

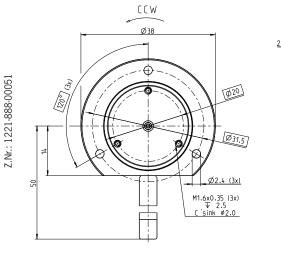


BLDC FDB DTOV

Brushless 3 – Phase DC Motor – Small Form Factor

Rated Voltage*	Rated Speed*	Power at rated speed	Friction torque at rated speed	Current at rated Speed (without load)
[V]	[rpm]	[W]	[mNm]	[A]
5	6400	0.277	0.413	0.146

^{*}The specification for Rated Voltage and Rated Speed are just example values. These parameters are depending on customer requirements and electronics. The Speed Range is also depending on the rotor mass, temperature and center of gravity.



2.4 4.45 Lub Flange FPC

Features

Fluid dynamic bearing technology
 low noise < sound power overall</p>
 max 20 dB(A) re 1 pW
 low vibration
 low runout (NRRO < 60 nm)</p>
 wobble error < 3"</p>

• Run out rotor

axial: $< 12 \mu m$ radial: $< 5 \mu m$

• Static imbalance $< 10 \text{ mg} \cdot \text{cm}$

General information

• Mounting position: arbitrary

• Bearing system: FDB (Fluid Dynamic Bearing)

• Torque Constant Kt: 2.83 mN \cdot m/A • Weight: 0.017 kg

• Polar Rotor Inertia: $7.9 \cdot 10^{-7} \ \text{kg} \cdot \text{m}^2$ • Temperature Range:

operating: $-20 \,^{\circ}\text{C}$ to $+70 \,^{\circ}\text{C}$ non operating: $-40 \,^{\circ}\text{C}$ to $+70 \,^{\circ}\text{C}$

Direction of Rotation: CCWNumber of Poles/Slot: 12/9

• Speed range: 3000 - 10000 rpm*

Options

Integrated Drive Electronic: NoPlanetary Gearbox: NoSensorless Operation: Yes





MinebeaMitsumi Passion to Create Value through Difference

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