

4712KL-05W-B40-PR1 NMB-MAT 24VDC 119x32mm Axial Fan Datasheet



Brand: NMB

SKU: [746163411044](#)

Category: Axial & Centrifugal Fans

Price: **\$68.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/4712kl-05w-b40-pr1-nmb-mat-24vdc-119x32mm-axial-fan>

Product Description

The NMB-MAT 4712KL-05W-B40-PR1 is a precision-engineered DC axial fan designed for critical thermal management in industrial electronics. Utilizing advanced brushless DC motor technology and a reinforced double ball bearing architecture, this unit ensures sustained operation under high static pressure requirements. The aerodynamic impeller design minimizes turbulence while maximizing airflow efficiency, effectively reducing thermal impedance within high-density enclosures. Constructed with UL94V-0 rated materials, the 4712KL-05W-B40-PR1 offers superior structural rigidity and long-term reliability, making it an optimal solution for demanding cooling applications requiring consistent performance and durability.

Model Number: 4712KL-05W-B40-PR1

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 24VDC

Voltage Range: 12.0 - 27.6 VDC

Rated Current: 0.48 A

Input Power: 11.52 W

Rated Speed: 3100 RPM

Bearing Type: Double Ball Bearing

Max. Air Flow: 88.2 CFM (149.8 m³/h / 2.50 m³/min)

Max. Static Pressure: 6.7 mmH₂O (65.7 Pa / 0.26 inH₂O)

Dimensions: 119 x 119 x 32 mm

Weight: 260 g

Life Expectancy: 100,000 Hours at 25°C

Noise Level: 42.0 dB(A)

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Termination: 2-Wire with Original Connector

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Motor Protection: Locked Rotor Protection, Polarity Protection

Application: ABB Inverter Cooling

Designed specifically for high-reliability industrial environments, the 4712KL-05W-B40-PR1 is frequently utilized in variable frequency drives, specifically ABB inverters, to maintain optimal operating temperatures. Its robust construction allows for integration into server racks, telecommunications cabinets, and CNC control systems where continuous airflow is critical. The 4712KL-05W-B40-PR1 excels in restricted spaces requiring significant static pressure to overcome resistance from heat sinks and dense component layouts, ensuring the longevity of sensitive electronic equipment.

Supplemental Images

