

AFB0412MA Delta 12VDC 0.10A 40x40x10mm Axial Fan Datasheet



Brand: Delta

SKU: [992822464314](#)

Category: Axial & Centrifugal Fans

Price: **\$11.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/afb0412ma-delta-12vdc-0-10a-40x40x10mm-axial-fan>

Product Description

Delta AFB0412MA is a 12VDC 40x40x10mm Axial Fan optimized for high-density thermal management in space-constrained enclosures. This DC brushless fan utilizes a sophisticated dual ball bearing architecture to minimize mechanical friction and extend service life in continuous duty cycles. The aerodynamic impeller design is engineered to reduce thermal impedance by maintaining consistent laminar airflow across critical components. Operating at a rated current of 0.10A and a speed of 5000 RPM, it delivers a static pressure of 3.45 mmH₂O, ensuring efficient heat dissipation even in systems with moderate structural rigidity and airflow resistance.

Model Number: AFB0412MA

Brand: Delta Electronics

Product Type: Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.10 A

Power: 1.20 W

Rated Speed: 5000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 6.18 CFM (0.175 m³/min)

Max. Static Pressure: 3.45 mmH₂O (33.83 Pa / 0.136 inH₂O)

Dimensions: 40 x 40 x 10 mm

Weight: 14.0 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 21.0 dBA

Housing Material: Plastic (UL 94V-0)

Blade Material: Plastic (UL 94V-0)

Termination: 2 Lead Wires

Operating Temperature: -10 to +70 °C

Storage Temperature: -40 to +75 °C

Protection: Locked Rotor Protection

AFB0412MA Applications

1. 1U Network Switches: The 10mm low-profile depth and high static pressure allow for efficient heat extraction from compact rackmount networking hardware where vertical clearance is restricted.
2. Embedded Industrial PC Cooling: Ideal as a replacement fan for internal CPU or chipset heatsinks requiring high-reliability dual ball bearings for 24/7 operation.
3. CCTV DVR/NVR Enclosures: Provides low-vibration cooling for sensitive optical and storage drives, ensuring long-term data integrity in security recording equipment.

Supplemental Images

