D1751M24B8CP341 Nidec 24VDC 172x51mm Aluminum Axial Fan Datasheet

Brand: Nidec

SKU: 944706880410

Category: Axial & Centrifugal Fans

Price: **$341.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/d1751m24b8cp341-nidec-24vdc-172x51mm-aluminum-axial-fan

Product Description

The Nidec D1751M24B8CP341 is a robust industrial axial fan engineered for high-static pressure applications within power electronics and variable frequency drives. Utilizing a precision dual ball bearing system housed within a durable aluminum alloy die-cast frame, this unit ensures superior structural rigidity and optimized thermal impedance management. The 24VDC motor delivers substantial airflow, driven by a high-current 3.4A configuration designed to dissipate heat effectively in demanding environments. Its aerodynamic impeller geometry minimizes turbulence while maximizing throughput, making it an essential component for maintaining operational stability in heavy-duty industrial inverters and critical cooling systems.

Model Number: D1751M24B8CP341
Brand: Nidec (Nidec Corporation)
Product Type: DC Axial Fan
Rated Voltage: 24VDC
Voltage Range: 16.0 - 27.6 VDC
Rated Current: 3.4 A
Power Consumption: 81.6 W
Rated Speed: 4800 RPM (Nominal)
Bearing Type: Dual Ball Bearing
Max. Air Flow: 310.0 CFM (526.7 m^3/h / 8.77 m^3/min)

Max. Static Pressure: 25.4 mmH_2O (249 Pa / 1.00 inH_2O)
Dimensions: 172mm x 150mm x 51mm
Frame Material: Aluminum Die-Cast
Impeller Material: Reinforced Plastic UL94V-0
Weight: 850 g
Life Expectancy: 70,000 Hours at 40°C
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Noise Level: 62.0 dB(A)
Termination: 3-Wire Lead (Red +, Black -, Yellow Sensor)
Speed Control: Tachometer Output
Ingress Protection: IP20
Insulation Class: Class B
Safety Certifications: UL, cUL, TUV, CE
Application Specific: ABB ACS880 / ACS580 Inverter Dedicated

This cooling unit is specifically calibrated for integration into high-power conversion systems, serving as a critical replacement component for ABB ACS880 and ACS580 series variable frequency drives. The D1751M24B8CP341 ensures continuous thermal regulation within server cabinets, renewable energy inverters, and industrial automation control panels. By preventing thermal throttling in sensitive electronics, the D1751M24B8CP341 maintains system reliability in CNC machinery, telecommunications infrastructure, and large-scale motor control centers requiring consistent forced-air cooling.

Supplemental Images


Nidec
NIDEC SERVO CORPORATION
D1751M24B8CP341
RoHS
DC24V 3.4A E.P.
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