

EFB0412VHD-R00 Delta 12VDC 40x40x20mm Alarm Axial Fan Datasheet



Brand: Delta

SKU: 822487719974

Category: Axial & Centrifugal Fans

Price: \$7.99

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/efb0412vhd-r00-delta-12vdc-40x40x20mm-alarm-axial-fan>

Product Description

The Delta EFB0412VHD-R00 is a high-efficiency Axial Fan engineered for critical thermal management in compact industrial and networking enclosures. Utilizing a robust DC brushless motor architecture integrated with a precision dual ball bearing system, this unit is designed to minimize frictional losses and maximize rotational stability over extended operational lifecycles. The impeller geometry is optimized to lower thermal impedance while maintaining significant structural rigidity at high speeds, ensuring consistent airflow delivery against moderate static pressure resistance. This specific model incorporates an R00 rotation detector (alarm sensor), providing essential feedback for system monitoring protocols.

Model Number: EFB0412VHD-R00

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.18 A

Power: 2.16 W

Rated Speed: 9000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 10.10 CFM (17.16 m³/h / 0.28 m³/min)

Max. Static Pressure: 7.48 mmH₂O (73.35 Pa / 0.29 inH₂O)

Dimensions: 40 x 40 x 20 mm

Weight: 33 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 32.5 dBA

Speed Control: R00 Sensor (Rotation Detector/Alarm)

Ingress Protection: IP50

Insulation Class: Class A

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Termination: 3-Wire Lead (Red +, Black -, Blue Signal)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Protection Features: Reverse Polarity, Locked Rotor Protection

Certifications: UL, cUL, TUV, VDE, CE

The EFB0412VHD-R00 is predominantly utilized in high-density networking hardware, including network switches, routers, and blade servers where component density restricts airflow paths. Due to its compact 40mm footprint and integrated alarm signal, the EFB0412VHD-R00 is also a critical component in industrial automation controllers, variable frequency drives, and medical diagnostic equipment. System integrators rely on this model for applications requiring fail-safe cooling mechanisms, as the rotation detection feature allows for immediate system alerts or shutdown procedures in the event of fan obstruction.

Supplemental Images

