

MGA4012UB-O20 Magic 12VDC 40x40x20mm Axial Cooling Fan Datasheet



Brand: Protechnic

SKU: [805560159785](#)

Category: Axial & Centrifugal Fans

Price: **\$14.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/mga4012ub-o20-magic-12vdc-40x40x20mm-axial-cooling-fan>

Product Description

The Magic MGA4012UB-O20 is a precision-engineered DC axial fan designed for high-density thermal management applications. Utilizing advanced DC brushless motor technology and a robust ball bearing architecture, this unit ensures minimal thermal impedance and extended operational longevity under continuous load. The aerodynamic impeller design optimizes static pressure delivery while maintaining structural rigidity, making it an ideal solution for compact electronic enclosures requiring efficient heat dissipation.

Model Number: MGA4012UB-O20

Brand: Magic (Magic Technology)

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.30 A

Power Consumption: 3.60 W

Rated Speed: 9500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 13.0 CFM (22.1 m³/h / 0.37 m³/min)

Max. Static Pressure: 10.67 mmH₂O (104.6 Pa / 0.42 inH₂O)

Dimensions: 40x40x20mm

Weight: 45 g

Noise Level: 38.0 dB(A)

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Life Expectancy: 70,000 Hours at 40°C

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Termination: 2-Wire Lead (Red +, Black -)

Motor Protection: Impedance Protected, Reverse Polarity Protection

Insulation Resistance: >10M Ohm at 500VDC

Dielectric Strength: 500VAC for 1 Minute

The MGA4012UB-O20 is specifically engineered for demanding industrial and consumer electronics environments, including high-fidelity audio amplifiers, rack-mounted server units, and compact telecommunications equipment. Its compact form factor allows for seamless integration into 1U chassis and network switches where space is at a premium but airflow cannot be compromised. By delivering consistent static pressure, the MGA4012UB-O20 effectively manages thermal loads in CNC control modules and medical instrumentation, ensuring component stability and system reliability.

Supplemental Images

