D1751P24B6PZ-11 Nidec 24VDC 172x51mm 1.8A Axial Fan Datasheet

Brand: Nidec

SKU: 728019130008

Category: Axial & Centrifugal Fans

Price: **$112.99**

E-mail: sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/d1751p24b6pz-11-nidec-24vdc-172x51mm-1-8a-axial-fan

Product Description

The Nidec D1751P24B6PZ-11 is a high-performance industrial axial fan engineered for environments demanding exceptional static pressure and volumetric airflow. Built upon a robust DC motor platform, this unit utilizes a precision dual ball bearing architecture to ensure rotational stability and minimize frictional wear over extended operational lifecycles. The aerodynamic impeller design is optimized to reduce turbulence while maximizing air throughput against high system impedance. Featuring a ruggedized housing structure, the D1751P24B6PZ-11 provides superior structural rigidity and thermal management properties. This cooling solution is designed to operate efficiently under heavy electrical loads, delivering consistent thermal dissipation for critical electronic components.

Model Number: D1751P24B6PZ-11
Brand: Nidec
Product Type: Axial Fan
Rated Voltage: 24V DC
Voltage Range: 14.0 - 27.6 VDC
Rated Current: 1.8 A
Power Input: 43.2 W
Rated Speed: 4100 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 235.0 CFM (399.2 m^3/h / 6.65 m^3/min)

Max. Static Pressure: 22.5 mmH_2O (220.6 Pa / 0.88 inH_2O)
Dimensions: 172mm x 150mm x 51mm
Weight: 850 g
Life Expectancy: 70,000 Hours at 40°C
Termination: 2-Wire Lead (Red/Black)
Housing Material: Aluminum Die-Cast
Impeller Material: Thermoplastic UL94V-0
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Ingress Protection: IP20
Insulation Class: Class A
Motor Protection: Locked Rotor Protection, Polarity Protection
Mounting Orientation: Any

The D1751P24B6PZ-11 is widely integrated into mission-critical infrastructure requiring reliable forced air cooling. Primary applications include high-density server racks, telecommunications switching gear, and industrial power inverters where thermal loads are substantial. The D1751P24B6PZ-11 is also suitable for cooling large-scale automation equipment, CNC control cabinets, and medical diagnostic devices. By maintaining optimal operating temperatures, the D1751P24B6PZ-11 ensures the reliability and longevity of sensitive electronic hardware in continuous-duty environments.

Supplemental Images