D1225C12B7ZP-83 Nidec 12VDC 120x120x25mm Silent Axial Fan Datasheet

Brand: Nidec

SKU: 773347611601

Category: Axial & Centrifugal Fans

Price: **$76.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/d1225c12b7zp-83-nidec-12vdc-120x120x25mm-silent-axial-fan

Product Description

The Nidec D1225C12B7ZP-83 is a precision-engineered Axial Fan designed for critical thermal management applications requiring a balance between static pressure and volumetric airflow. Utilizing Nidec's proprietary aerodynamic scythe blade geometry, this unit minimizes turbulence-induced noise while maximizing air throughput. The motor assembly features a robust DC brushless architecture supported by high-grade ball bearings, ensuring long-term operational stability and reduced thermal impedance. Constructed with a reinforced thermoplastic frame, the D1225C12B7ZP-83 maintains structural rigidity under thermal stress, making it an optimal solution for continuous duty cycles in industrial environments.

Model Number: D1225C12B7ZP-83
Brand: Nidec Servo
Product Type: Axial Fan
Rated Voltage: 12VDC
Voltage Range: 10.2 - 13.8 VDC
Rated Current: 0.22 A
Power Input: 2.64 W
Rated Speed: 2150 RPM
Bearing Type: Double Ball Bearing
Max. Air Flow: 72.5 CFM (123.1 m^3/h / 2.05 m^3/min)

Max. Static Pressure: 2.9 mmH_2O (28.4 Pa / 0.11 inH_2O)
Dimensions: 120x120x25mm
Weight: 155 g
Life Expectancy: 60,000 Hours @ 60°C
Noise Level: 34.0 dB(A)
Speed Control: PWM Control
Housing Material: PBT (UL94V-0)
Impeller Material: PBT (UL94V-0)
Termination: 4-Wire Lead
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Ingress Protection: IP20
Safety Protection: Locked Rotor Protection, Reverse Polarity

The D1225C12B7ZP-83 is engineered for high-reliability environments such as server chassis cooling, telecommunications cabinets, and precision industrial automation equipment. Its optimized acoustic profile makes the D1225C12B7ZP-83 particularly suitable for medical instrumentation and workstation cooling where noise suppression is critical alongside thermal dissipation. Additionally, this model serves effectively in power supply ventilation and network switchgear, ensuring component longevity through consistent airflow delivery.

Supplemental Images