

uxcell a19082100ux0931 (1.4-1.7RPM)

uxcell Synchronous Motor AC 100-127V 1.4-1.7RPM Instruction Manual

Model: a19082100ux0931 (1.4-1.7RPM)

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your uxcell AC 100-127V Synchronous Motor. This motor is designed for applications requiring stable, low-speed rotation, such as in gluing machines, heaters, electrical curtains, stage lighting, and various automated equipment.

The motor features low power consumption, consistent torque, and quiet operation, making it suitable for a range of DIY projects and equipment repairs.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Hazard:** This product operates on AC 100-127V. Ensure all power is disconnected before installation, wiring, or maintenance.
- **Qualified Personnel:** Installation and wiring should only be performed by qualified personnel familiar with electrical systems.
- **Proper Wiring:** Ensure all connections are secure and insulated to prevent short circuits.
- **Ventilation:** Ensure adequate ventilation around the motor to prevent overheating.
- **Moving Parts:** Keep hands, clothing, and other objects clear of the rotating shaft during operation.
- **Environmental Conditions:** Do not expose the motor to excessive moisture, dust, or corrosive environments.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

3. SPECIFICATIONS

Parameter	Value
-----------	-------

Parameter	Value
Rated Voltage	AC 100-127V
Power	4W
Working Manner	CW/CCW (Clockwise/Counter-Clockwise)
Rated Frequency	50-60Hz
Rated Speed	1.4-1.7 RPM
Torque	11 kgf.cm
Body Diameter	50mm / 1.96 inch
Body Height	20mm / 0.78 inch
Total Length (including shaft)	65mm / 2.55 inch
Mounting Hole Diameter	4.5mm / 0.17 inch
Shaft Diameter	7mm / 0.28 inch (D-Shaft)
Shaft Length	15.5mm / 0.61 inch
Wire Length	40cm / 15.7 inch
Material	Metal
Model Number	a19082100ux0931



Figure 3.1: Dimensional drawing of the uxcell synchronous motor. This image illustrates the motor's body diameter, body height, shaft diameter, shaft length, and mounting hole diameter, providing critical measurements for installation planning.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the synchronous motor:

1. **Power Disconnection:** Ensure the power supply to the equipment is completely disconnected before beginning installation.
2. **Mounting:** Secure the motor using the two mounting holes on the motor body. Refer to the dimensional drawing in Section 3 for precise measurements. Use appropriate screws and fasteners to ensure a stable and vibration-free mount.
3. **Shaft Connection:** Connect the D-shaped shaft to the driven component. Ensure a snug fit to prevent slippage and excessive wear.
4. **Wiring:** Connect the motor's two wires to the AC 100-127V power supply. The motor is designed for CW/CCW operation, meaning the direction of rotation is determined by the internal mechanism and will alternate upon power cycling. Ensure all electrical connections are insulated and protected. The wire length is approximately

40cm (15.7 inches).

5. **Verification:** Double-check all connections and mounting points before restoring power.



Figure 4.1: Top view of the uxcell synchronous motor. This image shows the motor's D-shaft, which is designed for specific coupling, and the attached blue power wires.

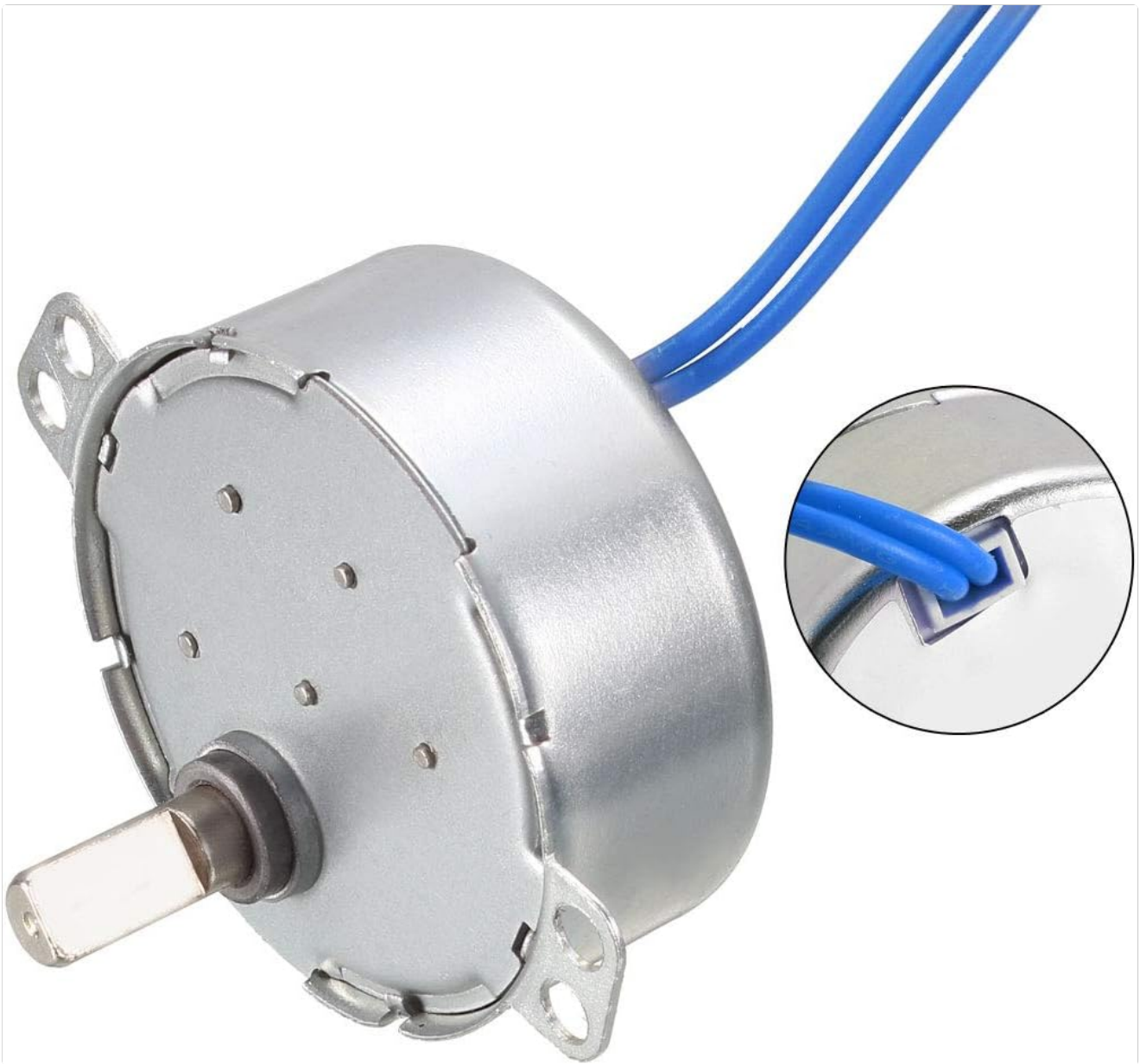


Figure 4.2: Angled view of the uxcell synchronous motor. This perspective highlights the motor's compact body and the secure entry point for the power wires.

5. OPERATING INSTRUCTIONS

Once properly installed and wired, the motor operates automatically upon receiving power.

- **Power On:** Apply AC 100-127V power to the motor.
- **Rotation Direction:** The motor is designed for CW/CCW (Clockwise/Counter-Clockwise) operation. This means the direction of rotation may vary each time the motor is started. It will rotate in one direction for a period, then reverse.
- **Stable Speed:** At the rated frequency (50-60Hz), the motor speed remains stable and is not significantly affected by minor voltage fluctuations.
- **Power Off:** Disconnect power to stop the motor.



Figure 5.1: Rear view of the uxcell synchronous motor. The label displays key specifications such as voltage (AC 100-127V), frequency (50/60Hz), power (4W), and speed (1.4/1.7 R/min), along with the CW/CCW rotation capability.

6. MAINTENANCE

The uxcell synchronous motor is designed for minimal maintenance. However, periodic checks can help ensure its longevity and optimal performance:

- **Keep Clean:** Regularly clean the exterior of the motor to prevent dust and debris buildup, which can affect heat dissipation.
- **Check Connections:** Periodically inspect electrical connections for tightness and signs of wear or corrosion.
- **Inspect Mounting:** Ensure the motor remains securely mounted and that there are no loose fasteners.
- **Avoid Overload:** Do not operate the motor beyond its specified torque limits to prevent premature wear.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Motor does not start or rotate.	No power supply. Loose electrical connections. Motor damage.	Check power source. Verify all wiring connections are secure. If power is present and connections are good, the motor may require replacement.
Motor makes unusual noise or vibrates excessively.	Loose mounting. Obstruction in rotating parts. Motor damage.	Tighten mounting screws. Inspect for any foreign objects or obstructions. If the issue persists, the motor may be damaged.
Motor runs slower than expected.	Overload. Incorrect voltage.	Reduce the load on the motor. Verify the power supply voltage is within the specified AC 100-127V range.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact uxcell customer service through the retailer where the product was purchased or visit the official uxcell website. Please have your model number (a19082100ux0931) and purchase details available when contacting support.

© 2025 uxcell. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question