

MGA4012ZB-O28 MAGIC 12VDC 40x40x28mm 0.40A Axial Fan Datasheet



Brand: Protechnic

SKU: 802473217192

Category: Axial & Centrifugal Fans

Price: \$11.99

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Product Page:

<https://www.equipspares.com/product/mga4012zb-o28-magic-12vdc-40x40x28mm-0-40a-axial-fan>

Product Description

The MAGIC MGA4012ZB-O28 is a high-density axial fan engineered for rigorous thermal management in compact electronic assemblies. Featuring a robust DC brushless motor and precision dual ball bearing architecture, this unit is designed to deliver exceptional static pressure and airflow throughput, minimizing thermal impedance in restrictive environments. The reinforced thermoplastic frame ensures structural rigidity under high rotational speeds, while the aerodynamic impeller geometry optimizes air delivery efficiency. This component provides reliable forced convection cooling for critical industrial hardware, ensuring long-term operational stability and reduced maintenance requirements in continuous-duty cycles.

Model Number: MGA4012ZB-O28

Brand: MAGIC (Yongli)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.40 A

Power Consumption: 4.80 W

Rated Speed: 13000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 24.5 CFM (41.6 m³/h / 0.69 m³/min)

Max. Static Pressure: 0.88 inH₂O (22.4 mmH₂O / 219 Pa)

Dimensions: 40 x 40 x 28 mm

Weight: 45 g

Frame Material: PBT Thermoplastic (UL94V-0)

Impeller Material: PBT Thermoplastic (UL94V-0)

Life Expectancy: 70,000 Hours at 40°C

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Noise Level: 52.0 dB-A

Termination: Lead Wires (UL1007 AWG26)

Ingress Protection: IP20

Motor Protection: Locked Rotor Protection, Reverse Polarity Protection

The MGA4012ZB-O28 is specifically configured for high-demand applications such as power inverters and variable frequency drives, where consistent heat dissipation is paramount. Its high static pressure capabilities make the MGA4012ZB-O28 an excellent choice for compact server racks, telecom switching equipment, and CNC machinery control panels. The robust design ensures it withstands the thermal stress of industrial environments, providing essential airflow to prevent component throttling in dense electronic enclosures.

Supplemental Images

