

MB40201VX-000C-F99 SUNON 12VDC 40x40x20mm MagLev Axial Fan Datasheet



Brand: SUNON

SKU: [988782952429](#)

Category: Axial & Centrifugal Fans

Price: **\$14.99**

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Product Description

The SUNON MB40201VX-000C-F99 is a precision-engineered DC axial fan utilizing proprietary Magnetic Levitation (MagLev) motor technology. This unit integrates a Vapo bearing system which eliminates physical contact between the rotor and shaft during operation, significantly reducing friction, noise, and vibration while extending operational lifespan. Designed for high-density thermal management, the fan features an optimized impeller geometry that maximizes airflow efficiency while maintaining structural rigidity under high-speed rotation. The thermoplastic PBT housing ensures durability and compliance with UL94V-0 flammability standards, making it an ideal solution for applications requiring low thermal impedance and reliable long-term performance.

Model Number: MB40201VX-000C-F99

Brand: SUNON

Product Type: DC Axial Fan

Series: MagLev (Vapo)

Rated Voltage: 12 VDC

Voltage Range: 4.5 - 13.8 VDC

Power Consumption: 1.38 W

Rated Current: 0.115 A

Rated Speed: 8200 RPM

Bearing Type: Vapo Bearing (MagLev)

Max. Air Flow: 10.8 CFM (18.35 m³/h / 0.31 m³/min)
Max. Static Pressure: 6.86 mmH₂O (67.25 Pa / 0.27 inH₂O)
Dimensions: 40 x 40 x 20 mm
Weight: 31.0 g
Noise Level: 27.5 dB(A)
Life Expectancy: 60,000 Hours at 40°C
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Frame Material: Thermoplastic PBT (UL94V-0)
Impeller Material: Thermoplastic PBT (UL94V-0)
Ingress Protection: N/A
Termination: 3-Wire Lead (UL1007, 26AWG)
Output Signal: F Type (Frequency Generator/Tachometer)
Insulation Class: Class A
Safety Certifications: UL, CUR, TUV
Motor Protection: Auto Restart / Polarity Protection

This compact cooling solution is engineered for critical electronics requiring consistent airflow in restricted spaces. The MB40201VX-000C-F99 is frequently deployed in 1U server rack enclosures, network switches, and telecommunications equipment where reliability is paramount. Additionally, the low-noise profile of the MB40201VX-000C-F99 makes it suitable for medical instrumentation and precision optical devices, ensuring stable operating temperatures for sensitive components without introducing excessive acoustic interference.

Supplemental Images

