CNDC24Z7C-042 Nidec SERVO 24VDC 120x120x25mm Axial Fan Datasheet

Brand: Nidec

SKU: 980124174476

Category: Axial & Centrifugal Fans

Price: **$15.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/cndc24z7c-042-nidec-servo-24vdc-120x120x25mm-axial-fan

Product Description

The Nidec SERVO CNDC24Z7C-042 is a high-efficiency DC Axial Fan engineered for rigorous thermal management in industrial power electronics. Featuring advanced DC motor technology integrated with a precision dual ball bearing architecture, this unit is designed to minimize rotational friction and extend operational service life under continuous duty cycles. The aerodynamic impeller profile is optimized to deliver superior static pressure while maintaining high volumetric airflow, effectively reducing thermal impedance within dense component enclosures. Built with high-grade thermoplastic materials for exceptional structural rigidity and vibration resistance, the CNDC24Z7C-042 ensures reliable heat dissipation for frequency inverters and critical automation systems.

Model Number: CNDC24Z7C-042
Brand: Nidec SERVO
Product Type: DC Axial Fan
Rated Voltage: 24VDC
Voltage Range: 14.0 - 27.6 VDC
Rated Current: 0.37 A
Power Consumption: 9.0 W
Dimensions: 120 x 120 x 25 mm
Bearing Type: Dual Ball Bearing

Rated Speed: 3250 RPM
Max. Air Flow: 108.0 CFM (183.5 m^3/h / 3.05 m^3/min)
Max. Static Pressure: 6.8 mmH_2O (66.7 Pa / 0.27 inH_2O)
Noise Level: 46.0 dB(A)
Housing Material: PBT Plastic (UL94V-0)
Impeller Material: PBT Plastic (UL94V-0)
Termination: 3-Wire Lead with Connector
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Life Expectancy: 100,000 Hours at 25°C
Weight: 200 g
Ingress Protection: IP20
Safety Certifications: UL, cUL, TUV, CE

The CNDC24Z7C-042 is specifically deployed in the thermal management of industrial frequency inverters and variable frequency drives (VFDs), including the 70 Series inverters. Its high-performance airflow characteristics make it an ideal solution for server rack ventilation, CNC machine control cabinets, and telecommunications power supply units. Maintenance engineers frequently utilize the CNDC24Z7C-042 for retrofitting and repairing cooling systems in medical instrumentation and automated manufacturing lines, ensuring critical components remain within safe operating temperature ranges to prevent thermal throttling or hardware failure.

Supplemental Images