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› Automatic Dual Power Transfer Switch User Manual

Yanmis ZGQ1M-63/3P

Automatic Dual Power Transfer Switch

MODEL: ZGQ1M-63/3P



Image: Yanmis ZGQ1M-63/3P Automatic Dual Power Transfer Switch, front view.

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Yanmis ZGQ1M-63/3P Automatic Dual Power Transfer Switch. Please read this manual thoroughly before using the device and keep it for future reference.

The ZGQ1M-63/3P is an intelligent automatic transfer switch designed to seamlessly switch between a common power supply and a standby power supply. It ensures continuous power availability for critical loads, making it ideal for office buildings and other facilities requiring reliable power management and fire fighting capabilities.

2. Features

- **Compact and Robust Design:** Features a reasonable structure, small size, and aesthetic appearance, equipped with a protective cover for enhanced safety and reliability.
- **Comprehensive Protection:** Includes protection functions against short circuits, overloads, phase loss, and undervoltage.
- **EPS Fire Power Interface:** Integrated DC12-24V EPS fire power interface for reliable long-distance dual metering.
- **Efficient Operation:** Designed for silent operation, energy saving, easy installation, simple operation, and reliable performance.
- **Wide Application:** Particularly suitable for office buildings and public places that require fire fighting capabilities and continuous power supply.

3. Specifications

Parameter	Value
Model	ZGQ1M-63/3P
Input Voltage	220V
Insulation Voltage	4000V
Rated Voltage	400V
External EPS Indication	DC12-24V
Rated Current	63A
Rated Impulse Withstand Voltage	4KV
3C Rated Voltage Range	37V-440V
Mounting Hole	M6
Dimensions (L x W)	18.5 x 13.5 cm (7.28 x 5.31 in)
Weight	1.7 kg
Material	Plastic
Power	13860 Watts

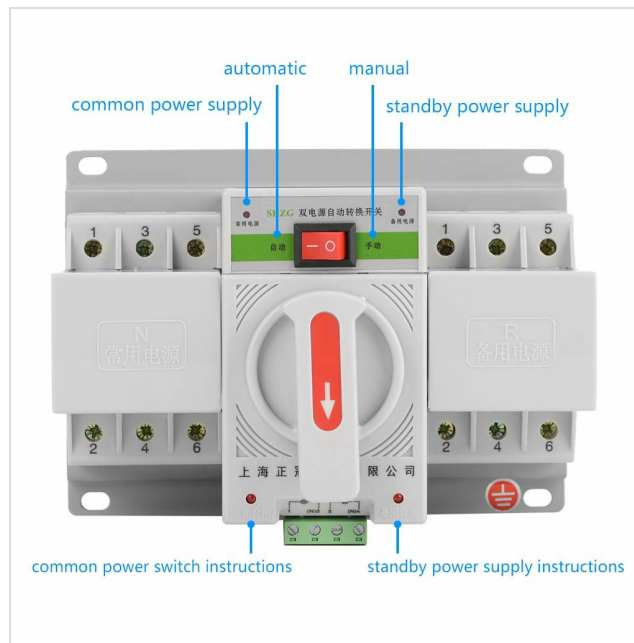


Image: Product dimensions showing 18.5cm (7.28in) length and 13.5cm (5.31in) height.

4. Safety Information

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel. Always disconnect power before working on the device.

- Ensure all local and national electrical codes are followed during installation.
- Verify that the voltage and current ratings of the switch match your application requirements.
- Do not operate the switch if it is damaged or shows signs of malfunction.
- Keep the device away from moisture, dust, and corrosive environments.
- Ensure proper grounding to prevent electrical hazards.

5. Setup and Installation

The ZGQ1M-63/3P transfer switch is designed for easy installation. Refer to the wiring diagram and dimensions for proper mounting and connection.

1. **Mounting:** Securely mount the transfer switch using the M6 mounting holes. Ensure it is installed in a dry, well-ventilated area, away from direct sunlight or excessive heat.
2. **Wiring:** Connect the common power supply and standby power supply to the designated terminals. Ensure all connections are tight and secure. Refer to the wiring diagram below for correct terminal assignments.
3. **Load Connection:** Connect the load to the output terminals of the transfer switch.
4. **EPS Interface:** If using the EPS fire power interface, connect the DC12-24V signal as required.
5. **Grounding:** Ensure the device is properly grounded according to electrical safety standards.

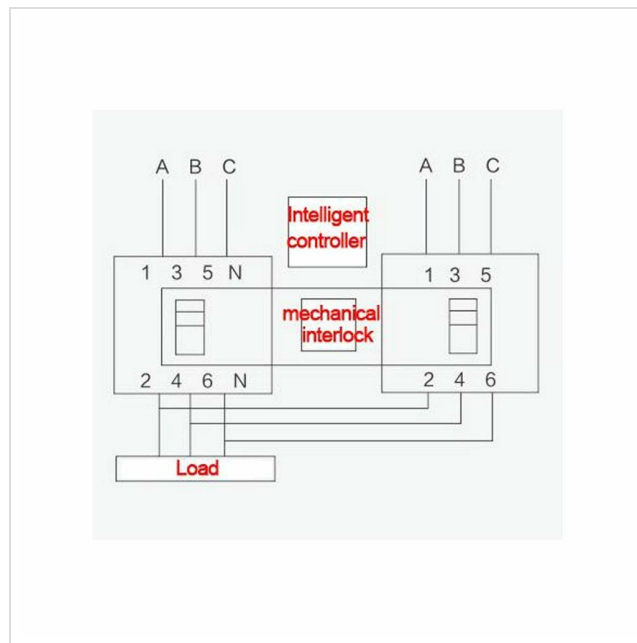


Image: Wiring diagram showing connections for common power, standby power, intelligent controller, mechanical interlock, and load.

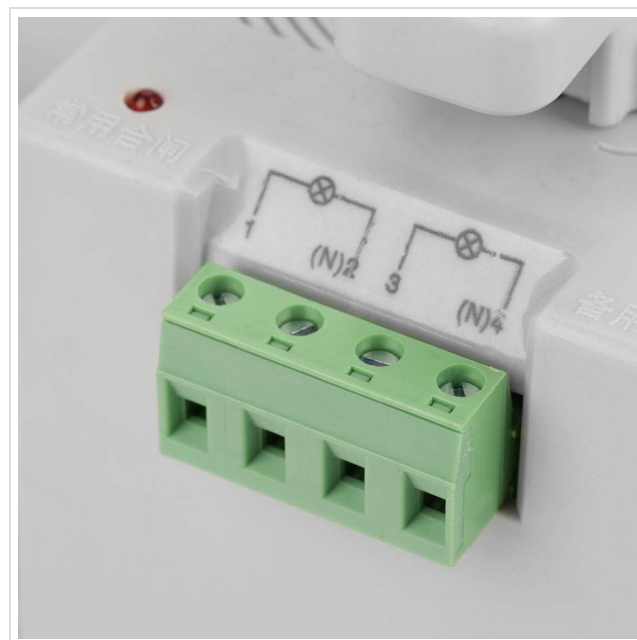


Image: Close-up view of the terminal block for wiring connections.

6. Operating Instructions

The transfer switch offers both automatic and manual operation modes.

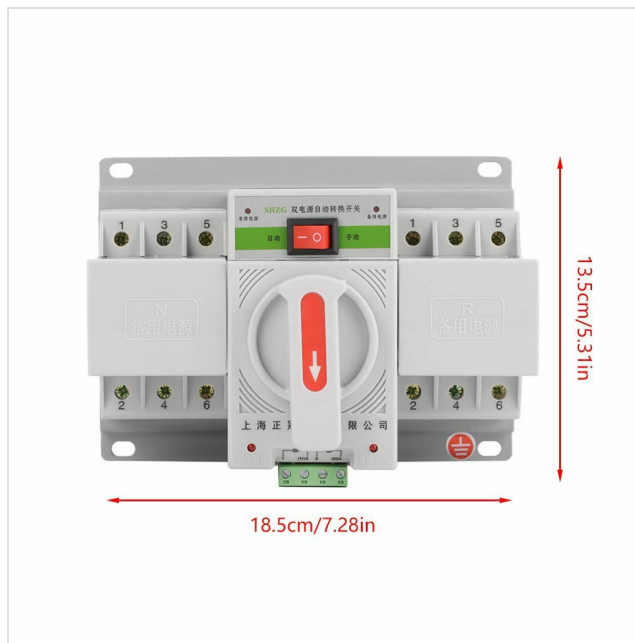


Image: Control panel showing 'automatic' and 'manual' modes, and indicators for common and standby power supplies.

- **Automatic Mode:** To enable automatic transfer, set the switch lever to the 'Automatic' position. The device will automatically detect the presence of power from the common supply. If the common supply fails, it will automatically switch to the standby supply. When the common supply is restored, it will switch back.
- **Manual Mode:** To manually control the transfer, set the switch lever to the 'Manual' position. You can then use the lever to select between the common power supply (N) and the standby power supply (R) as needed.
- **Indicators:** Observe the indicator lights on the control panel. A lit indicator next to 'Common Power Supply' (N) means the common power is active. A lit indicator next to 'Standby Power Supply' (R) means the standby power is active.



Image: Close-up view of the red and black switch lever for selecting automatic or manual operation.

7. Maintenance

Regular maintenance ensures the longevity and reliable operation of your transfer switch.

- **Periodic Inspection:** Visually inspect the switch and its connections regularly for any signs of wear, damage, or loose connections.

- **Cleaning:** Keep the device clean and free from dust and debris. Use a dry, soft cloth for cleaning. Do not use liquid cleaners.
- **Functional Test:** Periodically test the automatic transfer function by simulating a power outage on the common supply to ensure the switch operates correctly.
- **Professional Check:** It is recommended to have the device inspected by a qualified electrician annually.

8. Troubleshooting

If you encounter issues with your transfer switch, consider the following basic troubleshooting steps:

- **No Power Output:** Check if both common and standby power supplies are active. Verify all wiring connections are secure and correct according to the diagram.
- **Switch Not Transferring:** Ensure the switch is set to 'Automatic' mode if automatic transfer is desired. Check for any tripped circuit breakers upstream.
- **Unusual Noises/Smells:** Immediately disconnect power and contact a qualified electrician. Do not attempt to operate the device.

For complex issues or if troubleshooting steps do not resolve the problem, contact a qualified electrician or the manufacturer's support.

9. Warranty and Support

Information regarding specific warranty terms and customer support for this product is not available in the provided data. Please refer to the product packaging or contact your retailer for warranty details and support inquiries.