# D1751P24B9DS321 Nidec 24VDC 172x150x51mm 4-Wire PWM Axial Fan Datasheet


**Brand:** Nidec

**SKU:** 851580025599

**Category:** Axial & Centrifugal Fans

**Price:** **$299.99**

**E-mail:** sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/d1751p24b9ds321-nidec-24vdc-172x150x51mm-4-wire-pwm-axial-fan

## Product Description

The Nidec D1751P24B9DS321 is a DC Axial Fan engineered for critical thermal management in industrial automation environments. Utilizing a sophisticated brushless DC motor architecture, this unit minimizes thermal impedance while maximizing structural rigidity through its robust aluminum housing and reinforced PBT impeller. The dual ball bearing system ensures extended service life under continuous high-load operations. Designed specifically for Yaskawa inverter cooling, the D1751P24B9DS321 integrates advanced aerodynamic blade profiles to optimize static pressure and airflow efficiency, maintaining system stability in high-density electronic enclosures.

Model Number: D1751P24B9DS321
Brand: Nidec
Product Type: Axial Fan
Rated Voltage: 24VDC
Voltage Range: 14.0 - 27.6 VDC
Rated Current: 4.6A
Power: 110.4W
Rated Speed: 5000 RPM
Bearing Type: Dual Ball Bearing

Max. Air Flow: 300.0 CFM (510.0 $m^3/h$ / 8.50 $m^3/min$)
Max. Static Pressure: 35.0 $mmH_2O$ (343.2 Pa / 1.38 $inH_2O$)
Dimensions: 172x150x51mm
Weight: 850g
Life Expectancy: 70,000 Hours
Speed Control: PWM, Tachometer
Ingress Protection: IP55
Insulation Class: Class A
Noise Level: 65.0 dB(A)
Housing Material: Aluminum Die-cast
Blade Material: PBT Plastic (UL94V-0)
Termination: 4-Wire with Connector
Operating Temperature: -10C to +70C
Storage Temperature: -40C to +75C
Mounting Orientation: Any
Protection Features: Locked Rotor Protection, Reverse Polarity Protection

The D1751P24B9DS321 is primarily deployed as a dedicated cooling solution for Yaskawa frequency inverters and large-scale motor drives. Due to its high static pressure capabilities, the D1751P24B9DS321 is also ideal for high-density server racks, telecommunications base stations, and CNC machine control cabinets where heat dissipation is critical. Its 4-wire PWM interface allows for precise thermal regulation in medical imaging equipment and industrial power supplies.

## Supplemental Images