D12T-12PS14-0410G-YA Nidec 12VDC 120x120x25mm Axial Fan Datasheet

Brand: Nidec

SKU: 915129392136

Category: Axial & Centrifugal Fans

Price: **$9.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/d12t-12ps14-0410g-ya-nidec-12vdc-120x120x25mm-axial-fan

Product Description

The Nidec D12T-12PS14-0410G-YA is a precision-engineered Axial Fan designed for applications requiring consistent airflow with minimal acoustic signature. Utilizing advanced DC brushless motor technology, this unit optimizes electrical efficiency while maintaining low thermal impedance during continuous operation. The impeller geometry is crafted to reduce turbulence, enhancing aerodynamic efficiency and static pressure delivery. Constructed with high-grade materials to ensure structural rigidity, the fan operates reliably within complex thermal management systems. Its 3-wire configuration supports tachometer signal output, allowing for real-time speed monitoring essential for critical industrial and computing environments.

Model Number: D12T-12PS14-0410G-YA
Brand: Nidec
Product Type: Axial Fan
Rated Voltage: 12 VDC
Voltage Range: 10.2 - 13.8 VDC
Rated Current: 0.10 A
Power: 1.20 W
Rated Speed: 1500 RPM
Bearing Type: Precision Ball Bearing
Max. Air Flow: 52.0 CFM (88.3 m^3/h)

Max. Static Pressure: 1.80 mmH_2O (17.65 Pa)
Dimensions: 120 x 120 x 25 mm
Weight: 160 g
Life Expectancy: 70,000 Hours @ 40°C
Termination: 3-Wire Leads
Wire Function: Red (+), Black (-), Yellow (Sensor)
Speed Control: Tachometer Output (FG)
Noise Level: 24.5 dBA
Housing Material: Polybutylene Terephthalate (PBT) UL94V-0
Impeller Material: Polybutylene Terephthalate (PBT) UL94V-0
Operating Temperature: -10 to +70 °C
Storage Temperature: -40 to +70 °C
Insulation Resistance: 10M Ohm at 500VDC
Dielectric Strength: 500VAC for 1 min
Certifications: UL, CSA, TUV, CE, RoHS

The D12T-12PS14-0410G-YA is frequently integrated into thermal management solutions for telecommunications cabinets and server rack enclosures where reliability is paramount. Engineers utilize the D12T-12PS14-0410G-YA in sensitive electronic instrumentation and medical diagnostic equipment that demands low-noise operation without compromising air exchange rates. Additionally, this model serves as a critical component in power supply cooling and industrial automation control panels, ensuring component longevity through effective heat dissipation.

Supplemental Images