

DATA1551B8M-P002 AVC 48VDC 172x150x51mm Aluminum Axial Fan Datasheet



Brand: AVC

SKU: [949383324364](#)

Category: Axial & Centrifugal Fans

Price: **\$25.99**

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Product Page:

<https://www.equipspares.com/product/data1551b8m-p002-avc-48vdc-172x150x51mm-aluminum-axial-fan>

Product Description

The AVC DATA1551B8M-P002 is a high-reliability DC axial fan engineered for rigorous industrial thermal management applications. Constructed with a die-cast aluminum frame and reinforced thermoplastic impeller, this unit offers superior structural rigidity and resistance to thermal deformation. The advanced aerodynamic design, coupled with a precision dual ball bearing architecture, ensures optimal airflow delivery while minimizing mechanical friction and thermal impedance. Operating at 48VDC, this cooling solution integrates a 4-wire interface for precise speed control and tachometer feedback, making it essential for critical systems requiring consistent performance and extended operational lifespans in demanding environments.

Model Number: DATA1551B8M-P002

Brand: AVC

Product Type: DC Axial Fan

Rated Voltage: 48VDC

Voltage Range: 28.0 - 56.0 VDC

Rated Current: 0.98 A

Power: 47.04 W

Rated Speed: 3800 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 235.0 CFM (399.2 m³/h / 6.65 m³/min)

Max. Static Pressure: 21.5 mmH₂O (210.8 Pa / 0.85 inH₂O)

Dimensions: 172mm x 150mm x 51mm

Weight: 820 g

Life Expectancy: 70,000 Hours at 40°C

Frame Material: Die-Cast Aluminum

Blade Material: Thermoplastic PBT (UL94V-0)

Termination: 4-Wire Leads (Red +, Black -, Yellow FG, Blue PWM)

Ingress Protection: IP55

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Noise Level: 58.0 dBA

Insulation Class: Class B

Safety Protection: Locked Rotor, Reverse Polarity, Auto-Restart

The DATA1551B8M-P002 is specifically designed for high-impedance applications such as telecommunications base stations, server racks, and industrial power inverters where consistent static pressure is required. Engineers frequently specify the DATA1551B8M-P002 for CNC machinery control cabinets and medical imaging equipment to maintain safe operating temperatures for sensitive electronics. Its robust aluminum construction also makes it ideal for ventilation in automation drive systems and rectifier units exposed to elevated ambient temperatures.

Supplemental Images

