

W1G180-AB47-08 ebm-papst 48VDC 180mm EC Motor Axial Fan Datasheet



Brand: ebmpapst

SKU: [901558127827](#)

Category: Axial & Centrifugal Fans

Price: **\$127.99**

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Product Page:

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Product Description

The ebm-papst W1G180-AB47-08 is a high-efficiency EC axial fan designed for demanding industrial thermal management applications. Featuring advanced Electronically Commutated (EC) motor technology, this unit delivers superior aerodynamic performance while maintaining low power consumption compared to traditional AC counterparts. The robust construction incorporates a precision ball bearing system, ensuring exceptional longevity and structural rigidity even under continuous operation. Its optimized impeller geometry minimizes turbulence and noise generation, while the integrated electronics provide precise speed control via a 4-wire interface. This fan is engineered to withstand rigorous environmental conditions, offering reliable heat dissipation for critical electronic systems.

Model Number: W1G180-AB47-08

Brand: ebm-papst

Product Type: EC Axial Fan

Rated Voltage: 48VDC

Voltage Range: 36.0 - 72.0 VDC

Rated Current: 2.27 A

Power Consumption: 95 W

Rated Speed: 3100 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 335.5 CFM (570 m³/h / 9.5 m³/min)
Max. Static Pressure: 1.04 inH₂O (260 Pa / 26.5 mmH₂O)
Impeller Diameter: 180mm
Dimensions: 200mm x 200mm x 65mm (Housing)
Weight: 1.8 kg
Life Expectancy: 50,000 Hours @ 40°C
Motor Technology: EC (Electronically Commutated)
Speed Control: 0-10 VDC / PWM Control
Signal Output: Tachometer Output
Ingress Protection: IP20
Insulation Class: Class B
Noise Level: 64 dB(A)
Housing Material: Die-Cast Aluminum
Impeller Material: PA Plastic (UL94V-0)
Operating Temperature: -25°C to +60°C
Storage Temperature: -40°C to +80°C
Number of Wires: 4 Leads
Protection Features: Reverse Polarity, Locked Rotor Protection, Soft Start
Rotation Direction: Counter-Clockwise (viewed toward rotor)

The W1G180-AB47-08 is frequently utilized in telecommunications infrastructure, such as base station cooling and server cabinet ventilation, where reliability and efficiency are paramount. Additionally, this unit serves as a critical component in industrial automation equipment and variable frequency drive (VFD) cooling systems. The W1G180-AB47-08 ensures optimal operating temperatures for sensitive electronics, preventing thermal throttling and extending the lifespan of high-density power supplies and medical diagnostic devices.

Supplemental Images

