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› KHIRY RP5D-630 630A Automatic Transfer Switch User Manual

KHIRY RP5D-630

KHIRY RP5D-630 630A Automatic Transfer Switch User Manual

Model: RP5D-630 | Current Rating: 630A

1. INTRODUCTION

The KHIRY RP5D-630 Automatic Transfer Switch (ATS) is designed to automatically switch between a normal power source and a reserve power source. This ensures continuous power supply to critical loads in industrial and commercial applications. It integrates switching and logic control functions into a single unit, providing reliable and safe power transfer.

This manual provides essential information for the safe installation, operation, and maintenance of the RP5D-630 ATS. Please read this manual thoroughly before installation or operation.

2. IMPORTANT SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and maintenance must be performed by qualified and authorized personnel only. Failure to follow these instructions can result in serious injury or death.

- Always disconnect all power sources before working on the switch. Verify that all circuits are de-energized using appropriate testing equipment.
- Ensure proper grounding of the equipment.
- Adhere to all local and national electrical codes and regulations.
- Do not operate the switch if it appears damaged or malfunctioning.
- Use appropriate personal protective equipment (PPE) when working with electrical systems.

3. PRODUCT FEATURES

The RP5D-630 ATS offers a range of features designed for reliable power management:

- **Full-Automatic Operation:** Automatically transfers load between normal and reserve power sources.
- **Compulsory "0" Position:** Allows for manual isolation of both power sources for maintenance or emergencies.
- **Generator Integration:** Capable of sending a start signal to a generator when the normal power fails.

- **Protection Functions:** Includes examination and protection against lack of phase, under/over voltage, and frequency deviations.
- **Delay Regulation:** Adjustable time delays for transfer operations.
- **Electric Mechanism Interlock:** Ensures safe and proper switching sequence.

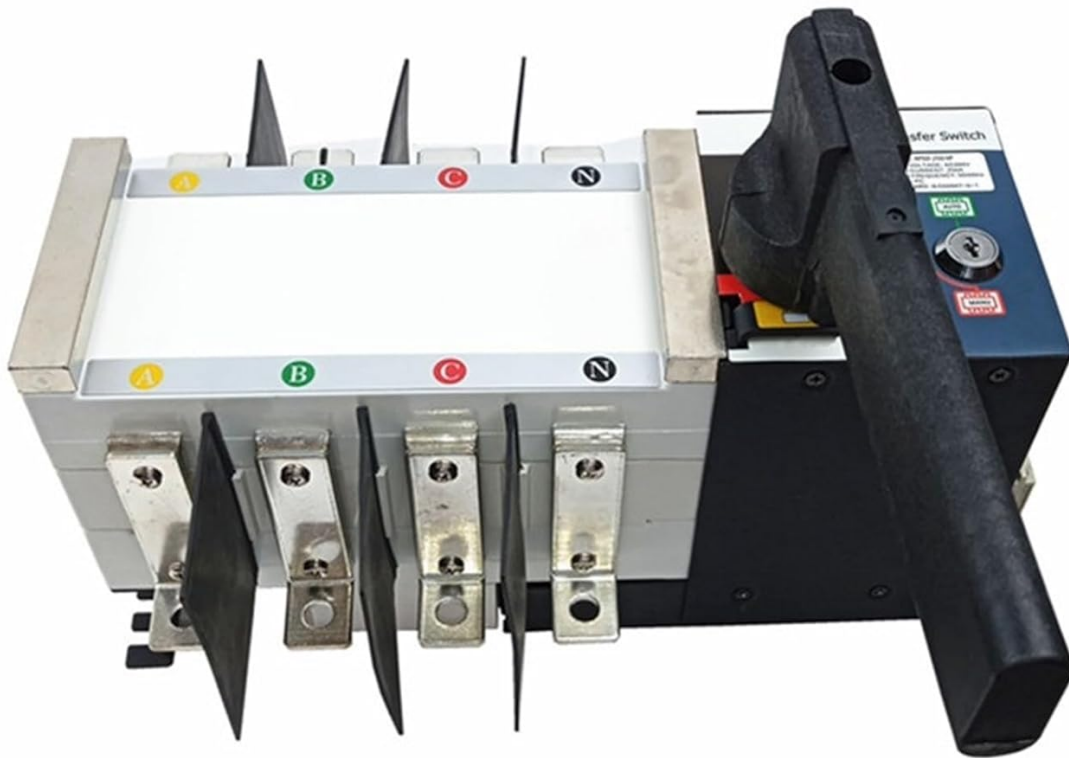


Figure 3.1: Main view of the KHIRY RP5D-630 Automatic Transfer Switch. This image displays the overall structure of the switch, including the main power terminals and the control unit on the right side.

4. SETUP AND INSTALLATION

Installation of the RP5D-630 ATS must be performed by a qualified electrician in accordance with all applicable electrical codes.

4.1 Mounting

Mount the ATS in a suitable enclosure that provides adequate ventilation and protection from environmental factors. Ensure the mounting surface is stable and capable of supporting the weight of the switch.

1. Normal power failure detected.
2. After a pre-set delay, the switch sends a start signal to the reserve power source (e.g., generator).
3. Once the reserve power source is stable, the ATS transfers the load from normal power to reserve power.
4. When normal power is restored and stable, the ATS waits for a pre-set stabilization delay.
5. The ATS transfers the load back to the normal power source.
6. After another pre-set delay, the ATS sends a stop signal to the reserve power source.

5.2 Compulsory "0" Function

For maintenance or emergency situations requiring complete isolation of both power sources from the load, use the compulsory "0" function:

- Locate the "Compulsory 0" self-lock button on the control panel.
- Press and hold the button. The switch will move to the "0" position, disconnecting both normal and reserve power from the load.
- The switch will remain in this position until manually reset or power conditions change, depending on the specific configuration.

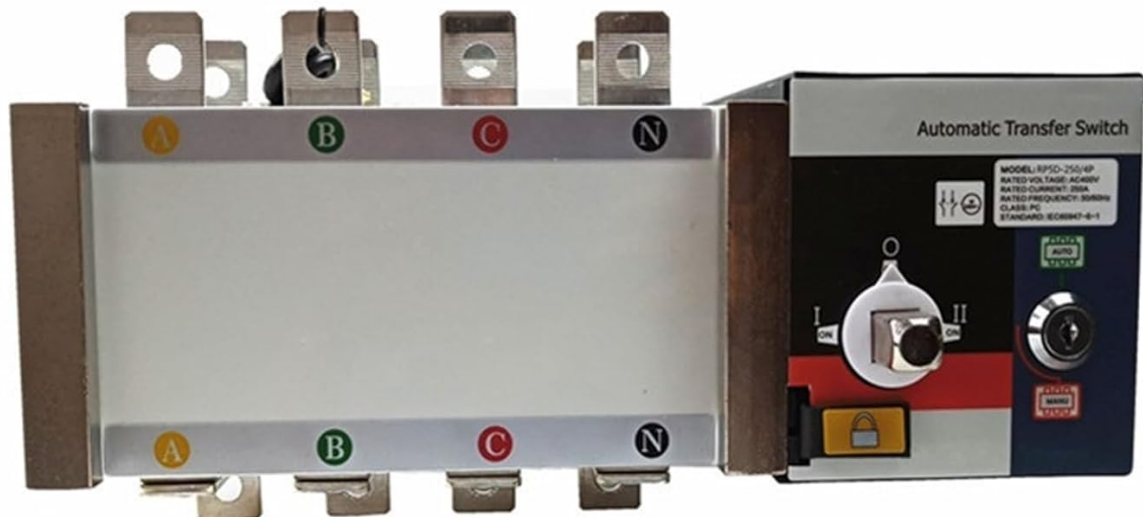


Figure 5.1: Control panel of the KHIRY RP5D-630 ATS. This image shows the interface with indicators and control buttons, including the selector switch and the compulsory '0' button.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of the RP5D-630 ATS. All maintenance procedures must be performed by qualified personnel with power disconnected.

- **Periodic Inspection:** Visually inspect the switch for any signs of damage, loose connections, or overheating (discoloration).
- **Cleaning:** Keep the switch and its enclosure clean and free from dust, dirt, and moisture. Use a dry, lint-free cloth. Do not use solvents.
- **Connection Checks:** Periodically check the tightness of all electrical connections.
- **Functional Testing:** Conduct periodic functional tests to ensure the automatic transfer mechanism operates correctly.

7. TROUBLESHOOTING

This section provides guidance for common issues. For complex problems, contact a qualified technician.

Problem	Possible Cause	Solution
Switch does not transfer automatically.	No power detected from either source; control circuit issue; incorrect settings.	Verify power to both sources; check control wiring; review settings.
Load not receiving power.	Both power sources are off; switch in "0" position; tripped breaker.	Check power sources; ensure switch is not in "0"; reset breakers.
Generator does not start.	No start signal from ATS; generator fault; fuel issue.	Verify ATS control wiring to generator; check generator status and fuel.

8. TECHNICAL SPECIFICATIONS

The following are the key technical specifications for the KHIRY RP5D-630 Automatic Transfer Switch:

Parameter	Value
Model	RP5D-630
Rated Current	630A
Rated Insulating Voltage	Up to 690V
Rated Operating Voltage	380V
Rated Frequency	50Hz/60Hz
Application Environment	Industrial and commercial distribution equipment (e.g., hospitals, banks, high buildings, telecommunications)



Figure 8.1: Side view of the KHIRY RP5D-630 ATS. This image provides a different perspective of the switch, potentially showing mounting points or additional labels.

9. WARRANTY AND SUPPORT

This KHIRY product is manufactured to high-quality standards. For information regarding warranty coverage, terms, and conditions, please refer to the documentation included with your purchase or contact your supplier.

For technical support, troubleshooting assistance, or spare parts inquiries, please contact KHIRY customer service or your authorized distributor. Provide your product model number (RP5D-630) and purchase details when seeking support.