

# EFB0412HHD-R00 Delta 12VDC 40x40x20mm Alarm Sensor Axial Fan Datasheet



**Brand:** Delta

**SKU:** [688419971590](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$11.99**

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Product Page:

<https://www.equipspares.com/product/efb0412hhd-r00-delta-12vdc-40x40x20mm-alarm-sensor-axial-fan>

## Product Description

The Delta EFB0412HHD-R00 is a high-efficiency DC Axial Fan engineered for precision thermal management in compact electronic assemblies. Utilizing advanced brushless DC motor technology coupled with a robust Two Ball Bearing architecture, this unit delivers exceptional rotational stability and extended service life under continuous operation. The aerodynamic impeller design is optimized to maximize static pressure while maintaining structural rigidity, effectively reducing thermal impedance in high-density environments. Equipped with an integrated R00 Rotation Detector (Locked Rotor Sensor), the fan provides critical operational feedback, ensuring system reliability by alerting controllers to mechanical faults or obstructions.

Model Number: EFB0412HHD-R00

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.15 A

Power Input: 1.80 W

Rated Speed: 8200 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 9.43 CFM (16.02 m<sup>3</sup>/h / 0.26 m<sup>3</sup>/min)

Max. Static Pressure: 7.15 mmH<sub>2</sub>O (70.12 Pa / 0.28 inH<sub>2</sub>O)

Dimensions: 40x40x20 mm

Weight: 33 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 30.5 dB-A

Sensor Output: R00 (Rotation Detector / Locked Rotor Alarm)

Wire Configuration: 3-Wire

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Protection: Locked Rotor Protection, Polarity Protection

Ingress Protection: IP Rating Optional (Standard IP20)

The EFB0412HHD-R00 is widely utilized in mission-critical hardware requiring reliable forced air cooling, such as 1U server racks, network switches, and telecommunications infrastructure. Its compact footprint makes it an ideal choice for medical diagnostic devices and industrial automation controllers where space is at a premium. Additionally, the EFB0412HHD-R00 serves effectively in CNC control panels and embedded systems, preventing thermal throttling and ensuring component longevity through consistent heat dissipation.

## Supplemental Images

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