

MFC0251V3-0000-A99 SUNON 12VDC 120mm MagLev Axial Fan Datasheet



Brand: SUNON

SKU: 988000068540

Category: Axial & Centrifugal Fans

Price: \$26.99

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Product Page:

<https://www.equipspares.com/product/mfc0251v3-0000-a99-sunon-12vdc-120mm-maglev-axial-fan>

Product Description

The SUNON MFC0251V3-0000-A99 is a precision-engineered DC axial fan designed for applications requiring optimal thermal impedance and acoustic discretion. Utilizing SUNON's proprietary MagLev (Magnetic Levitation) motor technology, this unit eliminates physical contact between the shaft and bearing, significantly reducing friction and vibration. The resulting Vapo bearing architecture ensures exceptional structural rigidity and a prolonged service life compared to traditional sleeve or ball bearing designs. With a power rating of 1.68W, this 120mm cooling solution delivers consistent airflow while maintaining low noise levels, making it ideal for sensitive electronic environments where reliability and silence are paramount.

Model Number: MFC0251V3-0000-A99

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Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 6.0 - 13.8 VDC

Rated Current: 0.14 A

Power Consumption: 1.68 W

Rated Speed: 2200 RPM

Bearing Type: MagLev (Vapo Bearing)

Max. Air Flow: 63.0 CFM (107.0 m³/h / 1.78 m³/min)

Max. Static Pressure: 0.14 inH₂O (3.56 mmH₂O / 34.8 Pa)

Dimensions: 120 x 120 x 25 mm

Weight: 157 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 26.0 dB(A)

Frame Material: Thermoplastic PBT (UL94V-0)

Blade Material: Thermoplastic PBT (UL94V-0)

Ingress Protection: IP5X (Dust Protected)

Insulation Class: Class A

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Termination: 2-Wire Lead (Red +, Black -)

Wire Gauge: 24 AWG

Motor Protection: Auto Restart / Polarity Protection

Dielectric Strength: 500 VAC for 1 Minute

Safety Certifications: UL, CUR, TUV, CE

The MFC0251V3-0000-A99 is engineered for deployment in diverse industrial and commercial sectors where sustained cooling is critical. Common implementations include server rack ventilation, telecommunications enclosures, and medical instrumentation where acoustic noise must be minimized. The MFC0251V3-0000-A99 also serves effectively in power supply units, automation control panels, and digital signage systems, providing reliable heat dissipation to protect sensitive components from thermal degradation during continuous operation.

Supplemental Images

