

K3G280-RR03-H2 ebmpapst 230VAC 280mm EC Centrifugal Fan

SKU: K3G280-RR03-H2

Price: \$1,291.36

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/k3g280-rr03-h2-ebmpapst-230vac-280mm-ec-centrifugal-fan/>

Product Description

The ebmpapst K3G280-RR03-H2 is a high-efficiency 200-277 V single-phase GreenTech EC centrifugal fan module from the RadiPac series, featuring a 280 mm backward-curved PP plastic impeller. This integrated modular unit is built into a robust cubic support structure with a galvanized steel support plate and black painted steel brackets, optimized for rapid deployment in modular ventilation systems. Driven by the M3G084-DF motor with integrated electronics, it delivers an airflow of 2000 m³/h and a static efficiency of 65.5%. Equipped with active PFC, an RS-485 Modbus RTU interface, and an integrated PID controller, the K3G280-RR03-H2 offers a smart, energy-saving solution for precision cooling in data centers and air handling units, ensuring reliable performance within an ambient temperature range of -25 °C to 60 °C.

K3G280-RR03-H2 Fan Parameters

Model Number: K3G280-RR03-H2

Manufacturer: ebmpapst

Motor Model: M3G084-DF

Series: RadiPac EC Centrifugal Module

Type: EC Centrifugal Fan (Backward-Curved)

Impeller Size: 280 mm

Dimensions: 400 x 400 x 224 mm

Bearing Type: Ball bearing; (sealed)

Nominal Voltage: 230 VAC

Voltage Range: 200 - 277 VAC

Phase: 1~

Frequency: 50 / 60 Hz

Weight: 7.92 kg

Power Consumption: 500 W (Ped 0.52 kW)

Nominal Current: 2.2 A

Speed: 2700 RPM (2660 RPM at peak point)

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)

Efficiency Grade (N): 79

Overall Efficiency (η_{es}): 65.5%

Motor Design: Single-phase EC External Rotor Motor

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

Technical Features: Integrated PID controller; Active PFC; Soft start; Power limiter; Motor current limitation; 10 VDC output (max. 10 mA); Operation and alarm display; Alarm relay

Motor Protection: Thermal overload protection for electronics/motor; Line undervoltage / phase failure detection; Locked-rotor protection

Insulation Class: Class F

Touch Current: \leq 3.5 mA

Electrical Hookup: Via terminal box

Number of Blades: 6

Direction of Rotation: Clockwise, viewed toward rotor

Impeller Material: PP plastic

Support Plate Material: Sheet steel, galvanized

Support Bracket Material: Steel, painted black

Inlet Nozzle Material: Sheet steel, galvanized

Electronics Housing Material: Die-cast aluminum

Installation Position: Shaft horizontal or rotor on bottom

Condensate Discharge Holes: On rotor side

Degree of Protection: IP55

Environmental Protection Class: H1

Operating Temperature: -25 - +60 °C

Standard Compliance: EN 60335-1, EN 61800-5-1, CE, UKCA

Approval Agency: CSA C22.2 No. 77, CCC, EAC, UL 1004-7

Application

The ebmpapst K3G280-RR03-H2 is used in high-efficiency air handling units (AHU), data center precision cooling, cleanroom ventilation, industrial heat exchangers, and smart building HVAC systems.

Product Images







Scan for product details:

