

9PH0412P3J063 Sanyo Denki 12VDC 40x40x28mm PWM Axial Fan Datasheet



Brand: Sanyo Denki

SKU: [991911612828](#)

Category: Axial & Centrifugal Fans

Price: **\$12.99**

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Product Page:

<https://www.equipspares.com/product/9ph0412p3j063-sanyo-denki-12vdc-40x40x28mm-pwm-axial-fan>

Product Description

The Sanyo Denki 9PH0412P3J063 is a high-performance DC axial fan belonging to the renowned San Ace 40 9PH series, engineered specifically for high static pressure applications within compact enclosures. This unit features a robust 40x40x28mm form factor driven by an advanced DC motor with Pulse Width Modulation (PWM) control, allowing for precise speed regulation and thermal management. The aerodynamic design utilizes a specialized impeller geometry that maximizes airflow efficiency while maintaining significant static pressure capabilities, essential for overcoming high system impedance. Built with precision dual ball bearings, the 9PH0412P3J063 ensures exceptional rotational stability, reduced friction, and extended operational longevity under continuous load. The structural rigidity of the frame, combined with superior thermal impedance characteristics, makes this fan an ideal solution for mission-critical cooling where reliability and air density are paramount.

Model Number: 9PH0412P3J063

Brand: Sanyo Denki (San Ace)

Product Type: DC Axial Fan

Series: San Ace 40 (9PH Type)

Rated Voltage: 12 VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 0.35 A

Power Consumption: 4.2 W

Rated Speed: 13500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 23.66 CFM (40.2 m³/h / 0.67 m³/min)

Max. Static Pressure: 1.81 inH₂O (450 Pa / 45.9 mmH₂O)

Dimensions: 40 x 40 x 28 mm

Weight: 53 g

Noise Level: 54 dB(A)

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Wire (Lead Wire)

Wire Assignment: Red (+), Black (-), Yellow (Sensor), Brown/Blue (Control)

Frame Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Operating Temperature: -20°C to +70°C

Storage Temperature: -30°C to +70°C

Life Expectancy: 40,000 Hours (at 60°C)

Dielectric Strength: 50/60 Hz, 500 VAC, 1 minute

Protection: Locked Rotor Protection, Reverse Polarity Protection

The 9PH0412P3J063 is specifically designed for high-density electronic environments requiring forced air cooling through restricted pathways. Common applications include 1U server racks, telecommunications power supplies, and compact industrial instrumentation where component density creates high airflow resistance. The high static pressure generated by the 9PH0412P3J063 effectively pushes air through dense heatsinks and cluttered chassis layouts found in medical devices and CNC control modules. Additionally, the PWM functionality allows the 9PH0412P3J063 to integrate seamlessly into smart thermal management systems, adjusting speed dynamically to balance cooling performance with acoustic requirements.

Supplemental Images

