

DS04020B12U-177 AVC 12VDC 40x40x20mm 3-Wire Axial Fan Datasheet



Brand: AVC

SKU: [1014233321437](#)

Category: Axial & Centrifugal Fans

Price: **\$16.99**

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Product Page:

<https://www.equipspares.com/product/ds04020b12u-177-avc-12vdc-40x40x20mm-3-wire-axial-fan>

Product Description

The AVC DS04020B12U-177 is a precision-engineered DC axial fan designed for high-density electronic environments requiring efficient thermal management. Utilizing advanced dual ball bearing architecture, this unit ensures minimal frictional resistance and extended operational longevity under continuous load conditions. The aerodynamic impeller design optimizes airflow while maintaining structural rigidity, effectively reducing thermal impedance within compact enclosures. Engineered for reliability, the DS04020B12U-177 integrates robust motor construction to deliver consistent performance, making it an ideal solution for critical industrial and computing applications where component stability and heat dissipation are paramount.

Model Number: DS04020B12U-177

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.25 A

Power Consumption: 3.00 W

Rated Speed: 9500 RPM \pm 10%

Bearing Type: Dual Ball Bearing

Max. Air Flow: 11.50 CFM (19.54 m³/h / 0.32 m³/min)

Max. Static Pressure: 10.67 mmH₂O (104.64 Pa / 0.42 inH₂O)

Dimensions: 40x40x20 mm

Weight: 28.0 g

Noise Level: 39.0 dB(A)

Life Expectancy: 70,000 Hours at 40°C

Termination: 3-Wire (Lead Wire)

Connector: Standard 3-Pin Motherboard Header

Speed Control: Tachometer Output (Frequency Generator)

Housing Material: PBT (UL94V-0)

Impeller Material: PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP40

Safety Certifications: CE, UL, TUV, RoHS

This cooling solution is specifically engineered for compact electronic assemblies such as 1U server racks, network switches, and industrial automation control panels. The DS04020B12U-177 provides critical airflow in tight spaces, preventing thermal throttling in sensitive components like power supplies and drive arrays. Additionally, the DS04020B12U-177 is frequently utilized in medical instrumentation and telecommunications equipment where reliable, continuous heat dissipation is required to maintain system integrity and operational uptime.

Supplemental Images

