

3110RL-05W-B50-C02 NMB 24VDC 80x80x25mm Cooling Axial Fan Datasheet



Brand: NMB

SKU: [947305814773](#)

Category: Axial & Centrifugal Fans

Price: **\$17.99**

E-mail: sales@equipspares.com

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Product Page:

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Product Description

The NMB 3110RL-05W-B50-C02 is a precision-engineered DC Axial Fan designed for critical thermal management in industrial electronics. Manufactured by MinebeaMitsumi (NMB-MAT), this unit integrates a robust dual ball bearing architecture that significantly reduces frictional coefficients and enhances rotational stability over extended operational lifecycles. The aerodynamic impeller design optimizes airflow dynamics to lower thermal impedance within high-density enclosures. Constructed with a reinforced UL94V-0 plastic frame, the fan ensures structural rigidity while maintaining a lightweight profile. Its 24VDC drive system delivers consistent torque, making it an ideal solution for applications requiring reliable forced convection cooling.

Model Number: 3110RL-05W-B50-C02

Brand: NMB (NMB-MAT)

Product Type: DC Axial Fan

Rated Voltage: 24 VDC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 0.18 A

Power Input: 4.32 W

Rated Speed: 3250 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 38.8 CFM (66.0 m³/h / 1.10 m³/min)

Max. Static Pressure: 3.8 mmH₂O (37.2 Pa / 0.15 inH₂O)

Dimensions: 80 x 80 x 25 mm

Weight: 95 g

Life Expectancy: 100,000 Hours at 25°C

Noise Level: 34.0 dB(A)

Housing Material: Plastic (UL94V-0)

Impeller Material: Plastic (UL94V-0)

Termination: 2-Wire Leads

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP20

Insulation Resistance: 10M Ohm at 500VDC

Dielectric Strength: 700VAC for 1 Second

Motor Protection: Locked Rotor Protection, Polarity Protection

The 3110RL-05W-B50-C02 is engineered for deployment in demanding industrial environments, specifically serving as an OEM replacement for variable frequency drive (VFD) inverters and power supply units. Its compact 80mm form factor allows for seamless integration into server racks, telecommunications cabinets, and CNC control panels where space is constrained. The 3110RL-05W-B50-C02 provides sustained airflow to dissipate heat from sensitive semiconductors, ensuring system reliability in automation equipment and medical instrumentation.

Supplemental Images

