

06025SA-12K-AL-01 NMB 12VDC 60x60x25mm 3-Wire Axial Fan Datasheet



Brand: NMB

SKU: [897188879053](#)

Category: Axial & Centrifugal Fans

Price: **\$24.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/06025sa-12k-al-01-nmb-12vdc-60x60x25mm-3-wire-axial-fan>

Product Description

The NMB 06025SA-12K-AL-01 is a precision-engineered Axial Fan designed for critical thermal management in compact electronic assemblies and visual projection systems. Operating at a rated voltage of 12VDC with a highly efficient current draw of 0.08A, this unit exemplifies energy optimization within the standard 60mm form factor. The device utilizes NMB's proprietary bearing architecture to ensure reduced friction coefficients and extended operational longevity, maintaining structural rigidity under continuous thermal load. Its aerodynamic impeller design optimizes airflow while minimizing acoustic resonance, making it an ideal solution for noise-sensitive applications. The integration of a 3-wire interface allows for sophisticated speed monitoring or alarm signaling, ensuring reliable thermal impedance control in high-density environments.

Model Number: 06025SA-12K-AL-01

Brand: NMB (NMB-MAT / MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.08 A

Input Power: 0.96 W

Rated Speed: 3400 RPM (Nominal)

Bearing Type: Precision Ball Bearing

Max. Air Flow: 16.2 CFM (27.5 m³/h / 0.46 m³/min)

Max. Static Pressure: 3.2 mmH₂O (31.4 Pa / 0.13 inH₂O)

Dimensions: 60 x 60 x 25 mm

Weight: 65 g

Life Expectancy: 60,000 Hours at 40°C

Termination: 3-Wire (Lead Wire with Connector)

Sensor Output: Tachometer / Locked Rotor Alarm (AL Signal)

Noise Level: 24.0 dB(A)

Frame Material: Polybutylene Terephthalate (PBT) (UL94V-0)

Impeller Material: Polybutylene Terephthalate (PBT) (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP40

Insulation Resistance: 10M Ohm at 500VDC

Dielectric Strength: 700VAC for 1 Second

Mounting Orientation: Any

The 06025SA-12K-AL-01 is specifically engineered for integration into high-fidelity visual equipment, serving as a primary cooling component for laser TV projectors and home theater systems where silence is critical. Its low-noise profile ensures that the auditory experience remains undisturbed while the 06025SA-12K-AL-01 actively dissipates heat from sensitive optical engines and power supply units. Additionally, this model is suitable for compact telecommunications gear, network switches, and precision instrumentation where space constraints and acoustic performance are paramount.

Supplemental Images

