

A2D170-AA04-02

Generic A2D170-AA04-02 Axial Cooling Fan Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of the Generic A2D170-AA04-02 Axial Cooling Fan. This fan is designed for various industrial applications requiring ventilation and heat dissipation, including integration with inverters and motor systems. Please read this manual thoroughly before installation and operation.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the product:

- Ensure all power is disconnected before installation, maintenance, or troubleshooting.
- Installation should be performed by qualified personnel familiar with electrical systems and fan installation procedures.
- Verify that the supply voltage and frequency match the fan's specifications (230V AC, 50-60Hz).
- Do not operate the fan if any part is damaged or if the wiring is exposed.
- Keep hands and foreign objects away from moving blades during operation.
- Ensure proper grounding to prevent electrical shock.

3. PRODUCT OVERVIEW

The A2D170-AA04-02 is an axial cooling fan designed for robust performance in industrial environments. It features a durable plastic blade material and a ball bearing system for reliable operation.

Key Features:

- **Model:** A2D170-AA04-02
- **Type:** Axial Cooling Fan
- **Electric Current Type:** AC
- **Blade Material:** Plastic
- **Bearing Type:** Ball Bearing
- **Voltage:** 230V
- **Power Consumption:** 45W
- **Speed:** 2750 RPM

- **Current:** 0.13A
- **Frequency:** 50~60Hz
- **Compatible Devices:** Inverter, Motor Systems



Figure 1: Close-up of the fan's motor hub with specifications.



Figure 2: Angled front view of the axial fan.

4. SETUP AND INSTALLATION

Proper installation is crucial for the fan's performance and longevity. Follow these general guidelines:

1. **Mounting:** Securely mount the fan in the desired location using appropriate fasteners. Ensure there is adequate clearance for airflow on both intake and exhaust sides.
2. **Wiring:** Connect the fan's electrical wires to the power supply according to local electrical codes and the fan's specifications. Ensure correct voltage and frequency. The fan operates on 230V AC.
3. **Grounding:** Properly ground the fan to prevent electrical hazards.
4. **Testing:** After installation, perform a brief test run to ensure the fan operates smoothly and quietly, and that airflow is in the correct direction.



Figure 3: Detailed view of the fan's front and wiring.



Figure 4: Side view illustrating wiring connections.

5. OPERATING INSTRUCTIONS

Once properly installed and connected to the power supply, the A2D170-AA04-02 axial fan is designed for continuous operation. No specific user controls are typically present on the fan itself; operation is generally controlled by the system it is integrated into (e.g., inverter, motor control unit).

- Ensure the fan is receiving the correct voltage (230V AC) and frequency (50-60Hz).
- Monitor for unusual noises or vibrations during initial operation, which may indicate an installation issue.
- Verify that the fan is moving air effectively in the intended direction for cooling.

6. MAINTENANCE

Regular maintenance helps ensure optimal performance and extends the lifespan of the fan.

- **Cleaning:** Periodically inspect the fan blades and housing for dust and debris accumulation. Clean with a soft

brush or compressed air. Ensure power is disconnected before cleaning.

- **Inspection:** Check for any signs of wear, damage, or loose connections. Pay attention to the wiring and mounting points.
- **Bearing:** The ball bearings are typically sealed and require no lubrication. If unusual noise or resistance is detected, the fan may require replacement.



Figure 5: Rear view of the axial fan.



Figure 6: Angled rear view of the axial fan.

7. TROUBLESHOOTING

If the fan is not operating as expected, consider the following common issues:

- **Fan Not Running:**

- Check power supply: Ensure the fan is receiving 230V AC.
- Check wiring: Verify all connections are secure and correct.
- Inspect for obstructions: Ensure nothing is blocking the fan blades.

- **Reduced Airflow:**

- Clean blades and housing: Remove any dust or debris.
- Check for obstructions: Ensure intake and exhaust paths are clear.

- **Unusual Noise or Vibration:**

- Check mounting: Ensure the fan is securely mounted and not vibrating against its enclosure.
- Inspect blades: Look for any damage or imbalance in the blades.
- Bearing issue: If noise persists, the bearing may be worn, indicating a need for replacement.

For issues not resolved by these steps, contact technical support.

8. SPECIFICATIONS

Parameter	Value
Model	A2D170-AA04-02
Brand	Generic
Type	Axial Cooling Fan
Electric Current Type	AC
Voltage	230V
Frequency	50~60Hz
Power Consumption	45W
Current	0.13A
Speed	2750 RPM
Blade Material	Plastic
Bearing Type	Ball Bearing
Cooling Method	Air
Compatible Devices	Inverter
UPC	768681196619
Manufacturer	CY



Figure 7: General view of the axial fan.



Figure 8: Side profile of the axial fan.

9. WARRANTY AND SUPPORT

This product is supplied new and fully tested. For specific warranty details, please refer to the terms provided at the point of purchase or contact your vendor.

For technical assistance or inquiries, online support is available. Please contact the seller or manufacturer for further information.

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