

BN12054B48U-P001 AVC 48VDC 120x54mm Centrifugal Fan Datasheet



Brand: AVC

SKU: [977358183474](#)

Category: Axial & Centrifugal Fans

Price: **\$32.99**

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Product Description

The AVC BN12054B48U-P001 is a high-efficiency Centrifugal Fan engineered for demanding industrial thermal management applications. Utilizing advanced DC motor technology coupled with a precision Dual Ball Bearing architecture, this unit ensures minimized friction and extended operational longevity under continuous load. The aerodynamic design of the impeller optimizes airflow trajectory, significantly reducing thermal impedance within high-density enclosures. Constructed with materials offering superior structural rigidity, the blower maintains stability at high rotational speeds, delivering consistent static pressure required for overcoming system resistance in complex ventilation networks.

Model Number: BN12054B48U-P001

Brand: AVC

Product Type: Centrifugal Blower

Rated Voltage: 48VDC

Voltage Range: 36.0 - 57.6 VDC

Rated Current: 0.66 A

Power Consumption: 31.68 W

Rated Speed: 3800 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 54.74 CFM (93.0 m³/h / 1.55 m³/min)

Max. Static Pressure: 42.16 mmH₂O (413.4 Pa / 1.66 inH₂O)

Dimensions: 120 x 120 x 54 mm

Weight: 460 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 58.5 dB(A)

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Speed Control: PWM

Termination: 4-Wire Lead

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Safety Protection: Locked Rotor Protection, Reverse Polarity Protection

This high-static pressure blower is specifically designed for applications requiring focused airflow to penetrate dense component clusters, such as rack-mounted servers, telecommunications base stations, and industrial automation control cabinets. The BN12054B48U-P001 excels in cooling heat sinks and power supplies where back pressure is a significant factor. Additionally, the BN12054B48U-P001 is frequently utilized in medical instrumentation and CNC machinery, ensuring critical components remain within safe thermal operating limits during continuous duty cycles.

Supplemental Images

