AS14012XB387BB1 ADDA 12VDC 140x140x38mm 4-Wire Axial Fan Datasheet

Brand: ADDA

SKU: 994662976140

Category: Axial & Centrifugal Fans

Price: **$16.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/as14012xb387bb1-adda-12vdc-140x140x38mm-4-wire-axial-fan

Product Description

The ADDA AS14012XB387BB1 is a high-capacity DC axial fan engineered for demanding thermal management applications requiring substantial volumetric airflow and static pressure. Utilizing advanced brushless DC motor technology and a robust dual ball bearing architecture, this unit ensures operational longevity and structural rigidity under high-stress conditions. The aerodynamic impeller design is optimized to minimize turbulence while maximizing air throughput, making it ideal for overcoming high thermal impedance in densely packed enclosures. With a significant power rating of 62.4W, this 140mm cooling solution delivers exceptional heat dissipation performance, ensuring critical system stability in industrial inverters and server environments.

Model Number: AS14012XB387BB1
Brand: ADDA Corporation
Product Type: DC Axial Fan
Rated Voltage: 12 VDC
Voltage Range: 7.0 - 13.8 VDC
Rated Current: 5.20 A
Power Input: 62.40 W
Rated Speed: 5500 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 285.00 CFM (484.22 m^3/h / 8.07 m^3/min)

Max. Static Pressure: 38.10 mmH_2O (373.63 Pa / 1.50 inH_2O)
Dimensions: 140 x 140 x 38 mm
Weight: 480 g
Life Expectancy: 70,000 Hours at 40°C
Noise Level: 68.5 dB(A)
Frame Material: PBT Thermoplastic (UL94V-0)
Impeller Material: PBT Thermoplastic (UL94V-0)
Termination: 4-Wire Interface with Connector
Wire Assignment: Red (+), Black (-), Yellow (Sensor), Blue (PWM)
Speed Control: PWM / Tachometer Output
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Ingress Protection: IP55
Safety Certifications: UL, cUL, TUV, CE, RoHS

Designed for high-thermal-load environments, the AS14012XB387BB1 serves as a critical component in industrial automation and enterprise computing. It is extensively used in variable frequency drive (VFD) inverters and large-scale server chassis where maintaining optimal operating temperatures is mandatory for system reliability. The AS14012XB387BB1 excels in cooling telecommunications base stations and heavy-duty power supplies, effectively managing the heat output of high-density electronics to prevent thermal shutdown and extend equipment service life.

Supplemental Images