

R4D500-RA03-01 ebmpapst 230/400V AC Centrifugal Fan

SKU: R4D500-RA03-01

Price: \$444.06

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/r4d500-ra03-01-ebmpapst-230-400v-ac-centrifugal-fan/>

Product Description

The ebmpapst R4D500-RA03-01 is a powerful AC centrifugal fan with an external rotor motor, measuring Ø500mm in size. This 3-phase fan operates at 50Hz and supports dual nominal voltages: 230VAC (Delta wiring) and 400VAC (Y wiring). At both 230VAC and 400VAC, it achieves a consistent speed of 1370RPM and consumes 1520W of power. The current draw is 5.04A at 230VAC and 2.91A at 400VAC. The fan features ball bearings and has a mass of 21.5kg. Its impeller is made of PP plastic, and the rotor surface is cast in aluminum. It has 7 blades and a clockwise direction of rotation when viewed toward the rotor. The R4D500-RA03-01 boasts an IP54 degree of protection, insulation class "F", and H2 moisture/environmental protection class. It includes a thermal overload protector (TOP) with basic insulation for motor protection and connects via a lateral cable. This fan operates in S1 mode and is suitable for installation in any position. It features condensation drainage holes on both rotor and stator sides. Operating reliably within an ambient temperature range of -40°C to 55°C, with occasional start-up down to -40°C permitted, and transport/storage temperatures between -40°C and +80°C. Conforming to EN 60034-1 (2010) and holding VDE and EAC approvals, it is an ideal solution for industrial ventilation systems, air handling units, heating, cooling applications, and refrigeration systems.

R4D500-RA03-01 Fan Parameters

Model: R4D500-RA03-01

Manufacturer: ebmpapst

Type: AC centrifugal fan

Motor: M4D138-HF

Dimensions (Size): Ø 500 mm

Motor size: 138

Phase: 3~

Nominal Voltage: 230 / 400 V AC

Wiring: Delta (230V), Y (400V)

Frequency: 50 Hz

Rated Current (230V): 5.04 A

Rated Current (400V): 2.91 A

Power Consumption (230V): 1520 W

Power Consumption (400V): 1520 W

Speed (230V): 1370 RPM

Speed (400V): 1370 RPM

Min. back pressure: 0 Pa

Min. back pressure: 0 in. wg

Rotor surface: Cast in aluminum

Impeller material: PP plastic

Number of blades: 7

Direction of rotation: Clockwise, viewed toward rotor

Degree of protection: IP54

Insulation class: "F"

Moisture (F) / Environmental (H) protection class: H2

Min. ambient temperature: -40 °C

Max. ambient temperature: 55 °C

Max. permitted ambient temp. for motor (transport/storage): +80 °C

Min. permitted ambient temp. for motor (transport/storage): -40 °C

Ambient temperature note: Occasional start-up at temperatures between -40°C and -25°C is permitted. For continuous operation at ambient temperatures below -25°C (such as refrigeration applications), use must be made of a fan design with special low-temperature bearings.

Installation position: Any

Condensation drainage holes: On rotor and stator sides

Mode: S1

Motor bearing: Ball bearing

Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system): ≤ 3.5 mA

Motor protection: Thermal overload protector (TOP) with basic insulation

With cable: Lateral

Protection class: I (with customer connection of protective earth)

Conformity with standards: EN 60034-1 (2010); CE

Approval: VDE, EAC

Weight: 21.5 kg

Application: Industrial refrigeration and freezing equipment, ventilation systems, air conditioning units, and heat pumps.

Product Images







Scan for product details:

