

MGA4018YB-A20 Protechnic 12VDC 40x40x20mm Axial Fan Datasheet



Brand: Protechnic

SKU: [805447580156](#)

Category: Axial & Centrifugal Fans

Price: **\$14.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/mga4018yb-a20-protechnic-12vdc-40x40x20mm-axial-fan>

Product Description

The Protechnic MGA4018YB-A20 is a precision-engineered DC axial fan designed for high-density thermal management applications. Utilizing advanced DC brushless motor technology and a robust dual ball bearing architecture, this unit delivers exceptional rotational stability and longevity under continuous operation. The aerodynamic impeller design is optimized to minimize thermal impedance while maintaining structural rigidity, ensuring consistent airflow delivery in restricted environments. Engineered for industrial reliability, the fan features a durable thermoplastic housing that meets rigorous flammability standards, making it an ideal solution for critical cooling requirements where component density and heat dissipation are paramount.

Model Number: MGA4018YB-A20

Brand: Protechnic (Magic / Yongli)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.18 A

Power Consumption: 2.16 W

Rated Speed: 8500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 9.5 CFM (16.14 m³/h / 0.27 m³/min)

Max. Static Pressure: 7.20 mmH₂O (70.61 Pa / 0.28 inH₂O)

Dimensions: 40 x 40 x 20 mm

Weight: 26 g

Life Expectancy: 70,000 Hours @ 40°C

Noise Level: 34.0 dB(A)

Housing Material: PBT Plastic (UL94V-0)

Blade Material: PBT Plastic (UL94V-0)

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

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP40

Safety Certifications: UL, cUL, TUV, CE

The MGA4018YB-A20 is specifically calibrated for integration into compact electronic assemblies such as air purifiers, where consistent airflow is critical for sensor accuracy and filtration efficiency. Beyond purification systems, the MGA4018YB-A20 is widely utilized in 1U server racks, telecommunications equipment, and industrial automation control panels requiring active cooling in a 40mm form factor. Its high static pressure capabilities allow it to effectively push air through dense heatsinks and restricted chassis, ensuring optimal thermal regulation for sensitive components.

Supplemental Images

