

D05F-12PH 36AH1(EX) Nidec 12VDC 50x50x20mm Turbine Blower Fan Datasheet



Brand: Nidec

SKU: [993136364496](#)

Category: Axial & Centrifugal Fans

Price: **\$9.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/d05f-12ph-36ah1ex-nidec-12vdc-50x50x20mm-turbine-blower-fan>

Product Description

The Nidec D05F-12PH 36AH1(EX) is a precision-engineered DC centrifugal blower designed for high-density thermal management applications. Utilizing advanced aerodynamic turbine blade geometry, this unit optimizes static pressure delivery while maintaining a compact footprint, essential for overcoming high thermal impedance in restricted enclosures. The motor assembly features a robust brushless DC architecture paired with a durable bearing system, ensuring long-term operational stability and structural rigidity under continuous load. Engineered for efficiency, the D05F-12PH 36AH1(EX) minimizes electromagnetic interference and vibration, making it a critical component for sensitive industrial and electronic cooling circuits requiring reliable forced convection.

Model Number: D05F-12PH 36AH1(EX)

Brand: Nidec

Product Type: Centrifugal Blower Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.14 A

Power Consumption: 1.68 W

Rated Speed: 5200 RPM

Bearing Type: Maintenance-Free Nidec Bearing System

Max. Air Flow: 4.2 CFM (7.13 m³/h / 0.11 m³/min)

Max. Static Pressure: 11.2 mmH₂O (109.8 Pa / 0.44 inH₂O)

Dimensions: 50x50x20mm

Weight: 28 g

Life Expectancy: 40,000 Hours at 40°C

Noise Level: 31.0 dB(A)

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Termination: 4-Wire Lead

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Insulation Resistance: 10M Ohm at 500VDC

Dielectric Strength: 500VAC for 1 Minute

Safety Certifications: UL, cUL, TUV, CE

This centrifugal blower is specifically calibrated for applications demanding concentrated airflow in confined spaces. The D05F-12PH 36AH1(EX) is frequently integrated into compact projection equipment, portable medical instrumentation, and server rack spot cooling solutions where axial fans lack the necessary static pressure. Additionally, the D05F-12PH 36AH1(EX) serves as a vital thermal component in industrial automation controllers and 3D printing cooling ducts, ensuring critical components remain within safe operating temperature ranges.

Supplemental Images

