PFM1412DE-SP02A01 Delta 12VDC 140x140x38mm PWM Axial Fan Datasheet

Brand: Delta

SKU: 846274031185

Category: Axial & Centrifugal Fans

Price: **$18.99**

E-mail: sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/pfm1412de-sp02a01-delta-12vdc-140x140x38mm-pwm-axial-fan

Product Description

The Delta PFM1412DE-SP02A01 is a high-performance DC Axial Fan engineered for mission-critical thermal management in high-density electronic environments. Utilizing advanced brushless DC motor technology and a precision-balanced blade geometry, this unit delivers exceptional airflow throughput while maintaining structural rigidity under high-speed operation. The design incorporates a robust dual ball bearing architecture, significantly reducing friction and heat generation to ensure long-term reliability and reduced thermal impedance. Optimized for demanding industrial applications, the fan features integrated Pulse Width Modulation (PWM) for precise speed regulation, allowing for dynamic adaptation to varying thermal loads while maximizing energy efficiency and system stability.

Model Number: PFM1412DE-SP02A01
Brand: Delta Electronics
Product Type: DC Axial Fan
Rated Voltage: 12 VDC
Voltage Range: 8.0 - 13.2 VDC
Rated Current: 7.50 A
Power Input: 90.00 W
Rated Speed: 5500 RPM
Bearing Type: Dual Ball Bearing

Max. Air Flow: 252.85 CFM (429.6 m^3/h / 7.16 m^3/min)
Max. Static Pressure: 35.86 mmH_2O (351.7 Pa / 1.41 inH_2O)
Dimensions: 140 x 140 x 38 mm
Weight: 450 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)
Blade Material: PBT Plastic (UL94V-0)
Termination: 4-Wire Leads
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +75°C
Safety Certifications: UL, cUL, TUV, CE

The PFM1412DE-SP02A01 is specifically designed for high-static pressure applications such as enterprise server racks, telecommunications base stations, and industrial automation enclosures where overcoming system resistance is critical. Its high-power density makes it an ideal solution for cooling high-wattage components in CNC machinery and medical imaging equipment. By integrating the PFM1412DE-SP02A01 into forced-air convection systems, engineers can ensure consistent thermal envelopes for sensitive electronics, preventing throttling and extending component lifespan in 24/7 operational environments.

Supplemental Images