

DBTA0420B2U AVC 12VDC 40x40x20mm PWM DC Axial Fan Datasheet



Brand: AVC

SKU: 914328728553

Category: Axial & Centrifugal Fans

Price: \$7.99

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Product Page:

<https://www.equipspares.com/product/dbta0420b2u-avc-12vdc-40x40x20mm-pwm-dc-axial-fan>

Product Description

The AVC DBTA0420B2U is a high-performance DC axial fan engineered for critical thermal management in space-constrained industrial and server environments. Utilizing advanced dual ball bearing architecture, this unit ensures exceptional structural rigidity and reduced frictional coefficients, significantly extending operational lifespan under continuous load. The aerodynamic impeller design is optimized to deliver high static pressure, effectively overcoming system impedance in dense electronic enclosures. Featuring a 4-wire PWM interface, the DBTA0420B2U allows for dynamic speed modulation, enabling precise control over thermal dissipation while managing acoustic output. Its robust construction and high power density make it a superior choice for demanding cooling applications requiring reliable airflow.

Model Number: DBTA0420B2U

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

Power Input: 6.00 W

Rated Speed: 13000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 24.00 CFM (40.77 m³/h / 0.68 m³/min)

Max. Static Pressure: 28.00 mmH₂O (274.59 Pa / 1.10 inH₂O)

Dimensions: 40x40x20mm

Weight: 48 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: 4-Wire PWM

Noise Level: 54.0 dBA

Housing Material: PBT (UL94V-0)

Impeller Material: PBT (UL94V-0)

Termination: 4-Wire Leads with Connector

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Safety Certifications: UL, TUV, CE

The DBTA0420B2U is specifically designed for high-density computing and industrial applications where space is limited but cooling requirements are severe. It is widely deployed in 1U server racks, network switches, and compact power supply units where high static pressure is necessary to force air through restricted heatsink fins. Additionally, the DBTA0420B2U is utilized in precision medical devices and CNC automation controllers, providing the consistent and powerful airflow needed to prevent component thermal throttling.

Supplemental Images

