

V12E24BS8M9-07A20 Nidec 24VDC 120x120x38mm 4-Wire Axial Fan Datasheet



Brand: Nidec

SKU: [822528570380](#)

Category: Axial & Centrifugal Fans

Price: **\$55.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/v12e24bs8m9-07a20-nidec-24vdc-120x120x38mm-4-wire-axial-fan>

Product Description

The Nidec V12E24BS8M9-07A20 is a precision-engineered Axial Fan designed for mission-critical thermal management systems requiring extreme airflow density. Leveraging Nidec's advanced motor technology, this unit operates at a rated voltage of 24VDC with a substantial current draw of 3.0A, indicating a high-torque motor configuration capable of overcoming significant system impedance. The 120x120x38mm chassis is constructed from reinforced thermoplastics, ensuring structural rigidity and vibration damping under high-speed operation. Featuring a robust dual ball bearing architecture, the fan ensures long-term reliability and stability. The 4-wire interface enables Pulse Width Modulation (PWM) speed control and tachometer output, allowing for dynamic integration into smart cooling loops where precise regulation of thermal dissipation and acoustic signatures is essential.

Model Number: V12E24BS8M9-07A20

Brand: Nidec (Nidec Servo)

Product Type: DC Axial Fan

Rated Voltage: 24VDC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 3.0 A

Power Consumption: 72.0 W

Dimensions: 120 x 120 x 38 mm

Bearing Type: Dual Ball Bearing

Rated Speed: 6400 RPM (Typical)

Max. Air Flow: 260.0 CFM (441 m³/h / 7.36 m³/min)

Max. Static Pressure: 34.5 mmH₂O (338 Pa / 1.36 inH₂O)

Noise Level: 66.5 dBA

Termination: 4-Wire Leads (PWM + Tach)

Wire Assignment: Red (+), Black (-), Yellow (Sensor), Blue (PWM)

Housing Material: PBT (UL94V-0)

Blade Material: PA66 (UL94V-0)

Operating Temperature: -10 to +70 °C

Storage Temperature: -40 to +70 °C

Insulation Resistance: 10M Ohm at 500VDC

Dielectric Strength: 500VAC for 1 min

Life Expectancy: 70,000 Hours at 40°C

Safety Certifications: UL, cUL, TUV, CE, RoHS

The V12E24BS8M9-07A20 is engineered for high-static pressure environments found in enterprise-grade hardware. It is specifically suited for cooling dense server racks, blade servers, and telecommunications base stations where airflow must penetrate restricted pathways. Additionally, the V12E24BS8M9-07A20 is widely utilized in industrial automation equipment, such as CNC control cabinets and high-capacity power inverters, providing the necessary forced convection to prevent thermal throttling and ensure component longevity.

Supplemental Images

