

08025DE-12N-CLD-1 NMB 12VDC 80x80x25mm Waterproof Axial Fan Datasheet



Brand: NMB

SKU: [924206404875](#)

Category: Axial & Centrifugal Fans

Price: **\$20.99**

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Product Description

The NMB 08025DE-12N-CLD-1 is a precision-engineered Axial Fan designed for demanding thermal management applications requiring robust environmental protection. Utilizing NMB's proprietary MinebeaMitsumi dual ball bearing architecture, this unit ensures exceptional rotational stability and longevity, significantly reducing friction coefficients compared to standard sleeve bearing alternatives. The 12VDC motor integrates advanced commutation circuitry to optimize torque delivery while maintaining a low acoustic profile. Constructed with a reinforced thermoplastic housing, the fan features a specialized waterproof design, making it suitable for high-humidity environments or industrial enclosures where ingress protection is critical. The aerodynamic impeller geometry is optimized to balance static pressure and airflow, minimizing thermal impedance in dense electronic assemblies.

Model Number: 08025DE-12N-CLD-1

Brand: NMB (MinebeaMitsumi)

Product Type: Axial Fan

Rated Voltage: 12VDC

Operating Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.25 A

Input Power: 3.00 W

Rated Speed: 3400 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 42.0 CFM (71.3 m³/h / 1.19 m³/min)
Max. Static Pressure: 4.5 mmH₂O (44.1 Pa / 0.18 inH₂O)
Dimensions: 80x80x25mm
Weight: 95 g
Life Expectancy: 60,000 Hours at 40°C
Termination: 3-Wire Lead
Wire Function: Red (+), Black (-), White/Yellow (Tach/Sensor)
Housing Material: PBT (UL94V-0)
Impeller Material: PBT (UL94V-0)
Ingress Protection: Waterproof Design
Noise Level: 34.0 dBA
Direction of Rotation: Clockwise
Mounting: Flange Mount
Operating Temperature: -10°C to +70°C

The 08025DE-12N-CLD-1 is engineered for critical cooling tasks in environments where reliability and moisture resistance are paramount. Common deployment scenarios include industrial automation control cabinets, outdoor telecommunications equipment, and ruggedized server racks where consistent airflow is necessary to prevent thermal throttling. The waterproof characteristics of the 08025DE-12N-CLD-1 also make it an ideal solution for medical instrumentation and CNC machinery exposed to harsh operating conditions, ensuring sustained component longevity and system stability.

Supplemental Images

