

EFB0412HHD-X06 Delta 12VDC 40x40x20mm PWM Axial Fan Datasheet



Brand: Delta

SKU: [933462557114](#)

Category: Axial & Centrifugal Fans

Price: **\$10.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/efb0412hhd-x06-delta-12vdc-40x40x20mm-pwm-axial-fan>

Product Description

The Delta EFB0412HHD-X06 is a precision-engineered DC axial fan designed for high-density electronic environments requiring superior thermal impedance management. Utilizing advanced aerodynamic blade geometry, this unit optimizes airflow efficiency while maintaining structural rigidity under high rotational speeds. The motor assembly integrates a durable two-ball bearing system, ensuring long-term reliability and reduced frictional coefficients. Engineered with a 4-wire PWM control interface, it allows for dynamic speed modulation, balancing acoustic performance with thermal dissipation requirements. The housing is constructed from UL94V-0 rated thermoplastic, providing essential fire resistance and mechanical stability for critical industrial and computing applications.

Model Number: EFB0412HHD-X06

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.15 A

Power: 1.80 W

Rated Speed: 8200 RPM

Bearing Type: Two Ball Bearing

Max. Air Flow: 9.43 CFM (16.0 m³/h / 0.26 m³/min)
Max. Static Pressure: 7.30 mmH₂O (71.5 Pa / 0.29 inH₂O)
Dimensions: 40x40x20mm
Weight: 33 g
Life Expectancy: 70,000 Hours at 40°C
Speed Control: PWM (Pulse Width Modulation)
Signal Output: Tachometer (Frequency Generator)
Noise Level: 30.5 dB-A
Housing Material: PBT Plastic (UL94V-0)
Impeller Material: PBT Plastic (UL94V-0)
Termination: 4-Wire Leads (+, -, Sensor, PWM)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +75°C
Protection: Locked Rotor Protection, Polarity Protection
Certifications: UL, cUL, TUV, CE

Designed for compact thermal solutions, the EFB0412HHD-X06 excels in environments where space is limited but high static pressure is required. Common deployments include 1U server rack cooling, industrial automation control panels, and precision medical instrumentation. The EFB0412HHD-X06 is also frequently utilized in network switches and modified motherboard cooling setups requiring 4-pin PWM regulation to manage heat in high-load computing tasks.

Supplemental Images

