

G3G250-MW50-01 ebmpapst 230VAC 250mm EC Motor Centrifugal Fan Datasheet



Brand: ebmpapst

SKU: 706888951794

Category: Axial & Centrifugal Fans

Price: \$4,500.99

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Product Page:

<https://www.equipspares.com/product/g3g250-mw50-01-ebmpapst-230vac-250mm-ec-motor-centrifugal-fan>

Product Description

The ebmpapst G3G250-MW50-01 is a highly efficient EC Centrifugal Fan engineered for precision thermodynamics in gas condensing boilers and evaporator systems. Utilizing advanced GreenTech EC motor technology, this unit delivers superior aerodynamic performance with reduced power consumption compared to traditional AC counterparts. The backward-curved impeller design optimizes airflow while minimizing noise generation and structural vibration, ensuring stable operation under high back-pressure conditions. Featuring a robust construction with integrated electronics for precise speed control, the fan ensures optimal thermal impedance management. Its durable bearing architecture supports long-term reliability under continuous operation, making it an essential component for demanding industrial thermal regulation and combustion applications.

Model Number: G3G250-MW50-01

Brand: ebmpapst

Product Type: EC Centrifugal Fan (Backward Curved)

Rated Voltage: 230 VAC

Voltage Range: 200 - 240 VAC

Frequency: 50/60 Hz

Phase: 1~

Rated Current: 1.1 A

Power Consumption: 150 W
Rated Speed: 2550 RPM
Max. Air Flow: 647 CFM (1100 m³/h)
Max. Static Pressure: 2.41 inH₂O (600 Pa)
Impeller Diameter: 250mm
Bearing Type: Ball Bearing
Motor Technology: EC (Electronically Commutated)
Motor Type: M3G055-CF
Speed Control: 0-10 VDC / PWM
Output Signal: Tach Output
Material (Impeller): PA Plastic (Polyamide, Glass-fiber reinforced)
Material (Housing): Die-cast Aluminum
Ingress Protection: IP20
Insulation Class: B
Operating Temperature: -25°C to +60°C
Mounting Orientation: Any
Weight: 2.4 kg
Certifications: CE, UL, CSA, CCC
Protection: Locked-rotor protection, Soft start, Thermal overload protection

Designed specifically for combustion engineering, the G3G250-MW50-01 is predominantly utilized in gas condensing boilers and commercial gas evaporators where precise air-fuel mixture control is critical. The G3G250-MW50-01 also finds application in specialized HVAC air handling units and industrial heat exchangers requiring compact, high-pressure airflow. Its modulation capabilities make it ideal for variable load heating systems and thermal processing equipment requiring exact airflow adjustments.

Supplemental Images

