

3110SB-05W-S59-C01 NMB 24VDC 0.12A 80x80x25mm Axial Fan Datasheet



Brand: NMB

SKU: [1027230131985](#)

Category: Axial & Centrifugal Fans

Price: **\$19.99**

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/3110sb-05w-s59-c01-nmb-24vdc-0-12a-80x80x25mm-axial-fan>

Product Description

NMB 3110SB-05W-S59-C01 is a 24VDC 80x80x25mm Axial Fan optimized for sustained thermal dissipation in high-impedance enclosures. The hydraulic bearing's sealed lubricant film prevents grease migration under 24/7 thermal stress, ensuring rotational stability even as internal temperatures fluctuate. By maintaining a consistent 3400RPM, this unit generates 38.1CFM of airflow to counteract localized hotspots. Integrated 3-wire tachometer signaling allows for real-time monitoring of the 0.12A motor, preventing system-wide failure if rotational speeds deviate. This 80x80x25mm 24VDC Axial Fan utilizes a precision-molded impeller to achieve 39.2Pa of static pressure, effectively forcing air through dense component arrays. The Hydraulic Bearing Axial Fan architecture minimizes mechanical friction, extending the operational lifespan to 70,000 hours in demanding environments.

Model Number: 3110SB-05W-S59-C01

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: Axial Fan

Rated Voltage: 24VDC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 0.12A

Power: 2.88W

Rated Speed: 3400 RPM

Bearing Type: Hydraulic Bearing

Max. Air Flow: 38.1 CFM (1.08 m³/min)

Max. Static Pressure: 39.2 Pa (0.15 inH₂O)

Dimensions: 80x80x25mm

Weight: 80g

Life Expectancy: 70,000 Hours (L10 at 25°C)

Noise Level: 32.0 dB

Speed Control: Tachometer (Frequency Generator)

Termination: 3-Lead Wires (Red/Black/White)

Housing Material: Plastic (Black) UL94V-0

Impeller Material: Plastic (Black) UL94V-0

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Insulation Resistance: 10M Ohm min. at 500VDC

Protection Features: Auto Restart, Polarity Protection

Applications & Industry Use Cases

1. VFD Control Cabinets: High static pressure overcomes filter resistance to prevent IGBT heat soak.
2. Industrial PLCs: Compact 80mm profile provides targeted cooling for logic controllers and I/O modules.
3. 2U Rackmount Chassis: Low-profile dimensions facilitate laminar airflow across densely packed server motherboards.
4. Telecom Edge Routing: Tachometer output enables remote monitoring in unmanned outdoor network enclosures.
5. Replacement Fan Intent: Drop-in 24VDC solution for aging NMB 3110SB series in CNC machinery.
6. Medical Imaging Equipment: Stable hydraulic rotation minimizes resonance in sensitive diagnostic hardware.

Supplemental Images

