

DAPA1549B2MPD01 AVC 12VDC 172x172x51mm High Airflow Fan Datasheet



Brand: AVC

SKU: 894849598203

Category: Axial & Centrifugal Fans

Price: \$25.99

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Product Page:

<https://www.equipspares.com/product/dapa1549b2mpd01-avc-12vdc-172x172x51mm-high-airflow-fan>

Product Description

The AVC DAPA1549B2MPD01 is a high-performance axial fan engineered for demanding thermal management applications requiring substantial volumetric airflow. Operating at a rated 12VDC with a significant current draw of 4.50A, this unit leverages advanced motor technology to overcome high system impedance. The construction features a robust die-cast aluminum housing ensuring structural rigidity under high-speed operation, paired with precision-balanced thermoplastic blades. Utilizing a dual ball bearing architecture, the DAPA1549B2MPD01 minimizes frictional losses and extends operational lifespan, making it an ideal solution for critical cooling environments where thermal dissipation and reliability are paramount.

Model Number: DAPA1549B2MPD01

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 4.50 A

Power Consumption: 54.0 W

Rated Speed: 4800 RPM (Nominal)

Bearing Type: Dual Ball Bearing

Max. Air Flow: 265.0 CFM (450.2 m³/h / 7.50 m³/min)

Max. Static Pressure: 28.5 mmH₂O (279.5 Pa / 1.12 inH₂O)

Dimensions: 172mm x 172mm x 51mm

Weight: 850 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 62.0 dB(A)

Housing Material: Die-Cast Aluminum

Blade Material: Thermoplastic PBT (UL94V-0)

Ingress Protection: IP54 (Standard)

Insulation Class: Class B

Termination: 4-Wire Leads (Red +, Black -, Yellow Tach, Blue PWM)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Safety Certifications: UL, CUL, TUV, CE

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

This heavy-duty cooling solution is specifically designed for industrial and enterprise-grade environments. The DAPA1549B2MPD01 is frequently deployed in high-density server racks, telecommunications base stations, and power supply units where heat generation is intense. Additionally, the DAPA1549B2MPD01 serves as a critical component in CNC machinery and medical instrumentation, ensuring stable operating temperatures for sensitive electronics. Its robust design allows it to function effectively in ventilation systems requiring high static pressure to push air through dense component arrays.

Supplemental Images

