TFA0412BN-Z3L Delta 12VDC 40x40x28mm Dual Ball Axial Fan Datasheet

Brand: Delta

SKU: 895535739201

Category: Axial & Centrifugal Fans

Price: **$9.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/tfa0412bn-z3l-delta-12vdc-40x40x28mm-dual-ball-axial-fan

Product Description

The Delta TFA0412BN-Z3L is a high-performance DC axial fan engineered for demanding thermal management applications requiring substantial airflow in a compact form factor. Utilizing advanced dual ball bearing architecture, this unit ensures minimized friction and extended operational longevity under continuous load. The aerodynamic impeller design optimizes static pressure capabilities, effectively overcoming high thermal impedance in dense electronic enclosures. Constructed with industrial-grade materials to maintain structural rigidity, the fan operates at 12VDC with a current draw of 0.60A. Its robust design makes it an ideal solution for critical cooling environments where reliability and performance stability are paramount.

Model Number: TFA0412BN-Z3L
Brand: Delta Electronics
Product Type: DC Axial Fan
Rated Voltage: 12VDC
Voltage Range: 7.0 - 13.2 VDC
Rated Current: 0.60 A
Input Power: 7.20 W
Rated Speed: 13000 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 24.0 CFM (0.68 m^3/min)

Max. Static Pressure: 1.80 inH2O (448 Pa)
Dimensions: 40 x 40 x 28 mm
Weight: 45 g
Life Expectancy: 70,000 Hours at 40°C
Termination: 2-Wire Leads (Red +, Black -)
Housing Material: PBT Plastic (UL94V-0)
Impeller Material: PBT Plastic (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +75°C
Ingress Protection: IP20
Safety Certifications: UL, cUL, TUV, CE

The TFA0412BN-Z3L is specifically designed for high-density electronic environments such as rack-mounted server chassis and industrial power supply units. Its compact footprint allows for integration into tight spaces within telecommunications equipment and network switches where efficient heat dissipation is critical. By delivering concentrated airflow, the TFA0412BN-Z3L effectively manages thermal loads in continuous-duty systems, ensuring component stability in data centers and precision instrumentation setups.

Supplemental Images