

05020GA-12N-AL-02 NMB 12VDC 50x20mm Centrifugal Blower Datasheet



Brand: NMB

SKU: [675365062159](#)

Category: Axial & Centrifugal Fans

Price: **\$10.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/05020ga-12n-al-02-nmb-12vdc-50x20mm-centrifugal-blower>

Product Description

The NMB 05020GA-12N-AL-02 is a precision-engineered centrifugal blower designed for high-impedance cooling applications requiring concentrated airflow. Utilizing MinebeaMitsumi's advanced precision ball bearing technology, this unit ensures minimal friction and extended operational longevity under continuous loads. The aerodynamic scroll housing optimizes static pressure generation, making it ideal for overcoming system resistance in compact enclosures. Its DC brushless motor architecture incorporates robust thermal management and structural rigidity, ensuring reliable performance in demanding industrial environments while maintaining acoustic stability. The unit features a specialized impeller design to maximize volumetric efficiency within a compact footprint.

Model Number: 05020GA-12N-AL-02

Brand: NMB Technologies (MinebeaMitsumi)

Product Type: DC Centrifugal Blower

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.24 A

Power Consumption: 2.88 W

Rated Speed: 4800 RPM

Bearing Type: Dual Precision Ball Bearing

Max. Air Flow: 4.9 CFM (8.3 m³/h / 0.14 m³/min)

Max. Static Pressure: 14.5 mmH₂O (142 Pa / 0.57 inH₂O)

Dimensions: 50 x 50 x 20 mm

Weight: 35 g

Life Expectancy: 60,000 Hours at 40°C

Noise Level: 34.0 dB(A)

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Termination: Lead Wires (UL1007 AWG26)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Protection: Auto Restart / Polarity Protection

Sensor Output: Locked Rotor Alarm (AL Signal)

Insulation Resistance: 10M Ohm at 500VDC

Dielectric Strength: 700VAC for 1 Second

The 05020GA-12N-AL-02 is engineered for applications where space is constrained but high static pressure is required to force air through dense components. Common deployments include cooling heatsinks in 1U server racks, compact power supplies, and projector lamp assemblies. The 05020GA-12N-AL-02 is also frequently utilized in medical instrumentation and telecommunications equipment where reliability is paramount, ensuring critical components remain within safe thermal operating limits during continuous operation.

Supplemental Images

