

A6D800-AE05-03 ebmpapst 230/400V 800mm AC Axial Fan

SKU: A6D800-AE05-03

Price: \$749.24

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/a6d800-ae05-03-ebmpapst-230-400v-800mm-ac-axial-fan/>

Product Description

The ebmpapst A6D800-AE05-03 is a high-performance 230/277/400/480 VAC AC Axial Fan with an impeller size of 800 mm, specifically engineered for demanding thermal management in industrial frequency converters and electrical control cabinets. Driven by a robust three-phase M6D138-LA external rotor motor with a maximum power input of 2180 W at 480 VAC/60 Hz, this precision unit operates at a maximum speed of 1080 RPM, delivering a massive airflow for efficient heat extraction. Constructed with a 5-blade HyBlade® technology impeller system featuring an aluminum sheet insert sprayed with PP plastic and a -5° blade angle, high-precision ball bearings, and a PC/ABS plastic terminal box, this 24.2 kg unit provides a dependable and energy-efficient air-moving solution with a static efficiency of 37.4% and IP54 protection, ensuring maximum cooling performance and long-term mechanical stability with an axial cable exit and thermal overload protection brought out for high-power inverters, variable frequency drives (VFD), and integrated electrical switchgear systems at the end.

A6D800-AE05-03 Fan Parameters

Model Number: A6D800-AE05-03

Manufacturer: ebmpapst

Motor Model: M6D138-LA

Series: A6D 800 Series (HyBlade®)

Type: AC Axial Fan

Impeller Size: 800 mm

Weight: 24.2 kg

Bearing Type: Ball bearing

Nominal Voltage: 230 / 277 / 400 / 480 VAC (3-phase)

Wiring: Δ (230/277V) / Y (400/480V) connection

Frequency: 50 / 60 Hz

Power Input: 1570 W (400V/50Hz) / 1990 W (400V/60Hz) / 2180 W (480V/60Hz)

Current Draw: 3.42 A (400V/50Hz) / 3.78 A (400V/60Hz) / 3.8 A (480V/60Hz)

Starting Current: 13.0 A (400V/50Hz) / 11.0 A (400V/60Hz) / 14.0 A (480V/60Hz)

Speed: 905 RPM (50Hz) / 1030 RPM (60Hz) / 1080 RPM (480V/60Hz)

Max. Back Pressure: 170 Pa (50Hz) / 135 Pa (60Hz/400V) / 150 Pa (60Hz/480V)

Max. Air Flow: 62.23 CFM (105.7 m³/h / 1.76 m³/min)

Actual Air Flow: 14570.0 m³/h

Pressure Increase: 128 Pa

Overall Efficiency (η_{es}): 37.4%

Efficiency Grade: N 42.8

Specific Ratio: 1.00

Measurement Category: A

Efficiency Category: Static

Variable Speed Drive: No

Motor Protection: Thermal overload protector (TOP) brought out

Insulation Class: Class F

Humidity Class: F3-1

Electrical Hookup: Terminal box (PC / ABS plastic)

Cable Exit: Axial

Number of Blades: 5

Blade Angle: -5°

Direction of Rotation: Clockwise, viewed toward rotor

Airflow Direction: "V" (Exhaust over struts)

Impeller Material: Aluminium sheet insert, sprayed with PP plastic

Rotor Surface: Cast in aluminium

Condensate Discharge Holes: On rotor and stator sides

Operation Mode: S1

Touch Current (IEC 60990): ≤ 3.5 mA

Operating Temperature: -40 - +65 °C (50Hz) / -40 - +60 °C (60Hz)

Storage Temperature: -40 - +80 °C

Degree of Protection: IP54

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

Approval Agency: UL 1004-1; CSA C22.2 Nr.100

Application

The ebmpapst A6D800-AE05-03 AC fan is primarily utilized in industrial frequency converters, power inverters, and electrical control cabinet heat dissipation systems.

Product Images









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