

TFB0412EHN Delta 12VDC 40x40x28mm PWM Server Axial Fan Datasheet



Brand: Delta

SKU: [842373811238](#)

Category: Axial & Centrifugal Fans

Price: **\$17.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/tfb0412ehn-delta-12vdc-40x40x28mm-pwm-server-axial-fan>

Product Description

The Delta TFB0412EHN is a precision-engineered DC axial fan designed for mission-critical thermal management in high-density electronic enclosures. Utilizing advanced brushless DC motor technology and a robust ball bearing architecture, this unit delivers exceptional airflow-to-size ratios, characterized by high static pressure capabilities essential for overcoming system impedance. The aerodynamic impeller geometry is optimized to minimize thermal impedance while maintaining structural rigidity under high rotational velocities. Engineered for continuous operation, the TFB0412EHN integrates sophisticated commutation electronics to ensure stability and efficiency in demanding industrial environments.

Model Number: TFB0412EHN

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.87 A

Power: 10.44 W

Rated Speed: 15000 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 26.03 CFM (44.22 m³/h / 0.73 m³/min)

Max. Static Pressure: 1.76 inH₂O (44.7 mmH₂O / 438 Pa)

Dimensions: 40 x 40 x 28 mm

Weight: 46 g

Life Expectancy: 70000 hrs at 40°C

Speed Control: PWM (Pulse Width Modulation)

Wire Configuration: 4-Wire (Red, Black, Blue, Yellow)

Noise Level: 58.0 dB-A

Housing Material: Plastic (UL 94V-0)

Impeller Material: Plastic (UL 94V-0)

Operating Temperature: -10 to +70°C

Storage Temperature: -40 to +75°C

Ingress Protection: IP20

Insulation Class: Class A

Safety Protection: Locked Rotor Protection, Polarity Protection

The TFB0412EHN is specifically engineered for high-static pressure applications such as 1U server racks, industrial automation control panels, and compact telecommunications equipment. Its compact 40mm footprint allows for integration into dense circuit layouts where thermal dissipation is critical. The TFB0412EHN is also widely utilized in precision medical devices and CNC machinery cooling systems, ensuring reliable operation by effectively evacuating heat from sensitive components.

Supplemental Images

