

## ZipcOm YCQ1B-63

# ZipcOm YCQ1B-63 Automatic Transfer Switch Instruction Manual

Model: YCQ1B-63 | Brand: ZipcOm

## 1. INTRODUCTION

The ZipcOm YCQ1B-63 Automatic Transfer Switch (ATS) is designed to automatically switch between two power sources, typically a common power supply and a standby power supply. This ensures continuous power availability by seamlessly transferring the electrical load to the standby source when the common supply fails, and back to the common supply when it is restored. This device supports both automatic and manual operation modes, providing flexibility for various power management scenarios.

## 2. PRODUCT FEATURES

- **Automatic and Manual Switching:** Offers flexible operation with both automatic power transfer and manual override capabilities.
- **Flame-Retardant Material:** Constructed from flame-retardant plastic for enhanced safety, good insulation properties, and high-temperature resistance.
- **Multiple Protection Functions:** Incorporates comprehensive protection against short circuit, overload, phase loss, and undervoltage to safeguard connected electrical systems.
- **Reliable Power Continuity:** Ensures immediate transfer to backup power upon common supply failure and automatic return when normal power is restored, minimizing downtime.
- **High Conductivity Contacts:** Features silver contacts for both motion and static electricity, significantly improving conductivity and extending the product's operational lifespan.
- **Signal Output Port:** Includes a built-in standing open signal output port, allowing for easy connection with external signal indicators.

## 3. SPECIFICATIONS

Parameter	Value
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Parameter	Value
Model	YCQ1B-63/3P
Rated Current	63A
Rated Voltage	400V AC
Operating Voltage	220V AC
Working Frequency	50Hz/60Hz
Poles	3P
Conversion Time	≤ 2s
ATS Level	CB
Standards Compliant	IEC60947-6-1
Item Weight	1000 Grams

## 4. SAFETY INFORMATION

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**WARNING: Electrical shock hazard.** Installation and servicing of this equipment should only be performed by qualified personnel. Failure to follow these instructions may result in serious injury or death.

- Always disconnect power from both the common and standby sources before installing, inspecting, or servicing the ATS.
- Ensure all wiring complies with local and national electrical codes and regulations.
- Verify correct voltage and current ratings of the ATS match your electrical system before connecting.
- Do not operate the ATS if it appears damaged or if any components are missing.
- Keep children and unauthorized personnel away from electrical equipment.

## 5. SETUP AND INSTALLATION

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Installation of the Automatic Transfer Switch requires specialized electrical expertise. It is strongly recommended that a licensed electrician perform the installation to ensure safety, proper functionality, and compliance with all applicable electrical codes.

### 5.1. Mounting

Mount the ATS in a dry, well-ventilated area, away from flammable materials, excessive moisture, and direct sunlight. Ensure sufficient space around the unit for proper ventilation and ease of wiring. Use appropriate fasteners to secure the unit firmly to a stable, non-combustible surface.



Figure 1: Front view of the ATS, showing the main selector switch and indicator lights.

## 5.2. Wiring Connections

Refer to the detailed wiring diagram provided with the product for specific connection details. Generally, the ATS has clearly marked terminals for:

- **Common Power Supply (Utility):** Connect the main utility power lines to these terminals.
- **Standby Power Supply (Generator/Backup):** Connect the backup power source lines to these terminals.
- **Load:** Connect the electrical load that requires continuous power to these output terminals.
- **Control Wiring:** Connect any necessary control wiring for automatic operation and signal output as per the diagram.



Figure 2: Side view of the ATS, illustrating terminal connections and a basic wiring guide.

Ensure all connections are tight and secure to prevent loose contacts, which can lead to overheating or malfunction. Double-check all wiring against the diagram before applying any power to the unit.

## 6. OPERATING INSTRUCTIONS

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### 6.1. Powering On

After successful installation and thorough verification of all electrical connections, apply power to both the common and standby sources. The ATS will perform an initial self-check, and the appropriate indicator lights will illuminate.

### 6.2. Operating Modes

The YCQ1B-63 ATS features a prominent selector switch on its front panel for choosing between "Auto" and "Manual" modes.

- **Automatic Mode (Auto):** In this mode, the ATS will automatically detect the presence and absence of power from the common supply. If the common supply fails, it will automatically switch the load to the standby supply. When the common supply is restored, it will automatically switch the load back to the common supply after a brief stabilization period.
- **Manual Mode (Manual):** In manual mode, the user can manually switch between the common and standby power sources using the selector handle. This mode is useful for maintenance, testing, or specific operational requirements where automatic switching is not desired. Ensure the switch is fully engaged in the desired position.

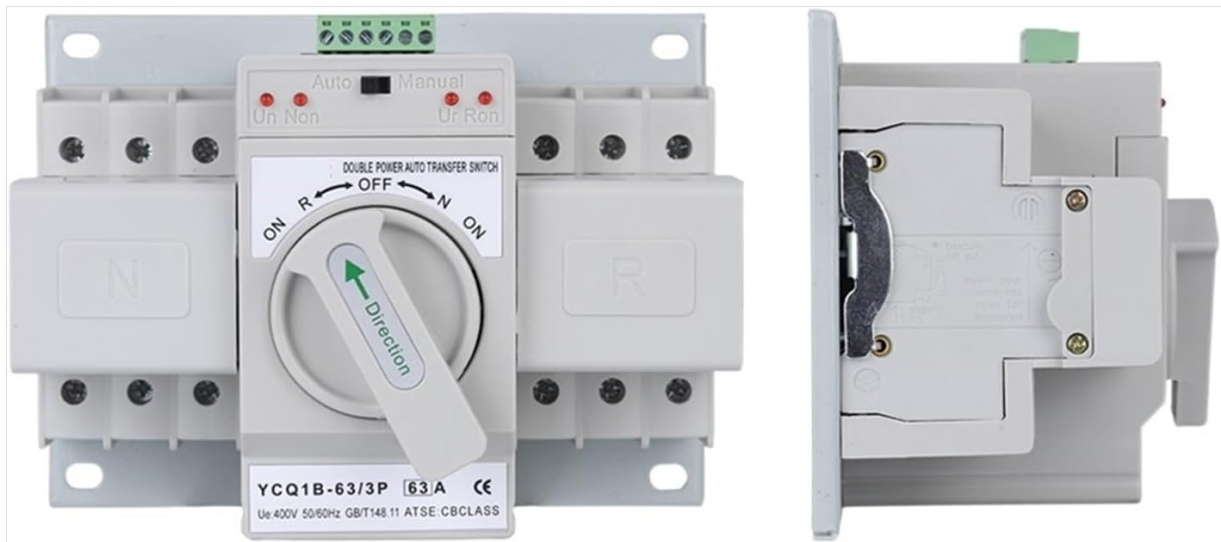


Figure 3: Detail of the Auto/Manual selector and power status indicators.

### 6.3. Indicator Lights

The ATS is equipped with indicator lights to visually communicate the status of the power sources:

- **Un Non (Common Power):** This indicator light shows the status of the common (utility) power supply.
- **Ur Ron (Standby Power):** This indicator light shows the status of the standby (backup) power supply.

## 7. MAINTENANCE

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Regular maintenance helps ensure the longevity, reliable operation, and safety of your ATS. Always disconnect power from both the common and standby sources before performing any maintenance or inspection.

- **Visual Inspection:** Periodically inspect the ATS for any visible signs of damage, loose connections, discoloration from overheating, or accumulation of dust and debris.
- **Cleaning:** Keep the unit clean and free from dust. Use a dry, soft cloth for cleaning. Do not use liquid

cleaners or solvents, as these can damage electrical components.

- **Terminal Check:** Annually, or as recommended by a qualified electrician, check all terminal connections for tightness. Loose connections can cause increased resistance, overheating, and potential failure.
- **Function Test:** Periodically test the automatic transfer function by simulating a common power outage (if safe to do so and with proper precautions). This verifies the ATS is operating correctly.

## 8. TROUBLESHOOTING

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If the ATS is not functioning as expected, consult the table below for common issues and their potential solutions. For complex problems, always consult a qualified electrician.

Problem	Possible Cause	Solution
ATS does not transfer power automatically.	ATS is in Manual mode. No power from common or standby source. Faulty control circuit.	Switch the ATS to Auto mode. Verify power supply to both sources. If problem persists, consult a qualified electrician.
No power to the connected load.	No power from either source. ATS selector switch not fully engaged. Overload protection tripped.	Check both common and standby power sources. Ensure the ATS selector is fully in either the common or standby position. Check for tripped circuit breakers upstream or within the ATS.
Indicator lights are not working.	No power to the ATS. Faulty indicator light.	Verify power supply to the ATS. If power is present but lights are off, contact support or a qualified electrician.

For issues not listed here or if troubleshooting steps do not resolve the problem, contact a qualified electrician or the manufacturer's support for further assistance.

## 9. WARRANTY AND SUPPORT

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For detailed warranty information and technical support, please refer to the documentation provided with your purchase or contact ZipcOm customer service directly. It is advisable to keep your purchase receipt as proof of purchase for warranty claims.

**Manufacturer:** ZIPCOM

**Brand:** ZipcOm