

# R3G400-FJ75-01 ebmpapst 400VAC 400mm EC Centrifugal Fan

**SKU:** R3G400-FJ75-01

**Price:** \$1,275.36

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/r3g400-fj75-01-ebmpapst-400vac-400mm-ec-centrifugal-fan/>

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## Product Description

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The ebmpapst R3G400-FJ75-01 is a high-efficiency 380-480 V three-phase GreenTech EC centrifugal fan featuring a 400 mm backward-curved RadiPac impeller made of high-strength PP plastic. Driven by the M3G112-EA external rotor motor, this unit achieves a maximum airflow of 5445 m<sup>3</sup>/h and an outstanding overall efficiency of 70.6%. Designed for intelligent climate control, it integrates an RS-485 Modbus RTU interface, a PID controller, and comprehensive protection features including line undervoltage and phase failure detection. With its IP55-rated die-cast aluminum electronics housing and specialized capability for occasional start-up at temperatures as low as -40 °C, the R3G400-FJ75-01 offers precision speed control and extreme reliability for industrial HVAC systems and demanding refrigeration applications.

R3G400-FJ75-01 Fan Parameters

Model Number: R3G400-FJ75-01

Manufacturer: ebmpapst

Motor Model: M3G112-EA

Series: RadiPac EC Centrifugal Series

Type: EC Centrifugal Fan (Backward-Curved)

Impeller Size: 400 mm

Dimensions: 400 x 400 x 316 mm

Bearing Type: Ball Bearing

Nominal Voltage: 400 VAC

Voltage Range: 380 - 480 VAC

Phase: 3~

Frequency: 50 / 60 Hz

Weight: 14.1 kg

Power Consumption: 1500 W

Nominal Current: 2.3 A

Speed: 2190 RPM (2195 RPM at peak point)

Max. Air Flow: 62.23 CFM (105.7 m<sup>3</sup>/h / 1.76 m<sup>3</sup>/min)

Max. Static Pressure: 9.81 mmH<sub>2</sub>O (96.24 Pa / 0.39 inH<sub>2</sub>O)

Efficiency Grade (N): 79.2

Overall Efficiency ( $\eta_{es}$ ): 70.6%

Motor Design: 3-Phase EC External Rotor Motor

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

Technical Features: Integrated PID controller; Soft start; Motor current limitation; PFC (passive); External 24 V input; 10 VDC output (max. 10 mA); Operation and alarm display; Alarm relay

Motor Protection: Thermal overload protector (TOP) internally connected; Reverse polarity and locked-rotor protection

Insulation Class: Class F

Touch Current:  $\leq 3.5$  mA

Electrical Hookup: Terminal box

Number of Blades: 6

Direction of Rotation: Clockwise, viewed toward rotor

Impeller Material: PP plastic

Electronics Housing Material: Die-cast aluminum

Rotor Surface: Painted black

Installation Position: Shaft horizontal or rotor on bottom

Condensation Drainage: Rotor side holes

Degree of Protection: IP55

Environmental Protection Class: H1

Operating Temperature: -40 - +45 °C (Occasional start-up permitted down to -40 °C)

Standard Compliance: EN 61800-5-1, CE

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

### Application

The ebmpapst R3G400-FJ75-01 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

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Scan for product details:

