

2B12038B12U-P144 AVC 12VDC 120x120x38mm 4.66A Axial Fan Datasheet



Brand: AVC

SKU: 990173774959

Category: Axial & Centrifugal Fans

Price: **\$16.99**

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Product Page:

<https://www.equipspares.com/product/2b12038b12u-p144-avc-12vdc-120x120x38mm-4-66a-axial-fan>

Product Description

The AVC 2B12038B12U-P144 is a high-performance Axial Fan engineered for mission-critical thermal management in dense industrial environments. Utilizing advanced DC motor technology with a robust Dual Ball Bearing architecture, this unit delivers exceptional longevity and stability under high-load conditions. The aerodynamic design of the impeller optimizes airflow while maintaining structural rigidity against backpressure, significantly reducing thermal impedance in restricted enclosures. With a substantial power rating of 55.92W, the 2B12038B12U-P144 offers precise speed regulation via 4-wire PWM control, ensuring optimal cooling efficiency and rapid heat dissipation for high-density server racks and telecommunications equipment.

Model Number: 2B12038B12U-P144

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 4.66 A

Power Consumption: 55.92 W

Rated Speed: 6400 RPM ($\pm 10\%$)

Bearing Type: Dual Ball Bearing

Max. Air Flow: 252.8 CFM (429.5 m³/h / 7.15 m³/min)

Max. Static Pressure: 35.56 mmH₂O (348.7 Pa / 1.40 inH₂O)

Dimensions: 120 x 120 x 38 mm

Weight: 410 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: 4-Wire PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Noise Level: 66.5 dB(A)

Frame Material: PBT Thermoplastic (UL94V-0)

Impeller Material: PBT Thermoplastic (UL94V-0)

Ingress Protection: IP54 (Dust Protected)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Termination: 4-Wire Lead with Connector

Wire Assignment: Red (+), Black (-), Yellow (Sensor), Blue (PWM)

Certifications: CE, UL, TUV, RoHS

Protection: Locked Rotor Protection, Polarity Protection

Designed for environments requiring aggressive airflow, the 2B12038B12U-P144 is ideally suited for high-density server chassis and blade servers where static pressure is paramount. Its high-velocity output makes it a staple in telecommunications base stations and industrial automation cabinets that generate significant thermal loads. Furthermore, the 2B12038B12U-P144 is frequently deployed in precision cooling applications such as medical imaging equipment and cryptocurrency mining rigs, where consistent thermal evacuation is critical for hardware longevity and performance stability.

Supplemental Images

