

W38S12BS2B5-07Z40 Nidec 12VDC 38x38x28mm UltraFlo Axial Fan Datasheet



Brand: Nidec

SKU: 988061743755

Category: Axial & Centrifugal Fans

Price: \$11.99

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Product Page:

<https://www.equipspares.com/product/w38s12bs2b5-07z40-nidec-12vdc-38x38x28mm-ultraflo-axial-fan>

Product Description

The Nidec W38S12BS2B5-07Z40 is a high-performance Axial Fan engineered for critical thermal management in high-density electronic systems. Belonging to the prestigious UltraFlo series, this 38mm unit features an advanced aerodynamic impeller design that significantly reduces turbulence while maintaining high volumetric efficiency against substantial system impedance. The motor is anchored by a precision Double Ball Bearing architecture, which ensures exceptional structural rigidity and minimizes frictional heat, thereby extending the operational lifespan under continuous duty cycles. With a rated voltage of 12VDC and a power draw of 0.66A, the W38S12BS2B5-07Z40 delivers a superior ratio of static pressure to airflow, making it an optimal solution for mitigating thermal resistance in compact, high-heat environments.

Model Number: W38S12BS2B5-07Z40

Brand: Nidec

Series: UltraFlo

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.66 A

Power Consumption: 7.92 W

Rated Speed: 18500 RPM (Nominal)

Bearing Type: Double Ball Bearing

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

Max. Static Pressure: 56.8 mmH₂O (557 Pa / 2.24 inH₂O)

Dimensions: 38 x 38 x 28 mm

Weight: 52 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 56.0 dB(A)

Frame Material: PBT (UL94V-0)

Impeller Material: PBT (UL94V-0)

Ingress Protection: IP40

Insulation Class: Class A

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Termination: Lead Wires (Red +, Black -, Yellow Sensor, Blue PWM)

Speed Control: PWM (Pulse Width Modulation)

Sensor Output: Tachometer (Frequency Generator)

Safety Protection: Auto-Restart / Polarity Protection

Certifications: UL, cUL, TUV, RoHS

The W38S12BS2B5-07Z40 is specifically designed for applications requiring high static pressure to overcome the resistance of dense component layouts. It is frequently deployed in 1U server racks, blade servers, and high-performance networking switches where airflow channels are restricted. Additionally, the W38S12BS2B5-07Z40 is suitable for cooling precision medical instrumentation and industrial automation controllers, ensuring that sensitive electronics remain within safe thermal limits during intensive processing tasks.

Supplemental Images

