

# U40G12BS8A5-57 Nidec 12VDC 0.54A 40x40x20mm Axial Fan Datasheet



**Brand:** Nidec

**SKU:** 730131622533

**Category:** Axial & Centrifugal Fans

**Price:** **\$13.99**

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Product Page:

<https://www.equipspares.com/product/u40g12bs8a5-57-nidec-12vdc-0-54a-40x40x20mm-axial-fan>

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## Product Description

The Nidec U40G12BS8A5-57 is a high-performance DC Axial Fan engineered for critical thermal management in compact electronic enclosures. Utilizing Nidec's advanced motor drive technology, this unit delivers exceptional airflow relative to its 40mm footprint, overcoming high system impedance with significant static pressure capabilities. The construction features a robust thermoplastic housing and impeller, optimized for structural rigidity and reduced vibration at high rotational speeds. Designed with a precision dual ball bearing system, it ensures operational longevity and stability under continuous load, making it an ideal solution for high-density server applications requiring efficient heat dissipation and reliable thermal impedance reduction.

Model Number: U40G12BS8A5-57

Brand: Nidec

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.54 A

Input Power: 6.48 W

Rated Speed: 13000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 24.0 CFM (40.7 m<sup>3</sup>/h / 0.68 m<sup>3</sup>/min)

Max. Static Pressure: 21.5 mmH<sub>2</sub>O (210 Pa / 0.85 inH<sub>2</sub>O)

Dimensions: 40 x 40 x 20 mm

Weight: 45 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tachometer (Frequency Generator)

Termination: 4-Wire Lead with Connector

Wire Configuration: Red (+), Black (-), Yellow (Tach), Blue (PWM)

Housing Material: PBT (UL94V-0)

Impeller Material: PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP40

Safety Certifications: UL, cUL, TUV, CE

The U40G12BS8A5-57 is specifically designed for high-density computing environments where space is at a premium but cooling requirements are stringent. Common deployments include 1U server chassis, network switches, and RAID arrays where the U40G12BS8A5-57 provides the necessary static pressure to force air through dense component layouts. Additionally, this model is utilized in industrial automation equipment, compact power supplies, and telecommunications gear, ensuring reliable thermal regulation for sensitive electronics.

## Supplemental Images

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