A35037-57SNY Nidec 12VDC 50x50x15mm Centrifugal Blower Fan Datasheet

Brand: Nidec

SKU: 652784385857

Category: Axial & Centrifugal Fans

Price: **$19.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/a35037-57sny-nidec-12vdc-50x50x15mm-centrifugal-blower-fan

Product Description

The Nidec A35037-57SNY is a compact Centrifugal Blower engineered for precision thermal management in space-constrained industrial environments. Part of the renowned GAMMA26 series, this unit utilizes an advanced DC brushless motor architecture designed to minimize electromagnetic interference while maximizing torque efficiency. The aerodynamic profile features a specialized impeller geometry that optimizes static pressure delivery against high system impedance, ensuring consistent airflow through dense components. Constructed with high-grade thermoplastic housing to ensure structural rigidity and vibration damping, the blower integrates a robust bearing system capable of sustaining continuous operation. Its thermal impedance characteristics make it an ideal solution for sensitive electronic cooling applications requiring reliable air movement.

Model Number: A35037-57SNY
Brand: Nidec Corporation
Product Type: DC Centrifugal Blower
Series: GAMMA26
Rated Voltage: 12V DC
Operating Voltage Range: 10.2 - 13.8 VDC
Rated Current: 0.10 A
Input Power: 1.20 W
Rated Speed: 4500 RPM

Bearing Type: Maintenance-Free Bearing System
Max. Air Flow: 3.5 CFM (5.9 m^3/h / 0.09 m^3/min)
Max. Static Pressure: 0.45 inH_2O (112 Pa)
Dimensions: 50mm x 50mm x 15mm
Termination: 3-Wire Lead (with Sensor)
Wire Configuration: Red (+), Black (-), Yellow (Signal)
Housing Material: PBT (UL94V-0)
Impeller Material: PBT (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Noise Level: 28.0 dBA
Speed Control: Tachometer Output (FG Signal)
Direction of Rotation: Clockwise (Viewed from Label)
Weight: 30 g

The A35037-57SNY is specifically calibrated for integration into compact consumer and industrial appliances where directed airflow is critical. Common deployment scenarios include smart humidifiers, where the blower forces moisture through dispersion units, as well as small form-factor projectors and 3D printer hotend cooling systems. The A35037-57SNY provides the necessary static pressure to overcome the resistance of ducts and nozzles found in medical nebulizers and portable air quality monitors, ensuring reliable thermal regulation and fluid dynamics in restricted enclosures.

Supplemental Images