

D06F-12B3S1 Nidec 12VDC 60x60x25mm Centrifugal Blower Datasheet



Brand: Nidec

SKU: [989359849975](#)

Category: Axial & Centrifugal Fans

Price: **\$12.99**

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Product Page:

<https://www.equipspares.com/product/d06f-12b3s1-nidec-12vdc-60x60x25mm-centrifugal-blower>

Product Description

The Nidec D06F-12B3S1 is a Centrifugal Blower engineered for high-static pressure applications requiring concentrated airflow in restricted spaces. Utilizing Nidec's advanced motor technology, this unit features a precision-balanced impeller housed within a structurally rigid scroll casing, designed to minimize turbulence and optimize aerodynamic efficiency. The blower operates on a 12VDC platform with a robust bearing architecture that ensures long-term reliability and reduced thermal impedance under continuous load. Its compact form factor allows for integration into high-density electronic assemblies, providing superior thermal management through directed air columns.

Model Number: D06F-12B3S1

Brand: Nidec

Product Type: Centrifugal Blower

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.33 A

Input Power: 3.96 W

Rated Speed: 4200 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 12.5 CFM (21.2 m³/h / 0.35 m³/min)

Max. Static Pressure: 14.5 mmH₂O (142.2 Pa / 0.57 inH₂O)

Dimensions: 60 x 60 x 25 mm

Noise Level: 38.0 dB(A)

Termination: 3-Wire (Lead Wire)

Signal Output: Tachometer (RPM Sensor)

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT 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

Safety Protection: Locked Rotor Protection, Polarity Protection

Weight: 65 g

The D06F-12B3S1 is specifically designed for applications where space is at a premium but high pressure is required to overcome system resistance. Common implementations include cooling for projectors, 3D printer extruders, and compact server chassis where the D06F-12B3S1 can effectively force air through dense heatsinks. Additionally, this blower is utilized in telecommunications equipment and industrial automation control panels, where the reliability of the D06F-12B3S1 ensures consistent thermal regulation for critical components.

Supplemental Images

