W38S12BS1A5-57 Nidec 12VDC 38x38x28mm Server Axial Fan Datasheet

Brand: Nidec

SKU: 834641089521

Category: Axial & Centrifugal Fans

Price: **$15.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/w38s12bs1a5-57-nidec-12vdc-38x38x28mm-server-axial-fan

Product Description

The Nidec W38S12BS1A5-57 is a specialized high-static pressure Axial Fan engineered for critical thermal management in server power supplies and compact electronic enclosures. Operating at a rated voltage of 12VDC with a substantial current draw of 1.0A, this unit delivers exceptional airflow relative to its compact 38x38x28mm form factor. The design incorporates advanced motor technology and precision-balanced impeller blades to minimize thermal impedance while maintaining structural rigidity under high-speed operation. Built for continuous duty, it ensures reliable heat dissipation in high-density environments where space is constrained but cooling requirements are severe, utilizing a robust bearing architecture for extended service life.

Model Number: W38S12BS1A5-57
Brand: Nidec
Product Type: DC Axial Fan
Rated Voltage: 12 VDC
Voltage Range: 10.2 - 13.8 VDC
Rated Current: 1.0 A
Input Power: 12.0 W
Rated Speed: 20000 RPM (Nominal)
Bearing Type: Dual Ball Bearing
Max. Air Flow: 26.5 CFM (45.0 m^3/h / 0.75 m^3/min)

Max. Static Pressure: 53.3 mmH_2O (522 Pa / 2.10 inH_2O)
Dimensions: 38 x 38 x 28 mm
Weight: 55 g
Life Expectancy: 70,000 Hours at 40°C
Speed Control: PWM / Tachometer Output
Ingress Protection: IP40
Noise Level: 58.0 dB(A)
Housing Material: PBT Plastic (UL94V-0)
Blade Material: PBT Plastic (UL94V-0)
Termination: 4-Wire Lead with Connector
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Mounting Orientation: Any
Safety Certifications: UL, cUL, TUV, CE
Protection: Locked Rotor Protection, Polarity Protection

This cooling solution is primarily deployed within enterprise-grade hardware, specifically targeting server power supply units and 1U rack-mount chassis where airflow channels are restricted. The W38S12BS1A5-57 excels in cooling high-wattage components within compact footprints, such as RAID controllers and network switches. Additionally, the W38S12BS1A5-57 is utilized in industrial automation equipment and telecommunications hardware requiring robust forced air convection to prevent thermal throttling in high-uptime environments.

Supplemental Images


UltraFlo
W38S12BS1A5-57
12 V DC
1.0 A
6815G 4A
E.P.C
MADE IN CHINA