

PFB0912DHE-BTJ Delta 12VDC 92x92x38mm PWM Axial Fan Datasheet



Brand: Delta

SKU: [949350794551](#)

Category: Axial & Centrifugal Fans

Price: **\$19.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/pfb0912dhe-btj-delta-12vdc-92x92x38mm-pwm-axial-fan>

Product Description

The Delta PFB0912DHE-BTJ is a high-performance axial cooling solution engineered for mission-critical thermal management in dense electronic environments. Utilizing advanced DC motor technology and a robust dual ball bearing architecture, this unit ensures exceptional structural rigidity and operational longevity under continuous high-speed rotation. The aerodynamic impeller design is specifically optimized to deliver massive airflow while maintaining high static pressure, effectively overcoming significant thermal impedance in restrictive enclosures. With a powerful 12VDC drive system drawing 3.72A, the PFB0912DHE-BTJ provides aggressive cooling performance, supported by precise PWM speed regulation to dynamically adjust to varying thermal loads and system requirements.

Model Number: PFB0912DHE-BTJ

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 8.0 - 13.2 VDC

Rated Current: 3.72 A

Power Consumption: 44.64 W

Rated Speed: 8000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 175.03 CFM (297.4 m³/h / 4.95 m³/min)

Max. Static Pressure: 32.83 mmH₂O (321.8 Pa / 1.29 inH₂O)

Dimensions: 92 x 92 x 38 mm

Weight: 250 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 66.5 dB-A

Speed Control: PWM (Pulse Width Modulation)

Signal Output: 4-Wire (Red +, Black -, Blue PWM, Yellow Tach)

Frame Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Operating Temperature: -10°C to +60°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP Rating Optional (Standard IP20)

Insulation Resistance: 10 Megohms Minimum at 500 VDC

Dielectric Strength: 500 VAC for 1 minute

Protection: Locked Rotor Protection, Polarity Protection

Designed for extreme performance environments, the PFB0912DHE-BTJ is frequently deployed in enterprise server racks, blade chassis, and telecommunications base stations where high backpressure is a critical factor. Its ability to force air through restrictive heatsinks makes it an ideal choice for industrial automation equipment and high-wattage power supply units. Additionally, the PFB0912DHE-BTJ is utilized in precision medical instrumentation and CNC machinery, ensuring component stability and preventing thermal throttling during peak processing loads.

Supplemental Images

