NRG118/0800-3612-031214 ebmpapst 325V Centrifugal Blower Datasheet

Brand: ebmpapst

SKU: 1031282133627

Category: Axial & Centrifugal Fans

Price: **$171.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/nrg118-0800-3612-031214-ebmpapst-325v-centrifugal-blower

Product Description

ebmpapst NRG118/0800-3612-031214 is a 325VDC 118mm Centrifugal Blower optimized for high-impedance thermal management in condensing gas boiler systems. This EC (Electronically Commutated) blower features an integrated motor controller and a high-rigidity aluminum housing designed to minimize resonance and structural vibration. The aerodynamic impeller geometry is engineered to overcome significant backpressure in heat exchangers, ensuring precise air-fuel premixing. Operating at a nominal 325VDC, this unit delivers high-efficiency performance with a rated power consumption of approximately 45W, maintaining stable airflow even under fluctuating system resistance to ensure optimal combustion efficiency and low thermal impedance.

Model Number: NRG118/0800-3612-031214
Brand: ebmpapst
Product Type: EC Centrifugal Blower
Rated Voltage: 325 VDC
Voltage Range: 200.0 - 380.0 VDC
Rated Current: 0.14 A
Power: 45 W
Rated Speed: 5200 RPM
Bearing Type: Ball Bearing
Max. Air Flow: 70.6 CFM (120 m^3/h)

Max. Static Pressure: 12.23 mmH_2O (120 Pa)
Dimensions: 118 x 118 x 95 mm
Weight: 1.2 kg
Life Expectancy: 40,000 hours at 40°C
Speed Control: PWM / 0-10V Interface
Insulation Class: Class B
Housing Material: Die-cast aluminum
Blade Material: Sheet steel, galvanized
Operating Temperature: -25 to +60 °C
Protection Features: Locked rotor protection, Soft start, Over-temperature protection
Certifications: VDE, CE, UL

NRG118/0800-3612-031214 Applications

1. Condensing Gas Boilers: Provides the necessary static pressure to overcome high-resistance heat exchangers in Vaillant, Ariston, and Bosch heating systems, serving as a critical replacement fan for combustion air supply.
2. Premix Burner Systems: Ensures precise air-to-gas ratios through stable RPM control, essential for low-emission combustion in industrial and residential heating units.
3. High-Impedance Cooling: Ideal for compact thermal enclosures where dense internal components create significant airflow resistance that standard axial fans cannot overcome.

Supplemental Images


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