



MGA12012XR-O25 Protechnic

Brand: Protechnic

SKU: MGA12012XR-O25

Category: DC Fans

URL: <https://www.fansco.com/item/mga12012xr-o25-protechnic/>

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Product Description

MGA12012XR-O25 Protechnic 12VDC 2.725m³/min 96.2CFM 53.96Pa 0.217inH2O 2700RPM 0.52A 6.24W 40.6dB(A) 120x120x25mm Ball Bearing 2 Wire Leads DC Axial Fan

The MGA12012XR-O25 by Protechnic Electric is a 12VDC ball-bearing axial fan designed for efficient and reliable cooling in a wide range of applications. With a standard 120x120x25mm form factor and weighing 154g, it features a durable plastic frame and blades, paired with a ball bearing for long-term performance. Electrically, it operates at a rated 12 VDC, drawing 0.52 A (6.24 W) under full load, though actual operation typically consumes 0.23 A (2.76 W), making it energy-efficient for continuous use. The fan runs at a constant 2700 RPM (2-wire design without speed control), delivering 2.725 m³/min (96.2 CFM) of airflow at free air conditions and a static pressure of 53.96 Pa (0.217 in H2O), balancing airflow and pressure for effective heat dissipation.

Acoustically, MGA12012XR-O25 produces 40.6 dB(A) of noise, making it suitable for noise-sensitive environments. Environmentally, the fan operates between -10°C and 70°C and stores safely from -40°C to 70°C (5%–95% RH, non-condensing), with an L10 lifespan of 40,000 hours at 60°C, ensuring longevity in moderate-temperature setups. Protective features include automatic restart and locked rotor protection, safeguarding against damage from blockages. Certified by CE, TUV, and UL, it meets global safety standards for both industrial and consumer applications.

Ideal for electronics cooling (e.g., server racks, control panels), appliance ventilation, and general industrial heat dissipation, its compact size and simple 2-wire connection facilitate easy installation. The ball bearing design offers resistance to vibrations, while the plastic construction keeps it lightweight yet robust. Whether used in commercial HVAC systems, agricultural equipment, or consumer electronics, the MGA12012XR-O25 provides consistent airflow, low noise, and reliable performance, making it a practical choice for applications requiring steady cooling without complex controls.

Technical Specifications

Attribute	Value
Model Number	MGA12012XR-O25
Manufacturer	Protechnic Electric

Fan Type	DC
Voltage Rating	12 VDC
Air Flow CMM	2.725 m ³ /min
Air Flow	96.2 CFM
Static Pressure Pa	53.96 Pa
Static Pressure mmAq	5.5 mmAq
Static Pressure	0.217 in H ₂ O
Fan Speed	2700 RPM
Current Rating	0.52 A
Actual Current	0.23 A
Power Rating	6.24 W
Actual Power	2.76 W
Noise Level	40.6 dB(A)
Weight	154 g
Dimensions	120X120X25 mm
Bearing Type	Ball Bearing
Material Blade	Plastic
Material Frame	Plastic
Lifetime @ Temp	40000 Hrs @ 60°C
Operating Temperature	14 ~ 158°F (-10 ~ 70°C)
Storage Temperature	-40°C~70°C(5%~95% RH)
Approval Agency	CE TUV UL
Termination	2 Wire Leads
Category	Axial Fan
Features	Automatic restart,locked current protection
series	120*120*25mm seriesG





