

DS04020B12U-172 AVC 12VDC 40x40x20mm 3-Wire Axial Fan Datasheet



Brand: AVC

SKU: [950221789312](#)

Category: Axial & Centrifugal Fans

Price: **\$12.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/ds04020b12u-172-avc-12vdc-40x40x20mm-3-wire-axial-fan>

Product Description

The AVC DS04020B12U-172 is a precision-engineered DC Axial Fan designed for high-density thermal management applications requiring robust airflow in compact envelopes. Utilizing advanced Dual Ball Bearing architecture, this unit ensures exceptional longevity and structural rigidity under continuous operation, significantly outperforming sleeve bearing alternatives in high-temperature environments. The aerodynamic impeller design optimizes airflow while minimizing turbulence, resulting in a favorable thermal impedance profile for critical components. Engineered by Asia Vital Components, the DS04020B12U-172 integrates a high-efficiency DC motor with a 3-wire interface, facilitating precise speed monitoring via tachometer signal output. Its compact 40mm form factor allows for seamless integration into space-constrained enclosures, delivering reliable cooling performance essential for maintaining component stability within industrial and computing systems.

Model Number: DS04020B12U-172

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.25 A

Power: 3.00 W

Rated Speed: 9500 RPM (Nominal)

Bearing Type: Dual Ball Bearing

Max. Air Flow: 10.8 CFM (18.35 m³/h / 0.30 m³/min)

Max. Static Pressure: 0.38 inH₂O (94.6 Pa / 9.65 mmH₂O)

Dimensions: 40 x 40 x 20 mm

Weight: 35 g

Life Expectancy: 70,000 Hours @ 40°C

Termination: 3-Wire Lead with Connector

Speed Control: Tachometer Output (Speed Sensor)

Housing Material: PBT (UL94V-0)

Impeller Material: PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Noise Level: 38.0 dB(A)

Mounting Orientation: Any

The DS04020B12U-172 is specifically calibrated for deployment in compact electronic assemblies requiring active thermal dissipation. Common implementations include 1U server rack cooling, network switchgear, and industrial automation control panels where space is at a premium. The DS04020B12U-172 is also frequently utilized in custom modification projects for 3D printers, chipset cooling, and small form factor PC builds, ensuring critical components remain within safe operating temperature ranges during peak loads.

Supplemental Images

