

# TCA1748BT-00 Delta 48VDC 175mm PWM Centrifugal Fan Datasheet



**Brand:** Delta

**SKU:** 986562703939

**Category:** Axial & Centrifugal Fans

**Price:** **\$133.99**

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Product Page:

<https://www.equipspares.com/product/tca1748bt-00-delta-48vdc-175mm-pwm-centrifugal-fan>

## Product Description

The Delta TCA1748BT-00 is a high-performance Centrifugal Fan engineered for critical thermal management in industrial environments. Utilizing advanced DC motor technology and a robust Dual Ball Bearing architecture, this unit delivers exceptional airflow stability and longevity under continuous operation. The aerodynamic impeller design minimizes turbulence while maximizing static pressure, ensuring efficient heat dissipation in high-impedance systems. Its structural rigidity and precision balancing reduce vibration, making it suitable for sensitive electronic enclosures requiring reliable thermal regulation.

Model Number: TCA1748BT-00

Brand: Delta Electronics

Product Type: Centrifugal Fan / Blower

Rated Voltage: 48VDC

Voltage Range: 36.0 - 60.0 VDC

Rated Current: 5.88 A

Power Consumption: 282.2 W

Rated Speed: 4600 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 610.0 CFM (1036 m<sup>3</sup>/h / 17.27 m<sup>3</sup>/min)

Max. Static Pressure: 4.85 inH<sub>2</sub>O (1208 Pa / 123.2 mmH<sub>2</sub>O)

Dimensions: 175mm x 175mm x 69mm

Weight: 1.85 kg

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Noise Level: 78.5 dB(A)

Impeller Material: PA66 Plastic (UL94V-0)

Housing Material: Die-Cast Aluminum

Termination: 4-Wire Lead

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Ingress Protection: IP54

Insulation Class: Class A

Safety Protection: Locked Rotor Protection, Polarity Protection

Certifications: UL, cUL, TUV, CE

Designed for high-density server racks and telecommunications infrastructure, the TCA1748BT-00 ensures optimal operating temperatures for mission-critical hardware. Its high static pressure capabilities make it ideal for forcing air through dense heat sinks in medical devices and industrial automation equipment. By integrating the TCA1748BT-00 into network switches and power supply units, engineers can maintain system reliability and prevent thermal throttling in demanding operational climates.

## Supplemental Images

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