

D1751S48B9CP-54 Nidec 48V High Performance Inverter Fan Datasheet



Brand: Nidec

SKU: 738046942746

Category: Axial & Centrifugal Fans

Price: \$240.99

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Product Page:

<https://www.equipspares.com/product/d1751s48b9cp-54-nidec-48v-high-performance-inverter-fan>

Product Description

The Nidec D1751S48B9CP-54 is a robust industrial axial fan designed to provide critical thermal dissipation for high-power electronics and variable frequency drives. Engineered with precision Japanese technology, this unit ensures continuous operation under demanding load conditions, featuring a die-cast aluminum housing for superior durability and heat resistance.

Manufacturer: Nidec Corporation

Model Number: D1751S48B9CP-54

Product Type: Industrial DC Axial Fan

Rated Voltage: 48VDC

Operating Voltage Range: 36.0 - 57.6 VDC

Nominal Current: 1.20 A

Input Power: 57.6 W

Rated Speed: 4200RPM

Max. Air Flow: 235.4 CFM (400.0 m³/h / 6.67 m³/min)

Max. Static Pressure: 25.4 mmH₂O (249.1 Pa / 1.00 inH₂O)

Noise Level: 59.0 dB(A)

Bearings: Dual Ball Bearings

Housing Material: Die-Cast Aluminum

Impeller Material: Reinforced Plastic (UL94V-0)

Termination: 4-Wire Leads with Connector

Dimensions: 172 x 150 x 51 mm

Weight: 880 g

Operating Temperature: -10 to +70 °C

Life Expectancy: 70,000 Hours at 40°C

This high-capacity cooling unit is primarily deployed in industrial automation systems, specifically serving as the OEM replacement fan for ABB ACS880 series variable frequency drives. The D1751S48B9CP-54 ensures optimal operating temperatures for power modules within heavy-duty inverters, preventing thermal shutdown during continuous industrial processes. It is also suitable for cabinet cooling in telecommunications equipment, server racks, and heat exchangers requiring high static pressure to overcome airflow impedance.

Supplemental Images

