

K3G280-BC01-N3 ebmpapst 400V 400mm EC Centrifugal Fan

SKU: K3G280-BC01-N3

Price: \$4,199.78

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/k3g280-bc01-n3-ebmpapst-400v-400mm-ec-centrifugal-fan/>

Product Description

The ebmpapst K3G280-BC01-N3 is a heavy-duty RadiCal EC centrifugal fan module housed in a precision-engineered 400 x 400 x 273.4 mm aluminum support structure, specifically designed for high-pressure industrial cooling and demanding HVAC applications. Operating on a 3-phase 400 VAC supply (380 - 480 VAC), this integrated module delivers 940 W of power to drive its 280 mm backward-curved impeller at a nominal speed of 3140 RPM, generating a formidable static pressure of 1000 Pa. The expanded 273.4 mm installation depth ensures optimal aerodynamic clearance and robust mounting stability. Featuring IP55 protection, integrated RS-485 MODBUS-RTU control, and an extensive operating range from -40 °C to 60 °C, the K3G280-BC01-N3 provides a reliable, high-performance air management solution for mission-critical infrastructure.

K3G280-BC01-N3 Fan Parameters

Manufacturer: ebmpapst

Model Number: K3G280-BC01-N3

Type: EC centrifugal fan

Phase: 3~

Nominal Voltage: 400 VAC

Nominal Voltage Range: 380 - 480 VAC

Frequency: 50/60 Hz

Dimensions: 400 x 400 x 273.4 mm

Impeller Size: 280 mm

Weight: 16.8 kg

[Electrical Data]

Nominal Speed: 3140 RPM

Power Consumption: 940 W

Current Draw: 1.5 A

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

Output: 10 VDC (Max. 10 mA) / Alarm relay

Motor Protection: Thermal overload protection (TOP) / Soft start / Phase failure detection

Insulation Class: F

[Performance & Technical Features]

Max. Static Pressure: 1000 Pa (4.01 inH₂O)

Number of Blades: 7

Direction of Rotation: Clockwise (viewed toward rotor)

Impeller Design: RadiCal backward-curved impeller

Electronics Housing: Die-cast aluminum

Control Interface: SELV potential safely disconnected from mains

[Materials & Construction]

Impeller Material: Sheet aluminum or fiberglass-reinforced composite

Support Structure Material: Heavy-duty galvanized steel or aluminum frame

Motor Bearing: Ball Bearing (sealed)

Installation Position: Any (Shaft horizontal or vertical)

Condensation Drainage: On rotor side

Degree of Protection: IP55

[Reliability & Safety Standards]

Min. Ambient Temperature: -40 °C

Max. Ambient Temperature: 60 °C

Min. Storage Temperature: -40 °C

Max. Storage Temperature: 80 °C

Environmental Protection Class: H3 (High humidity protection)

Standard Compliance: EN 60335-1, CE, EAC, UL

Application

The ebmpapst K3G280-BC01-N3 EC centrifugal fan module is specifically engineered for high-pressure industrial cooling and precision air handling where its 400 x 400 x 273.4 mm aluminum frame and 3140 RPM 3-phase motor are required to deliver a critical 1000 Pa static pressure for airflow regulation, while its IP55-rated 940 W power-efficient design ensure stable 400 VAC operation and heat dissipation in mission-critical hardware environments from -40 °C to 60 °C.

Product Images







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