

BG0903-B053-00L-02 NMB-MAT 24VDC 97x33mm 3-Wire Blower Datasheet



Brand: NMB

SKU: [949783076728](#)

Category: Axial & Centrifugal Fans

Price: **\$19.99**

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Product Description

The NMB-MAT BG0903-B053-00L-02 is a precision-engineered DC centrifugal blower designed for high-static pressure applications requiring focused airflow delivery. Utilizing advanced DC brushless motor technology and a robust dual ball bearing architecture, this unit ensures minimal thermal impedance and extended operational service life under continuous loads. The aerodynamic scroll housing is constructed to maximize air velocity while maintaining structural rigidity, effectively directing airflow through restricted ducts and dense heatsinks. Engineered for industrial reliability, the BG0903-B053-00L-02 integrates a 3-wire interface for precise speed monitoring, making it an optimal solution for systems demanding active thermal management and consistent cooling performance.

Model Number: BG0903-B053-00L-02

Brand: NMB-MAT

Product Type: DC Centrifugal Blower

Rated Voltage: 24 VDC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 0.43 A

Input Power: 10.32 W

Rated Speed: 3600 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 28.60 CFM (48.59 m³/h / 0.81 m³/min)
Max. Static Pressure: 21.50 mmH₂O (210.8 Pa / 0.85 inH₂O)
Dimensions: 97 x 97 x 33 mm
Weight: 170 g
Life Expectancy: 100,000 Hours @ 25°C
Noise Level: 54.5 dB(A)
Termination: 3-Wire Leads (Red +, Black -, White/Yellow Sensor)
Speed Control: Tachometer Output (FG Signal)
Housing Material: PBT Plastic (UL94V-0)
Impeller Material: PBT Plastic (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Insulation Resistance: 10M Ohm min. @ 500VDC
Dielectric Strength: 700VAC for 1 Second
Protection: Locked Rotor Protection, Reverse Polarity Protection

This centrifugal blower is specifically engineered for applications requiring high static pressure to overcome significant system resistance, such as in telecommunications equipment, server rack cooling modules, and industrial automation control panels. The BG0903-B053-00L-02 excels in forcing air through dense heatsinks and restricted ducts where standard axial fans fail to perform efficiently. Additionally, the BG0903-B053-00L-02 is frequently utilized in medical instrumentation, projectors, and power supply units, ensuring critical components remain within safe thermal operating limits during continuous duty cycles.

Supplemental Images
