

4710KL-05W-B59-E50 NMB 24VDC 119x119x25mm 3-Wire Axial Fan Datasheet



Brand: NMB

SKU: [695480968894](#)

Category: Axial & Centrifugal Fans

Price: **\$32.99**

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Product Description

The NMB 4710KL-05W-B59-E50 is a precision-engineered DC Axial Fan designed for critical thermal management applications requiring high reliability and consistent airflow. Manufactured by MinebeaMitsumi, this unit features a robust dual ball bearing architecture that ensures long-term operational stability and significantly reduced frictional coefficients compared to sleeve bearing alternatives. The aerodynamic impeller design optimizes airflow while maintaining structural rigidity under high-speed rotation, effectively lowering thermal impedance in dense electronic enclosures. With a 3-wire configuration supporting signal output for speed monitoring, this cooling solution balances high static pressure with durable performance, making it suitable for continuous duty cycles in demanding industrial environments.

Model Number: 4710KL-05W-B59-E50

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 24 VDC

Voltage Range: 10.0 - 27.6 VDC

Rated Current: 0.38 A

Input Power: 9.12 W

Rated Speed: 3100 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 114.7 CFM (194.8 m³/h / 3.25 m³/min)

Max. Static Pressure: 8.15 mmH₂O (80 Pa / 0.32 inH₂O)

Dimensions: 119 x 119 x 25 mm

Weight: 180 g

Life Expectancy: 100,000 Hours at 25°C

Noise Level: 47.0 dB(A)

Termination: 3-Wire Leads (with Sensor Signal)

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Protection: Locked Rotor Protection, Polarity Protection

Insulation Resistance: 10M Ohm Min. at 500 VDC

Dielectric Strength: 700 VAC for 1 Minute

This cooling unit is engineered for high-reliability environments such as telecommunications base stations, server rack cooling systems, and industrial automation control panels. The 4710KL-05W-B59-E50 provides consistent airflow required to dissipate heat from power supplies and sensitive PCBs, ensuring optimal operating temperatures. Integrators frequently utilize the 4710KL-05W-B59-E50 in medical instrumentation and CNC machinery where sustained thermal regulation and speed monitoring are paramount for component longevity and system safety.

Supplemental Images

