



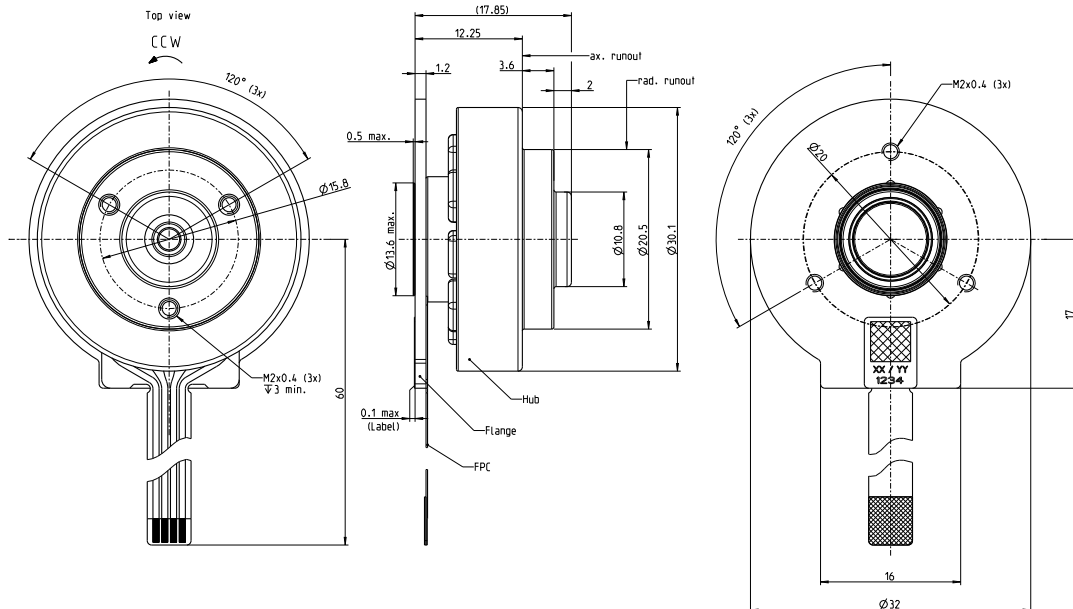
BLDC FDB SP2

Brushless 3 – Phase DC Motor

Rated voltage* [V]	Rated speed* [rpm]	Power at rated speed [W]	Friction torque at rated speed [mNm]	Current at rated speed (without load) [A]
5	3600	0.45	1.19	0.18

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

Z.Nr.: 1224-888-00052



General information

- Mounting position: arbitrary
- Bearing system: FDB (Fluid Dynamic Bearing)
- Torque constant kt: 6.6 mN · m/A
- Motor weight: max. 45 g
- Polar rotor inertia: $1.4 \cdot 10^{-6} \text{ kg} \cdot \text{m}^2$
- Temperature range:
 - operating: -40 °C to +105 °C**
 - non operating: -40 °C to +105 °C**
- Direction of rotation: CCW only
- Number of poles/slot: 12/9
- Speed range: 1000 - 12000 rpm**
- Recommended load: < 100 g**

Options

- Integrated drive electronic: No
- Planetary gearbox: No
- Sensorless operation: Yes

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

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

