

# D2E146-CD51-23 ebmpapst 230V 146mm AC Centrifugal Fan

**SKU:** D2E146-CD51-23

**Price:** \$731.19

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/d2e146-cd51-23-ebmpapst-230v-146mm-ac-centrifugal-fan/>

---

## Product Description

---

The ebmpapst D2E146-CD51-23 is a robust 230 V single-phase AC dual-inlet centrifugal fan featuring a 146 mm forward-curved galvanized steel impeller integrated into a heavy-duty scroll housing. Driven by the M2E068-DF external rotor motor, this unit is engineered for high-performance air displacement in industrial environments, delivering a powerful airflow at 1850 RPM with a power consumption of 230 W. The design utilizes a Class F insulated motor with internal thermal overload protection and premium ball bearings for reliable S1 continuous duty. Optimized for high-resistance systems, it requires a minimum back pressure of 200 Pa to ensure optimal operational stability. This compact, all-metal air-moving solution is ideal for air conditioning units, laboratory fume hoods, and electronic cabinet cooling across an ambient temperature range of -25 °C to 50 °C.

D2E146-CD51-23 Fan Parameters

Model Number: D2E146-CD51-23

Manufacturer: ebmpapst

Motor Model: M2E068-DF

Series: AC Centrifugal Series

Type: AC Centrifugal Fan (Dual-Inlet with Scroll Housing)

Size: 146 mm

Dimensions: 206 x 219 x 193 mm (Approximate housing size)

Bearing Type: Ball Bearing

Nominal Voltage: 230 VAC

Voltage Range: 220 - 240 VAC

Phase: 1~

Frequency: 50 Hz

Weight: 3.86 kg

Power Consumption: 230 W

Nominal Current: 1.01 A

Speed: 1850 RPM

Required Capacitor: 4  $\mu$ F / 450 VDB (S2 standard)

Min. Back Pressure: 200 Pa

Motor Design: Single-phase External Rotor Motor (PSC)

Motor Protection: Thermal overload protector (TOP) internally connected

Insulation Class: Class F

Touch Current: < 0.75 mA

Electrical Hookup: Axial cable

Number of Blades: 42 (Forward-curved)

Direction of Rotation: Counter-clockwise, viewed toward rotor

Impeller Material: Sheet steel, galvanized

Housing Material: Sheet steel, galvanized

Rotor Surface: Unpainted

Installation Position: Any

Condensate Discharge Holes: None

Degree of Protection: IP44

Environmental Protection Class: H0 (Dry environment)

Operating Temperature: -25 - +50 °C

Standard Compliance: EN 60335-1

Approval Agency: CCC, EAC

#### Application

The ebmpapst D2E146-CD51-23 centrifugal fan is primarily utilized in air conditioning units, electronic cabinet cooling, fume hood ventilation, laboratory equipment cooling, and small air handling systems.

## **Product Images**

---







---

Scan for product details:

