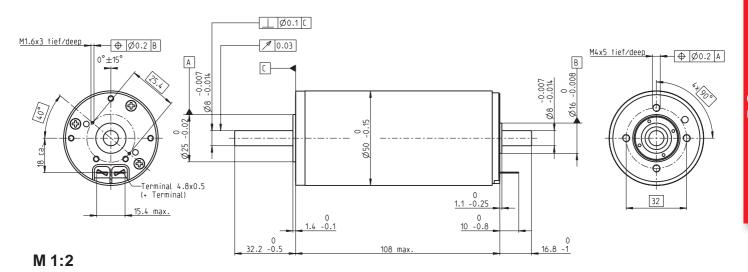
## RE 50 Ø50 mm, Graphite Brushes, 200 Watt



Stock program

Standard program

Special program (on request)									
		370354	370355	370356	370357				
Industrial Version IP54*		389089	389090	389091	389092				
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 Stall current	Α	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	0.072	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 <sup>2</sup>	536	560	542	560				

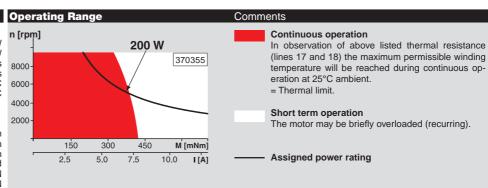
**Part Numbers** 

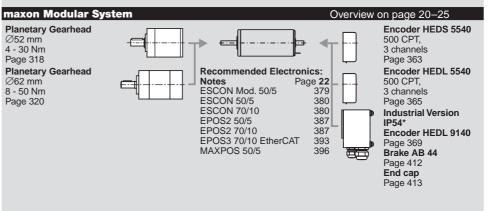
## **Specifications** Thermal data 3.8 K/W Thermal resistance housing-ambient Thermal resistance winding-housing 1.2 K/W 19 Thermal time constant winding 71.7 s 20 Thermal time constant motor 1370 s Ambient temperature -30...+100°C 22 Max. winding temperature +125°C Mechanical data (preloaded ball bearings)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

Explanation of the figures on page 107.

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.





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