

YY4015M24B SNOWFAN 24VDC 40x40x15mm 4-Wire Axial Fan Datasheet



Brand: SNOWFAN

SKU: [944926538394](#)

Category: Axial & Centrifugal Fans

Price: **\$12.99**

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Product Page:

<https://www.equipspares.com/product/yy4015m24b-snowfan-24vdc-40x40x15mm-4-wire-axial-fan>

Product Description

SNOWFAN YY4015M24B is a 24VDC 40x40x15mm Axial Fan optimized for high-density thermal management in space-constrained industrial enclosures. This unit features a brushless DC motor integrated with a dual ball bearing architecture, ensuring extended MTBF and superior structural rigidity under continuous operation. The 4-wire configuration supports precise PWM speed control and tachometer feedback, allowing for dynamic cooling adjustments to minimize thermal impedance. With a rated current of 0.12A and high-RPM capability, it generates the necessary static pressure to overcome internal resistance in compact chassis. The aerodynamic PBT impeller is designed to maximize laminar flow while maintaining low vibration levels for sensitive electronic components.

Model Number: YY4015M24B

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Product Type: Axial Fan

Rated Voltage: 24VDC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 0.12A

Power: 2.88W

Rated Speed: 7500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 9.8 CFM (16.6 m³/h / 0.28 m³/min)

Max. Static Pressure: 7.21 mmH₂O (70.7 Pa / 0.28 inH₂O)

Dimensions: 40x40x15mm

Weight: 26g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM Control and Tachometer Signal

Housing Material: Thermoplastic PBT (UL94V-0)

Blade Material: Thermoplastic PBT (UL94V-0)

Insulation Class: Class A

Noise Level: 34.5 dB(A)

Termination: 4-Lead Wires

Operating Temperature: -10°C to +70°C

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

YY4015M24B Applications & Industry Use Cases

1. 1U Network Switches: The 15mm depth and high static pressure profile allow for efficient heat extraction across densely packed PCBs where standard 10mm fans fail to overcome system impedance.
2. Industrial VFD Control Cabinets: Dual ball bearings provide the mechanical longevity and orientation-independent mounting required for 24VDC vertical rail installations.
3. 3D Printer Hotend Cooling: The 4-wire PWM interface enables precise thermal regulation, serving as a high-reliability replacement fan for high-temperature extrusion environments requiring low-vibration performance.

Supplemental Images

