

## Yuecoom L19-204Y

# Yuecoom L19-204Y Centrifugal Switch Instruction Manual

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of the Yuecoom L19-204Y Centrifugal Switch. This component is designed for use with YU71/YC71 single-phase electric motors, facilitating safe and efficient motor startup. Please read this manual thoroughly before installation and use to ensure optimal performance and safety.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions when handling or installing electrical components:

- Ensure the power supply to the motor is disconnected before any installation, maintenance, or inspection.
- Only qualified personnel should perform electrical installations and repairs.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and insulated gloves.
- Verify that the centrifugal switch specifications match the motor requirements.
- Avoid contact with live electrical parts.

## 3. PRODUCT OVERVIEW

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The L19-204Y Centrifugal Switch is a critical component for single-phase electric motors, designed to disconnect the starting winding once the motor reaches a certain operating speed. It consists of a stationary part and a rotating part.

### Key Features:

- **Model:** L19-204Y
- **Material:** High-strength metal and durable plastic construction.
- **Application:** Specifically designed for YU71/YC71 single-phase electric motors.
- **Function:** Controls the starting coils, enabling safe and quick motor startup.

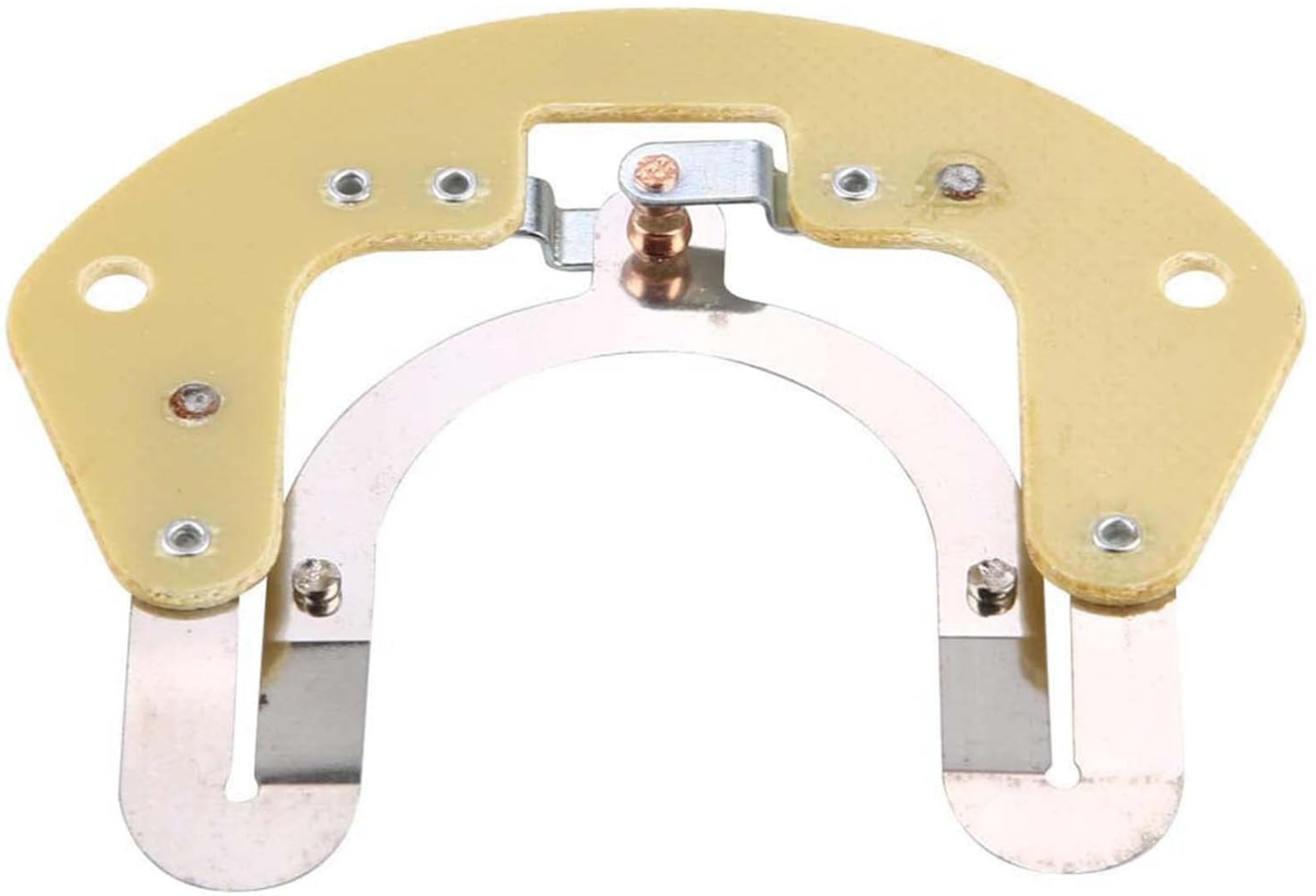


**Full tooth profile,  
precise match**

**High quality rubber,  
super tensile force**



Figure 3.1: Centrifugal switch components, highlighting the precise tooth profile and durable rubber elements.



Electric Motor Centrifugal Switch

Figure 3.2: Detailed view of the L19-204Y centrifugal switch, showing its metallic and plastic construction.

## 4. SPECIFICATIONS

The following table outlines the technical specifications for the L19-204Y Centrifugal Switch:

Specification	Value
Model	L19-204Y
Material	Metal + Plastic
Bore Diameter of Stand	19mm / 0.75in
Rated Current	20A
Number of Poles	4

Specification	Value
Speed	1500 RPM
Item Weight	Approx. 72g / 2.5oz
Dimensions (L x W x H)	0.39 x 0.39 x 0.39 inches
Operation Mode	ON-OFF
Contact Type	Normally Open
Switch Type	Centrifugal



Figure 4.1: Visual representation of key specifications for the L19-204Y centrifugal switch.

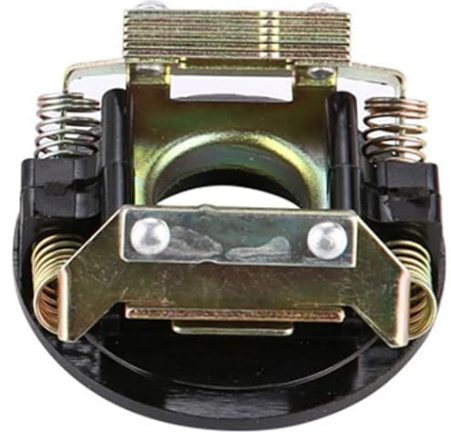
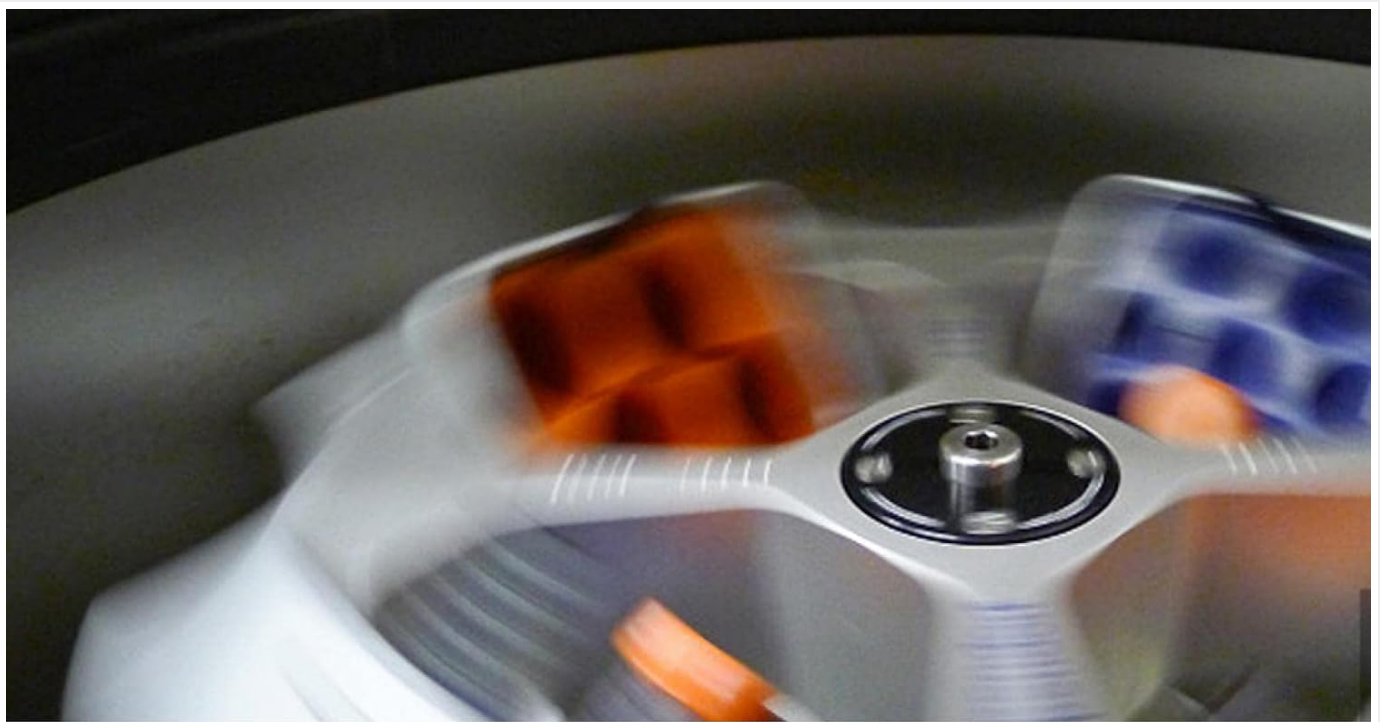


Figure 4.2: Measurement of the bore diameter, indicating 19mm (0.75 inches).

## 5. INSTALLATION AND SETUP

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The centrifugal switch is mounted on the rotor of the single-phase electric motor. Follow these general steps for installation:

1. **Power Disconnection:** Ensure the motor's power supply is completely disconnected and locked out to prevent accidental startup.
2. **Access Motor:** Carefully open the motor housing to access the rotor and existing centrifugal switch (if replacing).
3. **Remove Old Switch (if applicable):** Disconnect any wiring and carefully remove the old centrifugal switch from the rotor shaft. Note its orientation.
4. **Install New Switch:** Mount the L19-204Y centrifugal switch onto the motor's rotor shaft. Ensure it is seated correctly and securely. The bore diameter of the stand is 19mm, designed for compatible motor shafts.
5. **Wiring:** Connect the centrifugal switch in series with the starting circuit of the motor. Refer to your motor's specific wiring diagram for correct connections.

- 6. **Secure Components:** Ensure all connections are tight and secure. Reassemble the motor housing.
- 7. **Test:** Before full operation, perform a controlled test run to verify proper motor startup and switch function.

## 6. OPERATION

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The L19-204Y Centrifugal Switch operates automatically to manage the motor's starting process:

- **Startup:** When the motor is initially powered on, the centrifugal switch's contacts are closed, allowing current to flow through the starting winding. This provides the necessary torque to initiate motor rotation.
- **Acceleration:** As the motor accelerates and reaches approximately 75-80% of its synchronous speed (in this case, around 1500 RPM), the centrifugal force acting on the switch mechanism overcomes the spring tension.
- **Disconnection:** The contacts of the centrifugal switch open, disconnecting the starting winding from the circuit. The motor then continues to run on its main winding.
- **Shutdown:** When the motor is turned off and its speed decreases, the centrifugal switch contacts will close again, preparing the motor for the next startup cycle.

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Video 6.1: An overview of the centrifugal switch components and its function in a single-phase motor. This video demonstrates the physical appearance and basic principle of operation.

## 7. MAINTENANCE

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Regular inspection and maintenance can prolong the life of your centrifugal switch and ensure reliable motor operation:

- **Visual Inspection:** Periodically inspect the switch for signs of wear, corrosion, or damage to the contacts and mechanical parts.
- **Cleanliness:** Keep the switch free from dust, dirt, and debris, which can interfere with its operation. Use a dry, soft brush or compressed air for cleaning.
- **Contact Condition:** Check the electrical contacts for pitting or burning. Severely damaged contacts may require replacement of the switch.
- **Spring Tension:** Ensure the springs are intact and provide adequate tension for proper operation.
- **Secure Mounting:** Verify that the switch is securely mounted on the motor shaft and that all fasteners are tight.

## 8. TROUBLESHOOTING

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If you encounter issues with your motor's startup, the centrifugal switch may be a factor. Here are some common problems and potential solutions:

Problem	Possible Cause	Solution
Motor hums but does not start	Centrifugal switch contacts are not closing (stuck open or damaged).	Inspect switch contacts for damage or debris. Clean or replace the switch.
Motor starts slowly or struggles to reach full speed	Centrifugal switch contacts are closing intermittently or have high resistance.	Check for loose connections or worn contacts. Replace if necessary.
Motor overheats or runs continuously on starting winding	Centrifugal switch contacts are not opening (stuck closed).	Inspect switch mechanism for obstructions or damage. Replace the switch.

Problem	Possible Cause	Solution
Excessive noise from switch area	Loose mounting or worn mechanical parts.	Tighten mounting screws. Inspect for wear and replace if components are damaged.

## 9. WARRANTY AND SUPPORT

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For information regarding warranty coverage and technical support for your Yuecoom L19-204Y Centrifugal Switch, please refer to the purchase documentation or contact your retailer. Keep your proof of purchase for any warranty claims.

