

MFC0251V1-000C-A99 SUNON 12VDC 120mm MagLev Axial Fan Datasheet



Brand: SUNON

SKU: 981303997997

Category: Axial & Centrifugal Fans

Price: **\$16.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/mfc0251v1-000c-a99-sunon-12vdc-120mm-maglev-axial-fan>

Product Description

The SUNON MFC0251V1-000C-A99 is a precision-engineered DC axial fan designed for critical thermal management applications requiring sustained high airflow and reliability. Utilizing SUNON's proprietary Magnetic Levitation (MagLev) motor technology, this unit eliminates physical contact between the shaft and bearing, significantly reducing friction, vibration, and noise while extending operational lifespan. The 120mm frame houses an aerodynamically optimized impeller that delivers exceptional static pressure relative to its 4.2W power consumption. Engineered for structural rigidity and low thermal impedance, the fan operates efficiently on a 12VDC bus. Its robust construction ensures reliability in continuous duty cycles, making it an ideal solution for industrial enclosures and power dissipation systems where component longevity is paramount.

Model Number: MFC0251V1-000C-A99

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Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 6.0 - 13.8 VDC

Rated Current: 0.35 A

Power Consumption: 4.2 W

Rated Speed: 3100 RPM

Bearing Type: MagLev (Magnetic Levitation)

Max. Air Flow: 108.2 CFM (183.8 m³/h / 3.06 m³/min)

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

Dimensions: 120 x 120 x 25 mm

Weight: 157 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 44.5 dB(A)

Frame Material: Thermoplastic PBT (UL94V-0)

Impeller Material: Thermoplastic PBT (UL94V-0)

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

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP54

Safety Certifications: UL, CUR, TUV, CE

The MFC0251V1-000C-A99 is engineered for deployment in demanding industrial environments such as server rack cooling, telecommunications cabinets, and high-wattage power supply units. Its high airflow capacity makes it suitable for CNC machinery control panels and medical instrumentation where consistent thermal regulation is critical. Integrators frequently utilize the MFC0251V1-000C-A99 in network switches and storage arrays to maintain optimal operating temperatures, ensuring system stability and preventing thermal throttling in density-critical hardware architectures.

Supplemental Images

