

# R4E400-AR05-06 ebmpapst 230V 400mm AC Centrifugal Fan

**SKU:** R4E400-AR05-06

**Price:** \$698.82

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/r4e400-ar05-06-ebmpapst-230v-400mm-ac-centrifugal-fan/>

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## Product Description

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The ebmpapst R4E400-AR05-06 is a heavy-duty single-phase AC centrifugal fan with backward-curved blades, powered by the high-torque M4E094-FA external rotor motor. This 400 mm unit is engineered for high-pressure air displacement, delivering a static efficiency of 43% (reaching a grade of N62 per 2015 standards). Unlike standard plastic models, it features a robust 6-blade impeller constructed from aluminum plate and a black-painted rotor surface, ensuring maximum durability for S1 continuous operation in demanding environments. Optimized for 230 VAC operation, it requires an 8  $\mu$ F capacitor and supports a wide ambient temperature range down to -40 °C. Equipped with premium ball bearings, IP54 protection, and internal thermal overload monitoring via a temperature wire (TW), the R4E400-AR05-06 provides a professional-grade, high-capacity cooling solution for industrial ventilation and HVAC systems.

R4E400-AR05-06 Fan Parameters

Model Number: R4E400-AR05-06

Motor Number: M4E094-FA

Manufacturer: ebmpapst

Type: AC Centrifugal Fan (Backward-curved)

Size: 400 mm

Weight: 7 kg

Bearing Type: Ball bearing

Nominal Voltage: 230 VAC

Voltage Range: 200 - 240 VAC

Phase: 1~

Frequency: 50 / 60 Hz

Power Consumption: 375 W (@ 50 Hz) / 540 W (@ 60 Hz)

Nominal Current: 1.75 A (@ 50 Hz) / 2.4 A (@ 60 Hz)  
Starting Current: 3.7 A (@ 50 Hz) / 3.3 A (@ 60 Hz)  
Required Capacitor: 8  $\mu$ F / 400 VDB (P0)  
Speed: 1355 RPM (@ 50 Hz) / 1480 RPM (@ 60 Hz)  
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)  
Actual Air Flow: 1870 m<sup>3</sup>/h (At optimum point)  
Actual Static Pressure: 300 Pa (At optimum point)  
Efficiency:  $\eta$ es 43% / Efficiency Grade N62  
Motor Design: External rotor motor with black paint  
Motor Protection: Thermal overload protector (TW)  
Insulation Class: Class F  
Moisture/Env. Protection: F4-1  
Electrical Hookup: Variable cable  
Number of Blades: 6  
Direction of Rotation: Clockwise, viewed toward rotor  
Airflow Direction: Radial  
Impeller Material: Aluminum plate  
Installation Position: Any  
Degree of Protection: IP54  
Operating Temperature: -40 - +60 °C (50 Hz) / -40 - +50 °C (60 Hz)  
Mode: S1  
Touch Current:  $\leq$  3.5 mA  
Standard Compliance: EN 60034-1, CE  
Approval Agency: CCC, EAC

#### Application

The ebmpapst R4E400-AR05-06 centrifugal fan is primarily utilized in precision air conditioning units, industrial ventilation systems, air handlers, cleanroom technology, and high-capacity heat exchangers.

## Product Images

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