

06025MA-12Q-FL-03 NMB 12VDC 0.58A 60x60x25mm Axial Fan Datasheet



Brand: NMB

SKU: 1013461294350

Category: Axial & Centrifugal Fans

Price: \$16.99

E-mail: sales@equipspares.com

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

Product Page:

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Product Description

The NMB 06025MA-12Q-FL-03 is a precision-engineered DC Axial Fan designed for critical thermal management applications requiring high static pressure and consistent airflow. Manufactured by MinebeaMitsumi, this unit integrates advanced aerodynamic impeller geometry with a robust frame to minimize thermal impedance within dense electronic enclosures. The motor assembly utilizes a high-reliability Double Ball Bearing architecture, ensuring exceptional rotational stability and extended operational lifespan under continuous load. Featuring a 3-wire configuration with tachometer signal output, it allows for precise speed monitoring and feedback control. The housing is constructed from reinforced plastic, offering superior structural rigidity and flame resistance, making it an ideal solution for industrial cooling requirements.

Model Number: 06025MA-12Q-FL-03

Brand: NMB Technologies (MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.58 A

Input Power: 6.96 W

Rated Speed: 8000 RPM

Bearing Type: Double Ball Bearing

Max. Air Flow: 38.8 CFM (65.9 m³/h / 1.10 m³/min)
Max. Static Pressure: 14.5 mmH₂O (142 Pa / 0.57 inH₂O)
Dimensions: 60 x 60 x 25 mm
Weight: 75 g
Life Expectancy: 60,000 Hours (L10 at 40°C)
Termination: 3-Wire Lead (Red +, Black -, Signal)
Sensor Type: Tachometer Output (FG Signal)
Housing Material: PBT Plastic (UL94V-0)
Impeller Material: PBT Plastic (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Noise Level: 48.0 dBA
Insulation Resistance: 10M Ohm min. at 500VDC
Dielectric Strength: 700VAC for 1 second
Protection: Locked Rotor Protection, Polarity Protection

The 06025MA-12Q-FL-03 is engineered for high-density electronic environments where space is limited but heat dissipation demands are critical. Common deployment scenarios include 1U and 2U server rack cooling, telecommunications switching equipment, and industrial power supply units. The 06025MA-12Q-FL-03 is also frequently utilized in networked storage systems and precision medical instrumentation, where its tachometer output provides vital feedback for system health monitoring and fan failure prevention protocols.

Supplemental Images

