

PIA040H12Q-P72-BB FOXCONN 12VDC 40x40x28mm Axial Fan Datasheet



Brand: Foxconn

SKU: 929063660145

Category: Axial & Centrifugal Fans

Price: \$14.99

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Product Page:

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Product Description

FOXCONN PIA040H12Q-P72-BB is a 12VDC 40x40x28mm Axial Fan optimized for high-density thermal management in environments with extreme system impedance. This unit features a high-performance DC brushless motor and a dual ball bearing architecture designed to maintain structural rigidity at its peak 25000 RPM rotational speed. The aerodynamic impeller design is engineered to minimize thermal impedance by delivering concentrated airflow through restrictive heat sinks. Operating at 1.70A, this fan provides the necessary static pressure to overcome the air resistance found in compact enclosures, ensuring critical components remain within safe operating temperatures during peak loads.

Model Number: PIA040H12Q-P72-BB

Brand: FOXCONN

Product Type: Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 1.70 A

Power: 20.4 W

Rated Speed: 25000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 32.5 CFM (0.92 m³/min)

Max. Static Pressure: 48.2 mmH₂O (472.7 Pa / 1.90 inH₂O)

Dimensions: 40 x 40 x 28 mm

Weight: 55 g

Life Expectancy: 70,000 Hours at 40°C

Housing Material: Plastic (UL94V-0)

Blade Material: Plastic (UL94V-0)

Termination: 2-Wire Lead

Protection: Locked Rotor Protection, Reverse Polarity Protection

Operating Temperature: -10 to +70 °C

Storage Temperature: -40 to +75 °C

PIA040H12Q-P72-BB Applications

1. Electric Motorcycle Controller Cooling: The 25000 RPM output provides the high-velocity airflow required to dissipate heat from high-current power MOSFETs in compact VFD and motor controller housings.
2. 1U Server Chassis: Ideal as a high-pressure replacement fan for 1U rackmount environments where high component density creates significant backpressure.
3. Industrial Cryptocurrency Mining: Engineered to overcome the extreme thermal loads of ASIC hashing boards where maximum static pressure is mandatory for hardware longevity.

Supplemental Images

