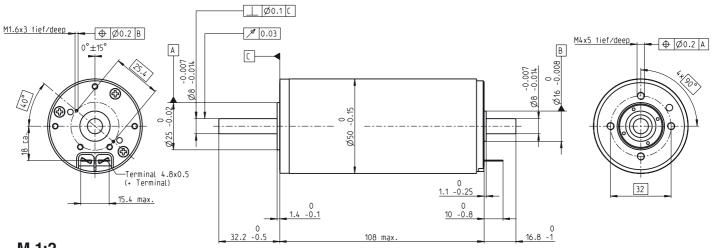
## RE 50 Ø50 mm, Graphite Brushes, 200 Watt



M 1:2

**Specifications** 

Stock program Standard program

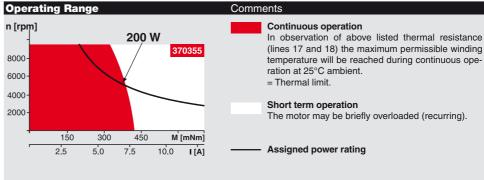
**Article Numbers** Special program (on request)

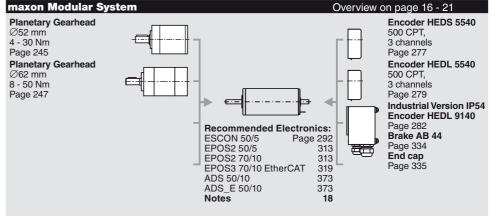
		370354	370355	370356	370357				
Motor Data									
Values at nominal voltage									
1 Nominal voltage	V	24	36	48	70				
2 No load speed	rpm	5950	5680	4900	2760				
3 No load current	mA	236	147	88.4	27.4				
4 Nominal speed	rpm	5680	5420	4620	2470				
5 Nominal torque (max. continuous torque)	mNm	405	418	420	452				
6 Nominal current (max. continuous current)	Α	10.8	7.07	4.58	1.89				
7 Stall torque	mNm	8920	8920	7370	4340				
8 Starting 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	0.0717	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 <sup>2</sup>	536	560	542	560				

## Thermal data Thermal resistance housing-ambient 3.8 K/W 1.2 K/W 71.7 s Thermal resistance winding-housing 19 Thermal time constant winding Thermal time constant motor 1370 s 20 -30...+100°C Ambient temperature 22 Max. permissible winding temperature +125°C Mechanical data (preloaded ball bearings) 9500 rpm 23 Max. permissible speed 24 Axial play at axial load < 11.5 N0 mm 0.1 mm > 11.5 N 25 Radial play26 Max. axial load (dynamic)27 Max. force for press fits (static) 0.03 mm 30 N 150 N (static, shaft supported) 6000 N 28 Max. radial loading, 15 mm from flange 110 N Other specifications 29 Number of pole pairs30 Number of commutator segments 15 Weight of motor 1100 g Values listed in the table are nominal. Explanation of the figures on page 49.

Industrial version with radial shaft seal ring

(resulting in increased no-load current)





maxon DC motor 83 May 2012 edition / subject to change