AD0412HB-C50 ADDA 12VDC 40x40x20mm Inverter Cooling Axial Fan Datasheet

Brand: ADDA

SKU: 903231980740

Category: Axial & Centrifugal Fans

Price: **$8.99**

E-mail: sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/ad0412hb-c50-adda-12vdc-40x40x20mm-inverter-cooling-axial-fan

Product Description

The ADDA AD0412HB-C50 is a precision-engineered DC Axial Fan designed for high-reliability thermal management applications. Utilizing a robust Brushless DC (BLDC) motor architecture paired with a dual ball bearing system, this unit ensures exceptional rotational stability and extended operational longevity under continuous load. The 40x40x20mm form factor features an aerodynamically optimized impeller housed within a rigid PBT (UL94V-0) frame, delivering a superior balance of airflow and static pressure. Engineered for thermal impedance reduction, the AD0412HB-C50 maintains structural rigidity and consistent performance in demanding industrial environments, making it an ideal solution for compact electronic enclosures and power conversion systems.

Model Number: AD0412HB-C50
Brand: ADDA
Product Type: DC Axial Fan
Rated Voltage: 12VDC
Operating Voltage Range: 10.8 - 13.2 VDC
Rated Current: 0.11 A
Input Power: 1.32 W
Rated Speed: 6800 RPM
Bearing Type: Ball Bearing
Max. Air Flow: 8.2 CFM (13.93 m^3/h / 0.23 m^3/min)

Max. Static Pressure: 5.59 mmH_2O (54.8 Pa / 0.22 inH_2O)
Dimensions: 40x40x20mm
Noise Level: 29.0 dB-A
Frame Material: Glass Fiber Reinforced PBT (UL94V-0)
Impeller Material: Glass Fiber Reinforced PBT (UL94V-0)
Termination: 2-Wire Leads
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Life Expectancy: 70,000 Hours @ 40°C
Weight: 28 g

This cooling solution is specifically calibrated for integration into variable frequency drives (VFDs) and industrial inverters, where consistent airflow is critical for component longevity. The AD0412HB-C50 is frequently deployed in compact server racks, telecommunications equipment, and medical instrumentation requiring reliable heat dissipation. Additionally, the AD0412HB-C50 serves as a vital component in network switches and power supply units, ensuring optimal operating temperatures are maintained to prevent thermal throttling in mission-critical hardware.

Supplemental Images