

W4E400-CP02-31 ebmpapst 230VAC 400mm AC Axial Fan

SKU: W4E400-CP02-31

Price: \$549.40

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/w4e400-cp02-31-ebmpapst-230vac-400mm-ac-axial-fan/>

Product Description

The ebmpapst W4E400-CP02-31 is a high-performance 230VAC single-phase AC Axial Fan unit from the S-series, featuring 5 sickle-shaped sheet steel blades with an Impeller Size of 400 mm and a round full nozzle. Specifically engineered for mission-critical industrial refrigeration and HVAC systems, this 400 mm unit is driven by the M4E074-EI external rotor motor with maintenance-free ball bearings and a 6.0 μ F / 400 VDB capacitor connection. Operating on a 230 VAC supply, it delivers a Power Consumption of 160 W (50 Hz) / 240 W (60 Hz) and a Current Draw of 0.73 A / 1.06 A at a rated speed of 1430 / 1700 RPM under free air (fa) conditions. Featuring a rugged pre-galvanized sheet steel housing coated with black plastic and H1 moisture protection, it ensures superior thermal management with IP44 protection and an extended service life in continuous S1 environments at the end.

W4E400-CP02-31 Fan Parameters

Model Number: W4E400-CP02-31

Motor Model: M4E074-EI

Manufacturer: ebmpapst

Type: AC Axial Fan - Sickle-shaped blades (S series)

Impeller Size: 400 mm

Dimensions: 528 x 528 x 153 mm (with round full nozzle)

Weight: 8.01 kg

Bearing Type: Ball bearing

Nominal Voltage: 230 VAC

Phase: 1~

Frequency: 50 / 60 Hz

Method of Obtaining Data: fa (Free air)

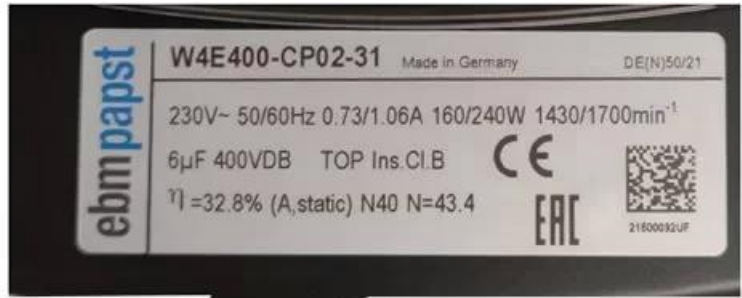
Current Draw: 0.73 / 1.06 A
Starting Current: 2.0 / 1.9 A
Power Consumption: 160 / 240 W
Rated Speed: 1430 / 1700 RPM
Max. Air Flow: 2207.2 / 2472.0 CFM (3750.0 / 4200.0 m³/h / 62.50 / 70.00 m³/min)
Max. Static Pressure: 11.22 / 7.65 mmH₂O (110.0 / 75.0 Pa / 0.44 / 0.30 inAq)
Overall Efficiency (η_{es}): 31.9% (50 Hz) / 29.3% (60 Hz)
Efficiency Grade: N 42.6 (50 Hz) / N 40 (60 Hz)
Capacitor: 6.0 μ F / 400 VDB
Number of Blades: 5
Impeller Material: Sheet steel, painted black
Housing Material: Sheet steel, pre-galvanized and coated with black plastic
Guard Grille Material: Steel, phosphated and coated in black plastic
Direction of Airflow: "A"
Direction of Rotation: Clockwise (viewed toward rotor)
Insulation Class: "B"
Degree of Protection: IP44
Environmental Protection Class: H1
Touch Current: < 0.75 mA
Motor Protection: Thermal overload protector (TOP) internally connected
Condensation Drainage Holes: On rotor side
Installation Position: Shaft horizontal or rotor on bottom
Mode: S1
Protection Class: I
Max. Ambient Temperature: 40 / 40 °C
Min. Ambient Temperature: -25 °C
Max. Storage Temperature: +80 °C
Min. Storage Temperature: -40 °C
Standard Compliance: EN 60335-1; CE; ErP 2015
Approval: CCC; EAC

Application

The ebmpapst W4E400-CP02-31 fan is the primary cooling component for industrial refrigeration condensers, heat exchangers, and air conditioning units requiring high-volume 230V single-phase axial airflow with a 400mm round nozzle configuration.

Product Images







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