

R4D500-AT03-08 ebmpapst 400V 500mm AC Centrifugal Fan

SKU: R4D500-AT03-08

Price: \$494.89

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/r4d500-at03-08-ebmpapst-400v-500mm-ac-centrifugal-fan/>

Product Description

The ebmpapst R4D500-AT03-08 is a high-performance 400VAC AC Centrifugal Fan featuring a backward-curved, single-intake impeller, specifically engineered for mission-critical cooling in Industrial Frequency Converters and large-scale ventilation systems. Driven by a 3-phase 4-pole M4D138-HF external rotor motor with maintenance-free ball bearings, this 22.3 kg unit operates on a 400 VAC supply delivering a Max. Power Consumption of 1430 / 2250 W and a Max. Current Draw of 3.0 / 3.88 A at a rated speed of 1375 / 1550 RPM. This High-performance unit achieves a Max. Air Flow of 4414.3 / 4944.1 CFM (7500.0 / 8400.0 m³/h / 125.00 / 140.00 m³/min) and a Max. Static Pressure of 54.04 / 68.32 mmH₂O (530.0 / 670.0 Pa / 2.13 / 2.74 inAq). Featuring integrated thermal overload protection and Class F insulation, this 9-blade unit with sheet aluminum construction is optimized for industrial VFD systems requiring massive airflow and robust static pressure in any installation position at the end.

R4D500-AT03-08 Fan Parameters

Model Number: R4D500-AT03-08

Motor Model: M4D138-HF

Manufacturer: ebmpapst

Type: AC Centrifugal Fan (Backward-curved, single-intake)

Impeller Size: 500 mm

Dimensions: 505 x 505 x 249 mm

Weight: 22.3 kg

Bearing Type: Ball bearing

Phase: 3~

Nominal Voltage: 400 VAC

Wiring: Y (Star)

Frequency: 50 / 60 Hz

Method of Obtaining Data: ml (Max. load)

Max. Current Draw: 3.0 / 3.88 A

Max. Power Consumption: 1430 / 2250 W

Rated Speed: 1375 / 1550 RPM

Max. Safe Operating Speed: 1900 / 1900 RPM

Max. Air Flow: 4414.3 / 4944.1 CFM (7500.0 / 8400.0 m³/h / 125.00 / 140.00 m³/min)

Max. Static Pressure: 54.04 / 68.32 mmH₂O (530.0 / 670.0 Pa / 2.13 / 2.74 inAq)

Working Air Flow: 7500.0 / 8400.0 m³/h

Static Pressure Increase: 530.0 / 670.0 Pa

Starting Current: 14.0 / 12.0 A

Number of Blades: 9

Touch Current (IEC 60990): <= 3.5 mA

Motor Protection: Thermal overload protector (TOP) internally connected

Insulation Class: Class F

Degree of Protection: IP20

Environmental Protection Class: F0

Impeller Material: Sheet aluminum

Rotor Surface: Cast in aluminum

Direction of Rotation: Clockwise (viewed toward rotor)

Installation Position: Any

Mode: S1 (Continuous operation)

Ambient Temperature (Max.): 80 / 45 °C

Min. Operating Temperature: -40 °C

Standard Compliance: EN 61800-5-1; EN 60034; CE; EAC

Application

The ebmpapst R4D500-AT03-08 centrifugal fan is the primary cooling component for industrial frequency converters and high-capacity air handling units requiring massive 3-phase AC airflow performance.

Product Images









Scan for product details:

