

109P0412B3013 Sanyo Denki 12VDC 40x40x28mm 0.28A Axial Fan Datasheet



Brand: Sanyo Denki

SKU: [654100974018](#)

Category: Axial & Centrifugal Fans

Price: **\$13.99**

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Product Description

The Sanyo Denki 109P0412B3013 is a precision-engineered DC Axial Fan designed for high-density electronic cooling applications. Part of the renowned San Ace 40 series, this unit utilizes a robust dual ball bearing architecture to ensure long-term operational stability and reduced frictional wear. The aerodynamic impeller design optimizes airflow while maintaining significant static pressure, making it ideal for overcoming high thermal impedance in compact enclosures. Constructed with a durable plastic frame and impeller, it offers structural rigidity and reliable performance under continuous load conditions, ensuring critical components remain within safe thermal operating limits.

Model Number: 109P0412B3013

Brand: Sanyo Denki

Product Type: DC Axial Fan

Series: San Ace 40 (109P)

Rated Voltage: 12V DC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.28 A

Power Consumption: 3.36 W

Rated Speed: 12500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 16.2 CFM (27.5 m³/h / 0.46 m³/min)

Max. Static Pressure: 16.5 mmH₂O (161.8 Pa / 0.65 inH₂O)

Dimensions: 40x40x28 mm

Weight: 53 g

Life Expectancy: 40,000 Hours @ 60°C / 70,000 Hours @ 40°C

Noise Level: 44 dB(A)

Speed Control: Pulse Sensor (Tachometer)

Termination: 3-Wire Lead (Red +, Black -, Yellow Sensor)

Frame Material: Plastics (UL94V-0)

Impeller Material: Plastics (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -30°C to +70°C

Protection: Locked Rotor Protection, Reverse Polarity Protection

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

This high-performance cooling solution is specifically engineered for space-constrained environments requiring substantial airflow, such as 1U server racks, telecommunications equipment, and industrial power supplies. The 109P0412B3013 excels in cooling RAID arrays and network switches where backpressure is a critical factor. Additionally, the 109P0412B3013 is frequently utilized in medical instrumentation and CNC control modules, ensuring critical components remain within safe thermal operating limits during extended duty cycles.

Supplemental Images

