

PF80381B1-Q029-S9A SUNON 12VDC 80x80x38mm PWM Axial Fan Datasheet



Brand: SUNON

SKU: [989977180969](#)

Category: Axial & Centrifugal Fans

Price: **\$16.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/pf80381b1-q029-s9a-sunon-12vdc-80x80x38mm-pwm-axial-fan>

Product Description

The SUNON PF80381B1-Q029-S9A is a high-performance DC Axial Fan engineered for critical thermal management in high-impedance systems. Utilizing advanced motor technology and a robust Dual Ball Bearing architecture, this unit ensures exceptional longevity and structural rigidity under continuous high-speed operation. The aerodynamic impeller design optimizes airflow efficiency while minimizing thermal impedance, making it suitable for demanding industrial environments. With integrated PWM speed control, the PF80381B1-Q029-S9A allows for dynamic thermal regulation, effectively balancing cooling performance with energy consumption. Its substantial 14.40W power rating indicates a high-torque motor profile capable of overcoming significant back pressure in dense electronic enclosures.

Model Number: PF80381B1-Q029-S9A

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Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 1.20 A

Power Consumption: 14.40 W

Rated Speed: 9200 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 132.0 CFM (224.2 m³/h / 3.73 m³/min)
Max. Static Pressure: 1.42 inH₂O (353.7 Pa / 36.0 mmH₂O)
Dimensions: 80 x 80 x 38 mm
Weight: 215 g
Life Expectancy: 70,000 Hours at 40°C
Speed Control: PWM (Pulse Width Modulation)
Signal Output: 4-Wire / Tachometer Output (Frequency Generator)
Noise Level: 62.0 dB(A)
Housing Material: PBT (UL94V-0)
Impeller Material: PBT (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Termination: 4-Wire Lead (Red +, Black -, Yellow Sensor, Blue PWM)
Motor Protection: Polarity Protection, Automatic Restart
Dielectric Strength: 500 VAC for 1 Minute
Insulation Resistance: 10 Megohms min at 500 VDC
Safety Certifications: UL, CUR, TUV, CE

Designed for critical cooling infrastructure, the PF80381B1-Q029-S9A is frequently deployed in high-density server racks and telecommunications enclosures where overcoming static pressure is paramount. The robust construction of the PF80381B1-Q029-S9A makes it an ideal solution for industrial automation equipment, high-wattage power supply units, and medical instrumentation requiring reliable thermal dissipation. Its PWM capability ensures it integrates seamlessly into smart cooling systems found in network switches and RAID storage arrays, providing precise airflow modulation based on real-time thermal loads.

Supplemental Images

