D1751P24B8PP338 Nidec 24VDC 172x51mm Axial Cooling Fan Datasheet

Brand: Nidec

SKU: 820554550285

Category: Axial & Centrifugal Fans

Price: **$175.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/d1751p24b8pp338-nidec-24vdc-172x51mm-axial-cooling-fan

Product Description

The Nidec D1751P24B8PP338 is a precision-engineered axial cooling fan designed for high-demand industrial thermal management applications. Utilizing advanced DC motor technology and a robust dual ball bearing architecture, this unit ensures exceptional longevity and structural rigidity under continuous operation. The aerodynamic impeller design minimizes thermal impedance while maximizing static pressure, making it ideal for dense electronic enclosures. Engineered for reliability, the D1751P24B8PP338 features optimized commutation circuitry to deliver consistent airflow performance, effectively dissipating heat in critical power conversion systems such as variable frequency drives and inverters.

Model Number: D1751P24B8PP338
Brand: Nidec
Product Type: Axial Fan
Rated Voltage: 24 VDC
Voltage Range: 14.0 - 27.6 VDC
Rated Current: 3.4 A
Power: 81.6 W
Rated Speed: 5300 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 300.0 CFM (509.7 m^3/h / 8.49 m^3/min)

Max. Static Pressure: 30.48 mmH_2O (299.1 Pa / 1.20 inH_2O)
Dimensions: 172mm x 150mm x 51mm
Weight: 850 g
Life Expectancy: 70000 hrs at 40°C
Housing Material: Aluminum Die-Cast
Impeller Material: Plastic (UL94V-0)
Termination: Lead Wires
Operating Temperature: -10 to +70 °C
Storage Temperature: -40 to +70 °C
Ingress Protection: IP20
Safety: Locked Rotor Protection, Reverse Polarity Protection
Application: ABB Inverter Cooling

The D1751P24B8PP338 is specifically engineered for rigorous industrial environments requiring substantial heat dissipation. It is frequently deployed in heavy-duty power electronics, including ABB variable frequency drives and large-scale solar inverters where maintaining optimal operating temperatures is critical for component longevity. Additionally, the D1751P24B8PP338 serves as a vital cooling component in telecommunications base stations, server cabinets, and CNC machinery control panels, ensuring system stability during peak operational loads.

Supplemental Images


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MADE IN VIETNAM
Nidec
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D1751P24B8PP338
DC24V 3.4A
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