

## NENEN EOCR-FEZ

# NENEN EOCR-FEZ Split Screen Motor Protector User Manual

Model: EOCR-FEZ

## 1. INTRODUCTION

The NENEN EOCR-FEZ Split Screen Motor Protector is an advanced device designed to provide comprehensive protection for industrial automation equipment. It ensures the longevity and safe operation of motors by offering high-sensitivity detection and rapid response to power failures, thereby minimizing damage risks and ensuring stable production environments.

Key features include:

- **Comprehensive motor protection:** Extends equipment lifespan and ensures safe operation.
- **High-sensitivity detection and rapid response:** Quick protection against power failures, reducing damage risk and ensuring stable production.
- **Easy installation and compatibility:** Compact design, compatible with a wide range of motor sizes.
- **Durable and reliable, quality assurance:** Adapts to various industrial environments, stable performance.
- **Easy to operate:** Meets the needs of different working conditions, convenient and efficient to use.

## 2. SAFETY INSTRUCTIONS

Always adhere to the following safety guidelines when installing, operating, or maintaining the EOCR-FEZ Motor Protector:

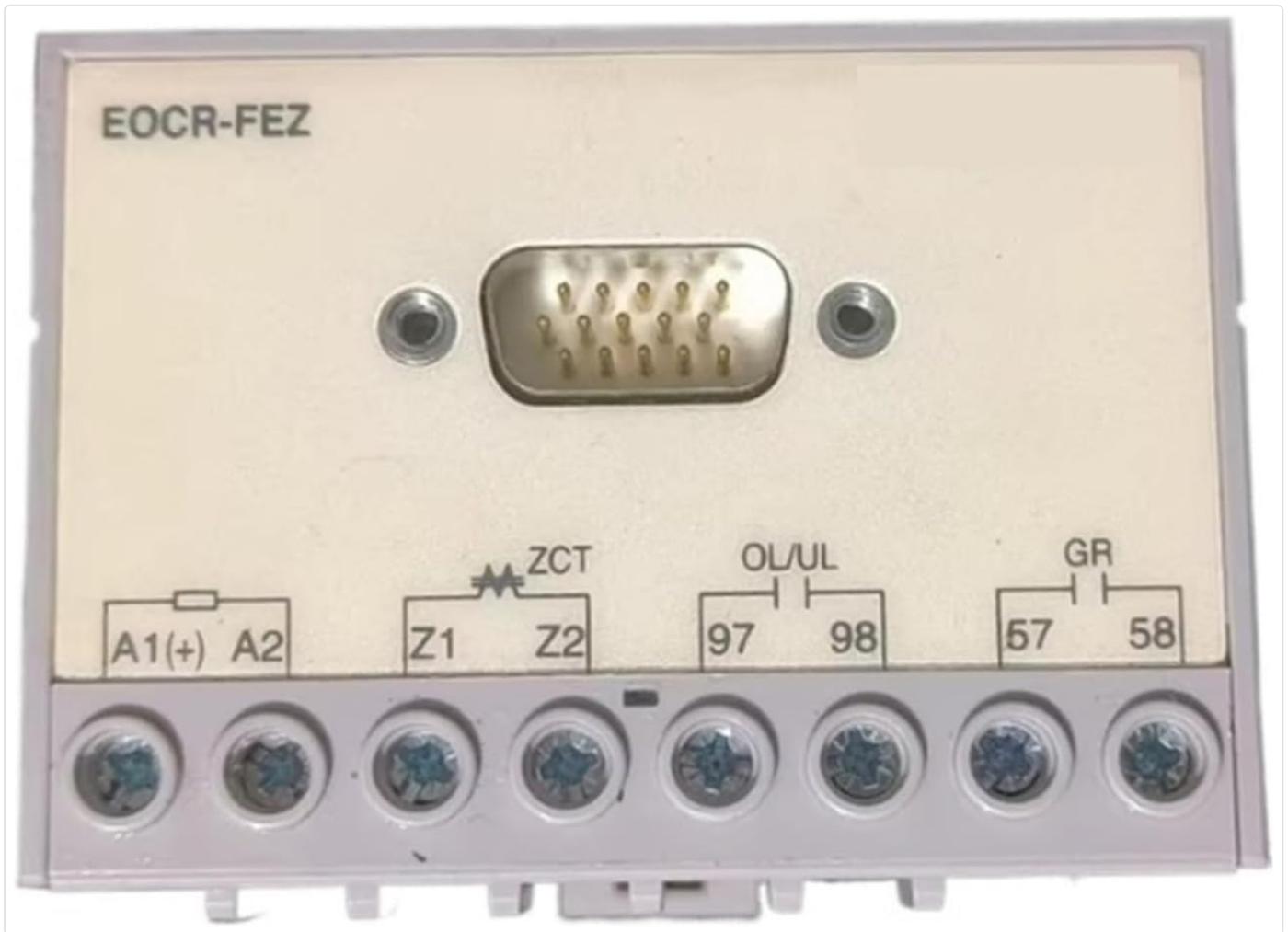
- **Electrical Safety:** Ensure power is disconnected before any installation or maintenance work. Only qualified personnel should perform electrical connections.
- **Proper Installation:** Install the device in a dry, well-ventilated area, away from direct sunlight, excessive heat, or corrosive substances.
- **Grounding:** Ensure the device is properly grounded to prevent electrical shock.
- **Environmental Conditions:** Do not expose the device to extreme temperatures or humidity beyond its specified operating range.
- **Authorized Use:** Use the protector only for its intended purpose as a motor protection device.

## 3. PRODUCT OVERVIEW

The EOCR-FEZ motor protector features a compact design with clearly labeled terminals for easy integration into industrial control systems. It includes a split screen for displaying critical operational data.

### 3.1. Components and Features

The device consists of the main protection unit and various connection points for motor current sensing and control signals.



**Figure 1:** Front view of the NENEN EOCR-FEZ Motor Protector. This image displays the main unit with clearly labeled screw terminals for A1(+), A2, Z1, Z2, OL/UL (97, 98), and GR (57, 58). A multi-pin connector, resembling a VGA port, is visible at the top center, likely for display or configuration. The model name "EOCR-FEZ" is printed on the top left.



**Figure 2:** Side view of the NENEN EOCR-FEZ Motor Protector. This image highlights the compact and modular design of the protector, showing its depth and how it might fit into an industrial control panel. A small grey rectangular piece is visible to the right, possibly an accessory or a part of the mounting mechanism.

## 4. SETUP AND INSTALLATION

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Follow these general steps for installing the EOCR-FEZ Motor Protector:

1. **Mounting:** Securely mount the EOCR-FEZ unit within your control panel using appropriate fasteners.
2. **Power Connection:** Connect the main power supply to the designated terminals (e.g., A1(+), A2) as per the wiring diagram provided with your specific motor setup.
3. **Current Transformer (CT) Connection:** Connect the current transformers (ZCT) to terminals Z1 and Z2. Ensure correct polarity for accurate current sensing.
4. **Output Relay Connections:** Connect the overload/underload (OL/UL) relay contacts (97, 98) and ground fault (GR) contacts (57, 58) to your control circuit as required for alarm or trip functions.
5. **Display/Communication:** If an external display or communication module is used, connect it to the multi-pin port on

the unit.

6. **Verification:** Double-check all wiring connections for correctness and security before applying power.

## 5. OPERATING INSTRUCTIONS

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Once installed and powered, the EOCR-FEZ operates by continuously monitoring the motor's electrical parameters. The split screen (if connected) will display real-time data such as current, voltage, and operational status.

- **Monitoring:** Observe the display for normal operating parameters. Any deviations may indicate a potential issue.
- **Alarm/Trip Indication:** The device will activate its output relays (OL/UL, GR) and provide visual indicators (if available) upon detecting an abnormal condition (e.g., overload, underload, ground fault).
- **Resetting:** After a trip event, identify and resolve the root cause. The device can typically be reset manually or automatically depending on configuration. Refer to the detailed programming manual for specific reset procedures.

## 6. MAINTENANCE

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The EOCR-FEZ Motor Protector is designed for low maintenance. However, periodic checks can ensure its continued reliable operation:

- **Visual Inspection:** Regularly inspect the unit for any signs of physical damage, loose connections, or dust accumulation.
- **Cleaning:** If necessary, gently clean the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Connection Integrity:** Periodically check that all terminal connections are secure.
- **Environmental Check:** Ensure the operating environment remains within specified temperature and humidity limits.

## 7. TROUBLESHOOTING

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If you encounter issues with the EOCR-FEZ Motor Protector, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Device not powering on	No power supply; Incorrect wiring; Blown fuse	Check power source; Verify wiring connections; Replace fuse if necessary.
Frequent tripping	Motor overload; Incorrect settings; Sensor malfunction	Check motor load; Review and adjust protection settings; Inspect current transformers.
Inaccurate readings	Incorrect CT ratio setting; Loose sensor connections; External interference	Verify CT ratio in settings; Secure all sensor connections; Check for sources of electromagnetic interference.

If the problem persists after attempting these solutions, contact NENEN technical support.

## 8. SPECIFICATIONS

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Item Weight	800 Grams
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<b>Package Dimensions</b>	1 x 1 x 1 cm; 800 g
<b>Assembly Required</b>	No
<b>Number of Pieces</b>	1
<b>ASIN</b>	B0FCSG2R3T
<b>First Available Date</b>	June 11, 2025

## 9. WARRANTY AND SUPPORT

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NENEN products are built for durability and reliability. While specific warranty details are not provided in this manual, please refer to your purchase documentation or the seller's policy for warranty information. The product is eligible for a 30-day return period from the date of purchase.

For technical support, inquiries, or assistance with your EOGR-FEZ Motor Protector, please contact your authorized NENEN distributor or the seller directly. Provide your product model and ASIN (B0FCSG2R3T) for faster service.