W12E12BS11B5-07ZB1 Nidec 12VDC 120x120x38mm Axial Fan Datasheet

Brand: Nidec

SKU: 802143184934

Category: Axial & Centrifugal Fans

Price: **$17.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/w12e12bs11b5-07zb1-nidec-12vdc-120x120x38mm-axial-fan

Product Description

Nidec W12E12BS11B5-07ZB1 is a 12VDC 120x120x38mm Axial Fan optimized for high-density thermal management in server environments and high-impedance enclosures. This industrial-grade cooling solution features a sophisticated dual ball bearing architecture and a high-torque motor designed for continuous 24/7 operation. The aerodynamic impeller design is engineered to maximize structural rigidity while minimizing blade deflection under high rotational speeds. Operating at a rated current of 1.65A, this fan delivers exceptional static pressure to overcome the resistance of tightly packed electronic components. The integrated 4-wire PWM control allows for precise speed modulation, ensuring optimal thermal impedance management and energy efficiency across varying heat loads.

Model Number: W12E12BS11B5-07ZB1
Brand: Nidec
Product Type: Axial Fan
Rated Voltage: 12 VDC
Voltage Range: 7.0 - 13.2 VDC
Rated Current: 1.65 A
Power: 19.8 W
Rated Speed: 4000 RPM
Bearing Type: Dual Ball Bearing

Max. Air Flow: 150.0 CFM (254.8 m^3/h)
Max. Static Pressure: 15.2 mmH_2O (149.1 Pa)
Dimensions: 120 x 120 x 38 mm
Weight: 310 g
Life Expectancy: 70,000 Hours at 40°C
Speed Control: 4-Wire PWM (Pulse Width Modulation)
Signal Output: Tachometer / Frequency Generator
Housing Material: Plastic (UL94V-0)
Blade Material: Plastic (UL94V-0)
Termination: 4-Lead Wires
Operating Temperature: -10 to +70 °C
Protection Features: Locked Rotor Protection, Reverse Polarity Protection

W12E12BS11B5-07ZB1 Applications
1. 2U/3U Rackmount Servers: High static pressure capability allows for efficient heat extraction through dense drive arrays and heatsinks, serving as a high-performance replacement fan for enterprise hardware.
2. Industrial VFD Enclosures: The robust dual ball bearing design ensures long-term reliability in environments where high-vibration and constant thermal cycling are present.
3. Cryptocurrency Mining Rigs: Optimized for overcoming high system impedance in multi-GPU setups where maximum airflow velocity is required to prevent thermal throttling.

Supplemental Images


Nidec
MODEL
W12E12BS11B5-07
ZB1
9Z31H 34
12VDC 1.65A
E339289
E.P.C
US
MADE IN CHINA