PIA080K12R-P07-AB Foxconn 12VDC 80x80x38mm PWM Axial Fan Datasheet

Brand: Foxconn

SKU: 1027159132242

Category: Axial & Centrifugal Fans

Price: **$18.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/pia080k12r-p07-ab-foxconn-12vdc-80x80x38mm-pwm-axial-fan

Product Description

Foxconn PIA080K12R-P07-AB is a 12VDC 80x80x38mm Axial Fan optimized for high-density thermal management in server and industrial environments. This unit features a sophisticated dual ball bearing architecture designed to minimize friction and extend service life under continuous operation. The aerodynamic impeller is engineered for high structural rigidity, effectively overcoming significant system impedance. Operating at a rated current of 2.80A, it delivers substantial static pressure and airflow, crucial for maintaining low thermal impedance in restricted enclosures. The 4-wire interface supports precise PWM speed control and tachometer feedback, ensuring efficient cooling modulation for mission-critical hardware.

Model Number: PIA080K12R-P07-AB
Brand: Foxconn
Product Type: Axial Fan
Rated Voltage: 12VDC
Voltage Range: 7.0 - 13.2 VDC
Rated Current: 2.80A
Power: 33.6W
Rated Speed: 11000 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 105.2 CFM (178.7 m^3/h / 2.98 m^3/min)

Max. Static Pressure: 38.5 mmH_2O (377.5 Pa / 1.51 inH_2O)
Dimensions: 80x80x38mm
Weight: 195g
Life Expectancy: 70,000 Hours at 40°C
Speed Control: PWM (Pulse Width Modulation)
Monitoring: Tachometer (Frequency Generator)
Housing Material: Plastic (UL94V-0)
Blade Material: Plastic (UL94V-0)
Termination: 4-Wire Lead Wires
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +75°C
Protection: Locked Rotor Protection, Reverse Polarity Protection
Certifications: UL, TUV, CE

PIA080K12R-P07-AB Applications

1. 2U/3U Rackmount Servers: The 38mm depth and 2.80A power draw provide the high static pressure required to push air through dense heatsink arrays and drive-bays, serving as a high-spec replacement fan for enterprise hardware.
2. Industrial VFD Enclosures: High-amperage motor design ensures consistent cooling in high-impedance environments where dust filters and internal components restrict airflow.
3. Crypto-Mining Rigs: Structural rigidity and dual ball bearings allow for 24/7 high-RPM operation, critical for dissipating concentrated heat loads from multi-GPU setups.

Supplemental Images