

8317084540 VBS0280MSNDS ebmpapst 230V 280mm EC Axial Fan

SKU: 8317084540

Price: \$274.99

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/8317084540-vbs0280msnds-ebmpapst-230v-280mm-ec-axial-fan/>

Product Description

The ebmpapst VBS0280MSNDS (8317084540) is a high-performance single-phase EC Axial Fan with a 280 mm impeller, designed for precision thermal management in commercial and industrial cooling systems. Driven by GreenTech EC technology, this model operates on a versatile 200-277 VAC input, offering significant energy savings compared to traditional AC fans. It delivers a reliable maximum airflow of 1385 m³/h (815 CFM) at a rated speed of 1960 RPM. With a 168 W power input and a high-efficiency 134 W output, the VBS0280MSNDS provides the stable static pressure necessary for consistent air circulation in HVAC units and specialized refrigeration equipment. This 2.93 kg compact air mover features an IP20-rated design and integrated intelligent electronics, supporting 0-10V or PWM speed modulation for optimized energy management in 230V single-phase industrial environments.

8317084540 VBS0280MSNDS Fan Parameters

Manufacturer: ebmpapst (Germany)

Model Number: VBS0280MSNDS

Part Number: 8317084540

Motor Type: GreenTech EC External Rotor Motor

Type: EC Axial Fan (High-Efficiency Series)

Impeller Size: 280 mm

Dimensions: 280 mm (Diameter) x 80 mm (Axial Depth)

Nominal Voltage: 230 VAC

Operating Voltage Range: 200 - 277 VAC

Phase: 1~

Frequency: 50 / 60 Hz

Speed: 1960 RPM

Power Input (P1): 168 W

Power Output (P2): 134 W

Rated Current: 0.75 A

Max. Airflow: 1385 m³/h (815 CFM)

Max. Static Pressure: 125 Pa (0.50 inAq)

Noise Level: 62 dB(A)

Weight: 2.93 kg

Termination: Terminal Box or Lead Wires

Bearing Type: Dual Ball Bearing (Maintenance-free)

Impeller Material: High-performance composite or Sheet steel

Number of Blades: 5

Direction of Rotation: Clockwise (viewed toward rotor)

Direction of Airflow: "V" (Exhaust over struts)

Degree of Protection: IP20

Insulation Class: F (155 °C)

Controller Features: Integrated EC controller, 0-10V/PWM Speed Control, Tacho output

Motor Protection: Integrated electronic protection (Locked-rotor / Thermal)

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

Efficiency Class: ErP 2015 / IE4 Equivalent

Approvals: CE, UL, CSA, VDE, EAC

Application

The ebmpapst VBS0280MSNDS (8317084540) is specifically engineered for efficient air displacement in commercial refrigeration units, server rack cooling, and industrial heat exchangers. Its 280 mm impeller is optimized to deliver 1385 m³/h (815 CFM) of airflow, ensuring effective temperature regulation in environments requiring 24/7 operation. The 168 W EC motor offers superior torque-to-weight ratio, allowing the 2.93 kg unit to maintain 1960 RPM with minimal energy consumption. The integrated speed control enables the fan to adjust dynamically to real-time cooling demands via 0-10V signals, making it an ideal choice for energy-conscious HVAC systems and precision cooling applications within 200-277V power grids.

Product Images









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