

# 5920VL-05W-B60-DQ1 NMB-MAT 24VDC 172x150x51mm Axial Fan Datasheet



**Brand:** NMB

**SKU:** 585495796821

**Category:** Axial & Centrifugal Fans

**Price:** \$143.99

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Product Page:

<https://www.equipspares.com/product/5920vl-05w-b60-dq1-nmb-mat-24vdc-172x150x51mm-axial-fan>

## Product Description

The NMB-MAT 5920VL-05W-B60-DQ1 is a high-performance DC Axial Fan engineered by MinebeaMitsumi for critical thermal management in industrial environments. Utilizing advanced dual ball bearing architecture, this unit ensures exceptional longevity and reduced frictional coefficients under continuous operation, significantly lowering the risk of mechanical failure. The aerodynamic impeller design optimizes airflow dynamics to overcome high system impedance, delivering substantial static pressure required for densely packed electronics. Constructed with a robust aluminum die-cast frame and reinforced plastic impeller, the fan maintains structural rigidity while effectively dissipating heat, making it an ideal solution for high-density electronic enclosures requiring reliable forced convection cooling.

Model Number: 5920VL-05W-B60-DQ1

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 24 VDC

Voltage Range: 18.0 - 27.6 VDC

Rated Current: 1.46 A

Power Consumption: 35.0 W

Rated Speed: 3650 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 285.0 CFM (484.2 m<sup>3</sup>/h / 8.07 m<sup>3</sup>/min)  
Max. Static Pressure: 21.5 mmH<sub>2</sub>O (210.8 Pa / 0.85 inH<sub>2</sub>O)  
Dimensions: 172mm x 150mm x 51mm  
Weight: 830 g  
Life Expectancy: 100,000 Hours at 25°C  
Noise Level: 61.0 dBA  
Frame Material: Aluminum Die-Cast  
Impeller Material: Plastic (UL94V-0)  
Termination: 2-Wire Lead (Red +, Black -)  
Operating Temperature: -10°C to +70°C  
Storage Temperature: -40°C to +70°C  
Insulation Resistance: 10M Ohm at 500VDC  
Dielectric Strength: 700VAC for 3 seconds  
Protection: Locked Rotor Protection, Polarity Protection  
Mounting: Flange Type

Designed for demanding industrial applications, the 5920VL-05W-B60-DQ1 excels in cooling high-power frequency inverters and variable frequency drives (VFDs) where consistent thermal regulation is paramount. Its robust construction makes it suitable for server rack ventilation, telecommunications base stations, and large-scale power supply units. The 5920VL-05W-B60-DQ1 is also frequently integrated into CNC machinery control panels and medical instrumentation, ensuring component stability by preventing thermal throttling in enclosed spaces.

## Supplemental Images

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