

PF80251V1-1000C-A99 SUNON 12VDC 80x80x25mm MagLev Axial Fan Datasheet



Brand: SUNON

SKU: 919431840265

Category: Axial & Centrifugal Fans

Price: \$17.99

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Product Description

The SUNON PF80251V1-1000C-A99 is a precision-engineered DC Axial Fan designed for high-performance thermal management in industrial and electronic applications. Utilizing SUNON's proprietary Magnetic Levitation (MagLev) motor technology, this unit eliminates friction between the shaft and bearing, significantly reducing noise output while extending operational lifespan. The fan features a thermoplastic PBT housing and impeller, optimized aerodynamically to maximize static pressure and airflow throughput. Its robust structural rigidity ensures stability under high-speed operation, lowering thermal impedance within dense electronic enclosures. The Vapo bearing architecture further enhances reliability, making it suitable for continuous duty cycles in demanding environments.

Model Number: PF80251V1-1000C-A99

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Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 6.0 - 13.8 VDC

Rated Current: 0.31 A

Power Consumption: 3.72 W

Rated Speed: 4500 RPM $\pm$ 10%

Bearing Type: MagLev (Vapo Bearing)

Max. Air Flow: 60.0 CFM (101.9 m³/h / 1.70 m³/min)

Max. Static Pressure: 0.36 inH₂O (9.14 mmH₂O / 89.6 Pa)

Dimensions: 80x80x25mm

Weight: 91.0 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 45.0 dBA

Housing Material: Thermoplastic PBT (UL94V-0)

Blade Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Insulation Class: Class A

Ingress Protection: IP51 (Standard)

Termination: Lead Wires (UL1007, 24AWG)

Motor Protection: Auto Restart / Polarity Protection

Dielectric Strength: 500VAC for 1 Minute

Safety Certifications: UL, CUR, TUV, CE

The PF80251V1-1000C-A99 is specifically engineered for applications requiring efficient heat dissipation in confined spaces, such as server chassis, network switches, and industrial power supplies. In medical instrumentation, the PF80251V1-1000C-A99 ensures critical components remain within safe thermal operating limits without introducing excessive vibration. Additionally, this model is frequently deployed in automation control panels and telecommunications equipment where long-term reliability and consistent airflow performance are paramount for system stability.

Supplemental Images

