

5920PL-05W-B70-D00 NMB-MAT 24VDC 172x150x51mm Axial Fan Datasheet



Brand: NMB

SKU: 1010803940534

Category: Axial & Centrifugal Fans

Price: \$95.99

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Product Page:

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Product Description

The NMB-MAT 5920PL-05W-B70-D00 is a high-performance DC Axial Fan engineered for rigorous industrial environments requiring superior thermal management and structural rigidity. Utilizing MinebeaMitsumi's advanced dual ball bearing architecture, this unit is designed to minimize frictional coefficients and ensure extended operational longevity under continuous high-load conditions. The aerodynamic impeller geometry is optimized to deliver high-volume airflow while maintaining static pressure stability, effectively reducing thermal impedance within dense electronic enclosures. Housed in a robust aluminum die-cast frame, the 5920PL-05W-B70-D00 offers exceptional durability and vibration resistance, making it a critical component for systems where reliability and efficient heat dissipation are paramount.

Model Number: 5920PL-05W-B70-D00

Brand: NMB-MAT (MinebeaMitsumi)

Product Type: DC Axial Fan

Rated Voltage: 24VDC

Voltage Range: 12.0 - 27.6 VDC

Rated Current: 1.25 A

Power Input: 30.0 W

Rated Speed: 3350 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 265 CFM (7.5 m³/min)
Max. Static Pressure: 18.5 mmH₂O (181 Pa / 0.73 inH₂O)
Dimensions: 172mm x 150mm x 51mm
Weight: 850 g
Life Expectancy: 100,000 Hours at 25°C
Noise Level: 63.0 dB(A)
Frame Material: Aluminum Die-Cast
Impeller Material: Plastic (UL94V-0)
Ingress Protection: IP20 (Standard)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Termination: 3-Wire Lead (Red +, Black -, White Sensor)
Sensor Type: Tachometer / Locked Rotor Signal (D00)
Safety Certifications: UL, CSA, TUV, CE
Mounting Orientation: Any

Designed for mission-critical applications, the 5920PL-05W-B70-D00 is widely deployed in high-density server racks, telecommunications infrastructure, and industrial automation cabinets where sustained cooling is essential. Its high-static pressure capabilities make it particularly effective for forcing air through restrictive filters and heat sinks in CNC machinery and medical instrumentation. The 5920PL-05W-B70-D00 ensures optimal operating temperatures for sensitive power electronics and rectifiers, preventing thermal throttling and extending the lifespan of integrated hardware components.

Supplemental Images

