

V12E12BMM9-57 Nidec 12VDC 120x120x38mm PWM Axial Fan Datasheet



Brand: Nidec

SKU: 990816199746

Category: Axial & Centrifugal Fans

Price: **\$10.71**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/v12e12bmm9-57-nidec-12vdc-120x120x38mm-pwm-axial-fan>

Product Description

The Nidec V12E12BMM9-57 is a high-static pressure DC Axial Fan engineered for critical thermal management applications requiring robust airflow delivery. This unit utilizes advanced motor technology coupled with a precision-balanced impeller to minimize thermal impedance while maintaining structural rigidity under high-speed operation. Featuring a durable Dual Ball Bearing architecture, the fan ensures extended operational longevity and stability. The 4-wire PWM interface allows for precise speed modulation, optimizing the balance between acoustic performance and cooling efficiency in demanding industrial environments.

Model Number: V12E12BMM9-57

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Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 1.20 A

Power: 14.40 W

Rated Speed: 4000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 150.0 CFM (254.8 m³/h / 4.24 m³/min)

Max. Static Pressure: 14.5 mmH₂O (142.2 Pa / 0.57 inH₂O)

Dimensions: 120 x 120 x 38 mm

Weight: 290 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Wire Lead

Housing Material: Plastic (UL94V-0)

Blade Material: Plastic (UL94V-0)

Operating Temperature: -10 to +70 °C

Storage Temperature: -40 to +70 °C

Ingress Protection: IP20

Safety Certifications: UL, cUL, TUV, CE

The V12E12BMM9-57 is specifically designed for high-density server enclosures and telecommunications racks where back-pressure resistance is paramount. Its robust airflow capabilities make it ideal for cooling RAID arrays, power supply units, and industrial automation cabinets. Integrators frequently select the V12E12BMM9-57 for medical instrumentation and CNC machinery, relying on its consistent performance to maintain optimal operating temperatures for sensitive electronic components.

Supplemental Images

