

# D1751S24B3AZ-22 Nidec Servo 24VDC 172x51mm DC Axial Fan Datasheet



**Brand:** Nidec

**SKU:** 907909190178

**Category:** Axial & Centrifugal Fans

**Price:** \$177.99

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Product Page:

<https://www.equipspares.com/product/d1751s24b3az-22-nidec-servo-24vdc-172x51mm-dc-axial-fan>

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## Product Description

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The Nidec Servo D1751S24B3AZ-22 is a robust DC Axial Fan engineered for demanding industrial thermal management applications requiring high static pressure and consistent airflow. Operating at a nominal 24VDC with a current draw of 0.6A, this unit utilizes a precision dual ball bearing architecture to ensure reduced friction and extended operational longevity under continuous load. The aerodynamic impeller design optimizes static pressure capabilities while maintaining efficient airflow throughput, effectively lowering thermal impedance within high-density enclosures. Constructed with structural rigidity in mind, the aluminum die-cast housing withstands mechanical stress, making it suitable for harsh environments requiring reliable heat dissipation and stable performance characteristics.

Model Number: D1751S24B3AZ-22

Brand: Nidec Servo

Product Type: DC Axial Fan

Rated Voltage: 24VDC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 0.6 A

Input Power: 14.4 W

Rated Speed: 3300 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 235.0 CFM (399.2 m<sup>3</sup>/h / 6.65 m<sup>3</sup>/min)  
Max. Static Pressure: 18.5 mmH<sub>2</sub>O (181.4 Pa / 0.73 inH<sub>2</sub>O)  
Dimensions: 172mm x 150mm x 51mm  
Weight: 800 g  
Life Expectancy: 60,000 Hours at 40°C  
Noise Level: 53.0 dB(A)  
Frame Material: Aluminum Die-Cast  
Impeller Material: Thermoplastic PBT (UL94V-0)  
Termination: 2-Wire Lead (Red +, Black -)  
Operating Temperature: -10°C to +70°C  
Storage Temperature: -40°C to +70°C  
Ingress Protection: IP20  
Insulation Resistance: 10M Ohm at 500VDC  
Dielectric Strength: 700VAC for 3 sec  
Origin: Indonesia

The D1751S24B3AZ-22 is frequently integrated into large-scale industrial automation systems, server cabinets, and telecommunications infrastructure where consistent high-volume airflow is critical. Engineers rely on the D1751S24B3AZ-22 for cooling power inverters, CNC machinery control panels, and medical instrumentation, ensuring sensitive components remain within safe operating temperature ranges to prevent thermal throttling or hardware failure.

## Supplemental Images

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