V80E12BS1F5-07Z045 Nidec 12VDC 80x80x38mm 3.4A Axial Fan Datasheet

Brand: Nidec

SKU: 878815989792

Category: Axial & Centrifugal Fans

Price: **$77.99**

E-mail: sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/v80e12bs1f5-07z045-nidec-12vdc-80x80x38mm-3-4a-axial-fan

Product Description

The Nidec V80E12BS1F5-07Z045 is a high-capacity Axial Fan engineered for critical thermal management in high-density electronic environments. Utilizing advanced DC motor technology paired with a precision Double Ball Bearing system, this unit ensures exceptional longevity and operational stability under continuous high-load conditions. The aerodynamic design of the impeller minimizes thermal impedance while maximizing airflow throughput, making it ideal for overcoming high system resistance. Its reinforced frame construction provides necessary structural rigidity to withstand the vibrations associated with high-RPM operation, delivering reliable cooling performance for industrial and server-grade applications requiring substantial static pressure capabilities.

Model Number: V80E12BS1F5-07Z045
Brand: Nidec
Product Type: DC Axial Fan
Rated Voltage: 12VDC
Voltage Range: 7.0 - 13.2 VDC
Rated Current: 3.40 A
Power Input: 40.8 W
Rated Speed: 9500 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 135.0 CFM (229.3 m^3/h / 3.82 m^3/min)

Max. Static Pressure: 48.5 mmH_2O (475 Pa / 1.91 inH_2O)
Dimensions: 80 x 80 x 38 mm
Weight: 210 g
Life Expectancy: 70,000 Hours at 40°C
Noise Level: 66.5 dB(A)
Housing Material: PBT Plastic (UL94V-0)
Impeller Material: PBT Plastic (UL94V-0)
Ingress Protection: IP20
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Termination: Lead Wires
Mounting Orientation: Any

Designed for environments demanding aggressive heat dissipation, the V80E12BS1F5-07Z045 excels in server rack enclosures and telecommunications infrastructure where component density restricts natural airflow. This unit is frequently deployed in cryptocurrency mining rigs and industrial automation systems that generate significant thermal loads. By integrating the V80E12BS1F5-07Z045 into cooling arrays, operators ensure critical hardware remains within safe operating temperature ranges, preventing thermal throttling in high-performance computing clusters and precision CNC machinery.

Supplemental Images