

EEC0251B1-000C-A99 Sunon 12VDC 120x120x25mm DC Axial Fan Datasheet



Brand: SUNON

SKU: 758069650853

Category: Axial & Centrifugal Fans

Price: \$18.99

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Product Page:

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Product Description

The Sunon EEC0251B1-000C-A99 is a high-efficiency DC axial fan engineered for demanding thermal management applications requiring substantial airflow density. Utilizing advanced motor technology and a precision-balanced impeller, this unit minimizes structural vibration while optimizing aerodynamic throughput. The construction features a robust thermoplastic PBT housing rated to UL94V-0 standards, ensuring structural rigidity and fire resistance in industrial environments. Equipped with a dual ball bearing system, the fan offers reduced friction coefficients and superior thermal impedance characteristics, significantly extending operational service life under continuous load. The integrated 3-wire tachometer output facilitates real-time RPM monitoring, allowing for precise closed-loop control in critical cooling systems.

Model Number: EEC0251B1-000C-A99

Brand: Sunon

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 6.0 - 13.8 VDC

Rated Current: 0.45 A

Power Consumption: 5.4 W

Rated Speed: 3100 RPM

Bearing Type: 2 Ball Bearing

Max. Air Flow: 108.0 CFM (183.5 m³/h / 3.05 m³/min)

Max. Static Pressure: 0.28 inH₂O (7.11 mmH₂O / 69.7 Pa)

Dimensions: 120x120x25mm

Weight: 157 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 44.5 dB(A)

Speed Control: 3-Wire Tachometer (Frequency Generator)

Housing Material: Thermoplastic PBT (UL94V-0)

Impeller Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP20

Insulation Class: Class A

Safety Certifications: UL, CUR, TUV, CE

Wire Termination: Lead Wires (UL1007, 24AWG)

Motor Protection: Auto Restart / Polarity Protection

The EEC0251B1-000C-A99 is specifically designed for integration into high-density electronic enclosures, including server racks, telecommunications cabinets, and industrial power supply units. Its high static pressure capabilities make it ideal for forcing air through restrictive chassis filters and densely packed component arrays. Engineers frequently deploy the EEC0251B1-000C-A99 in CNC machinery control panels and medical instrumentation where reliable thermal dissipation is critical to prevent system throttling or component failure.

Supplemental Images

