

AFB0412VHA-AA02 Delta 12VDC 40x40x10mm Axial Fan Datasheet



Brand: Delta

SKU: [670171627346](#)

Category: Axial & Centrifugal Fans

Price: **\$13.43**

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Product Page:

<https://www.equipspares.com/product/afb0412vha-aa02-delta-12vdc-40x40x10mm-axial-fan>

Product Description

Delta AFB0412VHA-AA02 is a 12VDC 40x40x10mm Axial Fan optimized for high-density thermal management in space-constrained electronic enclosures. This DC brushless motor utilizes a sophisticated dual ball bearing architecture to minimize friction and extend service life under continuous duty cycles. The aerodynamic impeller design is engineered to reduce thermal impedance by providing a concentrated airflow stream, effectively cooling localized hotspots. Operating at a rated current of 0.12A and a speed of 7000 RPM, this unit delivers a significant static pressure of 5.51 mmH₂O, making it ideal for overcoming the resistance of tightly packed internal components while maintaining structural rigidity through its UL94V-0 reinforced plastic housing.

Model Number: AFB0412VHA-AA02

Brand: Delta Electronics

Product Type: Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.12 A

Power: 1.44 W

Rated Speed: 7000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 8.26 CFM (0.234 m³/min)

Max. Static Pressure: 5.51 mmH₂O (54.0 Pa / 0.217 inH₂O)

Dimensions: 40 x 40 x 10 mm

Weight: 14.5 g

Life Expectancy: 70,000 Hours at 40°C / 65% RH

Noise Level: 31.5 dB-A

Housing Material: Plastic (UL 94V-0)

Blade Material: Plastic (UL 94V-0)

Termination: 2 Lead Wires (28 AWG)

Operating Temperature: -10 to +70 °C

Storage Temperature: -40 to +75 °C

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

Certifications: UL, CUL, TUV, CE

AFB0412VHA-AA02 Applications

1. 1U Network Switches and Routers: The 10mm slim profile and high static pressure allow for efficient heat dissipation within low-profile rackmount hardware where internal impedance is high.
2. Embedded Industrial Computing: Ideal as a replacement fan for IPC motherboards and compact controllers requiring high-reliability cooling in 24/7 operational environments.
3. CCTV and Security DVRs: Provides the necessary airflow to prevent thermal throttling of video processing chipsets in small-form-factor surveillance equipment.

Supplemental Images

