

PF40281BX-Q110-S99 SUNON 12VDC 40x40x28mm PWM Axial Fan Datasheet



Brand: SUNON

SKU: [988792756449](#)

Category: Axial & Centrifugal Fans

Price: **\$9.99**

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Product Page:

<https://www.equipspares.com/product/pf40281bx-q110-s99-sunon-12vdc-40x40x28mm-pwm-axial-fan>

Product Description

The SUNON PF40281BX-Q110-S99 is a high-performance DC axial fan engineered for mission-critical thermal management in dense electronic enclosures. Utilizing advanced motor technology and a precision dual ball bearing system, this unit delivers exceptional rotational stability and longevity under continuous high-speed operation. The aerodynamic impeller design optimizes airflow while maintaining significant static pressure, effectively overcoming high thermal impedance in restricted spaces. Its robust structural rigidity and 4-wire PWM speed control capability make it an ideal solution for dynamic cooling requirements where precise temperature regulation and reliability are paramount.

Model Number: PF40281BX-Q110-S99

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Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.90 A

Power Consumption: 10.8 W

Rated Speed: 26000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 29.8 CFM (50.6 m³/h / 0.84 m³/min)

Max. Static Pressure: 67.3 mmH₂O (660 Pa / 2.65 inH₂O)

Dimensions: 40 x 40 x 28 mm

Weight: 42 g

Noise Level: 62.0 dB(A)

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Wire Lead (Red +, Black -, Yellow Tach, Blue PWM)

Frame Material: Thermoplastic PBT (UL94V-0)

Impeller Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP51

Insulation Class: Class A

Safety Certifications: UL, CUR, TUV, CE

Protection: Auto Restart / Polarity Protection

Designed for high-density computing environments, the PF40281BX-Q110-S99 excels in 1U server racks and telecommunications equipment where backpressure is a significant challenge. This cooling solution is frequently integrated into network switches, industrial automation power supplies, and compact medical instrumentation requiring forced air convection. The PF40281BX-Q110-S99 ensures component longevity by efficiently dissipating heat in systems with tightly packed PCBs and restricted airflow paths.

Supplemental Images

