

PVA040F12N-Q13-AB Foxconn 12VDC 40x40x12mm 4-Wire Axial Fan Datasheet



Brand: Foxconn

SKU: [901401638637](#)

Category: Axial & Centrifugal Fans

Price: **\$12.99**

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Product Description

The Foxconn PVA040F12N-Q13-AB is a high-efficiency DC Brushless Fan designed to meet the rigorous thermal demands of compact electronic enclosures and high-density server environments. Engineered with advanced motor technology, this unit optimizes aerodynamic performance to deliver a substantial airflow-to-size ratio while maintaining structural rigidity under high-speed operation. The fan features a specialized blade geometry that reduces turbulence and lowers thermal impedance, ensuring rapid heat dissipation from critical components. Equipped with a 4-wire interface, it supports precise speed control mechanisms, allowing for dynamic adjustments based on real-time system temperatures. This robust cooling solution is built to withstand continuous industrial operation, offering a balance of high static pressure and reliability essential for maintaining system stability.

Model Number: PVA040F12N-Q13-AB

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Product Type: DC Brushless Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.28 A

Input Power: 3.36 W

Rated Speed: 9500 RPM

Bearing Type: Precision Hydro Dynamic Bearing
Max. Air Flow: 12.8 CFM (21.7 m³/h / 0.36 m³/min)
Max. Static Pressure: 10.5 mmH₂O (102.9 Pa / 0.41 inH₂O)
Dimensions: 40x40x12mm
Weight: 28 g
Life Expectancy: 60,000 Hours at 40°C
Termination: 4-Wire Leads with Connector
Speed Control: PWM (Pulse Width Modulation)
Sensor Output: Tachometer Signal (FG)
Housing Material: Thermoplastic PBT (UL94V-0)
Blade Material: Thermoplastic PBT (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +75°C
Ingress Protection: IP4X
Certifications: UL, cUL, TUV, CE
Mounting Orientation: Any

The PVA040F12N-Q13-AB is widely utilized in space-constrained hardware architectures such as 1U server racks, network switches, and compact industrial power supplies. Its high static pressure capabilities make the PVA040F12N-Q13-AB particularly effective for forcing air through dense heatsinks and restricted ventilation paths found in telecommunications equipment and medical instrumentation. This model is also frequently deployed in RAID arrays and embedded systems where consistent, high-velocity airflow is critical for preventing thermal throttling and ensuring component longevity.

Supplemental Images

