V12E24BHB5-51Z99 Nidec 24VDC 120x38mm UltraFlo Axial Fan Datasheet

Brand: Nidec

SKU: 669451737506

Category: Axial & Centrifugal Fans

Price: **$19.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/v12e24bhb5-51z99-nidec-24vdc-120x38mm-ultraflo-axial-fan

Product Description

The Nidec V12E24BHB5-51Z99 is a precision-engineered DC axial fan designed for critical thermal management in industrial environments. Part of the renowned UltraFlo series, this unit utilizes advanced aerodynamic blade geometry to minimize turbulence while maximizing airflow throughput against high system impedance. The motor assembly features a robust dual ball bearing system, ensuring exceptional longevity and structural rigidity under continuous operation. Engineered for optimal thermal impedance reduction, the V12E24BHB5-51Z99 delivers reliable cooling performance, making it an essential component for maintaining stability in high-density electronic enclosures and power conversion systems.

Model Number: V12E24BHB5-51Z99
Brand: Nidec
Product Type: DC Axial Fan
Series: ULTRAFLO
Rated Voltage: 24V DC
Voltage Range: 14.0 - 27.6 VDC
Rated Current: 0.64 A
Power Consumption: 15.36 W
Rated Speed: 3600 RPM
Bearing Type: Dual Ball Bearing

Max. Air Flow: 138.0 CFM (234.4 m^3/h / 3.90 m^3/min)
Max. Static Pressure: 11.2 mmH_2O (109.8 Pa / 0.44 inH_2O)
Dimensions: 120 x 120 x 38 mm
Weight: 290 g
Life Expectancy: 70,000 Hours at 40°C
Noise Level: 53.0 dB(A)
Frame Material: PBT Plastic (UL94V-0)
Impeller Material: PBT Plastic (UL94V-0)
Termination: 3-Wire Lead
Signal Output: Tachometer / Speed Sensor
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Ingress Protection: IP20
Mounting Orientation: Any

The V12E24BHB5-51Z99 is specifically calibrated for high-demand applications requiring consistent air exchange, such as variable frequency drive (VFD) inverters and industrial power supplies. Its robust design makes it suitable for server rack cooling and telecommunications cabinets where reliability is paramount. By integrating the V12E24BHB5-51Z99 into CNC machinery control panels or medical instrumentation, operators ensure sustained thermal regulation, preventing component failure due to overheating in confined chassis environments.

Supplemental Images