

MGT4012YR-W20 MAGIC 12VDC 40x40x20mm Inverter Cooling Axial Fan Datasheet



Brand: Protechnic

SKU: [802568900559](#)

Category: Axial & Centrifugal Fans

Price: **\$14.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/mgt4012yr-w20-magic-12vdc-40x40x20mm-inverter-cooling-axial-fan>

Product Description

The MAGIC MGT4012YR-W20 is a high-efficiency DC axial fan engineered for precision thermal management in compact industrial enclosures. Featuring advanced DC brushless motor technology, this unit delivers consistent airflow while minimizing power consumption and electromagnetic interference. The fan utilizes a specialized hydraulic rifle bearing system, which significantly reduces friction and enhances structural rigidity compared to standard sleeve bearings. Its aerodynamic impeller design is optimized to overcome high thermal impedance in dense electronic assemblies, such as variable frequency drives and power supplies. Built with robust thermoplastic housing, the MGT4012YR-W20 ensures reliable operation and mechanical stability in demanding operational environments.

Model Number: MGT4012YR-W20

Brand: MAGIC (Protechnic Electric)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.18 A

Power Consumption: 2.16 W

Rated Speed: 7200 RPM
Bearing Type: Hydraulic Rifle Bearing
Max. Air Flow: 9.2 CFM (15.6 m³/h / 0.26 m³/min)
Max. Static Pressure: 7.2 mmH₂O (70.6 Pa / 0.28 inH₂O)
Dimensions: 40 x 40 x 20 mm
Weight: 28 g
Noise Level: 31.5 dB(A)
Frame Material: Glass Fiber Reinforced PBT (UL94V-0)
Impeller Material: Glass Fiber Reinforced PBT (UL94V-0)
Insulation Class: Class A
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Termination: 2-Wire Lead (Red +, Black -)
Ingress Protection: IP40
Life Expectancy: 40,000 Hours at 40°C
Safety Certifications: CE, UL, TUV

Designed for critical cooling tasks, the MGT4012YR-W20 is extensively deployed in variable frequency drives (VFDs) and industrial inverters where heat dissipation is paramount for system reliability. Its compact footprint makes it an ideal solution for 1U server racks, network switches, and small form-factor chassis cooling. Furthermore, the MGT4012YR-W20 serves as a vital component in medical diagnostic equipment and CNC control panels, providing continuous airflow to prevent thermal throttling in sensitive electronic components.

Supplemental Images

