

Brushless 3-Phase DC Motor



Features

- Fluid dynamic bearing technology
- Low noise, sound power overall max. 20 dB(A) re 1 pW
- Low vibration
- Low NRRO < 40 nm
- Wobble error < 3"
- Run out rotor
 - axial: < 10 μm
 - radial: < 10 μm
- Static imbalance < 35 mg · cm



General Information

Mounting position: arbitrary

Bearing system: FDB (Fluid Dynamic Bearing)

Torque constant kt: 8.95 mN · m/A

Motor weight: max. 70 g

Polar rotor inertia: $4.6 \times 10^{-6} \text{ kg} \cdot \text{m}^2$

Temperature range:

operating: -40 °C to +105 °C**

non operating: -40 °C to +105 °C**

Direction of rotation: CCW only

Number of poles/slot: 8/12

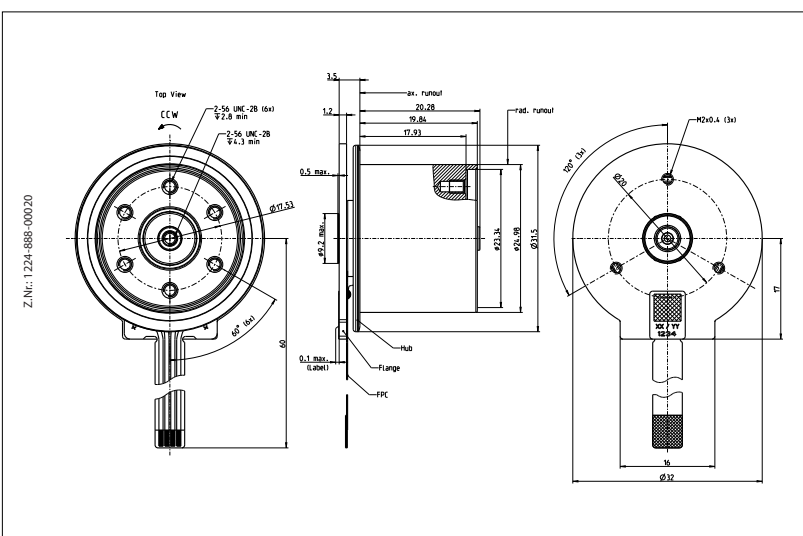
Speed range: 1000 - 12000 rpm**

Recommended load: < 180 g**

Specifications

Rated Voltage* [v]	Rated Speed* [rpm]	Power at Rated Speed [w]	Friction Torque at Rated Speed [mNm]	Current at Rated Speed [without load]
7	7200	1.49	1.97	0.22

Dimensions



Options

Integrated drive electronic: No

Planetary gearbox: No

Sensorless operation: Yes

*These parameters are just example values at 23 °C. They depend on individual requirements and electronics used.

**Operating conditions and load depending on specific application requirements.