

TFA0412BN-YTA Delta 12VDC 40x40x28mm Server Axial Fan Datasheet



Brand: Delta

SKU: [896627324406](#)

Category: Axial & Centrifugal Fans

Price: **\$9.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/tfa0412bn-yta-delta-12vdc-40x40x28mm-server-axial-fan>

Product Description

The Delta TFA0412BN-YTA is a high-performance DC axial fan engineered for mission-critical thermal management in high-density server environments. Utilizing advanced DC brushless motor technology and a precision dual ball bearing architecture, this unit minimizes thermal impedance while maintaining exceptional structural rigidity under high-speed operation. The aerodynamic impeller design is optimized for high static pressure, ensuring effective airflow penetration through restrictive chassis and densely packed components. Its robust construction ensures reliability in continuous duty cycles, making it an ideal solution for demanding industrial cooling applications requiring superior heat dissipation.

Model Number: TFA0412BN-YTA

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.60 A

Power Consumption: 7.20 W

Rated Speed: 16000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 26.50 CFM (45.02 m³/h / 0.75 m³/min)

Max. Static Pressure: 1.95 inH₂O (485.4 Pa / 49.5 mmH₂O)

Dimensions: 40 x 40 x 28 mm

Weight: 45 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 56.0 dBA

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Ingress Protection: IP40

Insulation Class: Class A

Housing Material: PBT Plastic (UL94V-0)

Blade Material: PBT Plastic (UL94V-0)

Termination: 4-Wire Lead with Connector

Operating Temperature: -10 to +70 °C

Storage Temperature: -40 to +75 °C

Certifications: UL, cUL, TUV, CE

Protection: Locked Rotor Protection, Polarity Protection

The TFA0412BN-YTA is specifically designed for high-static pressure applications found in enterprise-grade hardware. Common deployments include 1U server racks, redundant power supply units, and high-performance networking switches where space is limited but cooling requirements are extreme. The TFA0412BN-YTA excels in forcing air through dense heatsinks and restricted enclosures, ensuring component stability in telecommunications equipment and industrial automation systems.

Supplemental Images

