

05020GA-12M-AA NMB 12VDC 50x50x20mm Centrifugal Blower Datasheet



Brand: NMB

SKU: 988034823871

Category: Axial & Centrifugal Fans

Price: \$11.29

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/05020ga-12m-aa-nmb-12vdc-50x50x20mm-centrifugal-blower>

Product Description

The NMB 05020GA-12M-AA is a precision-engineered DC centrifugal blower designed for high-static pressure applications where directed airflow is critical. Manufactured by MinebeaMitsumi, this unit features an advanced aerodynamic scroll housing that optimizes air compression while minimizing acoustic resonance. The motor assembly utilizes NMB's proprietary precision ball bearing technology, ensuring exceptional rotational stability and reduced friction coefficients over extended operational lifecycles. Engineered with a robust plastic frame and impeller rated for flammability resistance, the 05020GA-12M-AA delivers reliable thermal impedance management. Its compact form factor allows for integration into space-constrained electronic enclosures, providing efficient heat dissipation for sensitive components requiring concentrated airflow.

Model Number: 05020GA-12M-AA

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: DC Centrifugal Blower

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.24 A

Input Power: 2.88 W

Rated Speed: 5500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 5.3 CFM (9.0 m³/h / 0.15 m³/min)
Max. Static Pressure: 14.0 mmH₂O (137 Pa / 0.55 inH₂O)
Dimensions: 50 x 50 x 20 mm
Weight: 35 g
Life Expectancy: 60,000 Hours at 40°C
Noise Level: 36.0 dB(A)
Housing Material: PBT Plastic (UL94V-0)
Impeller Material: PBT Plastic (UL94V-0)
Termination: 2-Wire Lead (Red +, Black -)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Insulation Resistance: 10M Ohm at 500VDC
Dielectric Strength: 700VAC for 1 Second
Protection: Locked Rotor Protection, Polarity Protection
Mounting: Flange Mount

This centrifugal blower is specifically engineered for applications requiring high static pressure to overcome system resistance. The 05020GA-12M-AA is frequently utilized in compact projection equipment, medical humidifiers, and rack-mounted server spot cooling solutions. Due to its directed airflow capabilities, the 05020GA-12M-AA excels in cooling heatsinks within dense power supply units and telecommunications interfaces where axial fans cannot generate sufficient pressure.

Supplemental Images

