

PFB0824DHE-VCN Delta 24VDC 80x80x38mm PWM Axial Fan Datasheet



Brand: Delta

SKU: [1001318367154](#)

Category: Axial & Centrifugal Fans

Price: **\$37.99**

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Product Page:

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Product Description

The Delta PFB0824DHE-VCN is a high-static pressure axial fan engineered for mission-critical thermal management in dense industrial environments. Utilizing advanced DC motor technology coupled with a robust dual ball bearing architecture, this unit ensures exceptional structural rigidity and longevity under continuous operation. The aerodynamic impeller design is optimized to overcome high system impedance, delivering concentrated airflow with significant static pressure capabilities. Its 4-wire configuration supports precise Pulse Width Modulation (PWM) speed control, allowing for dynamic thermal regulation based on real-time system load. The housing is constructed from reinforced thermoplastic, meeting UL94V-0 flammability standards, ensuring safety and reliability in demanding electronic enclosures.

Model Number: PFB0824DHE-VCN

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 24VDC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 1.63 A

Power: 39.12 W

Rated Speed: 9000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 132.56 CFM (225.2 m³/h / 3.75 m³/min)

Max. Static Pressure: 50.67 mmH₂O (496.9 Pa / 1.995 inH₂O)

Dimensions: 80x80x38mm

Weight: 205 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 65.0 dB-A

Speed Control: PWM (4-Wire)

Ingress Protection: IP20

Insulation Class: Class A

Housing Material: Plastic (UL94V-0)

Blade Material: Plastic (UL94V-0)

Operating Temperature: -10°C to +60°C

Storage Temperature: -40°C to +70°C

Termination: 4-Wire Leads

Protection: Locked Rotor Protection, Polarity Protection

The PFB0824DHE-VCN is specifically designed for high-impedance applications requiring substantial static pressure, such as variable frequency drives (VFDs) and industrial inverters. In server rack environments, the PFB0824DHE-VCN efficiently forces air through dense component arrays, preventing thermal throttling in CPUs and power supplies. Additionally, this model is suitable for telecommunications equipment, CNC machinery control cabinets, and medical instrumentation where reliable, high-velocity cooling is mandatory to maintain operational stability.

Supplemental Images

