

AFB0524VHD-R00 Delta 24VDC 50x50x20mm 3-Wire Axial Fan Datasheet



Brand: Delta

SKU: [747805608282](#)

Category: Axial & Centrifugal Fans

Price: **\$12.99**

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Product Page:

<https://www.equipspares.com/product/afb0524vhd-r00-delta-24vdc-50x50x20mm-3-wire-axial-fan>

Product Description

The Delta AFB0524VHD-R00 is a precision-engineered DC axial fan designed for high-reliability industrial thermal management. Utilizing Delta's advanced brushless DC motor technology and a robust dual ball bearing architecture, this unit ensures minimal friction and extended operational longevity under continuous load. The aerodynamic impeller design optimizes airflow while maintaining structural rigidity, effectively reducing thermal impedance in dense electronic enclosures. Engineered for performance stability, the AFB0524VHD-R00 features a specialized Locked Rotor Sensor (R00) output, providing critical feedback for system monitoring and failure prevention in mission-critical applications.

Model Number: AFB0524VHD-R00

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 24 VDC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 0.15 A

Input Power: 3.60 W

Rated Speed: 6400 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 20.30 CFM (34.49 m³/h / 0.57 m³/min)

Max. Static Pressure: 7.65 mmH₂O (75.02 Pa / 0.30 inH₂O)

Dimensions: 50 x 50 x 20 mm

Weight: 38.0 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 36.5 dB-A

Speed Control / Sensor: R00 (Locked Rotor Sensor / Rotation Detector)

Termination: 3-Wire (Lead Wire)

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Protection: Polarity Protection, Locked Rotor Protection

The AFB0524VHD-R00 is specifically calibrated for demanding industrial environments requiring consistent forced air cooling. Common applications include variable frequency drives (VFDs), industrial inverters, and compact server rack enclosures where space is limited but heat dissipation requirements are high. The integration of the rotation detector sensor makes the AFB0524VHD-R00 particularly suitable for automated machinery and CNC control systems, allowing for immediate system alerts or shutdowns in the event of fan obstruction or failure.

Supplemental Images

