G0938R48BYPP-48 Nidec 48VDC 0.17A 92x92x38mm Axial Fan Datasheet

Brand: Nidec

SKU: 839826597280

Category: Axial & Centrifugal Fans

Price: **$26.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/g0938r48bypp-48-nidec-48vdc-0-17a-92x92x38mm-axial-fan

Product Description

Nidec G0938R48BYPP-48 is a 48VDC 92x92x38mm Axial Fan optimized for high-density server environments and telecommunications infrastructure. This unit features a sophisticated DC brushless motor architecture paired with a precision dual ball bearing system to minimize thermal impedance and ensure long-term structural rigidity under continuous duty cycles. The aerodynamic impeller design is engineered to overcome significant system impedance in cramped enclosures. Operating at a rated current of 0.17A, this fan delivers high-velocity airflow and substantial static pressure, making it an essential component for maintaining thermal equilibrium in mission-critical hardware.

Model Number: G0938R48BYPP-48
Brand: Nidec
Product Type: Axial Fan
Rated Voltage: 48VDC
Voltage Range: 36.0 - 56.0 VDC
Rated Current: 0.17A
Power: 8.16W
Rated Speed: 4500 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 85.4 CFM (145.1 m^3/h)
Max. Static Pressure: 12.5 mmH_2O (122.6 Pa)

Dimensions: 92x92x38mm
Weight: 210g
Life Expectancy: 70,000 Hours at 40°C
Speed Control: PWM Signal Input
Monitoring Output: 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 Features: Locked Rotor Protection, Reverse Polarity Protection
Certifications: UL, TUV, CE, RoHS

G0938R48BYPP-48 Applications
1. 2U/3U Rackmount Servers: The 38mm depth and high-torque motor provide the necessary static pressure to drive cooling air through dense memory banks and CPU heat sinks.
2. 48V Telecom Rectifiers: Optimized for integration into DC power distribution units where high-voltage stability and continuous operation are required for network uptime.
3. Industrial VFD Enclosures: Ideal as a replacement fan for variable frequency drives requiring robust airflow to dissipate heat from power semiconductors in high-impedance environments.

Supplemental Images