AD04012HB285B02 ADDA 12VDC 40x40x20mm IP68 Axial Fan Datasheet

Brand: ADDA

SKU: 1005952111219

Category: Axial & Centrifugal Fans

Price: **$19.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/ad04012hb285b02-adda-12vdc-40x40x20mm-ip68-axial-fan

Product Description

The ADDA AD04012HB285B02 is a precision-engineered DC axial fan designed for critical thermal management in high-density environments. Utilizing advanced DC brushless motor technology and a durable ball bearing architecture, this unit ensures minimal friction and extended operational longevity under continuous load. The aerodynamic impeller design optimizes airflow dynamics to reduce thermal impedance, while the robust housing provides structural rigidity essential for high-speed operation. Featuring an IP68 ingress protection rating, the AD04012HB285B02 is fully encapsulated against dust and water immersion, making it suitable for harsh industrial conditions requiring reliable forced convection cooling and consistent performance.

Model Number: AD04012HB285B02
Brand: ADDA
Product Type: DC Axial Fan
Rated Voltage: 12VDC
Voltage Range: 10.8 - 13.2 VDC
Rated Current: 0.56 A
Power Consumption: 6.72 W
Rated Speed: 13000 RPM (Nominal)
Bearing Type: Dual Ball Bearing
Max. Air Flow: 24.0 CFM (40.77 m^3/h / 0.68 m^3/min)

Max. Static Pressure: 22.5 mmH_2O (220.6 Pa / 0.88 inH_2O)
Dimensions: 40x40x20mm
Ingress Protection: IP68 (Dust Tight / Immersion)
Noise Level: 52.0 dB(A)
Speed Control: 4-Wire PWM (Pulse Width Modulation)
Termination: 4-Wire Lead
Housing Material: PBT Plastic (UL94V-0)
Blade Material: PBT Plastic (UL94V-0)
Operating Temperature: -10°C to +70°C
Life Expectancy: 70,000 Hours at 40°C
Motor Protection: Locked Rotor Protection, Polarity Protection

This high-performance cooling solution is engineered for demanding applications such as 1U server racks, telecommunications equipment, and compact industrial machinery where space is limited but heat dissipation requirements are high. The AD04012HB285B02 excels in harsh environments due to its waterproof design, making it ideal for outdoor enclosures and CNC control systems exposed to moisture or particulates. Integrators rely on the AD04012HB285B02 for its precise speed control via the 4-wire interface, ensuring optimal thermal regulation in medical devices and high-density power supply units.

Supplemental Images


ADDA
DC BRUSHLESS
MODEL AD04012HB285B02
DC 12V
0.56A
(05NSGR)
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