

PFC1212DE-DD40 Delta 12VDC 2.85A 120x120x38mm Axial Fan Datasheet



Brand: Delta

SKU: [675846707086](#)

Category: Axial & Centrifugal Fans

Price: **\$16.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/pfc1212de-dd40-delta-12vdc-2-85a-120x120x38mm-axial-fan>

Product Description

The Delta PFC1212DE-DD40 is a high-performance DC axial fan designed for mission-critical cooling applications requiring substantial airflow and static pressure. Engineered with Delta's advanced motor technology and a dual ball bearing architecture, this unit ensures long-term reliability and reduced thermal impedance in high-density environments. The 120mm frame houses an aerodynamically optimized impeller that maximizes air throughput while maintaining structural rigidity under high-speed operation. Featuring a 4-wire PWM interface, it allows for precise speed modulation, balancing cooling efficiency with acoustic performance. This robust thermal solution is ideal for overcoming high system resistance in industrial and server-grade chassis.

Model Number: PFC1212DE-DD40

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 8.0 - 13.2 VDC

Rated Current: 2.85 A

Power Input: 34.2 W

Rated Speed: 5500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 220.0 CFM (373.8 m³/h / 6.23 m³/min)

Max. Static Pressure: 35.8 mmH₂O (351 Pa / 1.41 inH₂O)

Dimensions: 120 x 120 x 38 mm

Weight: 380 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Ingress Protection: IP51

Noise Level: 66.5 dB-A

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Termination: 4-Wire Leads with Connector

Wire Assignment: Red (+), Black (-), Blue (PWM), Yellow (Tach)

Operating Temperature: -10°C to +60°C

Storage Temperature: -40°C to +70°C

Mounting Orientation: Any

Safety Certifications: UL, cUL, TUV, CE

The PFC1212DE-DD40 is specifically engineered for high-impedance environments such as enterprise server racks, blade chassis, and telecommunications base stations where maintaining optimal thermal envelopes is critical. Its high static pressure capabilities make it an excellent choice for forcing air through dense heatsinks in precision medical devices and industrial automation controllers. Additionally, the PFC1212DE-DD40 is frequently utilized in custom cooling solutions for cryptocurrency mining rigs and high-performance workstations, ensuring components remain within safe operating temperatures during continuous peak loads.

Supplemental Images

