

R3G630-FB32-03 ebmpapst 400VAC 660mm EC Centrifugal Fan

SKU: R3G630-FB32-03

Price: \$1,548.47

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/r3g630-fb32-03-ebmpapst-400vac-660mm-ec-centrifugal-fan/>

Product Description

The ebmpapst R3G630-FB32-03 is a high-performance 400VAC EC Centrifugal Fan with dimensions of 660 x 660 x 405 mm, featuring a RadiPac backward-curved, single-intake impeller with a support bracket, specifically engineered for mission-critical cooling in Industrial Frequency Converters and large-scale air handling units. Driven by a 3-phase high-efficiency EC external rotor M3G150-IF motor with integrated electronics and maintenance-free ball bearings, this 28.6 kg unit operates on a 380 - 480 VAC supply delivering a Max. Power Consumption of 3700 W and a Max. Current Draw of 5.7 A at a rated speed of 1420 RPM. This High-performance unit achieves a Max. Air Flow of 7466.1 CFM (12685.0 m³/h / 211.42 m³/min) and a Max. Static Pressure of 72.50 mmH₂O (711.0 Pa / 2.85 inAq). Featuring intelligent speed regulation via 0-10V/PWM and RS-485 MODBUS-RTU (V6.3), integrated PI controller, and passive PFC, this 6-blade unit with PP plastic construction is optimized for industrial VFD systems requiring advanced motor protection and massive airflow in a black-painted rotor design at the end.

R3G630-FB32-03 Fan Parameters

Model Number: R3G630-FB32-03

Motor Model: M3G150-IF

Manufacturer: ebmpapst

Type: EC Centrifugal Fan (RadiPac, backward-curved, single-intake, with support bracket)

Impeller Size: 630 mm

Dimensions: 660 x 660 x 405 mm

Weight: 28.6 kg

Bearing Type: Ball bearing

Phase: 3~

Nominal Voltage: 400 VAC

Nominal Voltage Range: 380 - 480 VAC

Frequency: 50 / 60 Hz

Method of Obtaining Data: ml (Max. load)

Max. Current Draw: 5.7 A

Max. Power Consumption: 3700 W

Rated Speed: 1420 RPM

Max. Air Flow: 7466.1 CFM (12685.0 m³/h / 211.42 m³/min)

Max. Static Pressure: 72.50 mmH₂O (711.0 Pa / 2.85 inAq)

Working Air Flow: 12685.0 m³/h

Static Pressure Increase: 711.0 Pa

Efficiency Grade N: 76

Overall Efficiency η s: 71.4%

Control Interface: Control interface with SELV; RS-485 MODBUS-RTU (V6.3)

Output Signal: Alarm relay; Status message via LED; Voltage output 3.3-24 VDC
(P_{max}=800mW)

Number of Blades: 6

Technical Features: Integrated PI controller; Passive PFC; MODBUS V6.3; Soft start; Power limiter; Motor current limitation; Line undervoltage / phase failure detection; Configurable inputs/outputs (I/O)

Motor Protection: Electronic motor protection; Thermal overload protection for electronics/motor

Touch Current (IEC 60990): \leq 3.5 mA

Insulation Class: Class F

Degree of Protection: IP55

Protection Class: I (if protective earth is connected)

Humidity Class: H1 (Moist - occasional or constantly high level of humidity)

Impeller Material: PP plastic

Housing Material: Sheet steel, galvanized (Support plate); Steel, painted black (Support bracket)

Rotor Surface: Painted black

Direction of Rotation: Clockwise (viewed toward rotor)

Installation Position: Shaft horizontal or rotor on bottom; rotor on top on request

Condensation Drainage Holes: On rotor side

Mode: S1

Strength Class of Screws: 8.8

Ambient Temperature (Max.): 45 °C (Transport/Storage: +80 °C)

Min. Operating Temperature: -40 °C (Transport/Storage: -40 °C)

Standard Compliance: EN 61800-5-1; CE; UKCA

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

Application

The ebmpapst R3G630-FB32-03 RadiPac module is the primary cooling component for ultra-large industrial frequency converters and high-efficiency ventilation systems requiring high-

efficiency EC performance, PI control, and integrated MODBUS-RTU communication.

Product Images









Scan for product details:

