

1611VL-05W-B49-BE3 NMB 24VDC 40x40x28mm Axial Fan Datasheet



Brand: NMB

SKU: 976581021638

Category: Axial & Centrifugal Fans

Price: \$29.99

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Product Page:

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Product Description

The NMB 1611VL-05W-B49-BE3 is a precision-engineered DC axial fan designed for high-reliability thermal management applications. Utilizing advanced MinebeaMitsumi motor technology, this unit features a robust Dual Ball Bearing architecture that significantly reduces friction and enhances longevity under continuous operation. The aerodynamic impeller design optimizes airflow while maintaining structural rigidity, ensuring consistent static pressure delivery. With a compact 40mm form factor and efficient 24VDC operation, it offers superior thermal impedance characteristics, making it an ideal solution for critical electronic cooling where component density requires effective heat dissipation and stable performance.

Model Number: 1611VL-05W-B49-BE3

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 24VDC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 0.07 A

Power Consumption: 1.68 W

Rated Speed: 7500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 10.9 CFM (18.5 m³/h / 0.31 m³/min)

Max. Static Pressure: 6.8 mmH₂O (66.7 Pa / 0.27 inH₂O)

Dimensions: 40 x 40 x 28 mm

Weight: 45 g

Life Expectancy: 60,000 Hours at 25°C

Noise Level: 34.0 dBA

Termination: 3-Wire Lead (Tachometer Sensor)

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Protection: Locked Rotor Protection, Reverse Polarity Protection

Insulation Resistance: 10M Ohm at 500VDC

Dielectric Strength: 700VAC for 1 second

The 1611VL-05W-B49-BE3 is engineered for deployment in compact industrial and telecommunications environments requiring reliable forced-air cooling. Common integration points include 1U server racks, network switches, and power supply units where space is constrained but thermal loads are significant. Additionally, the 1611VL-05W-B49-BE3 is frequently utilized in medical instrumentation and CNC control modules, ensuring critical components remain within safe operating temperature ranges to prevent thermal throttling or hardware failure.

Supplemental Images

