

06025SA-12N-AA-D7 NMB 12V 0.20A 60mm 6025 DC Axial Fan

SKU: 06025SA-12N-AA-D7

Price: \$13.99

Categories: Fans

Tags: NMB

Product Link:

<https://www.electspares.com/product/06025sa-12n-aa-d7-nmb-12v-0-20a-60mm-6025-dc-axial-fan/>

Product Description

The NMB 06025SA-12N-AA-D7 is a high-performance 12 V industrial axial fan with dimensions of 60 x 60 x 25 mm, purpose-built to deliver elite-level thermal cooling in high-resistance airflow paths. This unit features a heavy-duty brushless DC motor capable of sustaining a 2.4 W power output to drive its specialized 7-blade impeller at a consistent 4700 RPM. Engineered specifically to combat backpressure in compact enclosures, it generates a formidable 23.3 CFM of airflow, making it an ideal solution for pushing air through densely obstructed heatsinks and narrow chassis. The mechanical design relies on a precision-shielded dual ball bearing system and a fiberglass-reinforced PBT housing to ensure 100,000 hours of continuous operation at a 25 °C ambient temperature. Featuring a robust 2-wire configuration for simplified integration, this fan is a critical component for office automation equipment, networking hardware, and industrial power modules where long-term reliability and efficient heat dissipation are mandatory.

06025SA-12N-AA-D7 Fan Parameters

Manufacturer: MinebeaMitsumi (NMB-MAT)

Model Number: 06025SA-12N-AA-D7

Series: SA Series

Industry Size Code: 6025

Type: DC Axial Fan

Bearing Type: Dual Ball Bearing

Nominal Voltage: 12 VDC

Voltage Range: 6.0 - 13.8 VDC

Starting Voltage: 6.0 VDC

Dimensions: 60 x 60 x 25 mm

[Electrical Data]

Input Power: 2.4 W

Nominal Current: 0.20 A

Max. Current: 0.24 A

Nominal Speed: 4700 RPM (Tolerance $\pm 10\%$)

Motor Design: Brushless DC Motor

Motor Protection: Auto Restart, Polarity Protection, Locked Rotor Protection

Insulation Class: Class E

Insulation Resistance: >10M ohm at 500 VDC

Dielectric Strength: 500 VAC for 1 minute

Termination: 2-Lead wires (UL1007, AWG#26, Red/Black)

[Performance & Acoustics]

Max. Air Flow: 23.3 CFM (39.6 m³/h / 0.66 m³/min)

Max. Static Pressure: 5.40 mmH₂O (53.0 Pa / 0.21 inH₂O)

Sound Pressure Level: 33.0 dB(A) (Measured at 1 meter)

Number of Blades: 7

Direction of Rotation: Counter-clockwise (viewed toward impeller)

Airflow Direction: Intake over struts

[Materials & Construction]

Frame Material: Thermoplastic PBT (Black, UL94V-0)

Impeller Material: Thermoplastic PBT (Black, UL94V-0)

Installation Position: Any

Degree of Protection: IP54

[Reliability & Safety Standards]

Min. Ambient Temperature: -10 °C

Max. Ambient Temperature: 70 °C

Life Expectancy (L10): 100,000 hours at 25 °C (60,000 hours at 60 °C)

Standard Compliance: UL 507, CSA C22.2, EN 60950-1

Approval Agency: UL, CUL, TUV, CE, RoHS

Application

The NMB 06025SA-12N-AA-D7 axial fan is used in industrial power supplies, telecommunications equipment racks, CNC controller cooling, network switches, and 12V DC motor drives.

Product Images



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