

109P0912H4D01 Sanyo Denki 12V 0.21A 92mm DC Axial Fan

SKU: 109P0912H4D01

Price: \$15.50

Categories: Fans

Tags: Sanyo Denki

Product Link:

<https://www.electspares.com/product/109p0912h4d01-sanyo-denki-12v-0-21a-92mm-dc-axial-fan/>

Product Description

The Sanyo Denki 109P0912H4D01 is a high-reliability industrial DC Axial Fan with dimensions of 92 x 92 x 25 mm. Driven by a precision Brushless DC Motor, this San Ace 92 series model is engineered as a robust thermal management solution operating on a nominal 12 VDC. It delivers a steady maximum airflow of 46.6 CFM (79.2 m³/h) at a rated speed of 2850 RPM. With a rated current of 0.21 A and a power input of 2.52 W, it is specifically designed for consistent performance in industrial controllers and medical diagnostics equipment. This specialized 3-wire version features a premium dual-ball bearing system and an optimized 7-blade impeller. Crucially, it is equipped with a Lock Sensor (D-Type) signal, which outputs a logical signal to indicate whether the fan is rotating or stopped. The 109P0912H4D01 provides mission-critical reliability with a life expectancy of 60,000 hours, making it an ideal choice for 12V systems requiring a standard 92 mm form factor with integrated rotation failure detection.

109P0912H4D01 Fan Parameters

Manufacturer: Sanyo Denki (San Ace)

Model Number: 109P0912H4D01

Motor Design: Brushless DC Motor

Type: DC Axial Fan (Standard High Speed Series)

Dimensions: 92 x 92 x 25 mm

Impeller Size: 88 mm

Nominal Voltage: 12 VDC

Operating Voltage Range: 10.2 to 13.8 VDC

Starting Voltage: 7.0 VDC

Speed: 2850 RPM

Power Input: 2.52 W

Rated Current: 0.21 A
Max. Airflow: 46.6 CFM (79.2 m³/h)
Max. Static Pressure: 39.2 Pa (0.157 inAq)
Noise Level: 34 dB(A)
Weight: 110 g
Termination: 3 Wire Leads (Red: +, Black: -, Yellow: Lock Sensor)
Lead Wire Length: 300 mm (24 AWG)
Bearing Type: Dual Ball Bearing
Housing Material: Plastic (UL 94V-0 PBT)
Impeller Material: Plastic (UL 94V-0 PBT)
Number of Blades: 7
Direction of Rotation: Clockwise (viewed toward rotor)
Direction of Airflow: Struts Side Out (Exhaust)
Degree of Protection: IP20
Insulation Class: A
Dielectric Strength: 500 VAC / 1 min
Insulation Resistance: 10M Ω or over with a DC500V Megger
Operating Temp. Range: -10 °C to +70 °C
Storage Temp. Range: -30 °C to +70 °C
Life Expectancy (L10) at 40 °C: 60,000 h
Signal Output: Lock Sensor (Outputs High or Low when rotor is locked)
Safety Protections: Auto-restart, Polarity protection, Locked-rotor protection
Approvals: CE, UL, TUV, CSA

Application

The 109P0912H4D01 is primarily utilized as a thermal management component for industrial automation controllers, server rack sub-systems, and sensitive medical imaging equipment. Its 92 mm frame size is a standard for mid-sized electronics enclosures, providing a balance between high airflow (46.6 CFM) and low acoustic noise (34 dB(A)). The integrated Lock Sensor is the most critical feature for these applications; it allows the host system to immediately trigger a shutdown or alarm if the fan stops spinning due to an obstruction or bearing failure, thereby preventing catastrophic overheating of the internal CPU or power modules. This model's dual-ball bearing construction ensures a long 60,000-hour service life, making it a reliable choice for 24/7 continuous operation in professional 12V DC environments.

Product Images



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