

PF40281B2-Q06C-S99 SUNON 12VDC 40x40x28mm 4-Wire Axial Fan Datasheet



Brand: SUNON

SKU: [991907412113](#)

Category: Axial & Centrifugal Fans

Price: **\$11.99**

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Product Page:

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Product Description

The SUNON PF40281B2-Q06C-S99 is a precision-engineered DC axial fan designed for high-density thermal management applications requiring substantial static pressure and airflow. Utilizing advanced dual ball bearing architecture, this unit ensures exceptional rotational stability and longevity under continuous operation, significantly reducing the risk of mechanical failure in critical systems. The aerodynamic impeller design optimizes air throughput while maintaining structural rigidity, effectively overcoming system impedance in compact enclosures. Engineered with a robust frame structure, the PF40281B2-Q06C-S99 minimizes vibrational resonance and acoustic noise, delivering reliable cooling performance. Its 4-wire configuration supports precise speed control and monitoring, making it an ideal solution for sophisticated electronic cooling requirements where thermal impedance must be strictly managed.

Model Number: PF40281B2-Q06C-S99

Brand: SUNON

Product Type: DC Axial Fan

Series: PF Series (Power Fan)

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Power Consumption: 3.0 W

Rated Current: 0.25 A

Bearing Type: Dual Ball Bearing
Dimensions: 40 x 40 x 28 mm
Max. Air Flow: 24.9 CFM (42.3 m³/h)
Max. Static Pressure: 1.35 inH₂O (336 Pa)
Rated Speed: 13,000 RPM (±10%)
Noise Level: 54.0 dB(A)
Termination: 4-Wire Lead
Wire Function: PWM Speed Control / Tachometer Signal
Housing Material: Thermoplastic PBT (UL94V-0)
Blade Material: Thermoplastic PBT (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Life Expectancy: 70,000 Hours at 40°C
Ingress Protection: IP Class Available
Safety Certifications: UL, CUR, TUV
Weight: 42 g

The PF40281B2-Q06C-S99 is specifically engineered for high-performance environments such as 1U server racks, telecommunications equipment, and compact industrial power supplies where space is limited but heat dissipation requirements are high. The high static pressure capabilities of the PF40281B2-Q06C-S99 allow it to force air through dense component arrays and heatsinks effectively. Additionally, this model is frequently utilized in network switches, RAID arrays, and specialized medical instrumentation requiring reliable, continuous cooling.

Supplemental Images

