AFB0412VHB-9Q39 Delta 12VDC 40x40x15mm 3-Wire Axial Fan Datasheet

Brand: Delta

SKU: 960669973768

Category: Axial & Centrifugal Fans

Price: **$11.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/afb0412vhb-9q39-delta-12vdc-40x40x15mm-3-wire-axial-fan

Product Description

The Delta AFB0412VHB-9Q39 is a high-performance DC Axial Fan engineered for demanding thermal management applications requiring compact dimensions and elevated static pressure. Utilizing advanced DC brushless motor technology paired with a precision-machined Dual Ball Bearing system, this unit ensures minimal friction and extended operational longevity under continuous load. The aerodynamic impeller design optimizes airflow efficiency, significantly reducing thermal impedance within high-density electronic enclosures. Constructed with high-grade thermoplastic components, the fan maintains structural rigidity and dimensional stability, making it an ideal solution for mitigating heat accumulation in restricted spaces.

Model Number: AFB0412VHB-9Q39
Brand: Delta Electronics
Product Type: DC Axial Fan
Rated Voltage: 12 VDC
Voltage Range: 7.0 - 13.8 VDC
Rated Current: 0.24 A
Input Power: 2.88 W
Rated Speed: 9500 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 14.83 CFM (25.20 m^3/h / 0.42 m^3/min)

Max. Static Pressure: 11.48 mmH_2O (112.6 Pa / 0.45 inH_2O)
Dimensions: 40 x 40 x 15 mm
Weight: 33 g
Life Expectancy: 70,000 Hours at 40°C
Noise Level: 41.5 dB-A
Termination: 3-Wire Leads
Wire Color Code: Red (+), Black (-), Blue (Tach/FG)
Output Signal: Frequency Generator (Tachometer)
Housing Material: Plastic (UL 94V-0)
Impeller Material: Plastic (UL 94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +75°C
Ingress Protection: IP20
Safety Protection: Impedance Protected, Reverse Polarity
Certifications: UL, cUL, TUV, CE

The AFB0412VHB-9Q39 is specifically designed for integration into compact electronic assemblies where reliable forced convection is critical. Common deployment scenarios include 1U server rack cooling modules, network switches, and industrial power supply units requiring active thermal dissipation. The AFB0412VHB-9Q39 is also frequently utilized in medical instrumentation and precision CNC control systems to maintain optimal operating temperatures for sensitive components.

Supplemental Images