

9HV0412P3K001 Sanyo Denki 12V 40x40x28mm DC Axial Fan

SKU: 9HV0412P3K001

Price: \$38.99

Categories: Fans

Tags: Sanyo Denki

Product Link:

<https://www.electspares.com/product/9hv0412p3k001-sanyo-denki-12v-40x40x28mm-dc-axial-fan/>

Product Description

The Sanyo Denki 9HV0412P3K001 is a high-performance 12VDC axial fan with dimensions of 40 x 40 x 28 mm, specifically engineered to deliver ultra-high static pressure in space-constrained industrial environments. Part of the San Ace 40 9HV series, this cooling solution features a precision-cast aluminum frame and a high-efficiency 5-blade plastic impeller (UL 94V-0), providing superior structural integrity and heat dissipation. It operates at a rated speed of 25,000 RPM, delivering a maximum air flow of 28.25 CFM (48 m³/h) and a massive static pressure of 4.42 inH₂O (1100 Pa). Equipped with a robust dual ball bearing system and PWM speed control, the 9HV0412P3K001 ensures precise thermal management and an extended service life of 70,000 hours at 40°C. This model is characterized by its exceptional capability to overcome high system impedance, supported by comprehensive protection features such as locked rotor and reverse polarity protection.

9HV0412P3K001 Fan Parameters

Manufacturer: Sanyo Denki

Model Number: 9HV0412P3K001

Type: DC Axial Fan

Series: San Ace 40 9HV type

Dimensions: 40 x 40 x 28 mm

Weight: 65 g

Frame Material: Aluminum

Impeller Material: Plastics (UL 94V-0)

Bearing Type: Dual Ball Bearing

Number of Blades: 5

Rated Voltage: 12 VDC

Operating Voltage Range: 10.8 - 13.2 VDC
Rated Current: 1.52 A
Rated Input Power: 18.24 W
Rated Speed: 25,000 RPM
Max. Air Flow: 28.25 CFM (48 m³/h / 0.80 m³/min)
Max. Static Pressure: 4.42 inH₂O (1100 Pa / 112.2 mmH₂O)
Sound Pressure Level: 64 dB(A)
Sound Power Level: 74 dB(A)
Termination: 4 Lead Wires (300 mm, AWG 26)
Wire Functions: Red (+), Black (-), Yellow (Tachometer), Brown (PWM)
Control Interface: PWM Control / Tachometer Sensor
PWM Control Frequency: 25 kHz
PWM Duty Cycle: 0 - 100%
Operating Temperature: -20 - +70 °C
Storage Temperature: -30 - +70 °C
Expected Life: 40,000 h (at 60 °C) / 70,000 h (at 40 °C)
Locked Rotor Protection: Supported
Reverse Polarity Protection: Supported
Soft Start: Supported
Dielectric Strength: 50/60 Hz, 500 VAC, for 1 minute
Insulation Resistance: 10 MΩ or more (500 VDC)
Safety Approvals: UL, CSA, TUV, RoHS

Application

This high-performance axial fan is specifically designed for cooling high-density 1U servers, high-speed network switches, cloud storage arrays, industrial frequency converters, and high-wattage power supplies where maximum airflow must be maintained against high system impedance.

Product Images









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