TCA1748BT-AJ3C Delta 48VDC 175x69mm PWM Centrifugal Fan Datasheet

Brand: Delta

SKU: 949787708576

Category: Axial & Centrifugal Fans

Price: **$119.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/tca1748bt-aj3c-delta-48vdc-175x69mm-pwm-centrifugal-fan

Product Description

The Delta TCA1748BT-AJ3C is a Centrifugal Fan engineered for high-impedance industrial thermal management systems requiring exceptional static pressure generation. Utilizing advanced DC motor technology and a precision-balanced impeller, this unit minimizes thermal impedance while maintaining structural rigidity under high-load conditions. The blower features a robust ball bearing architecture that ensures consistent rotational stability and extended operational longevity, even in demanding environments. Its aerodynamic design is optimized to deliver concentrated airflow against significant backpressure, making the TCA1748BT-AJ3C a critical component for maintaining system reliability in power-dense applications.

Model Number: TCA1748BT-AJ3C
Brand: Delta
Product Type: Centrifugal Fan
Rated Voltage: 48VDC
Voltage Range: 36.0 - 60.0 VDC
Rated Current: 5.00 A
Power: 240.0 W
Rated Speed: 4300 RPM
Bearing Type: Ball Bearing
Max. Air Flow: 420.0 CFM (713.6 m^3/h / 11.89 m^3/min)

Max. Static Pressure: 3.85 inH_2O (958.5 Pa / 97.7 mmH_2O)
Dimensions: 175x69mm
Weight: 850 g
Life Expectancy: 70000 hrs at 40°C
Speed Control: 4-Wire PWM
Housing Material: PBT Plastic (UL94V-0)
Impeller Material: PA66 Plastic (UL94V-0)
Ingress Protection: IP54
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +75°C
Certifications: UL, cUL, TUV, CE

The TCA1748BT-AJ3C is widely utilized in mission-critical infrastructure such as telecommunications base stations, high-performance server racks, and industrial automation enclosures where space is constrained and airflow resistance is high. Engineers frequently specify the TCA1748BT-AJ3C for cooling high-power inverters and medical instrumentation, relying on its substantial pressure capabilities to force air through dense heatsinks and filter arrays.

Supplemental Images


HW P/N: 32030140
MODEL:TCA1748BT
DC48V 5.00A -AJ3C
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A0E6000404 Y
EP
ZL
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4623G09R MADE IN CHINA