

DBTB0428B2S-P175 AVC 12VDC 40x40x28mm PWM Axial Fan Datasheet



Brand: AVC

SKU: 986313065677

Category: Axial & Centrifugal Fans

Price: \$13.99

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Product Page:

<https://www.equipspares.com/product/dbtb0428b2s-p175-avc-12vdc-40x40x28mm-pwm-axial-fan>

Product Description

The AVC DBTB0428B2S-P175 is a precision-engineered DC axial fan designed for high-density thermal management applications. Featuring advanced motor technology and a durable dual ball bearing system, this unit ensures optimal rotational stability and extended operational lifespan under continuous load. The aerodynamic impeller design minimizes turbulence while maximizing static pressure, making it ideal for overcoming high thermal impedance in restricted enclosures. With integrated PWM speed control, the DBTB0428B2S-P175 dynamically adjusts airflow based on thermal requirements, optimizing energy efficiency and acoustic performance while maintaining structural rigidity in demanding industrial environments.

Model Number: DBTB0428B2S-P175

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.50 A

Input Power: 6.00 W

Rated Speed: 13000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 23.8 CFM (40.4 m³/h / 0.67 m³/min)

Max. Static Pressure: 1.95 inH₂O (485 Pa / 49.5 mmH₂O)

Dimensions: 40 x 40 x 28 mm

Weight: 48 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Wire Lead with Connector

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

Housing Material: Thermoplastic PBT (UL94V-0)

Impeller Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Safety Approvals: UL, CUL, TUV, CE

This high-performance cooling solution is specifically engineered for compact electronic assemblies requiring substantial static pressure. The DBTB0428B2S-P175 is frequently utilized in 1U server racks, network switches, and power supply units where space is limited but heat dissipation is critical. Additionally, the DBTB0428B2S-P175 serves as a reliable component in industrial automation equipment and telecommunications hardware, ensuring component longevity through effective thermal regulation.

Supplemental Images

