

MGT12048YB-W32 MAGIC 48VDC 120x120x32mm PWM Axial Fan Datasheet



Brand: Protechnic

SKU: 968008800804

Category: Axial & Centrifugal Fans

Price: \$9.99

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Product Page:

<https://www.equipspares.com/product/mgt12048yb-w32-magic-48vdc-120x120x32mm-pwm-axial-fan>

Product Description

The MAGIC MGT12048YB-W32 is a precision-engineered Axial Fan designed for high-reliability industrial thermal management. Utilizing advanced DC motor technology and a durable double ball bearing architecture, this unit ensures minimal friction and extended operational lifespan under continuous load. The aerodynamic impeller design optimizes static pressure capabilities while maintaining low acoustic signatures, effectively reducing thermal impedance in dense electronic enclosures. Constructed with structural rigidity in mind, the MGT12048YB-W32 integrates 4-wire PWM speed control, allowing for dynamic RPM modulation based on real-time thermal requirements, ensuring optimal cooling efficiency and energy conservation in critical systems.

Model Number: MGT12048YB-W32

Brand: MAGIC (Protechnic Electric)

Product Type: DC Axial Fan

Rated Voltage: 48 VDC

Voltage Range: 36.0 - 56.0 VDC

Rated Current: 0.22 A

Power Consumption: 10.56 W

Rated Speed: 2900 RPM

Bearing Type: Double Ball Bearing

Max. Air Flow: 108.5 CFM (184.3 m³/h / 3.07 m³/min)

Max. Static Pressure: 11.5 mmH₂O (112.7 Pa / 0.45 inH₂O)

Dimensions: 120 x 120 x 32 mm

Weight: 265 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Wire Lead (Red +, Black -, Yellow Tach, Blue PWM)

Housing Material: PBT Plastic (UL94V-0)

Blade Material: PBT Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Noise Level: 46.0 dB(A)

Ingress Protection: IP54 (Standard Industrial)

Mounting Orientation: Any

Designed for demanding environments, the MGT12048YB-W32 is frequently deployed in telecommunications infrastructure and high-density server racks where consistent airflow is paramount. Its robust 48VDC architecture makes it ideal for power supply units and industrial automation equipment requiring efficient heat dissipation. The MGT12048YB-W32 also serves critical roles in medical instrumentation and CNC machinery, providing reliable cooling to prevent thermal throttling in sensitive electronic components.

Supplemental Images

