

# 8317084876 VMA0500HTRHZ ebmpapst 380-480V 500mm EC Axial Fan

**SKU:** 8317084876

**Price:** \$1,149.94

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/8317084876-vma0500htrhz-ebmpapst-380-480v-500mm-ec-axial-fan/>

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## Product Description

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The ebmpapst VMA0500HTRHZ (8317084876) is a high-efficiency 3-phase EC Axial Fan, specifically optimized for cold storage evaporators and industrial refrigeration. Although it utilizes a 380-480 VAC power supply, it is driven by the advanced GreenTech EC M3G112-EA motor, which converts AC to DC internally for superior speed control and energy efficiency. It delivers a precise operating airflow of 6195 m<sup>3</sup>/h (3646 CFM) at a rated speed of 1600 RPM. With a 960 W power input and an 830 W output, this 11 kg unit outperforms traditional AC fans by providing higher static pressure (0.72 inAq) with significantly lower energy consumption. The integrated IP55 electronics and HyBlade composite impeller make the ebmpapst VMA0500HTRHZ a mission-critical, high-reliability solution for modern 3-phase refrigeration infrastructure and cold chain logistics.

8317084876 VMA0500HTRHZ Fan Parameters

Manufacturer: ebmpapst (Germany)

Model Number: VMA0500HTRHZ

Part Number: 8317084876

Motor Type: M3G112-EA (GreenTech EC 3-Phase)

Type: EC Axial Fan (High-Efficiency Series)

Impeller Size: 500 mm

Dimensions: 500 mm (Diameter) x 192 mm (Axial Depth)

Nominal Voltage: 3~ 380-480 VAC

Frequency: 50 / 60 Hz

Speed: 1600 RPM

Power Input (P1): 960 W

Power Output (P2): 830 W

Rated Current: 1.50 A

Operating Airflow: 6195 m<sup>3</sup>/h (3646 CFM)

Max. Static Pressure: 180 Pa (0.72 inAq)

Noise Level: 71 dB(A)

Weight: 11 kg

Termination: Integrated Terminal Box

Bearing Type: Dual Ball Bearing

Impeller Material: HyBlade (Fiberglass-reinforced composite)

Number of Blades: 5

Direction of Rotation: Clockwise (viewed toward rotor)

Direction of Airflow: "V" (Exhaust over struts)

Degree of Protection: IP55

Insulation Class: F

Controller Features: Integrated EC Controller, 0-10V/PWM Input, Modbus RTU

Motor Protection: Electronic Locked-rotor and Phase-failure protection

Operating Temp. Range: -25 °C to +60 °C

Efficiency Class: ErP 2015 / Exceeds IE4 standards

Approvals: CE, UL, VDE, EAC, CCC

#### Application

The ebmpapst VMA0500HTRHZ (8317084876) is a specialized EC cooling solution for commercial cold storage evaporators and large-scale blast freezers. Its 1600 RPM GreenTech EC motor provides the high-torque performance required to maintain a consistent airflow of 6195 m<sup>3</sup>/h (3646 CFM) even as frost builds up on evaporator coils. Unlike standard AC axial fans, this 11 kg EC model allows for precise speed modulation via 0-10V or Modbus RTU, enabling significant energy savings during low-load periods in the cold chain. The IP55-rated housing and 380-480V 3-phase compatibility make it an ideal drop-in upgrade for legacy AC systems, offering higher reliability, lower heat dissipation from the motor itself, and simplified integration into smart building management systems.

## Product Images

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