



## **A4D300-AS34-14 ebmpapst**

Brand: ebmpapst

SKU: A4D300-AS34-14

Category: AC Fans

URL: <https://www.fansco.com/item/a4d300-as34-14-ebmpapst/>

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### **| Product Description**

The **ebmpapst A4D300-AS34-14** is a high-performance, industrial-grade AC axial fan

engineered for heavy-duty thermal management and ventilation applications. Belonging to the renowned ebm-papst S-Series, this 300mm circular fan features a robust 5-blade sheet steel impeller directly welded onto a 3-phase external rotor motor.

Designed for high-volume airflow with low backpressure, the A4D300-AS34-14 delivers reliable cooling under demanding environmental conditions. With a multi-voltage rating spanning 400VAC to 480VAC at 50/60Hz, it is an ideal solution for international industrial machinery, control cabinets, heat exchangers, and HVAC condensation units.

Key Technical Specifications Manufacturer ebmpapst Part Number A4D300-AS34-14 Fan Type AC Axial Fan (S-Series) Impeller Diameter 300 mm External Depth 72.5 mm Frame Shape Circular (Without guard grille / wall ring) Nominal Voltage 400VAC / 440VAC / 460VAC / 480VAC (3-Phase) Frequency 50 / 60 Hz Power Consumption 68W to 105W (Depending on voltage and frequency load) Rated Current 0.15A – 0.16A / 160mA Max Speed Up to 1510 RPM Airflow Capacity 591.5 CFM to 1177.1 CFM (16.75 m<sup>3</sup>/min to 33.33 m<sup>3</sup>/min) Static Pressure Up to 80 Pa (0.321 in H<sub>2</sub>O) Bearing Type Dual Ball Bearings (Maintenance-free) Ingress Protection IP44 rated (Protection against splashing water and solid objects >1mm) Electrical Connection 4-Wire Leads Operating Temperature -25°C to +55°C (-13°F to +131°F) Approvals & Certifications CE Compliant, RoHS certified, No SVHC (as of June 2023) Engineered Benefits & Commercial Advantages

#### 1. External Rotor Motor Technology

Unlike conventional internal rotor designs, the A4D300-AS34-14 utilizes ebm-papst's signature external rotor architecture. By integrating the motor directly into the axial impeller hub, the fan achieves an extremely compact axial depth (only 72.5mm). This space-saving profile simplifies integration into low-clearance equipment housing and server racks.

#### 2. Rugged Industrial Build & IP44 Protection

Built to withstand harsh environments, the fan blades are constructed from premium sheet steel, coated in black to resist corrosion and moisture. Equipped with an IP44 rating and high-end dual ball bearings, it ensures consistent operation even in dusty or humid enclosures, minimizing downtime and extending service life.

#### 3. Global Voltage Compatibility

Operating on a wide 3-phase AC range (400V to 480V), this model eliminates the need for localized voltage transformers. Whether your equipment is deployed in the European Union (400V) or North America (460V/480V), the A4D300-AS34-14 provides seamless drop-in compatibility for global machine builders.

#### 4. Optimized Aerodynamics for Acoustic Efficiency

The sickle-shaped 5-blade profile is mathematically optimized to maximize volumetric airflow while neutralizing structural turbulence. This allows the fan to deliver up to 1177 CFM of cooling air without generating the high-frequency acoustic noise typically associated with high-capacity industrial blowers.

#### Common Applications

- **Industrial Enclosures & Control Cabinets:** Thermal regulation for high-power

electronics, VFDs, and switchgears.

- **HVAC & Refrigeration:** Condenser cooling, air conditioning units, and commercial heat exchangers.
- **Renewable Energy Systems:** Ventilation and cooling modules for wind turbine nacelles and solar inverters.
- **Machinery Cooling:** Heat dissipation for industrial welding stations, lasers, and injection molding machinery.

## Technical Specifications

Attribute	Value
Part Number	A4D300-AS34-14
Manufacturer	ebm-papst
Fan Type	AC
Series	A4D300