

# 1204KL-04W-B59 NMB-MAT 12VDC 30x30x10mm DC Axial Fan Datasheet



**Brand:** NMB

**SKU:** [979367123391](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$14.99**

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**E-mail:** [sales@equipspares.com](mailto:sales@equipspares.com)

**Web:** <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/1204kl-04w-b59-nmb-mat-12vdc-30x30x10mm-dc-axial-fan>

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## Product Description

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The NMB-MAT 1204KL-04W-B59 is a precision-engineered DC axial fan designed for high-density thermal management applications requiring exceptional reliability. Utilizing advanced MinebeaMitsumi motor technology, this unit features a robust Double Ball Bearing architecture that significantly reduces the friction coefficient and enhances rotational stability under continuous load. The aerodynamic impeller design optimizes static pressure delivery while maintaining a compact footprint, making it ideal for overcoming high thermal impedance in restricted enclosures. Constructed with UL94V-0 rated reinforced plastic, the fan ensures structural rigidity and operational longevity in demanding industrial environments, specifically tailored for inverter cooling solutions and precision electronics.

Model Number: 1204KL-04W-B59

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 6.0 - 13.8 VDC

Rated Current: 0.12 A

Power Consumption: 1.44 W

Rated Speed: 10500 RPM

Bearing Type: Double Ball Bearing

Max. Air Flow: 4.6 CFM (7.8 m<sup>3</sup>/h / 0.13 m<sup>3</sup>/min)

Max. Static Pressure: 5.4 mmH<sub>2</sub>O (53 Pa / 0.21 inH<sub>2</sub>O)

Dimensions: 30x30x10mm

Weight: 8.5 g

Life Expectancy: 60,000 Hours at 25°C

Noise Level: 34.0 dB(A)

Termination: 3-Wire (Lead Wire)

Speed Control: Tachometer Output (Speed Sensor)

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Insulation Resistance: 10M Omega Min. at 500 VDC

Dielectric Strength: 700 VAC for 1 Minute

Protection: Locked Rotor Protection, Polarity Protection

Mounting Orientation: Any

The 1204KL-04W-B59 is frequently deployed in mission-critical industrial automation equipment, serving as a primary cooling component for Yaskawa variable frequency drives and inverters. Its compact form factor allows for seamless integration into high-density server racks, telecommunications modules, and precision medical instrumentation where space is at a premium. Additionally, the 1204KL-04W-B59 is utilized in CNC control systems and compact power supply units, ensuring optimal thermal regulation for sensitive electronic components.

## Supplemental Images

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