

9GV0412K3D01 Sanyo Denki 12VDC 40mm 0.84A Axial Fan Datasheet



Brand: Sanyo Denki

SKU: 906231776916

Category: Axial & Centrifugal Fans

Price: \$13.99

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Product Description

The Sanyo Denki 9GV0412K3D01 is a high-static pressure DC axial fan belonging to the renowned San Ace 40 9GV Guide Vane series. Engineered for environments requiring exceptional aerodynamic performance, this unit utilizes specialized guide vanes integrated into the frame struts to straighten airflow, significantly reducing turbulence and increasing static pressure capabilities compared to standard axial designs. The motor architecture features a robust DC drive system supported by precision dual ball bearings, ensuring structural rigidity and consistent operation under high thermal loads. With a compact 40mm form factor and high-power density, this fan is optimized to overcome high system impedance while maintaining efficient thermal transport.

Model Number: 9GV0412K3D01

Brand: Sanyo Denki

Product Type: DC Axial Fan (Guide Vane Series)

Rated Voltage: 12 VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 0.84 A

Rated Power: 10.08 W

Rated Speed: 18000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 26.5 CFM (45.0 m³/h / 0.75 m³/min)

Max. Static Pressure: 55.1 mmH₂O (540 Pa / 2.17 inH₂O)

Dimensions: 40 x 40 x 28 mm

Weight: 53 g

Life Expectancy: 40,000 Hours (at 60°C)

Noise Level: 56 dB(A)

Frame Material: Plastics (Flammability: UL94V-0)

Impeller Material: Plastics (Flammability: UL94V-0)

Operating Temperature: -20°C to +70°C

Storage Temperature: -30°C to +70°C

Sensor Type: Locked Rotor Sensor (D01)

Protection: Locked Rotor Protection, Reverse Polarity Protection

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

Insulation Resistance: 10 MΩ or more at 500 VDC

Lead Wire: Red (+), Black (-), Yellow (Sensor)

The 9GV0412K3D01 is specifically designed for high-density electronic applications where space is limited but airflow resistance is high. Common deployment scenarios include 1U server racks, telecommunications switching equipment, and compact power supplies where components are tightly packed. The high static pressure generated by the 9GV0412K3D01 ensures that cool air is effectively forced through dense heatsinks and restricted chassis channels, preventing thermal throttling in mission-critical hardware.

Supplemental Images

