

K3G280-RR04-H9 ebmpapst 230VAC 280mm EC Centrifugal Fan

SKU: K3G280-RR04-H9

Price: \$5,715.09

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/k3g280-rr04-h9-ebmpapst-230vac-280mm-ec-centrifugal-fan/>

Product Description

The ebmpapst K3G280-RR04-H9 is a high-performance 230VAC EC Centrifugal Fan with an impeller size of 280 mm, specifically engineered for demanding thermal management in industrial frequency converters and electrical control cabinets. This unit is a certified OEM replacement part (Siemens NO: A5E37084935). Driven by a robust single-phase M3G084-DF external rotor motor with integrated electronics providing a power consumption of 520.0 W and a nominal current of 2.3 A at 230VAC/50/60 Hz, this precision unit operates at a maximum speed of 2700 RPM, delivering a powerful airflow for efficient heat extraction. Constructed with a 6-blade PP plastic impeller with a galvanized sheet-metal plate featuring high-precision ball bearings and a die-cast aluminum housing, this 16.8 kg unit provides a dependable and energy-efficient air-moving solution with an overall efficiency of 58.6% and IP55 protection, ensuring maximum cooling performance and long-term mechanical stability with integrated RS-485 MODBUS-RTU and active PFC for high-power inverters, variable frequency drives (VFD), and integrated electrical switchgear systems at the end.

K3G280-RR04-H9 Fan Parameters

Model Number: K3G280-RR04-H9

OEM Part Number: Siemens A5E37084935

Manufacturer: ebmpapst

Motor Model: M3G084-DF

Type: EC Centrifugal Fan

Impeller Size: 280 mm

Weight: 16.8 kg

Bearing Type: Ball bearing

Nominal Voltage: 230VAC

Voltage Range: 200 - 277 VAC

Frequency: 50 / 60 Hz

Max. Power Consumption: 520 W

Max. Current Draw: 2.3 A

Rated Speed: 2700 RPM

Max. Air Flow: 62.23 CFM (105.7 m³/h / 1.76 m³/min)

Max. Static Pressure: 9.81 mmH₂O (96.24 Pa / 0.39 inH₂O)

Working Air Flow: 1815.0 m³/h

Static Pressure Increase: 540 Pa

Overall Efficiency: 58.6%

Efficiency Grade: N 72.2

Specific Ratio: 1.01

Variable Speed Drive: Yes

Control Input: 0-10 VDC / PWM / RS-485 MODBUS-RTU

Key Technical Features: Active PFC, Integrated PID controller, Power limiter, Soft start, Alarm relay

Motor Protection: Thermal overload protection, Line undervoltage / Phase failure detection

Insulation Class: Class F

Environmental Protection Class: H1

Electrical Hookup: Via terminal box

Number of Blades: 6

Direction of Rotation: Clockwise, viewed toward rotor

Impeller Material: PP plastic, galvanized sheet-metal plate

Rotor Surface: Painted black

Electronics Housing: Die-cast aluminum, painted black

Support/Inlet Nozzle: Sheet steel, galvanized

Guard Grille: Steel, phosphated and coated with black plastic (RAL 9005)

Operation Mode: S1 (Continuous operation)

Leakage Current: ≤ 3.5 mA Operating Temperature: -25 - +60 °C Storage Temperature: -40 -

+80 °C Degree of Protection: IP55 Standard Compliance: EN 61800-5-1; CE Approval Agency:

UL 1004-7; CSA C22.2 No.77; EAC Application The ebmpapst K3G280-RR04-H9 EC fan is

primarily utilized in industrial frequency converters (such as Siemens SINAMICS series), power inverters, and electrical control cabinet heat dissipation systems.

Product Images









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