



Manuals.plus /

› OLZFJAJE /

› OLZFJAJE IM06-12VDC 12V DC 8-Pin Relay Instruction Manual

## OLZFJAJE IM06-12VDC

# OLZFJAJE IM06-12VDC 12V DC 8-Pin Relay Instruction Manual

## 1. INTRODUCTION

---

This manual provides essential information for the safe and effective use of the OLZFJAJE IM06-12VDC 12V DC 8-Pin Relay. Please read these instructions carefully before installation and operation to ensure proper function and to prevent damage to the device or associated equipment.

## 2. PRODUCT OVERVIEW

---

The OLZFJAJE IM06-12VDC is a compact 12V DC relay designed for switching electrical circuits. It features an 8-pin configuration, making it suitable for various industrial and electronic applications where reliable switching of low-power control signals to higher-power loads is required. Relays act as electrically operated switches, allowing a small current to control a much larger current.

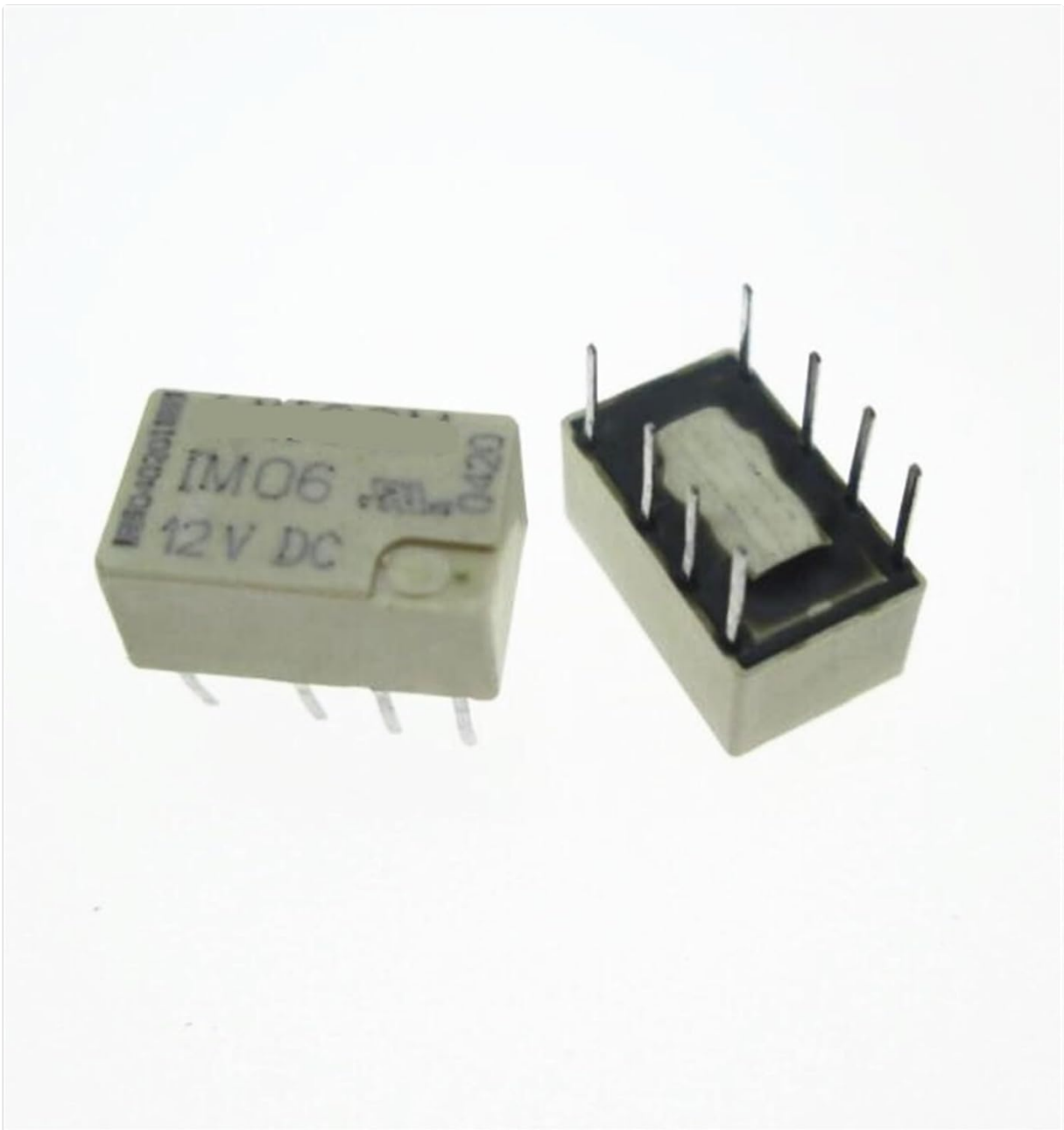


Figure 1: OLZFJAJE IM06-12VDC 8-pin relay. This image displays the compact form factor of the relay, showing its beige casing and the eight metal pins extending from the base, with 'IM06 12V DC' printed on its side.

### 3. SAFETY INFORMATION

---

- Always disconnect power to the circuit before installing, wiring, or servicing the relay.
- Ensure that the relay's voltage and current ratings are compatible with your application. Exceeding these ratings can cause damage or fire.
- Installation should be performed by qualified personnel familiar with electrical systems and safety procedures.
- Avoid touching live terminals.
- Do not operate the relay in environments with excessive moisture, dust, or corrosive gases.

### 4. SETUP AND INSTALLATION

---

The IM06-12VDC relay is designed for PCB mounting or socket integration. Proper pin identification is crucial for correct wiring.

## 4.1 Pin Configuration

This 8-pin relay typically follows a standard pinout for miniature power relays. Refer to the specific datasheet or markings on the relay for exact coil and contact pin assignments. Generally, two pins are for the coil (input), and the remaining pins are for the contacts (output), often including common (COM), normally open (NO), and normally closed (NC) terminals.

## 4.2 Wiring Instructions

1. Identify the coil terminals. Connect your 12V DC control voltage across these terminals, observing polarity if specified.
2. Identify the contact terminals (COM, NO, NC).
3. Connect the load circuit to the appropriate contact terminals. For example, to switch a load ON when the relay is energized, connect the load between the COM and NO terminals.
4. Ensure all connections are secure and properly insulated to prevent short circuits.
5. Verify that the supply voltage to the coil is 12V DC.

## 5. OPERATING INSTRUCTIONS

---

The OLZFJAJE IM06-12VDC relay operates by energizing its internal coil with a 12V DC signal. When the coil is energized, it creates a magnetic field that actuates the mechanical contacts, causing them to switch their state.

- **Energizing the Coil:** Apply 12V DC across the coil terminals. The relay will click, indicating the contacts have switched.
- **De-energizing the Coil:** Remove the 12V DC supply from the coil terminals. The magnetic field collapses, and the contacts return to their original (de-energized) state.
- **Contact Switching:** The Normally Open (NO) contacts will close when the coil is energized, and the Normally Closed (NC) contacts will open. When the coil is de-energized, NO contacts open, and NC contacts close.

## 6. MAINTENANCE

---

The IM06-12VDC relay is a sealed component and generally requires minimal maintenance. However, periodic inspection can help ensure long-term reliability.

- **Visual Inspection:** Periodically check the relay for any signs of physical damage, discoloration, or loose connections.
- **Environmental Conditions:** Ensure the operating environment remains within specified temperature and humidity ranges.
- **Cleaning:** If necessary, gently clean the exterior of the relay with a dry, soft cloth. Do not use solvents or abrasive cleaners.

## 7. TROUBLESHOOTING

---

If the relay is not functioning as expected, perform the following basic checks:

- **Relay Not Switching:**
  - Verify that 12V DC is correctly applied to the coil terminals.
  - Check for loose or incorrect wiring connections.

- Ensure the control circuit is providing sufficient current to energize the coil.
- Inspect the relay for visible damage.
- **Intermittent Operation:**
  - Check for unstable 12V DC supply to the coil.
  - Ensure connections are tight and free from corrosion.
  - Verify that the load current does not exceed the relay's contact rating.
- **Load Not Actuating:**
  - Confirm that the load is correctly wired to the appropriate NO or NC contacts.
  - Test the load independently to ensure it is functional.
  - Check for continuity across the relay contacts when energized/de-energized (with power disconnected).

## 8. SPECIFICATIONS

| Feature              | Specification             |
|----------------------|---------------------------|
| Model Number         | IM06-12VDC                |
| Brand                | OLZFJAJE                  |
| Coil Voltage         | 12V DC                    |
| Pin Configuration    | 8-Pin                     |
| Package Dimensions   | 1.18 x 0.79 x 0.39 inches |
| Item Weight          | 1.76 ounces               |
| Manufacturer         | OLZFJAJE                  |
| Date First Available | July 26, 2024             |

*Note: Contact ratings (current/voltage) are not explicitly provided in the product details. Always refer to the specific product labeling or manufacturer's datasheet for precise contact specifications before connecting loads.*

## 9. WARRANTY AND SUPPORT

For warranty information, technical support, or further inquiries regarding the OLZFJAJE IM06-12VDC relay, please contact your retailer or the manufacturer directly. Keep your purchase receipt for warranty claims.