

9WG5748P5H003 Sanyo Denki 48VDC 172x51mm PWM IP68 Fan Datasheet



Brand: Sanyo Denki

SKU: [978643149547](#)

Category: Axial & Centrifugal Fans

Price: **\$182.99**

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<https://www.equipspares.com/product/9wg5748p5h003-sanyo-denki-48vdc-172x51mm-pwm-ip68-fan>

Product Description

The Sanyo Denki 9WG5748P5H003 is a high-reliability Axial Fan engineered for demanding industrial environments requiring superior ingress protection and thermal management. Belonging to the San Ace 172W series, this unit features a robust DC motor coupled with a dual ball bearing architecture, ensuring reduced friction and extended operational longevity under continuous load. The aerodynamic impeller design optimizes airflow while maintaining structural rigidity, effectively overcoming high system impedance. With integrated PWM speed control and IP68-rated water and dust resistance, this cooling solution is specifically calibrated to mitigate thermal buildup in critical power electronics, offering stable performance in harsh operating climates.

Model Number: 9WG5748P5H003

Brand: Sanyo Denki

Product Type: Axial Fan

Series: San Ace 172W

Rated Voltage: 48VDC

Voltage Range: 40.8 - 55.2 VDC

Rated Current: 1.62 A

Power Input: 77.8 W

Rated Speed: 4100 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 300 CFM (510 m³/h / 8.5 m³/min)

Max. Static Pressure: 216 Pa (22.0 mmH₂O / 0.87 inH₂O)

Dimensions: 172mm x 150mm x 51mm (Side Cut Frame)

Frame Material: Aluminum Die-cast

Impeller Material: Plastic (UL94V-0)

Ingress Protection: IP68 (Waterproof/Dustproof)

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Wire (Red +, Black -, Yellow Sensor, Brown PWM)

Operating Temperature: -20°C to +70°C

Storage Temperature: -30°C to +70°C

Life Expectancy: 100,000 Hours (L10 at 40°C)

Weight: 860 g

Mounting Orientation: Any

Protection: Locked Rotor Protection, Reverse Polarity Protection

Designed specifically for high-reliability applications, the 9WG5748P5H003 is frequently utilized in variable frequency drive (VFD) cooling systems, most notably as a direct replacement for Danfoss N-type inverter cooling fans. Its waterproof construction makes it ideal for outdoor telecom cabinets, solar inverters, and CNC machinery where moisture and dust are prevalent. The 9WG5748P5H003 ensures consistent thermal dissipation in enclosed electronic cabinets, preventing overheating in mission-critical power conversion equipment.

Supplemental Images

