

W40S12BUB5-07Z04 Nidec 12VDC 40x40x28mm UltraFlo Axial Fan Datasheet



Brand: Nidec

SKU: 988807258299

Category: Axial & Centrifugal Fans

Price: \$14.99

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Product Page:

<https://www.equipspares.com/product/w40s12bub5-07z04-nidec-12vdc-40x40x28mm-ultraflo-axial-fan>

Product Description

The Nidec W40S12BUB5-07Z04 is a Axial Fan engineered for mission-critical server environments. Utilizing Nidec's UltraFlo motor technology, this DC brushless fan features a dual ball bearing architecture designed to minimize thermal impedance and ensure long-term structural rigidity under continuous operation. The aerodynamic impeller design is optimized for high static pressure, overcoming the resistance of densely packed electronic components. Its robust construction and precision-balanced blades provide exceptional reliability, making it an essential component for thermal management in high-performance computing systems where airflow efficiency and durability are paramount.

Model Number: W40S12BUB5-07Z04

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Product Type: Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.53A

Power: 6.36W

Rated Speed: 13000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 21.5 CFM (0.61 m³/min)

Max. Static Pressure: 28.5 mmH₂O (279.5 Pa)

Dimensions: 40x40x28mm

Weight: 55g

Life Expectancy: 70,000 Hours at 40C

Speed Control: PWM Control

Output Signal: Tachometer

Housing Material: Plastic (UL94V-0)

Blade Material: Plastic (UL94V-0)

Termination: 4-Wire Lead Wires

Operating Temperature: -10C to +70C

Storage Temperature: -40C to +75C

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

Certifications: UL, TUV, CE

The W40S12BUB5-07Z04 is primarily deployed in 1U and 2U rack-mount servers where space is constrained but cooling requirements are extreme. Due to its high static pressure capabilities, the W40S12BUB5-07Z04 is also ideal for telecommunications equipment, network switches, and industrial power supplies. It provides critical thermal regulation for high-speed processors and storage arrays, ensuring system stability in demanding data center environments.

Supplemental Images

