

DS12025B12H-P084 AVC 12VDC 120x120x25mm PWM Axial Fan Datasheet



Brand: AVC

SKU: 674137823931

Category: Axial & Centrifugal Fans

Price: \$16.99

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Product Page:

<https://www.equipspares.com/product/ds12025b12h-p084-avc-12vdc-120x120x25mm-pwm-axial-fan>

Product Description

The AVC DS12025B12H-P084 is a precision-engineered DC Axial Fan designed for high-demand thermal management applications requiring dynamic speed regulation. Utilizing advanced Double Ball Bearing architecture, this unit ensures superior structural rigidity and longevity under continuous operation, significantly reducing frictional wear compared to sleeve bearing alternatives. The aerodynamic impeller design optimizes airflow while minimizing turbulence-induced noise, maintaining a favorable thermal impedance profile even at high rotational speeds. Integrated with Pulse Width Modulation (PWM) signal capabilities, the motor allows for precise RPM modulation based on real-time thermal loads, enhancing energy efficiency and system stability. This 12VDC cooling solution is constructed with robust thermoplastic housing, meeting rigorous industrial standards for reliability and performance in variable environments.

Model Number: DS12025B12H-P084

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.75 A

Input Power: 9.00 W

Rated Speed: 3800 RPM

Bearing Type: Double Ball Bearing

Max. Air Flow: 108.4 CFM (184.1 m³/h / 3.07 m³/min)

Max. Static Pressure: 9.20 mmH₂O (90.22 Pa / 0.36 inH₂O)

Dimensions: 120x120x25mm

Weight: 180 g

Life Expectancy: 70,000 Hours @ 40°C

Speed Control: PWM (Pulse Width Modulation)

Noise Level: 48.0 dB(A)

Housing Material: PBT (UL94V-0)

Impeller Material: PBT (UL94V-0)

Termination: 4-Wire Lead

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Protection: Locked Rotor Protection, Polarity Protection

Engineered for versatility, the DS12025B12H-P084 serves as a critical component in high-density electronic enclosures and server rack cooling systems where heat dissipation is paramount. Its PWM capability makes it ideal for precision medical devices and automated CNC machinery requiring variable cooling states to maintain optimal operating temperatures. The DS12025B12H-P084 is also frequently deployed in telecommunications base stations and high-wattage power supply units, ensuring stable operation by effectively evacuating waste heat from sensitive components.

Supplemental Images

