

MGT4012XB-O20 Protechnic 12VDC 40x40x10mm Axial Fan Datasheet



Brand: Protechnic

SKU: 802281247363

Category: Axial & Centrifugal Fans

Price: \$14.99

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/mgt4012xb-o20-protechnic-12vdc-40x40x10mm-axial-fan>

Product Description

The Protechnic MGT4012XB-O20 is a precision-engineered DC Axial Fan designed for high-density thermal management in server and industrial electronics. Utilizing advanced aerodynamic impeller geometry and a robust Dual Ball Bearing architecture, this unit minimizes thermal impedance while maintaining exceptional structural rigidity under continuous load. The motor assembly features high-torque stator windings optimized for 12VDC operation, ensuring stable rotational velocities and efficient heat dissipation. Engineered for reliability, the fan incorporates UL94V-0 rated thermoplastic housing to withstand elevated operating temperatures, making it a critical component for systems requiring consistent airflow and long-term durability.

Model Number: MGT4012XB-O20

Brand: Protechnic Electric

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.15 A

Power Consumption: 1.80 W

Rated Speed: 6500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 7.20 CFM (12.23 m³/h / 0.20 m³/min)

Max. Static Pressure: 3.56 mmH₂O (34.88 Pa / 0.14 inH₂O)

Dimensions: 40x40x10mm

Weight: 18.0 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 28.0 dB(A)

Housing Material: Glass Fiber Reinforced PBT (UL94V-0)

Impeller Material: Glass Fiber Reinforced PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

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

Ingress Protection: IP40

Certifications: CE, UL, TUV, RoHS

The MGT4012XB-O20 is specifically calibrated for compact industrial and IT infrastructure applications, including 1U server racks, network switches, and RAID storage arrays. Its low-profile 10mm thickness allows for seamless integration into space-constrained enclosures where airflow channels are narrow. Beyond IT hardware, the MGT4012XB-O20 is frequently deployed in medical instrumentation and embedded industrial automation controllers, providing necessary active cooling to prevent component throttling and ensure system stability.

Supplemental Images

