

# D1225C12B5ZPBE4 Nidec 12VDC 120mm PWM Axial Fan Datasheet



**Brand:** Nidec

**SKU:** [994952569375](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$34.99**

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Product Page:

<https://www.equipspares.com/product/d1225c12b5zpbe4-nidec-12vdc-120mm-pwm-axial-fan>

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## Product Description

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The Nidec D1225C12B5ZPBE4 is a precision-engineered Axial Fan designed for critical thermal management applications requiring a balance between acoustic performance and airflow efficiency. Utilizing advanced DC motor technology paired with a robust Double Ball Bearing architecture, this unit ensures minimal frictional losses and extended operational longevity under continuous loads. The aerodynamic blade profile is calibrated to deliver a substantial airflow of 70.86 CFM while maintaining structural rigidity to reduce vibration-induced noise. With integrated PWM speed control, the fan dynamically adjusts rotational velocity between 800 and 2000 RPM, optimizing the thermal impedance of the system based on real-time cooling demands. This intelligent regulation makes it an ideal solution for environments where noise suppression and reliability are paramount.

Model Number: D1225C12B5ZPBE4

Brand: Nidec

Product Type: Axial Fan

Rated Voltage: 12 VDC

Rated Current: 0.09 A

Power Consumption: 1.08 W

Rated Speed: 800 - 2000 RPM ( $\pm 10\%$ )

Bearing Type: Double Ball Bearing

Max. Air Flow: 70.86 CFM (120.39 m<sup>3</sup>/h / 2.01 m<sup>3</sup>/min)

Max. Static Pressure: 1.35 mmH<sub>2</sub>O (13.24 Pa / 0.05 inH<sub>2</sub>O)

Dimensions: 120 x 120 x 25 mm

Noise Level: 39 dB(A)

Termination: 4-Wire Lead

Speed Control: PWM (Pulse Width Modulation)

Operating Temperature: -10°C to +70°C (Standard Reference)

Life Expectancy: >50,000 Hours @ 40°C (Ball Bearing Standard)

Mounting Orientation: Any

This cooling solution is engineered for diverse industrial and consumer electronics integration. The D1225C12B5ZPBE4 is frequently deployed in server rack enclosures, workstation chassis, and custom PC builds where consistent airflow is paramount for component stability. Additionally, the D1225C12B5ZPBE4 serves effectively in precision medical instrumentation and telecommunications equipment, leveraging its PWM capability to maintain quiet operation during low-load cycles while ramping up thermal dissipation during peak processing tasks.

## Supplemental Images

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