



- Order Number**

### Specifications

- Axial play at axial load
 

< 0.15 N	0 mm
> 0.15 N	max. 0.06 mm
- Preloaded **ball bearings**  
Preload strength min. 0.15 N
- Max. **ball bearing** loads
 

axial (dynamic)	0.1 N
radial (2 mm from flange)	8 N
Force for press fits (static)	10 N
- Radial play **ball bearing** 0.01 mm
- Ambient temperature range -20 ... +100°C
- Max. permissible winding temperature +125°C
- Weight of motor 2.8 g
- 2 pole permanent magnet
- Values listed in the table are nominal.
- Connection**

Pin 1	Motor winding 3
Pin 2	Motor winding 2
Pin 3	Hall sensor 3
Pin 4	V <sub>Hall</sub> 4.5 ... 12 VDC
Pin 5	GND
Pin 6	Hall sensor 1
Pin 7	Hall sensor 2
Pin 8	Motor winding 1

Connector for Flexprint Berg 87768-108  
FPC, 8 pole, pitch 0.5 mm, top contact style

- For wiring diagram for Hall sensors, see p. 26
- Sterilisable version on request

### Operating Range

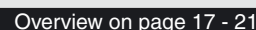
**1.2 Watt**

**Curve of constant assigned power rating**

**Continuous operation**  
In observation of above listed thermal resistances (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).

Motor Type	Current I [A]	Torque M [mNm]
215551 (High resistance)	0.02	100000
215550 (Low resistance)	0.1	40000
215550 (Low resistance)	0.15	30000



**Recommended Electronics:**  
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