

1511FB-04W-B59-BB1 NMB 12VDC 38x38x28mm 3-Wire Axial Fan Datasheet



Brand: NMB

SKU: [672383943121](#)

Category: Axial & Centrifugal Fans

Price: **\$16.99**

E-mail: sales@equipspares.com

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

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Product Description

The NMB 1511FB-04W-B59-BB1 is a precision-engineered DC axial fan designed for high-density electronic cooling applications requiring superior static pressure and airflow throughput. Built upon NMB-MAT's advanced motor technology, this unit features a robust dual ball bearing system that significantly enhances rotational stability and operational longevity under continuous load. The aerodynamic impeller geometry is optimized to minimize turbulence while maximizing air delivery, effectively reducing thermal impedance in compact enclosures. With a compact 38mm form factor and high-speed operation, the 1511FB-04W-B59-BB1 ensures reliable thermal management for critical components, maintaining structural rigidity and performance consistency in demanding industrial and server environments.

Model Number: 1511FB-04W-B59-BB1

Brand: NMB-MAT (Minebea)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.46 A

Input Power: 5.52 W

Rated Speed: 16000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 23.5 CFM (39.9 m³/h / 0.66 m³/min)

Max. Static Pressure: 29.4 mmH₂O (288.3 Pa / 1.16 inH₂O)

Dimensions: 38 x 38 x 28 mm

Weight: 48 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: Tachometer Sensor (3-Wire)

Noise Level: 54.5 dB(A)

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP40

Termination: 3-Wire Lead (Red +, Black -, White/Yellow Signal)

Mounting Orientation: Any

Certifications: UL, CSA, TUV, VDE

The 1511FB-04W-B59-BB1 is engineered for deployment in space-constrained, high-heat environments such as 1U server racks, telecommunications switching equipment, and compact power supply units. Its high static pressure capabilities make the 1511FB-04W-B59-BB1 ideal for forcing air through dense heatsinks and restricted chassis in industrial automation systems and precision medical instrumentation.

Supplemental Images

