PUDC24Z4R Nidec 24VDC 80x80x25mm Cooling Axial Fan Datasheet

Brand: Nidec

SKU: 991278853876

Category: Axial & Centrifugal Fans

Price: **$104.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/pudc24z4r-nidec-24vdc-80x80x25mm-cooling-axial-fan

Product Description

The Nidec PUDC24Z4R is a precision-engineered DC Axial Fan designed for critical thermal management in industrial environments. Utilizing advanced DC brushless motor technology, this unit ensures optimal airflow efficiency while maintaining low power consumption. The robust construction features a high-grade thermoplastic housing and impeller, contributing to superior structural rigidity and reduced vibration during operation. Engineered for reliability, the PUDC24Z4R minimizes thermal impedance within electronic enclosures, making it an ideal solution for systems requiring consistent cooling performance and long-term durability under continuous duty cycles.

Model Number: PUDC24Z4R
Brand: Nidec
Product Type: DC Axial Fan
Rated Voltage: 24 VDC
Voltage Range: 14.0 - 27.6 VDC
Rated Current: 0.1 A
Power: 2.4 W
Rated Speed: 3400 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 40.0 CFM (67.9 m^3/h)
Max. Static Pressure: 4.2 mmH_2O (41.2 Pa)

Dimensions: 80 x 80 x 25 mm
Weight: 85 g
Life Expectancy: 60,000 Hours at 40°C
Noise Level: 34 dB(A)
Housing Material: PBT (UL94V-0)
Blade Material: PBT (UL94V-0)
Termination: Lead Wires
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Mounting Orientation: Any
Ingress Protection: IP20
Motor Protection: Impedance Protected, Reverse Polarity

This cooling solution is engineered for high-reliability applications such as server rack ventilation, telecommunications equipment, and industrial automation control panels. The PUDC24Z4R provides consistent airflow necessary to dissipate heat from sensitive components like power supplies and drive systems. Integrators frequently utilize the PUDC24Z4R in CNC machinery and medical instrumentation where stable thermal envelopes are critical for operational precision and component longevity.

Supplemental Images