

# 109L1448H509 Sanyo Denki 48V 0.29A 140mm DC Axial Fan

**SKU:** 109L1448H509

**Price:** \$69.99

**Categories:** Fans

**Tags:** Sanyo Denki

**Product Link:**

<https://www.electspares.com/product/109l1448h509-sanyo-denki-48v-0-29a-140mm-dc-axial-fan/>

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## Product Description

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The Sanyo Denki 109L1448H509 is an ultra-long-life Brushless DC Axial Fan from the San Ace 140L series, measuring 140 x 140 x 50 mm. Operating at a nominal voltage of 48 VDC, this specialized unit features a 5-blade high-pressure impeller design and a 3-wire termination for integrated status monitoring. Driven by a high-efficiency brushless motor, it draws 0.29 A with a power consumption of 13.92 W, delivering powerful airflow and high static pressure for demanding industrial cooling. The fan is equipped with a high-precision dual ball bearing system, ensuring a service life of 100,000 hours at 60 °C. With its robust die-cast aluminum housing and advanced signal output, the 109L1448H509 provides a mission-critical thermal management solution for high-density 48V DC power systems and telecommunications infrastructure.

109L1448H509 Fan Parameters

Manufacturer: Sanyo Denki

Model Number: 109L1448H509

Type: DC Axial Fan

Motor Design: Brushless DC Motor

Number of Blades: 5

Nominal Voltage: 48 VDC

Operating Voltage Range: 40.8 .. 55.2 VDC

Dimensions: 140 x 140 x 50 mm

Impeller Size: 131 mm

Weight: 650 g

[Electrical Data]

Rated Current: 0.29 A

Power Consumption: 13.92 W

Starting Voltage: 38 VDC

Termination: 3 Wire Leads (Red: +, Black: -, Yellow/White: Sensor)

Lead Wire: UL 1007, AWG 24

#### [Performance & Acoustics]

Air Flow: 285.0 m<sup>3</sup>/h (167.7 CFM)

Max. Static Pressure: 110.0 Pa (0.44 inAq)

Sound Pressure Level: 49 dB(A)

Sound Power Level: 6.1 B

#### [Materials & Construction]

Housing Material: Die-cast aluminum

Impeller Material: Thermoplastic PBT (UL94V-0)

Bearing Type: Dual Ball Bearing

Airflow Direction: Exhaust over struts

Direction of Rotation: Clockwise, viewed toward rotor

Mounting Hole Spacing: 124.5 mm

#### [Reliability & Protection]

Service Life L10: 100,000 h at 60 °C (expected 180,000 h at 40 °C)

Min. Ambient Temperature: -20 °C

Max. Ambient Temperature: 70 °C

Motor Protection: Locked Rotor Protection; Reverse Polarity Protection

Approval: UL, CSA, TUV

#### Application

The Sanyo Denki 109L1448H509 3-wire Brushless DC Fan is an ideal thermal management solution for high-availability infrastructures such as 5G telecommunications base stations, industrial server racks, and high-capacity solar inverters. Its 140 mm die-cast aluminum frame provides superior structural integrity and secondary heat dissipation, while the 5-blade high-speed design efficiently overcomes backpressure in dense electronic assemblies. The 3-wire termination allows for real-time tachometer or alarm signal monitoring, ensuring system safety in 24/7 mission-critical environments. With a 100,000-hour long-life rating and 0.29 A high-power performance, this 48V fan delivers durable, maintenance-free cooling for modern large-scale industrial electronics.

## Product Images

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