

MGA4012YB-O20 Protechnic 12VDC 40x40x20mm Axial Fan Datasheet



Brand: Protechnic

SKU: 802505313522

Category: Axial & Centrifugal Fans

Price: \$14.99

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/mga4012yb-o20-protechnic-12vdc-40x40x20mm-axial-fan>

Product Description

The Protechnic MGA4012YB-O20 is a high-reliability DC Axial Fan engineered for critical thermal management in industrial inverters and compact electronic assemblies. This unit utilizes advanced Brushless DC (BLDC) motor technology paired with a precision-balanced impeller to minimize vibration and enhance structural rigidity. The aerodynamic design optimizes the pressure-to-airflow ratio, ensuring efficient heat dissipation even in high-impedance environments. Featuring a robust Dual Ball Bearing architecture, the fan offers superior longevity and stable operation under continuous load, significantly reducing maintenance requirements for mission-critical hardware.

Model Number: MGA4012YB-O20

Brand: Protechnic (Magic)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.18 A

Power: 2.16 W

Rated Speed: 8500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 9.2 CFM (15.6 m³/h / 0.26 m³/min)

Max. Static Pressure: 0.26 inH₂O (6.60 mmH₂O / 64.7 Pa)

Dimensions: 40 x 40 x 20 mm

Weight: 26 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 31.5 dB(A)

Frame Material: PBT Thermoplastic (UL94V-0)

Blade Material: PBT Thermoplastic (UL94V-0)

Ingress Protection: IP4X

Insulation Class: Class A

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Termination: 2-Wire / 3-Wire Lead with Connector

Mounting Orientation: Any

Motor Protection: Impedance Protected, Reverse Polarity Protection

The MGA4012YB-O20 is frequently deployed in power conversion systems, specifically serving as a primary cooling solution for industrial inverters and variable frequency drives where compact size and high static pressure are essential. Its 40mm form factor allows for seamless integration into 1U server racks, network switches, and embedded automation controllers. Engineers rely on the MGA4012YB-O20 for its durability in 24/7 operating cycles, ensuring that sensitive semiconductor components remain within safe thermal limits during peak loads.

Supplemental Images

