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> User Manual for EFUZCOCI C3-T31X AC230V 11-Pin Power Relay

## EFUZCOCI C3-T31X

# User Manual for EFUZCOCI C3-T31X AC230V 11-Pin Power Relay

Model: C3-T31X

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective use of the EFUZCOCI C3-T31X AC230V 11-pin Power Relay. Please read this manual thoroughly before installation and operation, and retain it for future reference.

The EFUZCOCI C3-T31X is a robust 11-pin power relay designed for various industrial and home improvement applications, specifically for AC230V systems. It is commonly used in HVAC systems, furnace parts, and other electrical control circuits.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions to prevent injury or damage to the relay and connected equipment:

- **Electrical Hazard:** This device operates with AC230V. Installation and maintenance should only be performed by qualified personnel. Always disconnect power before working with the relay or its associated wiring.
- **Proper Use:** Use this relay only for its intended purpose as a power switching device within specified voltage and current ratings.
- **Environmental Conditions:** Do not expose the relay to excessive moisture, dust, or extreme temperatures outside its operating range.
- **Inspection:** Before installation, inspect the relay for any visible damage. Do not install a damaged relay.
- **Wiring:** Ensure all wiring connections are secure and comply with local electrical codes and standards. Incorrect wiring can lead to malfunction or fire.

## 3. PRODUCT OVERVIEW

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The EFUZCOCI C3-T31X Power Relay consists of the relay unit and its compatible 11-pin base. The relay unit is typically housed in a transparent casing, allowing for visual inspection of its internal components and status indicator.



**Figure 3.1:** EFUZCOCI C3-T31X AC230V 11-pin Power Relay (left) and its corresponding 11-pin base (right). The relay unit features a transparent casing with "AC230V" clearly marked, indicating its operating voltage. The base is designed to securely hold the relay and provide electrical connections via its 11 pins.

The relay unit (left in Figure 3.1) is marked with "AC230V" indicating its coil voltage. The base (right in Figure 3.1) is designed for panel mounting and provides the necessary connections for the 11 pins of the relay. The top of the base often includes a wiring diagram or pinout for easy reference.

## 4. SETUP AND INSTALLATION

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Follow these steps for proper installation of the C3-T31X Power Relay:

1. **Power Disconnection:** Ensure all power to the circuit where the relay will be installed is completely disconnected and locked out. Verify with a voltage tester.
2. **Mounting the Base:** Securely mount the 11-pin relay base to a DIN rail or panel using appropriate fasteners. Ensure it is stable and free from vibration.
3. **Wiring Connections:** Refer to the wiring diagram provided on the relay base or in your system's electrical

schematics. Connect the control voltage (AC230V for the coil) to the designated coil terminals. Connect the load circuits to the appropriate normally open (NO), normally closed (NC), and common (COM) contact terminals. Ensure all connections are tight and insulated.

4. **Inserting the Relay:** Carefully align the 11 pins of the C3-T31X relay with the corresponding sockets on the mounted base. Gently push the relay down until it is fully seated and secure. Do not force it.
5. **Verification:** Double-check all wiring connections against the diagram to ensure correctness.
6. **Power Restoration:** Once installation is complete and verified, restore power to the circuit.

## 5. OPERATING INSTRUCTIONS

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The EFUZCOCI C3-T31X Power Relay operates by energizing its coil, which in turn switches the state of its contacts. When the AC230V control voltage is applied to the coil, the relay armature moves, changing the contact configuration.

- **Coil Activation:** Apply AC230V to the coil terminals. The relay will audibly click, and a visual indicator (if present, often a small LED or flag) may change state, confirming activation.
- **Contact Switching:** Upon coil activation, normally open (NO) contacts will close, and normally closed (NC) contacts will open. When the coil voltage is removed, the contacts will return to their original state.
- **Monitoring:** Observe the behavior of the connected load to ensure the relay is switching as expected.

For specific application control logic, refer to the system's overall control diagram.

## 6. MAINTENANCE

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The C3-T31X Power Relay is designed for long-term, reliable operation with minimal maintenance. However, periodic checks can help ensure optimal performance:

- **Visual Inspection:** Periodically inspect the relay and its base for any signs of physical damage, discoloration (indicating overheating), or loose connections.
- **Dust and Debris:** Keep the relay and its surroundings clean and free from dust and debris, which can impede operation or cause overheating. Use a soft, dry cloth or compressed air for cleaning.
- **Connection Integrity:** Ensure all wire connections to the relay base remain tight. Loose connections can lead to arcing and premature failure.
- **Replacement:** If the relay shows signs of erratic behavior, excessive heat, or failure to switch, it should be replaced immediately by a qualified technician.

**Note:** Always disconnect power before performing any maintenance or inspection.

## 7. TROUBLESHOOTING

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If you encounter issues with your EFUZCOCI C3-T31X Power Relay, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Relay does not activate when control voltage is applied.	No power to coil terminals. Incorrect coil voltage (not AC230V). Loose or incorrect wiring. Faulty relay coil.	Check power supply to coil. Verify control voltage is AC230V. Inspect and correct wiring according to diagram. Replace the relay.

Problem	Possible Cause	Solution
Relay contacts do not switch or switch intermittently.	Overload on contacts. Worn or pitted contacts. Loose connections to load.	Ensure load current is within relay specifications. Replace the relay. Tighten load wiring connections.
Relay overheats.	Excessive load current. Poor ventilation. Loose connections.	Verify load current is within specifications. Improve airflow around the relay. Check and tighten all connections.

If the problem persists after attempting these solutions, contact a qualified electrician or the manufacturer for assistance.

## 8. SPECIFICATIONS

Technical specifications for the EFUZCOCI C3-T31X AC230V 11-pin Power Relay:

Feature	Detail
Model Number	C3-T31X
Brand	EFUZCOCI
Coil Voltage	AC230V
Number of Pins	11 pins
Type	Power Relay
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces
Manufacturer	EFUZCOCI
ASIN	<a href="#">B0DWKHXLLY</a>
Date First Available	February 8, 2025

## 9. WARRANTY AND SUPPORT

Specific warranty information for the EFUZCOCI C3-T31X Power Relay is not provided in the product details. Please refer to the seller's return policy or contact the manufacturer, EFUZCOCI, directly for warranty terms and technical support.

For general inquiries or support, you may also refer to the product listing on Amazon or contact the seller directly.

