D1751S24B8CP329 Nidec Servo 24VDC 172x150x51mm Axial Fan Datasheet

Brand: Nidec

SKU: 996770231661

Category: Axial & Centrifugal Fans

Price: **$185.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/d1751s24b8cp329-nidec-servo-24vdc-172x150x51mm-axial-fan

Product Description

The Nidec Servo D1751S24B8CP329 is a high-capacity industrial axial fan engineered for critical thermal management in power electronics. Distinguished by its robust construction, this unit features a full aluminum die-cast frame and aluminum impeller blades, a configuration designed to withstand higher operating temperatures and mechanical stress compared to standard thermoplastic models. The motor utilizes a precision dual ball bearing architecture to support the high-torque rotational forces generated by the 3.4A current draw, ensuring longevity and reduced frictional heat. Its aerodynamic design is optimized to deliver substantial static pressure, effectively overcoming high thermal impedance in dense equipment enclosures. This fan provides exceptional structural rigidity and reliable performance for continuous duty cycles.

Model Number: D1751S24B8CP329
Brand: Nidec Servo
Product Type: DC Axial Fan
Rated Voltage: 24VDC
Voltage Range: 16.0 - 27.6 VDC
Rated Current: 3.4 A
Power: 81.6 W
Rated Speed: 4800 RPM
Bearing Type: Dual Ball Bearing

Max. Air Flow: 295.0 CFM (501.2 m^3/h / 8.35 m^3/min)
Max. Static Pressure: 26.5 mmH_2O (260.0 Pa / 1.04 inH_2O)
Dimensions: 172mm x 150mm x 51mm
Frame Material: Die-Cast Aluminum
Blade Material: Aluminum
Weight: 920 g
Life Expectancy: 70,000 Hours at 40°C
Noise Level: 64.0 dB(A)
Termination: Lead Wires
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +75°C
Ingress Protection: IP20
Mounting Orientation: Any

The D1751S24B8CP329 is specifically calibrated for heavy-duty industrial applications requiring rapid heat dissipation. It is frequently deployed in servo inverter systems, variable frequency drives (VFDs), and large-scale power supply units where maintaining optimal operating temperatures is vital for component longevity. The rugged metal construction of the D1751S24B8CP329 also makes it suitable for CNC machinery cabinets and telecommunications infrastructure exposed to harsh environmental conditions.

Supplemental Images