

DYPB1238B2U-Y001 AVC 12VDC 120x120x38mm 5.40A Axial Fan Datasheet



Brand: AVC

SKU: 786550201185

Category: Axial & Centrifugal Fans

Price: **\$34.99**

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Product Page:

<https://www.equipspares.com/product/dypb1238b2u-y001-avc-12vdc-120x120x38mm-5-40a-axial-fan>

Product Description

The AVC DYPB1238B2U-Y001 is a high-performance DC axial fan engineered for critical thermal management applications requiring substantial airflow and static pressure. Utilizing advanced brushless DC motor technology paired with a precision dual ball bearing system, this unit ensures operational longevity and reduced thermal impedance under continuous heavy loads. The 120mm frame design incorporates aerodynamic blade geometry to maximize volumetric efficiency while maintaining structural rigidity at high rotational speeds. With a significant power rating of 64.8W, it delivers exceptional cooling capacity, making it suitable for high-density server environments and industrial enclosures where rapid heat dissipation is paramount.

Model Number: DYPB1238B2U-Y001

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12V DC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 5.40 A

Power Consumption: 64.8 W

Rated Speed: 6500 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: 35.5 mmH₂O (348 Pa / 1.40 inH₂O)

Dimensions: 120 x 120 x 38 mm

Weight: 420 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 66.5 dB(A)

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Termination: 4-Wire Lead

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

Housing Material: PBT (UL94V-0)

Blade Material: PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP54 (Standard)

Safety Certifications: CE, UL, TUV, RoHS

Motor Protection: Locked Rotor Protection, Polarity Protection

Designed for high-static pressure environments, the DYPB1238B2U-Y001 is frequently deployed in enterprise server racks and telecommunications base stations where airflow resistance is significant. The robust motor design of the DYPB1238B2U-Y001 allows it to effectively cool high-wattage components in cryptocurrency mining rigs and industrial automation cabinets. Its PWM capability ensures precise speed regulation, making it ideal for dynamic thermal loads in precision medical equipment and power supply units.

Supplemental Images

