

12038VA-24Q-FM-01 NMB-MAT 24VDC 120x120x38mm PWM Axial Fan Datasheet



Brand: NMB

SKU: [813311298717](#)

Category: Axial & Centrifugal Fans

Price: **\$32.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/12038va-24q-fm-01-nmb-mat-24vdc-120x120x38mm-pwm-axial-fan>

Product Description

The NMB-MAT 12038VA-24Q-FM-01 is a precision-engineered DC Axial Fan designed for critical thermal management in high-impedance industrial environments. Operating at a rated voltage of 24VDC with a significant current draw of 1.20A, this unit delivers the substantial airflow required for variable frequency drives and server enclosures. The architecture features a robust dual ball bearing system, ensuring longevity and stability under continuous high-speed operation. Its aerodynamic impeller design minimizes turbulence while maximizing static pressure, making it ideal for densely packed electronic assemblies. The integration of a 4-wire PWM interface allows for dynamic speed modulation, optimizing the balance between thermal dissipation and acoustic performance. Constructed with UL94V-0 rated materials, it ensures structural rigidity and safety compliance in demanding applications.

Model Number: 12038VA-24Q-FM-01

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 24VDC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 1.20 A

Input Power: 28.8 W

Rated Speed: 4400 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 160.0 CFM (271.8 m³/h / 4.53 m³/min)
Max. Static Pressure: 18.5 mmH₂O (181.4 Pa / 0.73 inH₂O)
Dimensions: 120 x 120 x 38 mm
Weight: 290 g
Life Expectancy: 70,000 Hours @ 40°C
Speed Control: 4-Wire PWM
Signal Output: Tachometer (FG)
Housing Material: Plastic (UL94V-0)
Impeller Material: Plastic (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Noise Level: 56.5 dB(A)
Termination: Lead Wires
Mounting Orientation: Any
Ingress Protection: IP20

The 12038VA-24Q-FM-01 is frequently deployed in industrial automation sectors, specifically for cooling variable frequency drives (VFDs) and high-power inverters where consistent thermal regulation is mandatory. Additionally, this model serves as a critical component in telecommunications cabinets and server rack assemblies, preventing thermal throttling in sensitive electronics. The high static pressure capabilities of the 12038VA-24Q-FM-01 allow it to overcome the resistance of dust filters and dense heatsinks, ensuring reliable operation in CNC machinery and power supply units.

Supplemental Images

