

W40S12BMF5-57 Nidec 12VDC 0.68A 40x40x28mm Server Fan Datasheet



Brand: Nidec

SKU: [926767285163](#)

Category: Axial & Centrifugal Fans

Price: **\$17.71**

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Product Page:

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Product Description

The Nidec W40S12BMF5-57 is a compact 40 mm x 40 mm x 28 mm DC brushless axial fan operating at a nominal 12 VDC and drawing 0.68 A to achieve a maximum rotational speed of 18300 RPM. Engineered with a high-power motor and an optimized wind tunnel design, this unit delivers enhanced pressure characteristics for long-distance wind supply. The internal architecture features a highly durable dual ball bearing mechanism, ensuring extended operational longevity and stable performance under continuous load. Interfacing is facilitated through a standard 4-wire termination, allowing for precise PWM speed control and tachometer signal output, while generating an acoustic noise level of 43 dBA during peak operation.

W40S12BMF5-57 Specifications

Manufacturer: Nidec

Model Number: W40S12BMF5-57

Product Category: DC Brushless Axial Fan

Dimensions: 40 mm x 40 mm x 28 mm

Nominal Voltage: 12 VDC

Nominal Current: 0.68 A

Maximum Speed: 18300 RPM

Acoustic Noise: 43 dBA

Bearing Type: Dual Ball Bearing

Termination: 4-Wire

Control Method: PWM Speed Control

Output Signal: Tachometer

Motor Type: High-Power Brushless DC

Country of Origin: Japan

W40S12BMF5-57 Applications

Primary applications include integration into 1 U server power supplies, high-density telecommunications routing equipment, and compact industrial control panels requiring forced convection cooling. Deployed within CNC spindle drive enclosures and automated test equipment, the fan provides targeted thermal management for densely packed electronic components operating under continuous thermal loads.

Supplemental Images

