

AFC0912DE-CA01 Delta 12VDC 92x92x38mm PWM Axial Fan Datasheet



Brand: Delta

SKU: [656447449512](#)

Category: Axial & Centrifugal Fans

Price: **\$21.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/afc0912de-ca01-delta-12vdc-92x92x38mm-pwm-axial-fan>

Product Description

Delta AFC0912DE-CA01 is a 12VDC 92x92x38mm Axial Fan optimized for high-density thermal management in restricted enclosures. This unit features a brushless DC motor integrated with a dual ball bearing architecture to ensure extended MTBF and structural rigidity under high rotational stress. The 9038 frame design is engineered to minimize thermal impedance by delivering exceptional static pressure, making it ideal for overcoming system resistance. Operating at a rated current of 1.50A with a power consumption of 18.0W, it achieves speeds up to 6000 RPM. The 4-wire PWM interface provides precise thermal regulation, while the PBT thermoplastic housing ensures durability in demanding industrial environments.

Model Number: AFC0912DE-CA01

Brand: Delta Electronics

Product Type: Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 1.50A

Power: 18.0W

Rated Speed: 6000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 160.22 CFM (4.537 m³/min)

Max. Static Pressure: 21.55 mmH₂O (211.3 Pa / 0.848 inH₂O)

Dimensions: 92 x 92 x 38 mm

Weight: 250g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM Control

Output: Tachometer (Frequency Generator)

Noise Level: 63.0 dB-A

Frame Material: Plastic (UL 94V-0)

Impeller Material: Plastic (UL 94V-0)

Termination: 4-Lead Wires

Operating Temperature: -10°C to +60°C

Storage Temperature: -40°C to +75°C

Protection: Locked Rotor Protection, Reverse Polarity Protection

Certifications: UL, CSA, VDE, CE

AFC0912DE-CA01 Applications

1. Automotive Forced Induction Cooling: High static pressure allows for efficient heat dissipation in compact engine bay heat exchangers and battery thermal management systems.
2. 2U Rackmount Chassis: The 38mm depth and 6000 RPM capability provide the necessary CFM to cool high-TDP processors in dense server environments as a high-performance replacement fan.
3. Industrial Power Supplies: PWM control enables dynamic cooling based on load-induced thermal spikes, ensuring component longevity in high-wattage VFD control cabinets.

Supplemental Images

