

W40S12BHD5-07A64 Nidec 12VDC 40x40x28mm Axial Fan Datasheet



Brand: Nidec

SKU: 972914303923

Category: Axial & Centrifugal Fans

Price: **\$8.99**

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Product Page:

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Product Description

The Nidec W40S12BHD5-07A64 is a high-performance Axial Fan engineered for mission-critical thermal management in compact, high-density electronic enclosures. Operating at a rated voltage of 12VDC with a significant current draw of 0.75A, this unit delivers exceptional airflow relative to its standard 40x40x28mm form factor. The design incorporates advanced motor technology and precision-balanced impeller blades to minimize thermal impedance while maintaining structural rigidity under high-speed operation. Built for durability, the fan features a robust dual ball bearing architecture that ensures longevity and consistent performance in demanding environments. Its aerodynamic profile is specifically optimized to overcome high static pressure resistance, making it an ideal solution for densely packed server racks and telecommunications equipment requiring reliable heat dissipation.

Model Number: W40S12BHD5-07A64

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Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.75 A

Input Power: 9.0 W

Rated Speed: 18500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 26.5 CFM (45.0 m³/h / 0.75 m³/min)

Max. Static Pressure: 2.10 inH₂O (522 Pa / 53.3 mmH₂O)

Dimensions: 40 x 40 x 28 mm

Weight: 55 g

Life Expectancy: 70000 Hours at 40°C

Noise Level: 58.5 dB(A)

Frame Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Termination: 4-Wire Leads with Connector

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (RPM Sensor)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Ingress Protection: IP20

Mounting Orientation: Any

Safety Certifications: UL, cUL, TUV, CE

This high-static pressure cooling solution is primarily utilized in enterprise-grade server racks, 1U/2U chassis, and telecommunications base stations where space is limited but heat generation is substantial. The W40S12BHD5-07A64 excels in cooling high-density power supplies, RAID arrays, and CPU heatsinks, ensuring component stability during peak processing loads. Additionally, the W40S12BHD5-07A64 is frequently integrated into precision industrial automation equipment and network switches, providing the necessary airflow to prevent thermal throttling in continuous-duty applications.

Supplemental Images

