D1751S48B9CP-49 Nidec 48VDC 172x51mm PWM Axial Fan Datasheet

Brand: Nidec

SKU: 977784942405

Category: Axial & Centrifugal Fans

Price: **$139.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/d1751s48b9cp-49-nidec-48vdc-172x51mm-pwm-axial-fan

Product Description

The Nidec D1751S48B9CP-49 is a high-performance industrial Axial Fan engineered for critical thermal management in high-impedance systems. Utilizing robust DC motor technology paired with a precision dual ball bearing architecture, this unit is designed to deliver exceptional longevity and reliability under continuous heavy loads. The aerodynamic impeller geometry is optimized to maximize static pressure while maintaining structural rigidity, effectively reducing thermal impedance in dense electronic enclosures. Featuring a die-cast aluminum frame for superior heat dissipation and durability, the D1751S48B9CP-49 integrates a 4-wire interface supporting PWM speed control, allowing for precise modulation of airflow to match real-time system cooling requirements.

Model Number: D1751S48B9CP-49
Brand: Nidec Servo
Product Type: DC Axial Fan
Rated Voltage: 48 VDC
Voltage Range: 36.0 - 56.0 VDC
Rated Current: 2.3 A
Power Consumption: 110.4 W
Bearing Type: Dual Ball Bearing
Dimensions: 172mm x 150mm x 51mm

Frame Style: Side Cut / Oval
Termination: 4-Wire Leads
Speed Control: PWM (Pulse Width Modulation)
Signal Output: Tachometer (Frequency Generator)
Frame Material: Die-Cast Aluminum
Impeller Material: Reinforced Plastic (UL94V-0)
Operating Temperature: -10°C to +70°C
Mounting Orientation: Any
Ingress Protection: IP20
Application: Server / Telecom / Industrial

Designed for mission-critical thermal regulation, the D1751S48B9CP-49 is extensively utilized in telecommunications infrastructure and high-capacity server racks where sustained airflow is paramount. The D1751S48B9CP-49 excels in cooling variable frequency drives (VFDs), industrial rectifiers, and large-scale power supply units. Its high-pressure capabilities make it suitable for forcing air through dense heat sinks in medical imaging equipment and automated CNC machinery control cabinets.

Supplemental Images