

THB2048CT-9E1Y Delta 48VDC 200x70mm High Airflow Axial Fan Datasheet



Brand: Delta

SKU: 990760582905

Category: Axial & Centrifugal Fans

Price: \$163.99

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Product Page:

<https://www.equipspares.com/product/thb2048ct-9e1y-delta-48vdc-200x70mm-high-airflow-axial-fan>

Product Description

The Delta THB2048CT-9E1Y is a high-performance axial fan engineered for extreme industrial cooling applications requiring substantial airflow and static pressure. Utilizing advanced DC motor technology and a robust dual ball bearing architecture, this unit ensures long-term reliability under continuous high-load operations. The aerodynamic design features optimized impeller geometry to minimize turbulence while maximizing air throughput, effectively managing thermal impedance in high-density systems. Its structural rigidity, provided by a die-cast aluminum frame, and precision balancing reduce vibration, making it suitable for critical thermal management environments where component stability is paramount.

Model Number: THB2048CT-9E1Y

Brand: Delta Electronics

Product Type: Axial Fan

Rated Voltage: 48VDC

Voltage Range: 36.0 - 60.0 VDC

Rated Current: 5.88 A

Power Input: 282.2 W

Rated Speed: 5800 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 568.0 CFM (965.0 m³/h)

Max. Static Pressure: 3.85 inH₂O (958 Pa)

Dimensions: 200mm x 200mm x 70mm

Weight: 1850 g

Noise Level: 78.5 dB-A

Frame Material: Aluminum Die-Cast

Impeller Material: Reinforced Plastic UL94V-0

Ingress Protection: IP54

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Termination: Lead Wires (Red +, Black -, Blue PWM, Yellow Tach)

Speed Control: PWM Control

Signal Output: Tachometer (Frequency Generator)

Safety Protection: Locked Rotor Protection, Reverse Polarity Protection

Life Expectancy: 70,000 Hours at 40°C

Designed for demanding thermal environments, the THB2048CT-9E1Y is frequently deployed in high-capacity server racks, telecommunications base stations, and industrial automation enclosures. Its high static pressure capabilities make it ideal for forcing air through dense heat sinks in power inverters and medical imaging equipment. The THB2048CT-9E1Y ensures critical components remain within safe operating temperatures, preventing thermal throttling in CNC machinery and large-scale ventilation systems.

Supplemental Images

