

MUSM JTQ2-63

MUSM JTQ2-63 Automatic Transfer Switch User Manual

Model: JTQ2-63 (2P 63A 110V)

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the MUSM JTQ2-63 Automatic Transfer Switch. The JTQ2-63 is designed to automatically switch between two power sources, ensuring continuous power supply to critical loads. It supports both manual and automatic operation modes.

2. SAFETY INFORMATION

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

- Ensure all local and national electrical codes are followed during installation.
- Verify the voltage and current ratings of the switch match your application requirements.
- Do not operate the switch with wet hands or in damp conditions.
- Proper grounding is essential for safe operation.

3. PRODUCT OVERVIEW

The MUSM JTQ2-63 is a compact automatic transfer switch designed for reliability and ease of use. It features a robust construction with minimal wearing parts.

Key Features:

- **Dual Operation Modes:** Supports both manual (handle/rocker) and electric (motor-driven) operation. Manual mode is suitable for low voltage and small current applications, while electric mode is for high voltage, high current, or remote control.
- **Simple Structure:** Designed for durability with few wearing parts, simplifying maintenance.
- **Optimized Contact Material:** Arcing is managed by increased contact spacing and the use of copper alloy silver plating for contacts. Note that no-load operation is limited due to the absence of a special arc extinguishing chamber.

- **Flexible Wiring Options:** Supports upper entry/lower exit, left entry/right exit, and side wiring. Low-voltage models typically use screw crimp terminals, while high-voltage models use copper bar bolts.
- **Integrated Fuse Option:** Knife fuse isolation switches are a special type that combine isolation and overcurrent protection, suitable for small distribution circuits.



Figure 3.1: Front view of the MUSM JTQ2-63 Automatic Transfer Switch, showing the manual/automatic selector and power indicators.

4. SETUP AND INSTALLATION

Before installation, ensure all power sources are disconnected. This device is designed for DIN Rail mounting.

4.1 Mounting

The JTQ2-63 is designed for DIN rail mounting. Securely attach the switch to a standard DIN rail within an appropriate enclosure.



Figure 4.1: Rear view of the transfer switch, illustrating the mounting plate for DIN rail installation.

4.2 Wiring

Refer to the wiring diagram below for proper connection of normal power, reserve power, and load. Ensure all connections are tight and secure.

- **Normal Power Input:** Connect your primary power source to the "Normal Power" terminals (L IN, N IN).
- **Reserve Power Input:** Connect your secondary/backup power source to the "Reserve Power" terminals (L IN, N IN).
- **Load Output:** Connect your electrical load to the "Load side" terminals (L, N).
- The switch supports various wiring configurations including upper entry/lower exit, left entry/right exit, and side wiring.

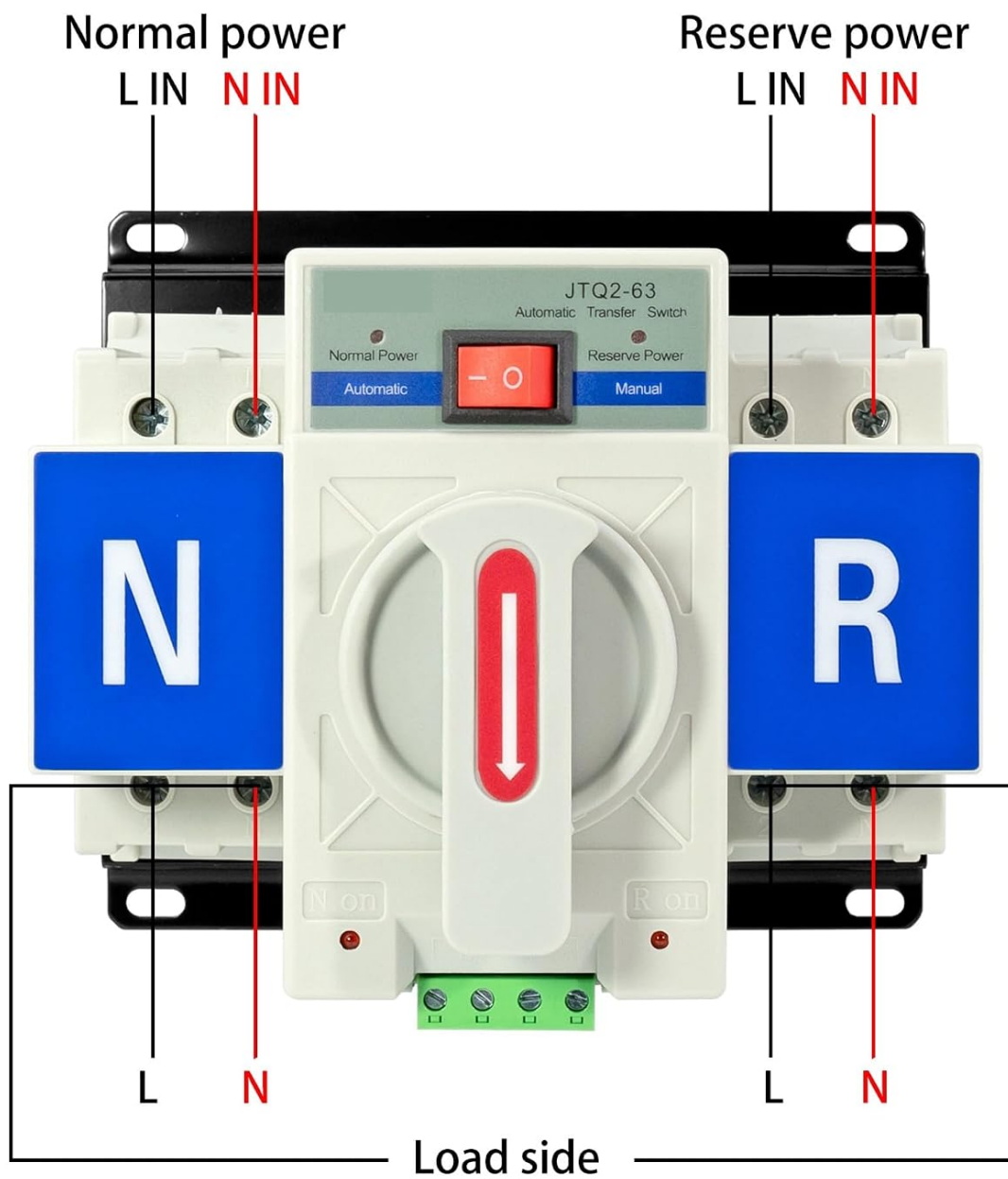


Figure 4.2: Detailed wiring diagram showing connections for normal power, reserve power, and the load side.



Figure 4.3: Bottom view of the switch, highlighting the terminal connections and product label with specifications.

5. OPERATING INSTRUCTIONS

The JTQ2-63 transfer switch offers both automatic and manual operation modes.

5.1 Automatic Mode

In automatic mode, the switch will detect the presence of normal power. If normal power fails, it will automatically switch to the reserve power source. When normal power is restored, it will switch back to normal power.

- Set the selector switch on the front panel to "Automatic".
- The indicator lights will show which power source is currently active (Normal Power or Reserve Power).

5.2 Manual Mode

Manual mode allows you to manually select the power source. This is typically done using the handle or rocker on the device.

- Set the selector switch on the front panel to "Manual".
- Use the central handle to physically switch between "Normal Power" (N) and "Reserve Power" (R) or "OFF" (O).
- Ensure the handle is fully engaged in the desired position.



Figure 5.1: Angled view of the transfer switch, illustrating the manual selector and the central handle for switching power sources.

6. MAINTENANCE

The JTQ2-63 transfer switch is designed for low maintenance. Regular inspections are recommended to ensure optimal performance and longevity.

- **Regular Inspection:** Periodically inspect the contacts for oxidation. Clean any visible oxidation using appropriate electrical contact cleaner.
- **Insulating Parts:** Keep all insulating parts clean and free from dust or debris.
- **Connection Integrity:** Check all wiring connections for tightness and ensure there are no loose wires.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and

humidity ranges.

7. TROUBLESHOOTING

If you encounter issues with your MUSM JTQ2-63 Automatic Transfer Switch, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Switch does not transfer power automatically.	Switch is in Manual mode. No power detected from either source. Faulty control circuit.	Set selector to "Automatic". Verify power supply to both Normal and Reserve inputs. Contact qualified electrician for inspection.
Power indicators are off.	No power to the switch. Indicator light malfunction.	Check main circuit breakers and power sources. If power is present, contact support.
Switch makes unusual noises.	Loose connections. Internal component issue.	Disconnect power and check all wiring connections. Do not attempt to repair internal components. Contact qualified personnel.

For issues not covered here, or if problems persist, please contact customer support or a qualified electrician.

8. SPECIFICATIONS

The following are the technical specifications for the MUSM JTQ2-63 Automatic Transfer Switch (2P 63A 110V model):

Feature	Detail
Model	JTQ2-63
Brand	MUSM
Operation Mode	OFF-NONE-ON (Automatic/Manual)
Current Rating	63 Amps (for this variant)
Operating Voltage	110V (for this variant)
Contact Type	Normally Closed
Connector Type	Clamp
Switch Type	Bipolar Transistor
Terminal	Blade
Item Dimensions (L x W x H)	0.39 x 0.39 x 0.39 inches
Circuit Type	1-way
Mounting Type	DIN Rail Mount
Number of Positions	1

Feature	Detail
Temperature Rating	1°C (Lower) to 1°C (Upper)
Contact Material	Alloy Steel
International Protection Rating	IP00
Specification Met	UL
Item Weight	300 Grams

Note: Some specifications (e.g., Item Dimensions, Temperature Rating) appear to be generic or placeholder values. Please refer to the product packaging or manufacturer's official documentation for precise details if these are critical for your application.

9. WARRANTY INFORMATION

Specific warranty details for the MUSM JTQ2-63 Automatic Transfer Switch are not provided in this manual. Please refer to the product packaging, the seller's terms and conditions, or contact MUSM customer support for warranty information. Typically, products come with a manufacturer's warranty covering defects in materials and workmanship for a specified period from the date of purchase. Keep your proof of purchase for any warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or further inquiries regarding your MUSM JTQ2-63 Automatic Transfer Switch, please contact MUSM customer support. You can also visit the official MUSM store for more product information and support resources: [MUSM Official Store on Amazon](#)

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.

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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