



[Manuals.plus](#) /

> [Cuilvu](#) /

> Cuilvu 5 HP SPL Air Compressor Motor 3450RPM Single Phase Electric Motor Instruction Manual

Cuilvu 108065-5334-1408179171

Cuilvu 5 HP SPL Air Compressor Motor Instruction Manual

Model: 108065-5334-1408179171

1. PRODUCT OVERVIEW

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Cuilvu 5 HP SPL Air Compressor Motor. Please read this manual thoroughly before use and retain it for future reference.



Image 1.1: Front view of the Cuilvu 5 HP SPL Air Compressor Motor, highlighting the 5 HP SPL rating.

Key Features:

- **Horsepower:** 5 SPL
- **RPM:** 3450
- **Phase:** Single Phase
- **Frame:** 56
- **Voltage:** 208-230V
- **Shaft Diameter:** 5/8"
- **Enclosure:** Open Drip-Proof (ODP)
- **Rotation:** Counter-Clockwise (CCW)
- **Housing Material:** Rolled Steel Shell

2. SAFETY INFORMATION

Always prioritize safety when working with electrical equipment. Failure to follow these safety guidelines may result in serious injury or property damage.

- **Electrical Hazard:** Ensure all power is disconnected at the source before installation, maintenance, or troubleshooting. Only qualified personnel should perform electrical wiring.
- **Grounding:** The motor must be properly grounded to prevent electrical shock.
- **Ventilation:** As an Open Drip-Proof (ODP) motor, it is designed for use in relatively clean and dry environments. Do not expose to excessive moisture or dust.
- **Overload Protection:** This motor is equipped with a protector. Ensure the circuit breaker current is appropriate for the motor's rated current (16.0-15.0A) to prevent overload.
- **Personal Protective Equipment (PPE):** Wear safety glasses, gloves, and other appropriate PPE during installation and operation.
- **Shaft Rotation:** The motor has a Counter-Clockwise (CCW) rotation. Verify this matches your application requirements.

3. SETUP AND INSTALLATION

3.1 Unboxing and Inspection

Carefully unpack the motor from its wooden case. Inspect the motor for any signs of shipping damage. Ensure all components listed in the 'What's in the Box' section are present and undamaged. The motor should have a smooth surface and no visible damage.

Your browser does not support the video tag.

Video 3.1: Unboxing and initial inspection of the Cuilvu Electric Motor. This video demonstrates how to safely unpack the motor from its wooden case and check for any damage.



Image 3.1: Detailed views of the motor, including the junction box and shaft, for inspection.

3.2 Mounting

Mount the motor securely to a stable, level surface using appropriate fasteners. Ensure there is adequate clearance for ventilation and access for maintenance.

3.3 Electrical Wiring

Before wiring, ensure the power supply matches the motor's voltage requirements (208-230V). Open the motor junction box and refer to the wiring diagram located on the motor's nameplate for correct connections. Match the corresponding numbers on the wires to the diagram to ensure proper connection and rotation (CCW).

Rolled steel shell

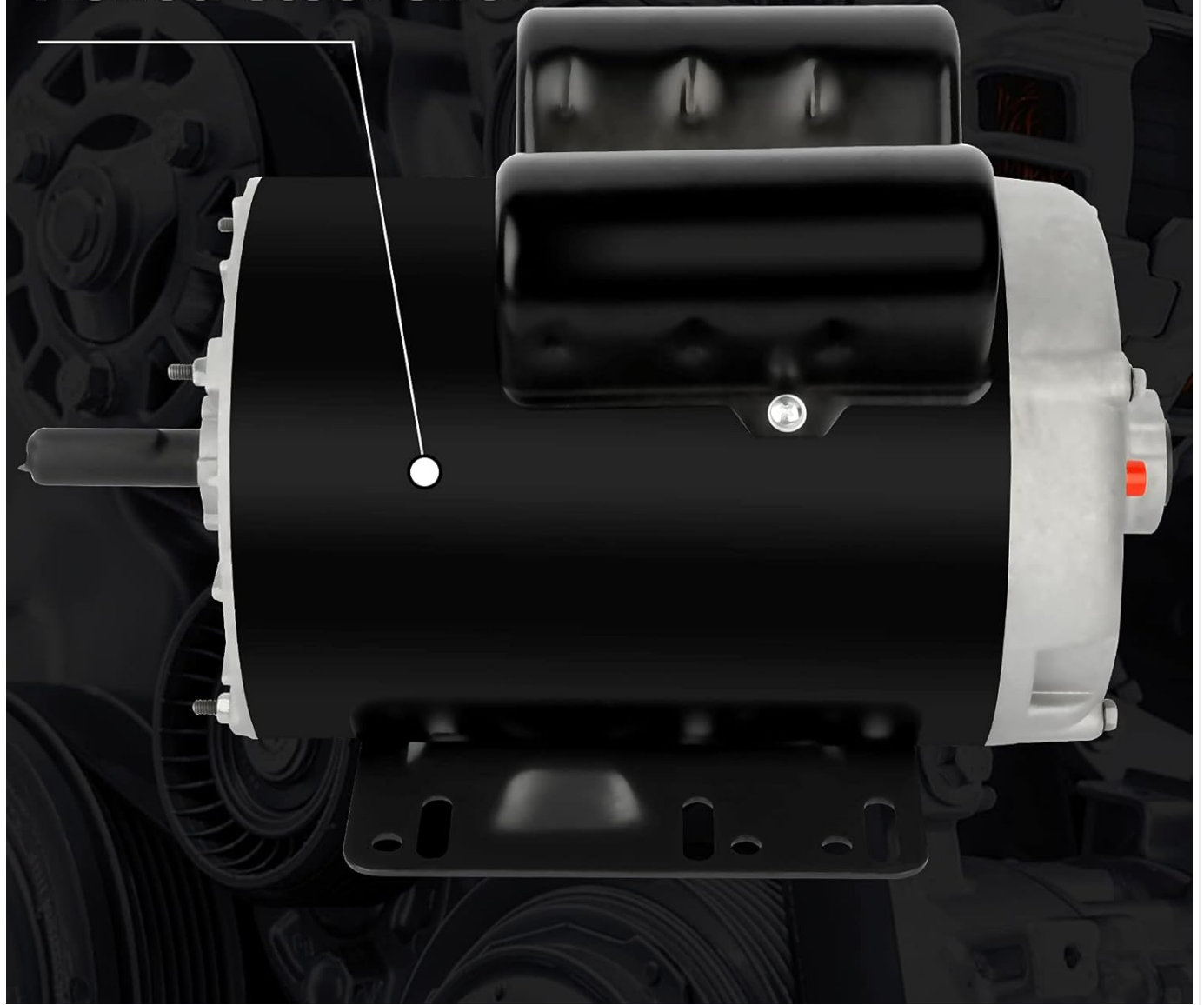


Image 3.2: The motor's nameplate, showing detailed electrical parameters and the wiring diagram for connection.

The motor shaft is protected by a rubber cover during shipping. Remove this cover before connecting to your equipment.



Image 3.3: Close-up of the motor shaft, indicating its 5/8-inch diameter and 1.88-inch length.

4. OPERATION

4.1 Initial No-Load Operation

After connecting the motor, perform a no-load test run to ensure it operates smoothly without any unusual noises or vibrations. This confirms correct wiring and motor functionality before connecting it to the air compressor.

4.2 Overload Protector

The motor is equipped with an overload protector. If the motor overheats or draws excessive current, the protector will trip, shutting down the motor. Allow the motor to cool down before pressing the reset button to restart operation.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your motor.

- **Keep Clean:** Periodically clean the motor's exterior to prevent dust and debris buildup, which can impede cooling.
- **Environment:** Maintain a clean and dry operating environment, as this is an Open Drip-Proof (ODP) motor.
- **Bearings:** The motor bearings are pre-lubricated and require no further lubrication.
- **Electrical Connections:** Periodically check all electrical connections for tightness and signs of wear or corrosion.
- **Ventilation:** Ensure the ventilation openings are clear and unobstructed to allow for proper airflow and cooling.

6. TROUBLESHOOTING

Refer to the following table for common issues and their potential solutions.

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
Motor does not start	No power supply; Incorrect wiring; Tripped overload protector; Faulty capacitor.	Check power connections and circuit breaker; Verify wiring against diagram; Reset overload protector; Consult a qualified technician.
Motor overheats and trips	Overload; Insufficient ventilation; High ambient temperature; Low voltage.	Reduce load; Clear ventilation openings; Ensure proper operating environment; Check power supply voltage.
Excessive noise or vibration	Loose mounting; Misalignment with driven equipment; Worn bearings.	Tighten mounting bolts; Check and correct alignment; Consult a qualified technician for bearing inspection.
Circuit breaker trips immediately	Short circuit; Ground fault; Severe motor malfunction.	Immediately disconnect power. Do not attempt to restart. Consult a qualified electrician or technician.

7. SPECIFICATIONS

Detailed technical specifications for the Cuilvu 5 HP SPL Air Compressor Motor.

Specification	Value
Brand	Cuilvu
Model Number	108065-5334-1408179171
Horsepower	5 HP SPL
Speed	3450 RPM
Voltage	208-230 Volts (AC)
Amperage	16.0-15.0A
Phase	Single Phase
Frame	56
Enclosure	Open Drip-Proof (ODP)
IP Rating	23
Frequency	60Hz
Insulation Class	F
Rotation	CCW (Counter-Clockwise)
Shaft Diameter	5/8"
Shaft Length	1.88"
Material	Rolled Steel Shell
Item Weight	39.4 pounds (17.9 Kilograms)

Specification	Value
Product Dimensions	12.83 x 6.5 x 7.95 inches

8. WHAT'S IN THE BOX

- 1 x Air Compressor Duty Electric Motor

9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact the seller or manufacturer directly. Provide your model number (108065-5334-1408179171) and purchase details for efficient assistance.

