

8300100738 VBS0310CSPHS ebmpapst 230V 310mm EC Axial Fan

SKU: 8300100738

Price: \$949.95

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/8300100738-vbs0310csphs-ebmpapst-230v-310mm-ec-axial-fan/>

Product Description

The ebmpapst VBS0310CSPHS (8300100738) is a premium high-power single-phase EC Axial Fan specifically designed for industrial cold storage evaporators and heavy-duty refrigeration condensers. While it connects to a standard single-phase AC supply, it utilizes advanced GreenTech EC technology to achieve an extreme power density of 800 W within a compact 310 mm frame. This model operates across a broad 200-277 VAC range, delivering a concentrated maximum airflow of 2690 m³/h (1583 CFM) at a high rated speed of 3030 RPM. Unlike traditional AC fans, the VBS0310CSPHS features integrated electronics for precise speed modulation and energy efficiency, capable of generating the high static pressure (1.81 inAq) necessary to penetrate through frosted cooling fins. Its IP55-rated construction and 3.5 A high-torque performance make it a mission-critical component for maintaining exact temperature profiles in 24/7 cold chain logistics and rapid-chilling blast freezers.

8300100738 VBS0310CSPHS Fan Parameters

Manufacturer: ebmpapst (Germany)

Model Number: VBS0310CSPHS

Part Number: 8300100738

Motor Type: GreenTech EC External Rotor Motor

Type: EC Axial Fan (High-Performance Series)

Impeller Size: 310 mm

Dimensions: 310 mm (Diameter) x 115 mm (Axial Depth)

Nominal Voltage: 230 VAC

Operating Voltage Range: 200 - 277 VAC

Phase: 1~

Frequency: 50 / 60 Hz

Speed: 3030 RPM

Power Input (P1): 800 W

Rated Current: 3.5 A

Max. Airflow: 2690 m³/h (1583 CFM)

Max. Static Pressure: 450 Pa (1.81 inAq)

Noise Level: 76 dB(A)

Weight: 5.8 kg

Termination: Integrated Terminal Box

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: IP55 (Dust-protected, Jet-water-proof)

Insulation Class: F (155 °C)

Controller Features: Integrated EC controller, 0-10V/PWM Speed Control, Modbus RTU

Motor Protection: Electronic Locked-rotor and Thermal Overload protection

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

Efficiency Class: ErP 2015 / IE4 Equivalent

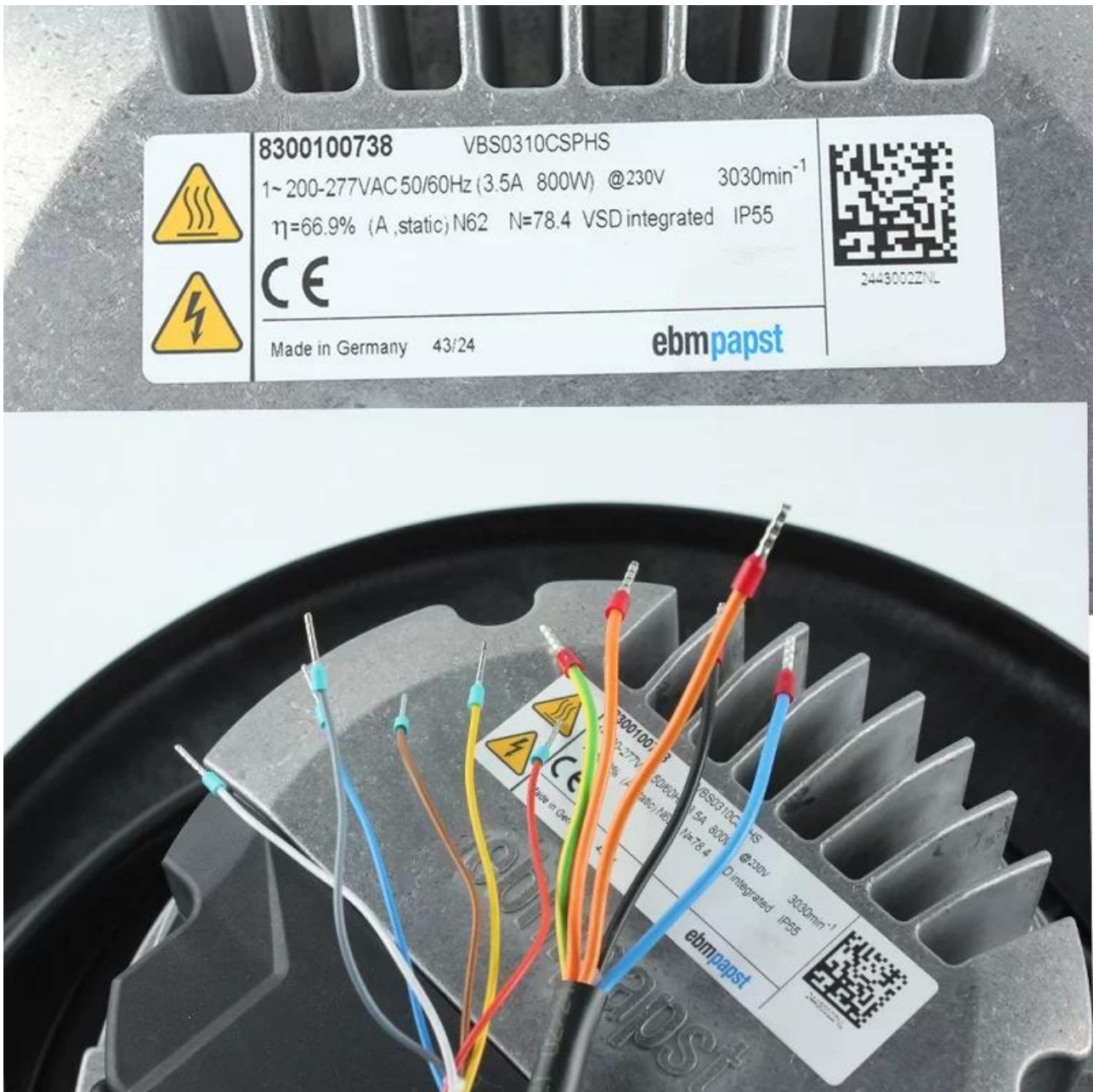
Approvals: CE, UL, CSA, VDE, EAC

Application

The ebmpapst VBS0310CSPHS (8300100738) is primarily utilized in high-density cold storage evaporators and high-velocity blast freezers where standard AC axial fans cannot provide sufficient pressure. Its 800 W high-power EC motor is essential for forcing 2690 m³/h (1583 CFM) of air through dense, frost-laden heat exchangers, maintaining the efficiency of the refrigeration cycle. The integrated speed control allows for automatic reduction of fan speed during the night or low-load periods, significantly reducing energy costs compared to fixed-speed AC models. Designed for the harsh humidity of cold rooms, its IP55-rated electronics ensure total reliability during aggressive defrost cycles, providing a robust and intelligent cooling solution for 200-277V commercial and industrial cold chain environments.

Product Images









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