R2S175-AB56-01 ebm-papst 230VAC 175mm Centrifugal Fan Datasheet

Brand: ebmpapst

SKU: 803202716921

Category: Axial & Centrifugal Fans

Price: **$214.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/r2s175-ab56-01-ebm-papst-230vac-175mm-centrifugal-fan

Product Description

The ebm-papst R2S175-AB56-01 is a precision-engineered backward curved centrifugal fan designed for high-efficiency thermal management in compact industrial environments. This motorized impeller features an external rotor AC motor integrated directly into the impeller hub, optimizing compactness and aerodynamic performance. Constructed with high-grade fiberglass-reinforced plastic (PA6.6), the unit ensures structural rigidity and reduced rotational mass for rapid acceleration. The system utilizes maintenance-free ball bearings to minimize friction and extend operational lifespan under continuous load. Its advanced blade geometry reduces turbulence, lowering the noise floor while maintaining significant static pressure capabilities suitable for restrictive airflow environments, ensuring optimal thermal impedance reduction.

Model Number: R2S175-AB56-01
Brand: ebm-papst
Product Type: Backward Curved Centrifugal Fan
Motor Type: M2S052-CA External Rotor AC
Rated Voltage: 230 VAC
Frequency: 50 / 60 Hz
Rated Current: 0.22 / 0.19 A
Power Input: 34 / 33 W
Rated Speed: 2350 / 2450 RPM

Max. Air Flow: 341.3 CFM (580 m^3/h)
Max. Static Pressure: 36.7 mmH_2O (360 Pa)
Impeller Diameter: 175 mm
Bearing Type: Ball Bearing
Material Impeller: PA Plastic (Fiberglass-reinforced)
Direction of Rotation: Clockwise (viewed toward rotor)
Insulation Class: B
Motor Protection: Thermal Overload Protector (TOP) wired internally
Operating Temperature: -25 °C to +55 °C
Mounting Position: Any
Weight: 0.9 kg
Capacitor: 1.0 µF / 400 VDB (Required)
Ingress Protection: IP20
Compliance: CE, VDE, CCC

The R2S175-AB56-01 is engineered for applications requiring high static pressure and compact integration, such as cabinet cooling and ventilation systems. Frequently utilized in telecommunications infrastructure, the R2S175-AB56-01 ensures reliable thermal regulation for sensitive electronic components. It is also widely deployed in heat exchangers, air filtration units, and industrial control panels where space is at a premium but airflow cannot be compromised. The robust design makes it suitable for continuous operation in server racks, medical diagnostic equipment, and cleanroom filtration modules.

Supplemental Images