

TCA1748ATAGP Delta 48VDC 175x69mm 4-Wire Centrifugal Fan Datasheet



Brand: Delta

SKU: 930154791523

Category: Axial & Centrifugal Fans

Price: **\$104.99**

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Product Page:

<https://www.equipspares.com/product/tca1748atagp-delta-48vdc-175x69mm-4-wire-centrifugal-fan>

Product Description

The Delta TCA1748ATAGP is a high-efficiency Centrifugal Fan engineered for mission-critical thermal management in industrial environments. Utilizing advanced DC motor technology and a precision-balanced impeller, this unit optimizes airflow dynamics to minimize thermal impedance within high-density enclosures. The construction features a robust housing that ensures structural rigidity under high-stress operational conditions, making it ideal for continuous duty cycles. Equipped with a reliable bearing system, the TCA1748ATAGP delivers consistent performance while mitigating vibrational noise. Its aerodynamic design focuses on delivering high static pressure, essential for overcoming resistance in tightly packed server racks and industrial control cabinets.

Model Number: TCA1748ATAGP

Brand: Delta Electronics

Product Type: Centrifugal Blower Fan

Rated Voltage: 48 VDC

Voltage Range: 36.0 - 60.0 VDC

Rated Current: 2.10 A

Power Consumption: 100.8 W

Rated Speed: 3800 RPM

Bearing Type: Precision Ball Bearing

Max. Air Flow: 310.5 CFM (527.5 m³/h / 8.79 m³/min)

Max. Static Pressure: 48.5 mmH₂O (475.6 Pa / 1.91 inH₂O)

Dimensions: 175 x 175 x 69 mm

Weight: 1250 g

Life Expectancy: 70,000 Hours (L10 at 40°C)

Speed Control: PWM Speed Control / Tachometer Output

Ingress Protection: IP54

Insulation Class: Class A

Noise Level: 64.5 dB(A)

Housing Material: Die-Cast Aluminum / PBT (UL94V-0)

Termination: 4-Wire Leads (Red +, Black -, Blue PWM, Yellow Tach)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Mounting Orientation: Any Orientation

Certifications: UL, cUL, TUV, CE, RoHS

Safety Protection: Locked Rotor Protection, Reverse Polarity Protection

The Delta TCA1748ATAGP is specifically designed for forced-air cooling in restricted spaces such as server racks, telecom base stations, and industrial automation cabinets. By delivering concentrated airflow, the TCA1748ATAGP effectively dissipates heat from sensitive electronic components, ensuring system stability and longevity. This blower is frequently utilized in CNC machinery and power supply units where high static pressure is required to push air through dense heat sinks. Integrating the TCA1748ATAGP into your thermal solution guarantees reliable performance in demanding environmental conditions.

Supplemental Images

