

109R0612D401 Sanyo Denki 12VDC 60x60x25mm 0.21A Axial Fan Datasheet



Brand: Sanyo Denki

SKU: 984955507645

Category: Axial & Centrifugal Fans

Price: \$25.99

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Product Page:

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Product Description

The Sanyo Denki 109R0612D401 is a precision-engineered DC axial fan belonging to the renowned San Ace 60 series, designed for critical thermal management in industrial electronics. This unit utilizes a robust dual ball bearing architecture to ensure long-term operational stability and reduced frictional coefficients, significantly enhancing life expectancy under continuous load. The aerodynamic impeller geometry is optimized to deliver high static pressure while maintaining a balanced acoustic profile. Engineered with a UL94V-0 rated plastic frame, it offers superior structural rigidity and thermal impedance properties. The integrated 12VDC motor features locked rotor protection and a tachometer signal output for real-time speed monitoring, making it ideal for systems requiring active thermal regulation.

Model Number: 109R0612D401

Brand: Sanyo Denki

Series: San Ace 60 (9R Type)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Operating Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.21 A

Rated Power: 2.52 W

Rated Speed: 4600 RPM

Max. Air Flow: 22.95 CFM (0.65 m³/min)
Max. Static Pressure: 5.4 mmH₂O (52.9 Pa / 0.21 inH₂O)
Bearing Type: Dual Ball Bearing
Dimensions: 60x60x25mm
Noise Level: 34 dB(A)
Termination: 3-Wire (Lead Wire)
Sensor Type: Pulse Sensor (Tachometer)
Frame Material: Plastic (UL94V-0)
Impeller Material: Plastic (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -30°C to +70°C
Life Expectancy: 40,000 Hours (at 60°C) / 60,000 Hours (at 40°C)
Protection: Locked Rotor Protection, Reverse Polarity
Weight: 90 g

The 109R0612D401 is engineered for high-reliability applications where consistent airflow is paramount to preventing thermal throttling. Common deployment scenarios include server rack cooling modules, telecommunications switching equipment, and industrial power supply units. The 109R0612D401 is also frequently utilized in medical instrumentation and CNC control cabinets, where its compact 60mm footprint allows for integration into space-constrained enclosures without compromising thermal efficiency. Its tachometer output ensures seamless integration with intelligent fan controllers in automated manufacturing environments.

Supplemental Images

