

W40S12BS4A5-57 Nidec 12VDC 40x40x28mm 0.73A Axial Fan Datasheet



Brand: Nidec

SKU: [986594038783](#)

Category: Axial & Centrifugal Fans

Price: **\$11.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/w40s12bs4a5-57-nidec-12vdc-40x40x28mm-0-73a-axial-fan>

Product Description

The Nidec W40S12BS4A5-57 is a precision-engineered axial cooling solution designed for high-density electronic environments requiring superior thermal management. Part of the renowned UltraFlo series, this unit utilizes advanced DC motor technology paired with a robust double ball bearing architecture to minimize friction and extend operational longevity under continuous load. The aerodynamic blade geometry is optimized to reduce turbulence while maximizing static pressure, ensuring efficient airflow through restricted spaces. Constructed with high-grade materials to ensure structural rigidity, this fan maintains optimal performance metrics even in demanding industrial conditions, effectively lowering thermal impedance for critical components.

Model Number: W40S12BS4A5-57

Brand: Nidec

Series: UltraFlo

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.73 A

Power Input: 8.76 W

Rated Speed: 18500 RPM

Bearing Type: Double Ball Bearing

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

Max. Static Pressure: 54.8 mmH₂O (537 Pa / 2.16 inH₂O)

Dimensions: 40 x 40 x 28 mm

Weight: 52 g

Noise Level: 58.5 dB(A)

Frame Material: Reinforced Plastic (UL94V-0)

Blade Material: Reinforced Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Life Expectancy: 70,000 Hours at 40°C

Termination: 4-Wire Leads (Red +, Black -, Yellow Tach, Blue PWM)

Ingress Protection: IP40

Safety Certifications: UL, cUL, TUV, CE

Protection: Locked Rotor Protection, Reverse Polarity Protection

Designed for high-static pressure environments, the W40S12BS4A5-57 excels in 1U server rack cooling and telecommunications equipment where space is at a premium. The W40S12BS4A5-57 is frequently integrated into power supply units, RAID arrays, and network switches requiring forced air convection to dissipate heat from dense circuitry. Its compact form factor and high rotational speed make it ideal for industrial automation systems and specialized medical instrumentation that demand reliable thermal regulation without compromising on footprint.

Supplemental Images

