

# 109P0424H6D01 Sanyo Denki 24VDC 40x40x20mm Lock Sensor Axial Fan Datasheet



**Brand:** Sanyo Denki

**SKU:** [988466439142](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$24.99**

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Product Page:

<https://www.equipspares.com/product/109p0424h6d01-sanyo-denki-24vdc-40x40x20mm-lock-sensor-axial-fan>

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## Product Description

The Sanyo Denki 109P0424H6D01 is a compact axial cooling fan engineered for precision thermal management in high-density electronic environments. Part of the renowned San Ace 40 series, this unit utilizes a highly efficient DC motor driven by a dual ball bearing architecture, ensuring exceptional longevity and reduced frictional heat generation. The aerodynamic impeller design optimizes airflow while maintaining a compact footprint, making it suitable for applications requiring a balance between static pressure and volumetric flow. Constructed with a flame-retardant PBT plastic frame, the fan offers superior structural rigidity and thermal impedance characteristics, ensuring reliable operation under continuous duty cycles.

Model Number: 109P0424H6D01

Brand: Sanyo Denki

Series: San Ace 40 (9P Type)

Product Type: Axial Fan

Rated Voltage: 24V DC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 0.07 A

Power Consumption: 1.68 W

Rated Speed: 7500 RPM

Max. Air Flow: 7.8 CFM (0.22 m<sup>3</sup>/min)

Max. Static Pressure: 4.7 mmH<sub>2</sub>O (46.1 Pa / 0.18 inH<sub>2</sub>O)

Dimensions: 40 x 40 x 20 mm

Weight: 48 g

Bearing Type: Dual Ball Bearing

Noise Level: 32 dB(A)

Life Expectancy: 40,000 Hours @ 60°C

Operating Temperature: -10°C to +70°C

Storage Temperature: -30°C to +70°C

Frame Material: Plastics (Flammability: UL94V-0)

Impeller Material: Plastics (Flammability: UL94V-0)

Sensor Type: Locked Rotor Sensor (Pulse Sensor/Lock Sensor)

Ingress Protection: Standard

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

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

Insulation Resistance: 10MΩ or more at 500 VDC

Motor Protection: Burnout protection at locked rotor condition

Polarity Protection: Reverse polarity protection

The 109P0424H6D01 is specifically designed for critical cooling applications where space is at a premium but reliability cannot be compromised. Common deployment scenarios include 1U server rack cooling, telecommunications switching equipment, and compact industrial power supplies. The 109P0424H6D01 is also frequently utilized in medical instrumentation and CNC control modules, where its locked rotor sensor provides essential feedback to system controllers, preventing thermal runaway events in automated machinery.

## Supplemental Images

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