

R4D500-FA03-01 ebmpapst 230/400VAC 500mm Centrifugal Fan Datasheet



Brand: ebmpapst

SKU: 912253011718

Category: Axial & Centrifugal Fans

Price: \$728.57

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

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Product Description

The ebmpapst R4D500-FA03-01 is a high-efficiency backward curved centrifugal fan designed for demanding industrial ventilation requirements. This motorized impeller integrates a robust 3-phase AC motor with precision-engineered aluminum blades to maximize aerodynamic efficiency and static pressure generation. Featuring a durable ball bearing architecture, the unit ensures exceptional structural rigidity and extended service life under continuous duty cycles. The design prioritizes low thermal impedance and vibration minimization, making it an ideal solution for systems requiring reliable high-volume air movement and rigorous thermal regulation.

Model Number: R4D500-FA03-01

Brand: ebmpapst

Product Type: Backward Curved Centrifugal Fan

Rated Voltage: 230/400 VAC

Frequency: 50/60 Hz

Phase: 3-Phase

Power Consumption: 1270 W / 1900 W

Current Draw: 4.20 A / 2.41 A

Rated Speed: 1390 RPM

Impeller Diameter: 500mm

Bearing Type: Ball Bearing

Max. Air Flow: 5600 m³/h (3296 CFM)

Max. Static Pressure: 750 Pa (3.01 inH₂O)

Material Impeller: Sheet aluminum, welded

Direction of Rotation: Clockwise, seen on rotor

Ingress Protection: IP54

Insulation Class: F

Motor Protection: Thermal Overload Protector (TOP) wired internally

Operating Temperature: -25°C to +65°C

Mounting Position: Shaft horizontal or rotor on bottom; rotor on top on request

Weight: 14.5 kg

Compliance: CE, CCC

The R4D500-FA03-01 is specifically optimized for large-scale air handling units and industrial process ventilation where reliability is paramount. Frequently integrated into rooftop extraction systems, cleanroom filtration modules, and heavy-duty electronics cooling, this fan delivers consistent performance in variable environmental conditions. The R4D500-FA03-01 ensures optimal thermal management for telecommunications infrastructure and manufacturing machinery, preventing overheating in critical operational zones.

Supplemental Images

