PIA120K12Y-P04-DB Foxconn 12VDC 3.60A 120mm DC Fan Datasheet

Brand: Foxconn

SKU: 1042038100950

Category: Axial & Centrifugal Fans

Price: **$18.57**

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Product Page:
https://www.equipspares.com/product/pia120k12y-p04-db-foxconn-12vdc-3-60a-120mm-dc-fan

Product Description

Foxconn PIA120K12Y-P04-DB features a 120 x 120 x 38 mm physical footprint, 12 VDC nominal voltage, and a high-capacity 3.60 A current rating. This DC brushless unit is constructed with a durable thermoplastic frame and impeller, utilizing a dual ball bearing mechanism to ensure extended operational longevity under continuous thermal loads. The hardware integrates a 4-wire PWM control interface terminated in a 6-pin connector, allowing for precise rotational speed modulation and tachometer feedback. Engineered for maximum volumetric throughput, the structural design optimizes static pressure and airflow delivery without compromising mechanical stability.

PIA120K12Y-P04-DB Specifications
Model Number: PIA120K12Y-P04-DB
Brand: Foxconn
Product Category: DC Brushless Fan
Nominal Voltage: 12 VDC
Operating Voltage Range: 10.8 to 13.2 VDC
Nominal Current: 3.60 A
Power Consumption: 43.2 W
Dimensions: 120 x 120 x 38 mm
Bearing Type: Dual Ball Bearing

Motor Type: DC Brushless
Control Method: PWM (Pulse Width Modulation)
Wiring: 4-Wire (Power, Ground, PWM, Tachometer)
Connector Type: 6-Pin Interface
Frame Material: PBT Thermoplastic (UL94V-0)
Impeller Material: PBT Thermoplastic (UL94V-0)
Airflow Characteristic: High Volume / High Static Pressure
Operating Temperature: -10 °C to 70 °C
Storage Temperature: -40 °C to 75 °C
Agency Approvals: UL (E231557), CE, RoHS Compliant

PIA120K12Y-P04-DB Applications

Primary applications include integration into high-density server racks, industrial power supply units, and automated CNC control cabinets requiring aggressive thermal management. Deployed within telecommunications base stations and enterprise-grade computing chassis, the unit provides critical forced-air convection to maintain optimal operating temperatures for high-wattage electronic components.

Supplemental Images