R2E280-AE52-31 ebm-papst 230VAC 280mm Centrifugal Fan Datasheet

Brand: ebmpapst

SKU: 996228882678

Category: Axial & Centrifugal Fans

Price: **$342.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/r2e280-ae52-31-ebm-papst-230vac-280mm-centrifugal-fan

Product Description

The ebm-papst R2E280-AE52-31 is a high-efficiency Centrifugal Fan engineered for critical thermal management in industrial power electronics. Utilizing an advanced M2E068-EC AC motor architecture, this unit features a backward-curved impeller designed to optimize aerodynamic throughput while minimizing acoustic resonance. The assembly is constructed with high-grade composite materials to ensure structural rigidity under continuous load. Equipped with precision-sealed ball bearings, the fan delivers consistent performance and reduced thermal impedance, making it an ideal solution for demanding ventilation requirements where reliability and longevity are paramount.

Model Number: R2E280-AE52-31
Brand: ebm-papst
Product Type: Backward Curved Centrifugal Fan
Rated Voltage: 230 VAC
Frequency: 50 / 60 Hz
Rated Current: 1.00 A
Power Consumption: 225 W
Rated Speed: 2700 RPM
Motor Type: M2E068-EC
Bearing Type: Ball Bearing

Max. Air Flow: 1241.9 CFM (2110 m^3/h / 35.16 m^3/min)
Max. Static Pressure: 59.15 mmH_2O (580 Pa / 2.33 inH_2O)
Impeller Diameter: 280mm
Weight: 3.0 kg
Capacitor: 7 µF / 400 VDB
Insulation Class: F
Ingress Protection: IP44
Impeller Material: PA Plastic (Glass-fiber reinforced)
Housing Material: Galvanized Sheet Steel
Direction of Rotation: Clockwise, seen on rotor
Motor Protection: Thermal Overload Protector (TOP) wired internally
Operating Temperature: -25°C to +60°C
Mounting Orientation: Any
Compliance: CE, CCC, VDE
Application: Vacon Inverter Spare Part

This cooling module is specifically calibrated for integration into high-power drive systems, including Vacon frequency inverters and industrial automation cabinets. The R2E280-AE52-31 ensures optimal heat dissipation for sensitive electronic components found in renewable energy converters, HVAC control systems, and large-scale server infrastructure. By maintaining stable operating temperatures, the R2E280-AE52-31 prevents thermal throttling and extends the operational lifecycle of mission-critical power conversion equipment.

Supplemental Images


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R2E280-AE52-17