

K3G280-BD14-N2 ebmpapst 400VAC 280mm EC Centrifugal Fan

SKU: K3G280-BD14-N2

Price: \$4,342.62

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/k3g280-bd14-n2-ebmpapst-400vac-280mm-ec-centrifugal-fan/>

Product Description

The ebmpapst K3G280-BD14-N2 is a specialized 380-480 V three-phase GreenTech EC centrifugal fan module from the RadiPac series, engineered to meet rigorous railway and industrial standards. Featuring a 280 mm backward-curved aluminum impeller within a robust cubic support structure, it is powered by the M3G084-GF motor, delivering 900 W of performance at speeds up to 3140 RPM. This module is uniquely certified to EN 45545-2 (HL3) for fire protection and EN 50155 for electronic equipment used on rolling stock, making it an ideal thermal management solution for railway technology and heavy-duty industrial AHU systems. Equipped with an RS-485 Modbus RTU interface, integrated PID controller, and emergency operation mode, it ensures maximum safety and reliability across an extreme ambient temperature range of -40 °C to 60 °C.

K3G280-BD14-N2 Fan Parameters

Model Number: K3G280-BD14-N2

Manufacturer: ebmpapst

Motor Model: M3G084-GF

Series: RadiPac EC Centrifugal Module (Railway Grade)

Type: EC Centrifugal Fan (Backward-Curved)

Impeller Size: 280 mm

Dimensions: 400 x 400 x 321 mm

Bearing Type: Ball Bearing

Nominal Voltage: 400 VAC

Voltage Range: 380 - 480 VAC

Phase: 3~

Frequency: 50 / 60 Hz

Weight: 14.0 kg

Power Consumption: 900 W

Nominal Current: 1.4 A

Speed: 3140 RPM

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

Technical Features: Integrated PID controller; Emergency operation; Run monitoring; Soft start;

Passive PFC; Power limiter; 10 VDC output (max. 10 mA); EEPROM write cycles (max. 100,000);

Alarm relay

Motor Protection: Thermal overload protection for electronics/motor; Overvoltage detection;

Line undervoltage / phase failure detection; Motor current limitation

Insulation Class: Class F

Touch Current: ≤ 3.5 mA

Electrical Hookup: Terminal box; Cable (Lateral exit)

Number of Blades: 7

Direction of Rotation: Clockwise, viewed toward rotor

Impeller Material: Sheet aluminum

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: H3

Operating Temperature: -40 - +60 °C

EMC Compliance: EN 50121-3-2 (Railway infrastructure)

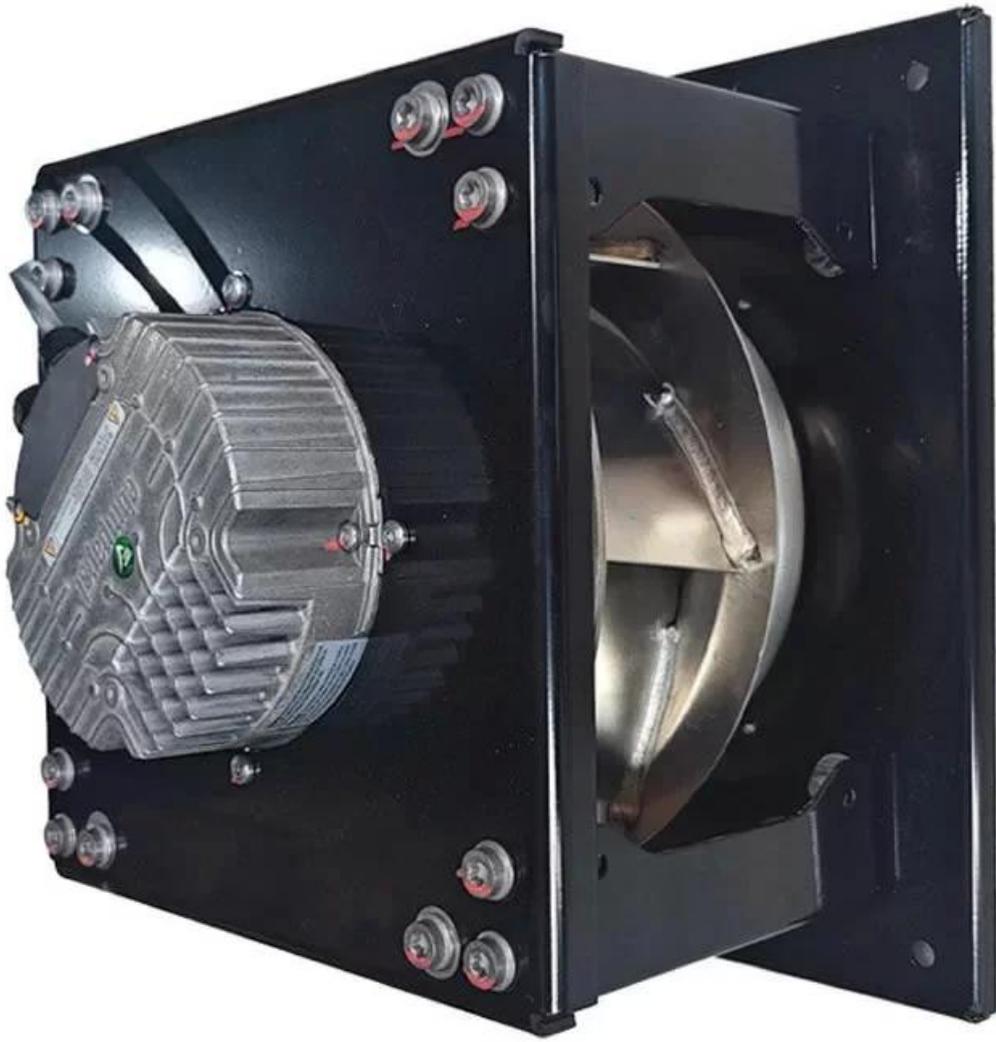
Standard Compliance: EN 15085-1, EN 45545-2 (HL3), EN 50155, EN 61373 (Cat 1B), CE

Approval Agency: EAC

Application

The ebmpapst K3G280-BD14-N2 is primarily utilized in railway vehicle ventilation and cooling, high-reliability industrial air handling units (AHU), and heavy-duty thermal management systems requiring compliance with fire and vibration safety standards.

Product Images







Scan for product details:

