

406KL-05W-B59-BQ4 NMB-MAT 24VDC 60mm Inverter Axial Fan Datasheet



Brand: NMB

SKU: [757218284637](#)

Category: Axial & Centrifugal Fans

Price: **\$13.99**

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Product Description

The NMB-MAT 406KL-05W-B59-BQ4 is a precision-engineered axial fan designed for high-reliability industrial thermal management, specifically tailored for inverter and CNC applications. Utilizing advanced DC brushless motor technology and a robust dual ball bearing architecture, this unit ensures minimal friction and extended operational service life under continuous loads. The aerodynamic impeller design optimizes the balance between static pressure and airflow, effectively reducing thermal impedance in densely packed electronic enclosures. Constructed with high-grade flame-retardant materials, the fan maintains structural rigidity and dimensional stability across fluctuating temperature gradients, ensuring consistent performance in harsh automation environments.

Model Number: 406KL-05W-B59-BQ4

Brand: NMB-MAT

Product Type: Axial Fan

Series: 2406KL (Equivalent)

Rated Voltage: 24 VDC

Voltage Range: 10.0 - 27.6 VDC

Rated Current: 0.13 A

Power Input: 3.12 W

Rated Speed: 4600 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 18.3 CFM (31.1 m³/h / 0.52 m³/min)

Max. Static Pressure: 5.6 mmH₂O (54.9 Pa / 0.22 inH₂O)

Dimensions: 60 x 60 x 15 mm

Weight: 45 g

Life Expectancy: 60000 Hours @ 40°C

Noise Level: 34.0 dB(A)

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Termination: 3-Wire with Fanuc Connector

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP40

Speed Control: Tachometer Output

Motor Protection: Locked Rotor Protection, Polarity Protection

This cooling solution is specifically engineered for industrial automation environments, serving as a critical component in Fanuc inverter systems and CNC machinery control units. The 406KL-05W-B59-BQ4 provides consistent thermal regulation for variable frequency drives, preventing overheating in servo amplifiers and power supply modules. Maintenance professionals frequently deploy the 406KL-05W-B59-BQ4 in server racks, telecommunications cabinets, and precision instrumentation where reliable heat dissipation is mandatory for system uptime.

Supplemental Images

