

8317088090 VBS0280CSNJZ ebmpapst 230V EC Centrifugal Fan

SKU: 8317088090

Price: \$649.97

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.elecspares.com/product/8317088090-vbs0280csnjz-ebmpapst-230v-ec-centrifugal-fan/>

Product Description

The ebmpapst 8317088090 VBS0280CSNJZ is a high-capacity EC Centrifugal Fan with an impeller size of 280 mm and dimensions of 280 x 160 mm. Driven by a high-efficiency GreenTech EC external rotor motor (Model E07434-43), this backward-curved fan is a key component of the aerodynamically optimized RadiCal series. Operating on a single-phase nominal 230 VAC with a wide input range of 200-277 VAC, it features a robust power input of 382 W and a 241 W output. At its rated speed of 2650 RPM, it delivers a massive maximum airflow of 1530.2 CFM (2600 m³/h). Specifically engineered for high-performance Fan Filter Units (FFU) and mission-critical cleanroom ventilation, it features a glass-fiber reinforced composite impeller designed to maximize static efficiency while maintaining an IP54 protection rating. With integrated 0-10V or PWM speed control and a maintenance-free ball bearing system, this model is the premier choice for large-scale industrial airflow management and precision thermal control.

8317088090 VBS0280CSNJZ Fan Parameters

Manufacturer: ebmpapst

Model Number: 8317088090 (VBS0280CSNJZ)

Motor Model: E07434-43

Type: EC Centrifugal Fan (Backward-curved, RadiCal)

Dimensions: 280 x 160 mm

Impeller Size: 280 mm

Nominal Voltage: 230 VAC (1~)

Operating Voltage Range: 200 to 277 VAC

Frequency: 50 / 60 Hz

Speed: 2650 RPM

Power Input/Output: 382 / 241 W

Rated Current: 1.68 A

Max. Airflow: 1530.2 CFM (2600 m³/h)

Max. Static Pressure: 820 Pa (3.29 inAq)

Noise Level: 76 dB(A)

Weight: 4.3 kg

Termination: Variable cable with wire-end ferrules

Bearing Type: Ball Bearing

Housing Material: Die-cast aluminum (Motor)

Impeller Material: PA plastic, glass-fiber reinforced

Number of Blades: 5

Direction of Rotation: Clockwise (viewed toward rotor)

Degree of Protection: IP54

Insulation Class: B

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

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

Signal Output: Tacho signal

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

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

Application

This high-capacity EC centrifugal fan is primarily utilized in large-scale Fan Filter Units (FFU), cleanroom air recirculation systems, and industrial HVAC installations that require massive air displacement against high filter resistance. It is also an ideal solution for precision cooling in server rooms, pharmaceutical sterile suites, and large-scale energy storage systems (ESS) where demand-based airflow control via Modbus or 0-10V is essential for maintaining strict environmental standards.

Product Images









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