

R3G250-PR17-W9/G01 ebmpapst 400V EC Centrifugal Fan

SKU: R3G250-PR17-W9/G01

Price: \$749.96

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/r3g250-pr17-w9-g01-ebmpapst-400v-ec-centrifugal-fan/>

Product Description

The ebmpapst R3G250-PR17-W9/G01 is a high-power 3-Phase EC Centrifugal Fan with an impeller size of 250 mm and dimensions of 250 x 123 mm. This backward-curved fan is part of the high-efficiency RadiCal series, driven by a powerful GreenTech EC external rotor motor. Operating on a 3-phase 380-480 VAC supply, it features a robust input power of 1160 W and an output power of 998 W. At its peak speed of 4000 RPM, it delivers a massive airflow of 1500.8 CFM (2550 m³/h). This model is specifically engineered for high-pressure industrial applications such as EC energy-saving retrofits in Fan Filter Units (FFU) and precision cooling systems. With integrated speed control, IP55 protection, and a glass-fiber reinforced composite impeller, it provides superior aerodynamic performance and long-term reliability in demanding cleanroom and industrial environments.

R3G250-PR17-W9/G01 Fan Parameters

Manufacturer: ebmpapst

Model Number: R3G250-PR17-W9/G01

Type: EC Centrifugal Fan (Backward-curved)

Dimensions: 250 x 123 mm

Impeller Size: 250 mm

Nominal Voltage: 400 VAC (3-Phase)

Operating Voltage Range: 380 to 480 VAC

Frequency: 50 / 60 Hz

Speed: 4000 RPM

Power Input/Output: 1160 / 998 W

Rated Current: 1.8 A

Max. Airflow: 1500.8 CFM (2550 m³/h)

Max. Static Pressure: 1250 Pa (5.02 inAq)

Noise Level: 81 dB(A)

Weight: 4.8 kg

Termination: Terminal box or multi-core cable (Integrated controller)

Bearing Type: Ball Bearing

Housing Material: Die-cast aluminum (Electronics housing)

Impeller Material: PA plastic, glass-fiber reinforced

Direction of Rotation: Clockwise (viewed toward rotor)

Degree of Protection: IP55

Insulation Class: F

Humidity Class: F3-1

Operating Temp. Range: -25 °C to +60 °C

Control Input: 0-10 VDC / PWM / Modbus RTU

Signal Output: Tacho signal; Alarm relay

Safety Protections: Soft start, Motor current limitation, Over-temperature protection, Locked-rotor protection, Phase failure detection

Approvals: VDE, CE, UL, CSA, CCC, EAC

Application

The R3G250-PR17-W9/G01 is a specialized "EC Retrofit Solution" designed for high-performance Fan Filter Units (FFU) and large-scale industrial ventilation systems. Its unique 3-phase high-voltage design and 4000 RPM speed capability allow it to deliver a high-volume airflow of 1500.8 CFM (2550 m³/h), making it ideal for the energy-saving modernization of cleanroom infrastructures in semiconductor fabs and biotechnology laboratories. The high static pressure capability of 1250 Pa ensures it can effortlessly overcome the resistance of ultra-dense HEPA/ULPA filters. The integrated EC controller and IP55 protection enable reliable operation and precise airflow management via Modbus RTU or 0-10V signals, ensuring optimal pressure stability and significantly reduced energy consumption in mission-critical environments.

Product Images









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