

MGT3812ZB-W28C Protechnic 12V 38x38x28mm DC Axial Fan

SKU: MGT3812ZB-W28C

Price: \$18.57

Categories: Fans

Tags: Protechnic

Product Link:

<https://www.electspares.com/product/mgt3812zb-w28c-protechnic-12v-38x38x28mm-dc-axial-fan/>

Product Description

The Protechnic MGT3812ZB-W28C is a high-performance 12VDC ultra-compact axial fan with dimensions of 38 x 38 x 28 mm, specifically engineered for concentrated thermal management in high-density electronic environments. This dual ball bearing cooling solution is designed to provide exceptional airflow and high static pressure within a minimal footprint, making it ideal for 1U server chassis, networking switches, and compact power supplies. Operating at an ultra-high rated speed of 23,000 RPM and drawing a rated current of 1.00A, it delivers a maximum air flow of 23.50 CFM (39.9 m³/h) and a significant peak static pressure of 2.642 inAq (658.2 Pa). The MGT3812ZB-W28C features a 4-wire interface supporting PWM speed control and tachometer feedback, allowing for precise thermal regulation and energy efficiency. Its robust construction and high-speed capabilities ensure reliable operation in demanding industrial and computing applications where space is at a premium.

MGT3812ZB-W28C Fan Parameters

Manufacturer: Protechnic

Model Number: MGT3812ZB-W28C

Type: DC Axial Fan

Dimensions: 38 x 38 x 28 mm

Weight: 43 g

Frame Material: Plastics (UL 94V-0)

Impeller Material: Plastics (UL 94V-0)

Bearing Type: Dual Ball Bearing

Rated Voltage: 12 VDC

Operating Voltage Range: 10.8 – 13.2 VDC

Rated Current: 1.00 A

Rated Input Power: 12.0 W

Rated Speed: 23,000 RPM (min⁻¹)

Max. Air Flow: 23.50 CFM (39.9 m³/h / 0.67 m³/min)

Max. Static Pressure: 2.642 inAq (658.2 Pa / 67.1 mmH₂O)

Sound Pressure Level: 58.3 dB(A)

Termination: 4 Lead Wires

Wire Functions: Red (+), Black (-), Yellow (Tachometer), Blue (PWM)

Control Interface: PWM Control / Pulse Sensor

Operating Temperature: -10 – +70 °C

Storage Temperature: -40 – +75 °C

Expected Life: 70,000 h (at 40 °C)

Locked Rotor Protection: Supported

Reverse Polarity Protection: Supported

Safety Approvals: UL, CE, RoHS

Application

The Protechnic MGT3812ZB-W28C high-speed axial fan is specifically designed for cooling 1U/2U server enclosures, high-performance network routers and switches, compact industrial power supplies, medical diagnostic equipment, and high-density electronic modules requiring maximum airflow in confined spaces.

Product Images







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