

maxon DC motor



Part Numbers

370354	370355	370356	370357
389089	389090	389091	389092

Specifications

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. winding temperature	+125°C

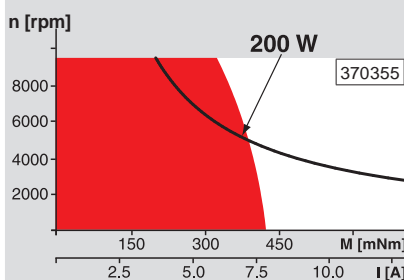
23	Max. speed	9500 rpm
24	Axial play at axial load	0 mm
	< 11.5 N	0.1 mm
	> 11.5 N	preloaded
25	Radial play	
26	Max. axial load (dynamic)	30 N
27	Max. force for press fits (static)	150 N
	(static, shaft supported)	6000 N
28	Max. radial load, 15 mm from flange	110 N

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 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.

Comments

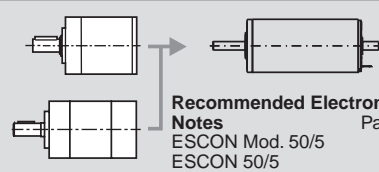
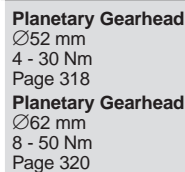


Continuous operation
In observation of above listed thermal resistance (lines 17 and 18) the maximum permissible winding temperature will be reached during continuous operation at 25°C ambient.
= Thermal limit.

Short term operation
The motor may be briefly overloaded (recurring).

— Assigned power rating

Overview on page 20–25



Encoder HEDS 5540
500 CPT,
3 channels
Page 363

Encoder HEDL 5540
500 CPT,
3 channels
Page 365

**Industrial Version
IP54***

Encoder HEDL 9140
Page 369

Brake AB 44
Page 412

End cap
Page 413