



109P0424H6D01 Sanyo Denki

Brand: Sanyo Denki

SKU: 109P0424H6D01

Category: DC Fans

URL: <https://www.fansco.com/item/109p0424h6d01-sanyo-denki/>

Contact: sales@fansco.com

Product Description

The Sanyo Denki 109P0424H6D01 is a high-reliability 40 mm DC Axial Fan from the San Ace

40 series, engineered for precision cooling in compact electronic modules and power supply units. Operating on a nominal 24 VDC supply (20.4 – 27.6 VDC range), this unit is powered by a high-efficiency Brushless DC Motor that delivers 1.68 W of power at a rated speed of 8000 RPM. Within its 40 x 40 x 20 mm plastic housing, the fan utilizes a 5-blade impeller and a 3-wire interface to provide stable airflow of 14.4 m³/h (8.47 CFM) while generating a static pressure of 58 Pa (0.23 inAq). Designed for mission-critical reliability, the 109P0424H6D01 features dual ball bearings and a locked rotor sensor, ensuring a long service life of 60000 h at 40 °C for 24 VDC industrial and medical applications that demand a compact 50 g thermal solution.

109P0424H6D01 Fan Parameters

Manufacturer: Sanyo Denki

Model Number: 109P0424H6D01

Motor Design: Brushless DC Motor

Type: DC Axial Fan

Nominal Voltage: 24 VDC

Nominal Voltage Range: 20.4 – 27.6 VDC

Dimensions: 40 x 40 x 20 mm

Impeller Size: 40 mm

Number of Blades: 5

Weight: 50 g

[Electrical Data]

Nominal Speed: 8000 RPM

Power Consumption: 1.68 W

Current Draw: 0.07 A

Termination: 3-wire (with Sensor)

Motor Protection: Reverse polarity and locked-rotor protection

Insulation Class: E

[Performance & Acoustics]

Max. Air Flow: 14.4 m³/h (8.47 CFM)

Max. Static Pressure: 58 Pa (0.23 inAq)

Sound Pressure Level: 28 dB(A)

Direction of Rotation: Clockwise (looking at rotor)

Airflow Direction: Exhaust over struts

[Materials & Construction]

Housing Material: Plastic (UL 94V-0)

Impeller Material: Plastic (UL 94V-0)

Motor Bearing: Dual Ball Bearings

Mounting: 4 corner holes (Ø 3.5 mm)

[Reliability & Protection]

Degree of Protection: IP20

Min. Ambient Temperature: -10 °C

Max. Ambient Temperature: 70 °C

Service Life (L10): 60000 h at 40 °C

Standard Compliance: UL, CSA, TÜV, CE

Application

The Sanyo Denki 109P0424H6D01 is specifically engineered for precision thermal management in compact networking devices and medical instrumentation where its 40 x 40 x 20 mm footprint and 8000 RPM performance are required to deliver a constant 8.47 CFM airflow through small internal cavities, while its integrated 3-wire sensor and 0.07 A brushless motor ensure system safety and energy-efficient 24 VDC operation in environments up to 70 °C.

Technical Specifications

Attribute	Value
Part Number	109P0424H6D01
Manufacturer	Sanyo Denki
Fan Type	DC
Series	San Ace 40
Voltage Rating	24 VDC
Dimensions	40x40x20 mm
Air Flow	8.2 CFM
Air Flow (m3)	0.230m ³ /min
Static Pressure	0.280 in H ₂ O (69.7 Pa)
Bearing Type	Ball Bearing
Features	Locked Rotor Sensor
Noise Level	35 dB(A)
Power Rating	1.68 W
Fan Speed	8300 RPM
Termination	3 Wire Leads
Operating Temperature	-4 ~ 158°F (-20 ~ 70°C)
Approval Agency	CSA, TUV, UL
Weight	0.101 lb (45.81 g)
Subcategory	Tubeaxial