

D1751U24B8CP372 Nidec 24VDC 172mm 3.4A Axial Fan Datasheet



Brand: Nidec

SKU: 992782991340

Category: Axial & Centrifugal Fans

Price: **\$289.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/d1751u24b8cp372-nidec-24vdc-172mm-3-4a-axial-fan>

Product Description

The Nidec D1751U24B8CP372 is a high-capacity axial fan engineered for demanding thermal management in industrial power electronics. Utilizing advanced DC motor technology and a robust dual ball bearing architecture, this unit delivers exceptional airflow stability under high static pressure conditions. The aerodynamic impeller design minimizes turbulence while maximizing throughput, essential for maintaining optimal operating temperatures in variable frequency drives. Its structural rigidity and thermal impedance characteristics make it specifically suitable for continuous duty cycles in harsh electrical environments, ensuring reliability for critical infrastructure components like ABB inverters.

Model Number: D1751U24B8CP372

Brand: Nidec

Product Type: DC Axial Fan

OEM Part Number: 3AXD50000049451 (ABB)

Rated Voltage: 24VDC

Voltage Range: 16.0 - 27.6 VDC

Rated Current: 3.4 A

Power Input: 81.6 W

Rated Speed: 4300 RPM (Nominal)

Bearing Type: Dual Ball Bearing

Max. Air Flow: 295.0 CFM (501 m³/h / 8.35 m³/min)

Max. Static Pressure: 28.5 mmH₂O (279 Pa / 1.12 inH₂O)

Dimensions: 172mm x 150mm x 51mm

Frame Material: Aluminum Die-Cast

Impeller Material: Reinforced Plastic UL94V-0

Termination: 3-Wire with Connector

Signal Output: Tachometer / Speed Sensor

Operating Temperature: -10°C to +70°C

Life Expectancy: 70,000 Hours at 40°C

Application Compatibility: ABB ACS580 / ACS880 Series (Frames R8, R9)

This cooling solution is primarily deployed within heavy-duty industrial automation systems, specifically serving as the OEM replacement for ABB ACS580 and ACS880 series variable frequency drives (Frames R8 and R9). The D1751U24B8CP372 ensures efficient heat dissipation for power modules in server cabinets, renewable energy inverters, and large-scale motor control centers. Operators rely on the D1751U24B8CP372 to prevent thermal throttling in mission-critical telecommunications equipment and precision CNC machinery requiring sustained high-volume airflow.

Supplemental Images

