

Sanyo Denki 9GA0948P1H03 48VDC 92x92x38mm Axial Fan Datasheet



Brand: Sanyo Denki

SKU: [1036963854192](#)

Category: Axial & Centrifugal Fans

Price: **\$24.86**

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Product Description

The Sanyo Denki San Ace 92 9GA0948P1H03 is a low power consumption axial fan engineered for high-performance thermal management. Operating at a rated voltage of 48VDC (40.8-55.2VDC range), it utilizes a dual ball bearing system and a durable plastic frame and impeller. This 92x92x38mm fan delivers a maximum airflow of 141 CFM (4.0 m³/min) and a peak static pressure of 500 Pa (2.01 inH₂O) at a rated speed of 9700 RPM. Acoustic noise is rated at 63 dB(A). It features a 4-wire interface with PWM speed control and a pulse sensor (tachometer) for precise RPM monitoring and thermal regulation.

Manufacturer: Sanyo Denki

Series: San Ace 92 (GA Type Low Power Consumption)

Model Number: 9GA0948P1H03

Product Type: DC Axial Cooling Fan

Dimensions: 92 x 92 x 38 mm

Rated Voltage: 48 VDC

Operating Voltage Range: 40.8 to 55.2 VDC

Rated Current: 0.55 A

Rated Input Power: 26.4 W

Rated Speed: 9700 RPM

Max Airflow: 141 CFM (4.0 m³/min)

Max Static Pressure: 500 Pa (2.01 inchH₂O)

Noise Level (SPL): 63 dB(A)

Bearing Type: Ball Bearing

Frame Material: Plastic

Impeller Material: Plastic

Termination: 4 Wire Leads

Speed Control: PWM Control Function

Sensor Type: Pulse Sensor (Tachometer)

Operating Temperature: -20°C to +70°C (Non-condensing)

Expected Life: 40,000 hours at 60°C (70,000 hours at 40°C)

Weight: 240 g (0.529 lb)

Motor Protection: Locked rotor burn protection, reverse polarity protection

Insulation Withstand Voltage: 50/60 Hz AC 500 V for 1 minute

Insulation Resistance: 10 MΩ or more at 500 VDC megger

Ribbed Frame: Yes

Approvals: UL, CSA, TUV

RoHS Status: Compliant

1. Telecom Power Supplies: The 48VDC operating voltage directly aligns with standard telecommunication DC bus voltages, while the 141 CFM airflow ensures rapid heat dissipation for high-density rectifiers.

2. 2U/3U Rackmount Servers: The 92x38mm form factor perfectly fits 2U and 3U chassis profiles, utilizing the 500 Pa high static pressure to force air through densely packed CPU heatsinks and memory banks.

3. Industrial Control Cabinets: The wide operating temperature range (-20°C to +70°C) and locked rotor protection make it highly reliable for continuous operation in harsh factory automation environments.

4. Networking Switches and Routers: The integrated PWM control allows the system to dynamically scale the 9700 RPM fan speed based on thermal loads, optimizing the balance between cooling performance and the 63 dB(A) acoustic output.

Supplemental Images

