

K3G450-AZ30-01 ebmpapst 400VAC 450mm EC Centrifugal Fan

SKU: K3G450-AZ30-01

Price: \$8,772.75

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/k3g450-az30-01-ebmpapst-400vac-450mm-ec-centrifugal-fan/>

Product Description

The ebmpapst K3G450-AZ30-01 is a high-performance 400 VAC (3-phase) EC Centrifugal Fan unit with a 450 mm RadiPac impeller, specifically engineered for mission-critical industrial ventilation and precision Air Handling Units (AHU). Driven by the robust M3G150-IF motor, this unit operates within a 380 - 480 VAC range, delivering a massive Max. Power Consumption of 5370 W and a Max. Current Draw of 8.3 A at a rated speed of 2750 RPM. This Industrial Frequency Converters compatible unit features a high-strength aluminium sheet impeller, galvanized steel inlet nozzle, and a 52.7 kg heavy-duty steel support structure with Dimensions of 630 x 630 x 483 mm. It achieves a Max. Air Flow of 8040.0 m³/h (4732.1 CFM) and a Max. Static Pressure of 152.15 mmH₂O (1492.0 Pa / 5.99 inAq) at its maximum load (ml) point. Integrating RS-485 MODBUS-RTU, an integrated PID controller, and VFD compatibility, this IP54-rated unit is optimized for extreme reliability and precise airflow modulation in demanding industrial environments. The ebmpapst K3G450-AZ30-01 centrifugal fan is the primary cooling component for server room precision air conditioning, large-scale ventilation systems, and industrial clean room systems requiring massive air volume and high-pressure stability in 400 VAC environments at the end.

K3G450-AZ30-01 Fan Parameters

Type: EC Centrifugal Fan

Model Number: K3G450-AZ30-01

Motor: M3G150-IF

Manufacturer: ebmpapst

Series: RadiPac EC Series

Method of obtaining data: ml (Maximum load)

Impeller Size: 450 mm

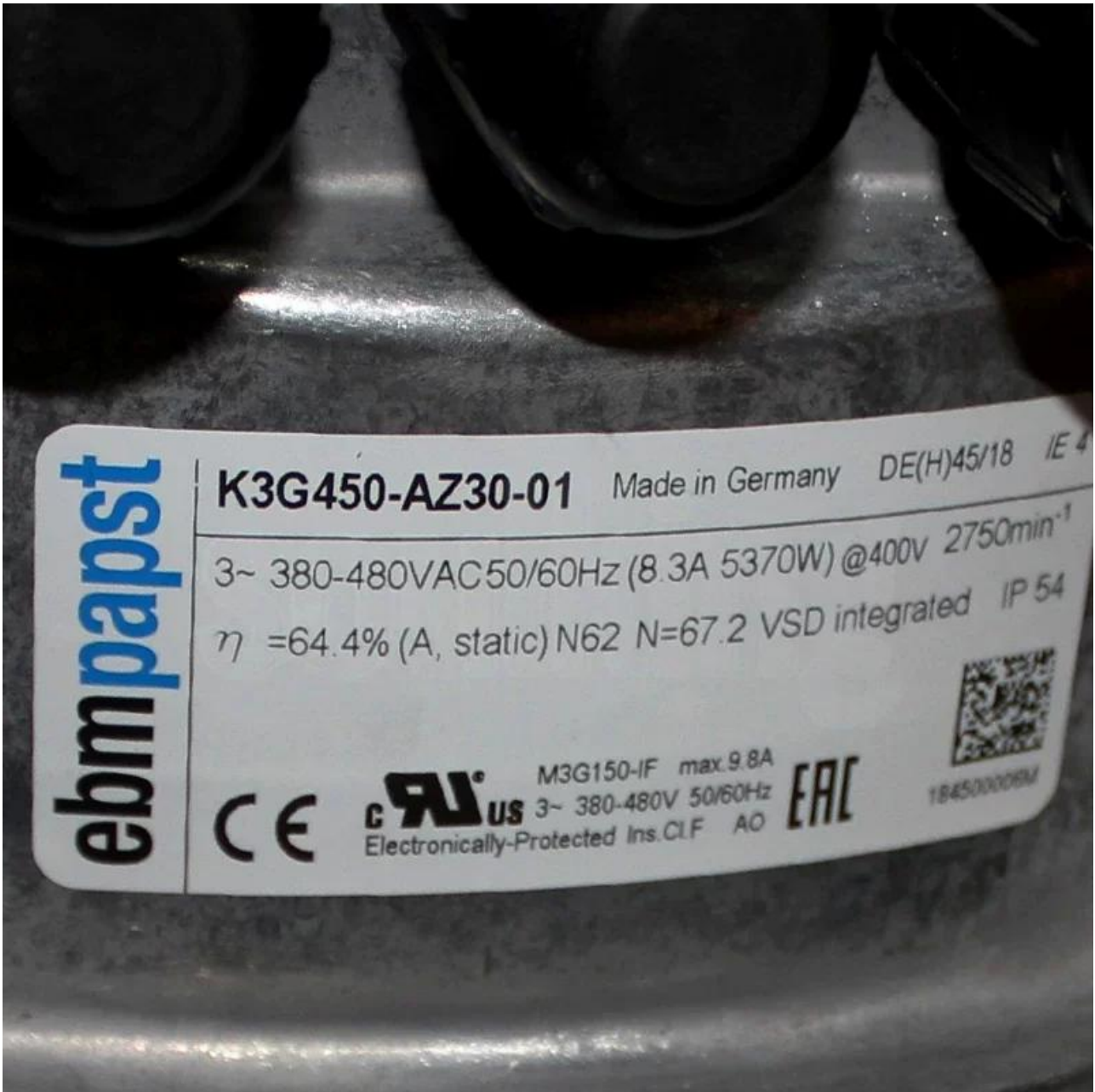
Motor Size: 150
Dimensions: 630 x 630 x 483 mm
Weight: 52.7 kg
Bearing Type: Ball bearing
Nominal Voltage: 400 VAC (3-phase)
Voltage Range: 380 - 480 VAC
Frequency: 50/60 Hz
Max. Current Draw: 8.3 A
Max. Power Consumption (P1 Input): 5370.0 W
Rated Speed: 2750 RPM
Max. Air Flow: 4732.1 CFM (8040.0 m³/h / 134.00 m³/min)
Max. Static Pressure: 152.15 mmH₂O (1492.0 Pa / 5.99 inAq)
Working Air Flow: 8040.0 m³/h
Static Pressure Increase: 1492.0 Pa
Overall Efficiency: 64.4%
Efficiency Grade: ErP 2015 compliant (Nactual 67.2)
Power Factor Correction (PFC): Passive
Touch Current: <= 3.5 mA
Control Input: RS-485 MODBUS-RTU / 0-10 VDC / PWM / Sensor input (0-10 V or 4-20 mA)
Technical Features: Integrated PID controller; Soft start; External 24 V input; Alarm relay;
Operation and alarm display
Voltage Output: 10 VDC (max. 10 mA) / 20 VDC (max. 50 mA) / Output for slave 0-10 V
Motor Protection: Electronic motor protection; Reverse polarity and locked-rotor protection;
Over-temperature protected
Insulation Class: Class F
Degree of Protection: IP54
Humidity/Environmental Protection: F4-1 / H1
Operating Temperature: -25 - +40 °C
Number of Blades: 7
Direction of Rotation: Clockwise (viewed toward rotor)
Impeller Material: Aluminium sheet
Rotor Surface: Coated in black
Support Bracket Material: Steel, coated in black
Inlet Nozzle Material: Sheet steel, galvanised
Mounting Position: Shaft horizontal or rotor on bottom
Mode: S1 (Continuous operation)
Standard Compliance: EN 61800-5-1; CE; UL 1004-7; CSA C22.2 No. 77; EAC

Application

The ebmpapst K3G450-AZ30-01 centrifugal fan is the primary cooling component for server room precision air conditioning, industrial clean room systems, and high-capacity ventilation requiring massive air volume and high energy efficiency in 400 VAC environments.

Product Images





Scan for product details:

