

06025SA-12M-AT-D3 NMB 12VDC 60x60x25mm 3-Wire Axial Fan Datasheet



Brand: NMB

SKU: 993582569065

Category: Axial & Centrifugal Fans

Price: \$18.99

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Product Page:

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Product Description

The NMB 06025SA-12M-AT-D3 is a precision-engineered Axial Fan designed for critical thermal management in industrial electronics and variable frequency drives. Manufactured by MinebeaMitsumi (NMB-MAT), this unit leverages advanced Double Ball Bearing technology to ensure minimal friction coefficient and extended operational longevity under continuous loads. The aerodynamic impeller profile is optimized to balance static pressure with airflow, reducing turbulence-induced noise while maintaining high thermal efficiency. Constructed with a robust UL94V-0 reinforced plastic housing, the 06025SA-12M-AT-D3 offers superior structural rigidity and resistance to environmental stressors, making it an ideal solution for systems requiring reliable heat dissipation and low thermal impedance.

Model Number: 06025SA-12M-AT-D3

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.14 A

Power Consumption: 1.68 W

Rated Speed: 3800 RPM

Bearing Type: Double Ball Bearing

Max. Air Flow: 19.4 CFM (32.9 m³/h / 0.55 m³/min)
Max. Static Pressure: 3.5 mmH₂O (34.3 Pa / 0.14 inH₂O)
Dimensions: 60 x 60 x 25 mm
Weight: 65 g
Life Expectancy: 100,000 Hours at 25°C
Noise Level: 28.0 dBA
Speed Control: 3-Wire (Sensor/Tachometer)
Housing Material: Plastic (UL94V-0)
Impeller Material: Plastic (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Termination: Lead Wires
Origin: Cambodia
Protection: Locked Rotor Protection, Polarity Protection

This cooling solution is specifically engineered for high-reliability applications such as variable frequency drive inverters, server rack ventilation, and telecommunications equipment. The 06025SA-12M-AT-D3 excels in compact enclosures where consistent airflow is mandatory to prevent component overheating. Integrators frequently utilize the 06025SA-12M-AT-D3 in industrial automation control panels and medical instrumentation, relying on its three-wire sensor feedback to monitor fan health and ensure system uptime in mission-critical environments.

Supplemental Images

