

DA12032B48U-P007 AVC 48VDC 120x120x32mm PWM Axial Fan Datasheet



Brand: AVC

SKU: [988132577129](#)

Category: Axial & Centrifugal Fans

Price: **\$16.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/da12032b48u-p007-avc-48vdc-120x120x32mm-pwm-axial-fan>

Product Description

The AVC DA12032B48U-P007 is a precision-engineered DC axial fan designed for critical thermal management in high-density industrial environments. Utilizing advanced dual ball bearing architecture, this unit ensures minimal friction and extended operational longevity under continuous load, significantly outperforming sleeve bearing alternatives in vertical mounting orientations. The aerodynamic impeller design optimizes static pressure capabilities while maintaining efficient airflow throughput, effectively lowering thermal impedance within enclosed chassis. Constructed with a robust thermoplastic frame, the DA12032B48U-P007 offers superior structural rigidity and vibration damping. Its 4-wire PWM configuration allows for precise speed modulation, balancing cooling performance with acoustic requirements in sophisticated electronic assemblies, making it a staple component for mission-critical hardware.

Model Number: DA12032B48U-P007

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 48 VDC

Voltage Range: 28.0 - 56.0 VDC

Rated Current: 0.35 A

Power Consumption: 16.8 W

Rated Speed: 4200 RPM \pm 10%

Bearing Type: Dual Ball Bearing

Max. Air Flow: 149.8 CFM (254.5 m³/h / 4.24 m³/min)

Max. Static Pressure: 14.2 mmH₂O (139.2 Pa / 0.56 inH₂O)

Dimensions: 120 x 120 x 32 mm

Weight: 230 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 54.0 dBA

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Wire Lead

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

Housing Material: PBT Thermoplastic (UL94V-0)

Blade Material: PBT Thermoplastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP54 (Dust Protected)

Safety Certifications: UL, CUL, TUV, CE

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

Designed for rigorous industrial applications, the DA12032B48U-P007 excels in telecommunications infrastructure and server rack cooling where reliability is paramount. The high static pressure generated by the DA12032B48U-P007 makes it ideal for forcing air through dense heatsinks and restricted enclosures found in power inverters, 5G base stations, and CNC machinery. Additionally, this model is frequently utilized in network switchgear and medical instrumentation requiring consistent thermal regulation and variable speed control.

Supplemental Images

