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› EC-HPOCKET V23134-J56-X408 Automotive Relay User Manual

## EC-HPOCKET V23134-J56-X408

# Automotive Relay User Manual

Model: **V23134-J56-X408**

Brand: **EC-HPOCKET**

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of the EC-HPOCKET V23134-J56-X408 Automotive Relay. This high-quality plug-in Maxi ISO relay is designed for reliable and efficient performance in various automotive applications, featuring a 24VDC nominal coil voltage, 70A resistive load capacity, and a 1 Form A contact configuration. It is built with durable silver-based contact material and includes a 1200Ω resistor, ensuring stable operation across a wide temperature range.

## 2. PRODUCT FEATURES

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- High-quality automotive relay with a 24VDC rating and 70A capacity for reliable performance.
- Features 1 form A and 4 pins for easy installation and quick connection.
- Equipped with a resistor of 1200Ω and a contact gap of >0.8mm for optimal functionality.
- Built to withstand extreme temperatures ranging from -40 to 125°C for versatile use.
- Made with durable silver-based contact material for long-lasting performance.

## 3. SPECIFICATIONS

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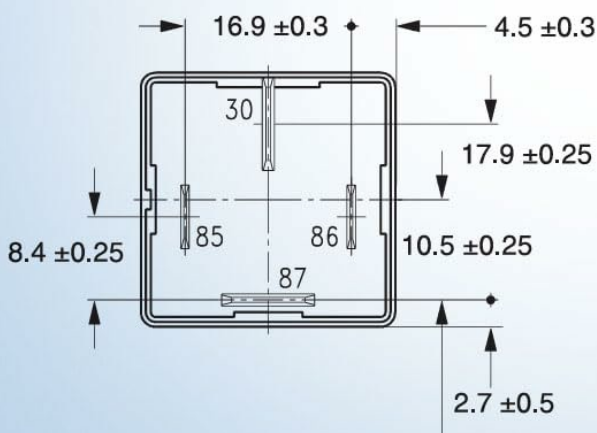
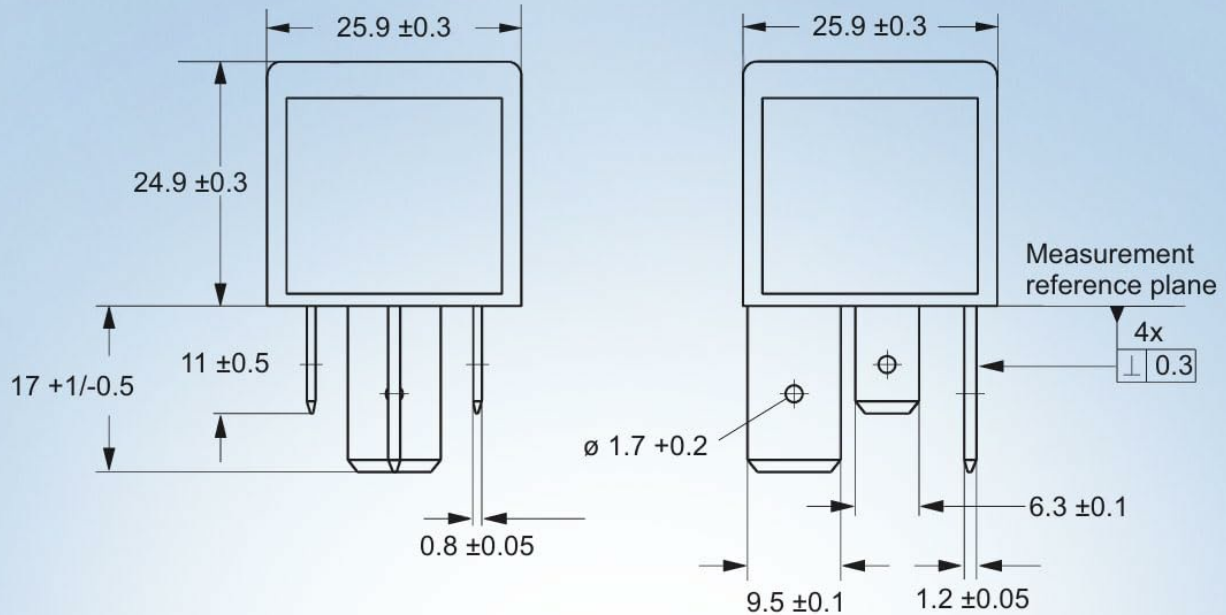
Attribute	Value
Model Number	V23134-J56-X408
Nominal Coil Voltage	24VDC
Contact Form	1 Form A (SPNO)
Resistive Load	70A
Connector Type	Quick Connect
Contact Material	Silver Alloy
Resistor	1200Ω
Weight	Approx. 38g (1.3oz)
Operating Temperature	-40 to 125°C
Contact Gap	>0.8mm
Product Dimensions	1 x 1 x 1.6 inches
Country of Origin	Portugal

## 4. SETUP AND INSTALLATION

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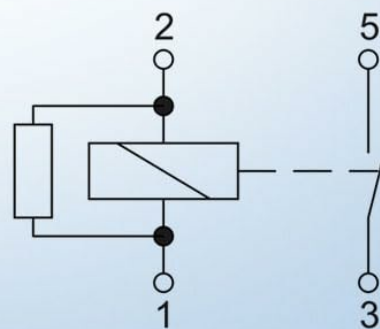
The V23134-J56-X408 relay is designed for plug-in mounting, making installation straightforward. Ensure the power supply is disconnected before attempting any installation. Identify the correct terminals for connection based on your application's wiring diagram.

# Outline Dimensions



## Wiring Diagram

NOR  
1 form A, NO with resistor



Unit: mm

Figure 4.1: Outline Dimensions and Wiring Diagram. This diagram illustrates the physical dimensions of the relay in millimeters and its internal wiring schematic (1 form A, Normally Open with resistor). The pins are clearly labeled for proper connection.

The relay features 4 pins for quick connection. Refer to the wiring diagram above for pin assignments (e.g., coil terminals, normally open contact terminals). Ensure all connections are secure and properly insulated to prevent short circuits.

## 5. OPERATION

This relay operates as a single pole, normally open (SPNO) switch. When the nominal coil voltage (24VDC) is applied across the coil terminals, the internal contacts close, allowing current to flow through the connected circuit. When the voltage is removed, the contacts return to their open state.

Typical applications for this relay include:

- ABS control systems
- Cooling fan circuits
- Energy management systems
- Engine control units
- Glow plug systems
- Heated front screens
- Ignition systems
- Lighting circuits (front, rear, fog lights)
- Main switch/supply relay functions

**Important Operating Considerations:**

- Do not switch the contacts without any load, as this may rapidly increase contact resistance.
- Do not use relays that exceed their specified coil ratings, contact ratings, or life expectancy. Doing so may result in a risk of overheating and damage to the relay or connected components.

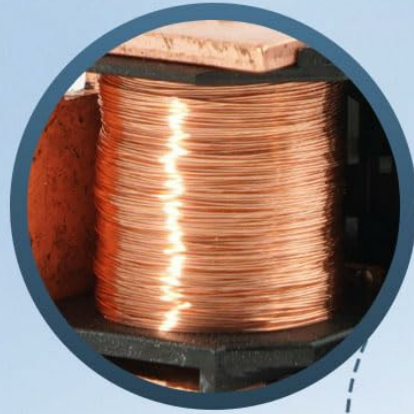
## **6. MAINTENANCE**

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The V23134-J56-X408 relay is designed for long-lasting performance with minimal maintenance. Its durable silver-based contact material contributes to its reliability.

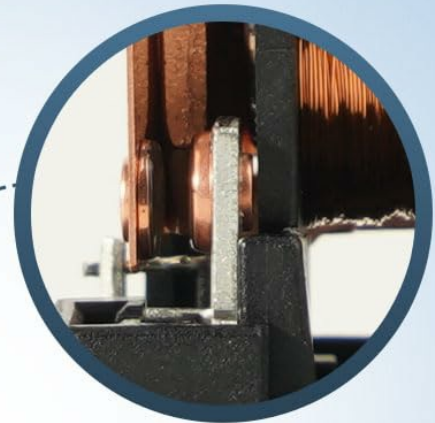
# Internal Structure

Genuine material with a long service life



## PURE COPPER COIL

NATIONAL STANDARD FOOT-TURN FULL COPPER COIL, THE WHOLE COIL IS MADE OF COPPER WIRE WHICH CAN CARRY MORE CURRENT AND WORK STABLY AND RELIABLY.



## SILVER ALLOY ENDPOINT

USING SILVER ALLOY CONTACTS, THE SURFACE IS NOT EASY TO BE OXIDIZED, HAS GOOD ELECTRICAL AND THERMAL CONDUCTIVITY, LONGER SERVICE LIFE AND DURABLE.

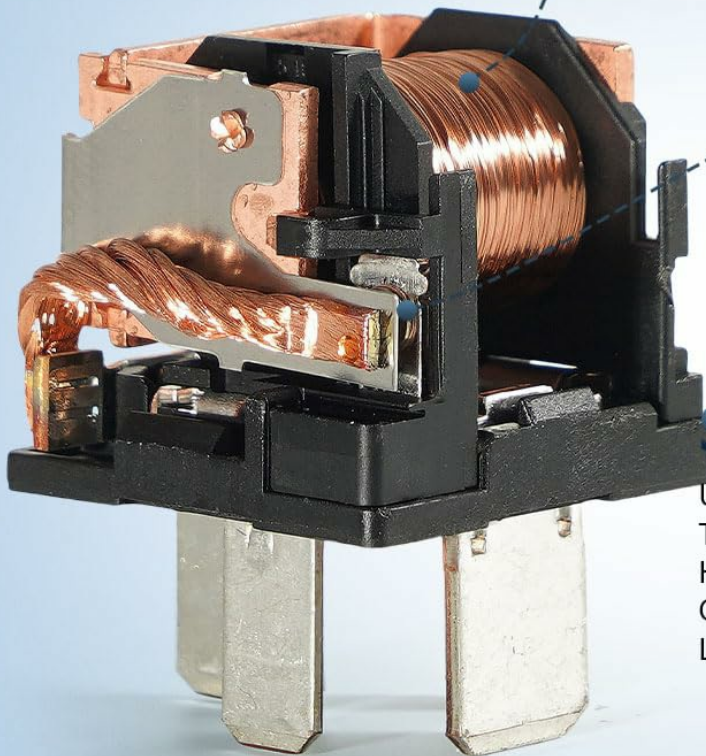


Figure 6.1: Internal Structure. This image highlights the quality components used, including a pure copper coil for stable current handling and silver alloy contacts for excellent electrical conductivity and durability.

Regularly inspect the relay and its connections for any signs of physical damage, corrosion, or loose wiring. Ensure the operating environment remains within the specified temperature range (-40 to 125°C) to prevent premature wear. Keep the relay free from excessive dust, moisture, and vibrations.

## 7. TROUBLESHOOTING

If the relay is not functioning as expected, consider the following troubleshooting steps:

1. **No Switching Action:**

- Verify that the correct nominal coil voltage (24VDC) is being supplied to the coil terminals.
- Check for loose or corroded connections at the coil terminals.
- Ensure the relay is not being operated without a load, which can affect contact resistance.

2. **Circuit Not Activating:**

- Confirm that the load circuit is properly connected to the contact terminals.
- Check for continuity across the contacts when the coil is energized.
- Ensure the current draw of the load does not exceed the relay's 70A contact rating.

3. **Overheating:**

- Immediately disconnect power if the relay is overheating.
- Verify that the relay's ratings (coil voltage, contact current) are not being exceeded by the application.
- Ensure adequate ventilation around the relay.

4. **Intermittent Operation:**

- Check for unstable voltage supply to the coil.
- Inspect for loose connections or damaged wiring.
- Ensure the relay is not subjected to excessive vibration.

If issues persist after performing these checks, it may indicate a faulty relay, and replacement may be necessary.

## 8. SAFETY INFORMATION

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Always adhere to the following safety guidelines when handling or installing the relay:

- **Disconnect Power:** Always ensure that the power supply to the circuit is completely disconnected before installing, removing, or servicing the relay.
- **Correct Voltage:** Use only the specified nominal coil voltage (24VDC). Applying incorrect voltage can damage the relay or pose a safety hazard.
- **Current Ratings:** Do not exceed the maximum contact current rating (70A). Overloading can lead to overheating, fire, or relay failure.
- **Proper Connections:** Ensure all electrical connections are secure, clean, and properly insulated to prevent short circuits and electrical shocks.
- **Environmental Conditions:** Operate the relay within its specified temperature range (-40 to 125°C) and avoid exposure to excessive moisture, dust, or corrosive substances.
- **Professional Installation:** If you are unsure about any aspect of the installation or wiring, consult a qualified automotive electrician or technician.

## 9. WARRANTY AND SUPPORT

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For information regarding warranty coverage, technical support, or replacement parts for your EC-HPOCKET V23134-J56-X408 relay, please refer to the original purchase documentation or contact the seller directly.

You may also visit the official EC-HPOCKET store on Amazon for additional product information and support. [EC-HPOCKET Store](#).

