

Part Numbers

167176	167177	118894	118895	167178	167179	118896	118897	167180	118898	167181	167183	118899	118901
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[illegible]

Thermal data		
17	Thermal resistance housing-ambient	3.2 K/W
18	Thermal resistance winding-housing	1.2 K/W
19	Thermal time constant winding	17.1 s
20	Thermal time constant motor	1050 s
21	Ambient temperature	-20...+100°C
22	Max. permissible winding temperature	+125°C

23	Max. permissible speed	18000 rpm
24	Axial play at axial load	0 mm
	< 8 N	
	> 8 N	max. 0.14 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	7 N
27	Max. force for press fits (static)	133 N
	(static, shaft supported)	5000 N
28	Max. radial loading, 5 mm from flange	70 N

29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	390 g

Values listed in the table are nominal.
Explanation of the figures on page 161

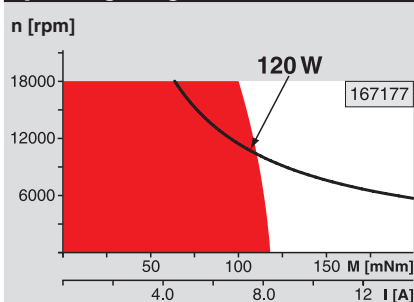
red	Motor winding 1
black	Motor winding 2
white	Motor winding 3

green	VHall 4.5 ... 24 VDC
blue	GND
red/grey	Hall sensor 1
black/grey	Hall sensor 2
white/grey	Hall sensor 3

Wiring diagram for Hall sensors see p. 35

- 1) Not lead through in combination with resolver.

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

