

# R2E180-AS77-05 ebmpapst 230V 180mm AC Centrifugal Fan

**SKU:** R2E180-AS77-05

**Price:** \$351.41

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/r2e180-as77-05-ebmpapst-230v-180mm-ac-centrifugal-fan/>

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## Product Description

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The ebmpapst R2E180-AS77-05 is a specialized 230 V single-phase AC centrifugal fan featuring a 180 mm backward-curved impeller made of high-grade black PA plastic. Powered by the M2E068-BF external rotor motor, this unit is designed for efficient air displacement in high-pressure systems, delivering a steady speed of 2300 RPM. Engineered for S1 continuous operation, it includes an integrated thermal overload protector and maintenance-free ball bearings to ensure long-term reliability. This compact fan is an ideal thermal management solution for electronic cabinet cooling, ventilation in laboratory equipment, and small-scale HVAC applications, operating effectively within a defined ambient temperature range of -25 °C up to 40 °C.

R2E180-AS77-05 Fan Parameters

Model Number: R2E180-AS77-05

Manufacturer: ebmpapst

Motor Model: M2E068-BF

Series: AC Centrifugal Series

Type: AC Centrifugal Fan (Backward-Curved)

Impeller Size: 180 mm

Dimensions: 180 x 180 x 62 mm

Bearing Type: Ball Bearing

Nominal Voltage: 230 VAC

Voltage Range: 220 - 240 VAC

Phase: 1~

Frequency: 50 / 60 Hz

Weight: 1.37 kg

Input Power: 82 W (50 Hz) / 100 W (60 Hz)  
Nominal Current: 0.36 A (50 Hz) / 0.45 A (60 Hz)  
Speed: 2300 RPM  
Motor Capacitor: 2  $\mu$ F / 450 VDB  
Motor Design: Single-phase External Rotor Motor (PSC)  
Motor Protection: Thermal overload protector (TOP) wired internally  
Insulation Class: Class B  
Touch Current: < 0.75 mA  
Termination: Variable cable  
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 inAq)  
Number of Blades: 16  
Direction of Rotation: Clockwise, seen on rotor  
Mounting Position: Shaft horizontal or rotor on bottom  
Condensate Discharge Holes: Rotor-side  
Mode of Operation: S1 (Continuous operation)  
Impeller Material: PA plastic, black  
Rotor Surface: Coated in black  
Humidity Class: F1-2  
Degree of Protection: IP44  
Operating Temperature: -25 - +40 °C (50 Hz) / -25 - +35 °C (60 Hz)  
Standard Compliance: EN 60335-1, CE  
Approval Agency: CCC, EAC

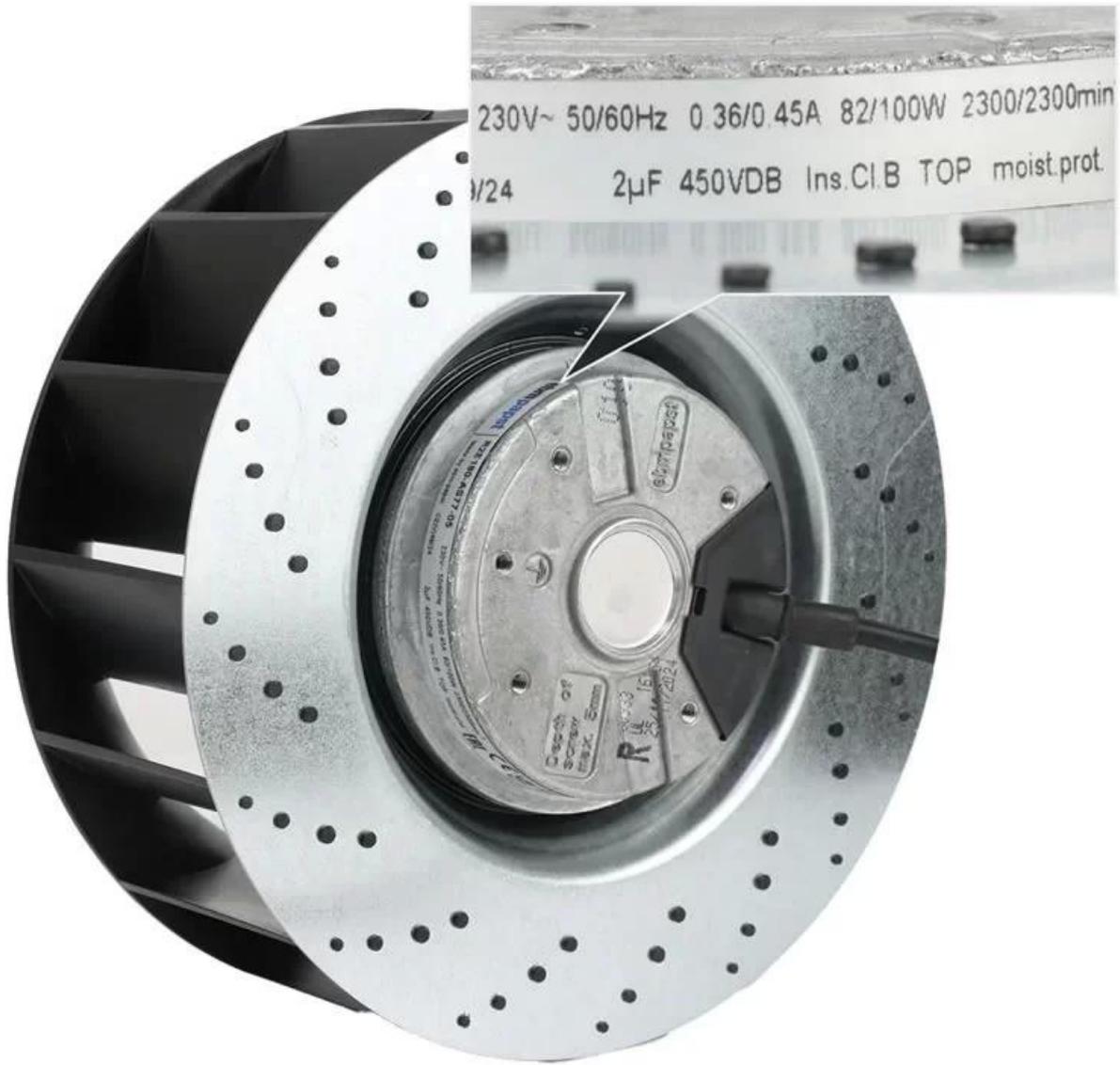
#### Application

The ebmpapst R2E180-AS77-05 centrifugal fan is primarily utilized in electronic cabinet cooling, small air handling units, laboratory equipment ventilation, cleanroom filter units, and compact HVAC systems.

## **Product Images**

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Scan for product details:

