

K3G500-PC16-L1 ebmpapst 400V EC Centrifugal Fan 500mm

SKU: K3G500-PC16-L1

Price: \$1,296.08

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/k3g500-pc16-l1-ebmpapst-400v-ec-centrifugal-fan-500mm/>

Product Description

The ebmpapst K3G500-PC16-L1 is an EC Centrifugal Fan with measuring 500 mm in diameter, powered by the M3G150-NA motor. It operates on a nominal voltage of 400 VAC (range 380..480 VAC) at 50 Hz/60 Hz frequencies. The fan has a 7000 W power consumption, a 10.7 A current draw, and a 2400 RPM speed. Featuring Ball Bearings and extensive technical features like a MODBUS interface and Integrated PI controller, this fan is highly protected (IP55 with H1 protection class) and ideal for continuous operation in demanding applications like Air Handling Units (AHU), data centers, and industrial ventilation.

K3G500-PC16-L1 Fan Parameters

Model: K3G500-PC16-L1

Manufacturer: ebmpapst

Fan Type: EC Centrifugal Fan (Backward-Curved Motorized Impeller)

Dimensions: 500 mm

Motor: M3G150-NA

Nominal Voltage: 400 VAC

Nominal Voltage Range: 380 VAC..480 VAC

Frequency: 50 Hz/60 Hz

Method of obtaining data: ml

Rated Speed: 2400 RPM

Power Consumption: 7000 W

Current Draw: 10.7 A

Min. Ambient Temperature: -40 °C

Max. Ambient Temperature: 40 °C

Weight: 54 kg

Motor Size: 150

Rotor Surface: Painted black

Electronics Housing Material: Die-cast aluminum

Impeller Material: Sheet aluminum

Support Plate Material: Sheet steel, galvanized

Support Bracket Material: Steel, painted black

Inlet Nozzle Material: Sheet steel, galvanized

Number of Blades: 5

Direction of Rotation: Clockwise, viewed toward rotor

Degree of Protection: IP55

Insulation Class: "F"

Moisture / Environmental Protection Class: H1

Max. Permitted Ambient Temp. for motor (transport/storage): +80 °C

Min. Permitted Ambient Temp. for motor (transport/storage): -40 °C

Installation Position: See legend on product drawing

Condensation Drainage Holes: On rotor side

Mode: S1

Motor Bearing: Ball bearing

Power Factor Correction (PFC): Passive (through low-capacitance DC link)

EMC Immunity to Interference: According to EN 61000-6-2 (industrial environment)

EMC Interference Emission: According to EN 61000-6-3 (household environment), except EN 61000-3-2 for professionally used equipment with a total rated power greater than 1 kW

Touch Current according to IEC 60990 (measuring circuit Fig. 4, TN system): ≤3.5 mA

Electrical Hookup: Terminal box

Motor Protection: Electronic motor protection

Protection Class Assignment: I; If a protective earth is connected.

Conformity with Standards: EN 61800-5-1; CE

Approval: EAC; UL 1004-7+60730-1; CSA C22.2 No. 77+CAN/CSA-E60730-1

Application

The K3G500-PC16-L1 EC Centrifugal Fan is a high-power, high-efficiency fan from the RadiPac series, designed for major HVAC and industrial air handling systems. It is suitable for continuous (S1) operation in applications such as Air Handling Units (AHU), central air conditioning systems, precision air conditioners, clean rooms, and data centers, especially where features like MODBUS control, integrated PI controller, and thermal/vibration protection are required for smart system integration.

Product Images





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