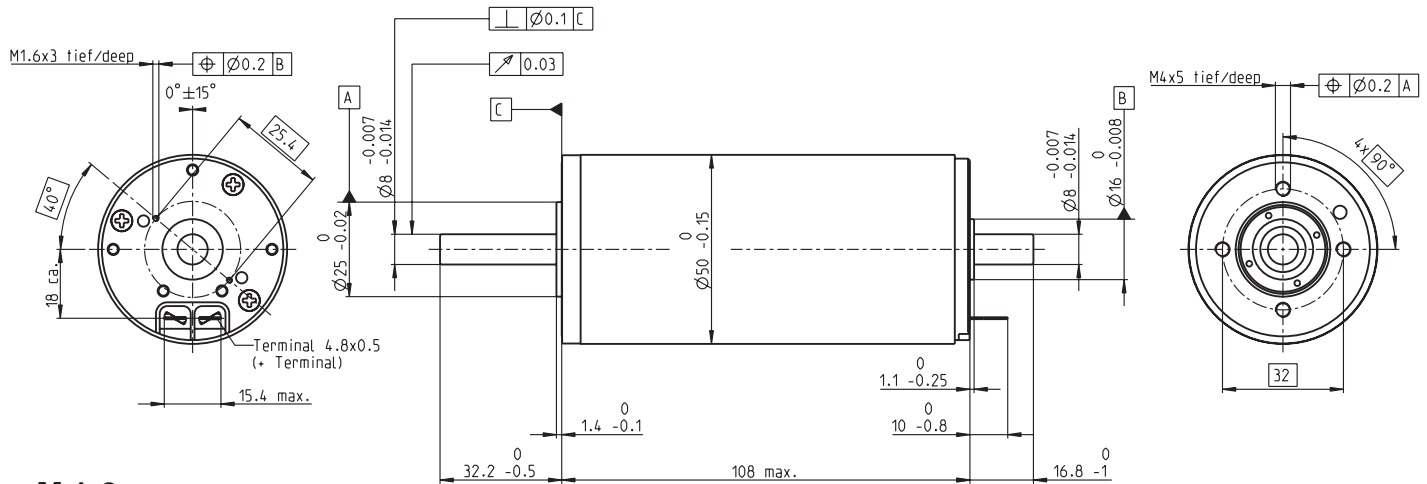


RE 50 Ø50 mm, Graphite Brushes, 200 Watt



M 1:2

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

Part Numbers

370354	370355	370356	370357
389089	389090	389091	389092

Industrial Version IP54*

Motor Data

Values at nominal voltage													
1	Nominal voltage	V	24	36	48	70							
2	No load speed	rpm	5950	5680	4900	2760							
3	No load current	mA	236	147	88.4	27.4							
4	Nominal speed	rpm	5680	5420	4620	2470							
5	Nominal torque (max. continuous torque)	mNm	405	418	420	452							
6	Nominal current (max. continuous current)	A	10.8	7.07	4.58	1.89							
7	Stall torque	mNm	8920	8920	7370	4340							
8	Starting current	A	232	148	78.9	17.9							
9	Max. efficiency	%	94	94	94	92							
Characteristics													
10	Terminal resistance	Ω	0.103	0.244	0.608	3.9							
11	Terminal inductance	mH	0.0717	0.177	0.423	2.83							
12	Torque constant	mNm/A	38.5	60.4	93.4	242							
13	Speed constant	rpm/V	248	158	102	39.5							
14	Speed / torque gradient	rpm/mNm	0.668	0.638	0.666	0.638							
15	Mechanical time constant	ms	3.75	3.74	3.78	3.74							
16	Rotor inertia	gcm ²	536	560	542	560							

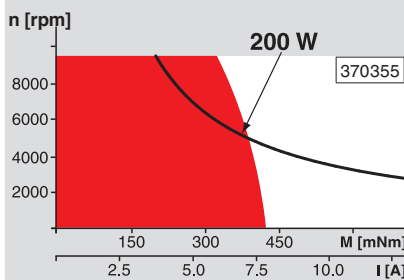
Specifications

Thermal data		
17	Thermal resistance housing-ambient	3.8 K/W
18	Thermal resistance winding-housing	1.2 K/W
19	Thermal time constant winding	71.7 s
20	Thermal time constant motor	1370 s
21	Ambient temperature	-30...+100°C
22	Max. permissible winding temperature	+125°C
Mechanical data (preloaded ball bearings)		
23	Max. permissible speed	9500 rpm
24	Axial play at axial load < 11.5 N	0 mm
	> 11.5 N	0.1 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	30 N
27	Max. force for press fits (static) (static, shaft supported)	150 N
28	Max. radial load, 15 mm from flange	6000 N
		110 N
Other specifications		
29	Number of pole pairs	1
30	Number of commutator segments	15
31	Weight of motor	1100 g

Values listed in the table are nominal.
Explanation of the figures on page 79.

- * Industrial version with radial shaft seal ring (resulting in increased no load current).
- IP54 protection only if mounted on brush side, in compliance with maxon modular system.

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 20–25

