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› GEYA GYHC 2P Modular AC Contactor User Manual

GEYA GYHC OEHSNAONS-0ED290E7

GEYA GYHC 2P Modular AC Contactor User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the GEYA GYHC 2P Modular AC Contactor. This device is designed for automatic control in household and light commercial electrical systems, offering reliable switching for various loads. Please read this manual thoroughly before installation and use to ensure safe and efficient operation.



Image 1: Front view of the GEYA GYHC 2P Modular AC Contactor, showing terminals and specifications.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel. Disconnect all power before working on the contactor or connected circuits.

- Ensure the main power supply is disconnected before any installation, wiring, or maintenance procedures.
- Verify that the voltage and current ratings of the contactor match the application requirements.
- Use appropriate personal protective equipment (PPE) such as insulated gloves and safety glasses.
- Do not operate the contactor if it appears damaged or has been exposed to moisture.
- All wiring must comply with local and national electrical codes.

3. PRODUCT FEATURES

The GEYA GYHC 2P Modular AC Contactor offers robust performance and versatile application:

- **Dual Current Ratings:** Available in 40A and 63A options to manage medium to heavy household loads, including air conditioners, water heaters, and small motors.

- **Triple Contact Configurations:** Choose from 2NO (Normally Open for power switching), 2NC (Normally Closed for circuit isolation), or 1NO1NC (one Normally Open and one Normally Closed for control and feedback) to suit diverse application needs.
- **Universal Voltage Compatibility:** Features a 220V/230V AC coil, compatible with standard 50/60Hz power grids.
- **Modular DIN Rail Design:** Compact automatic operation model designed for tool-free installation in standard distribution boxes, optimizing space.
- **Application:** Ideal for household and light commercial use, suitable for remote control of lighting, heating, ventilation, and other electrical appliances.



Image 2: Diagram illustrating the 2P 40A/63A contactor with 2NO, 2NC, and 1NO1NC contact configurations.

4. INSTALLATION

The GEYA GYHC contactor is designed for easy installation on a standard 35mm DIN rail.

4.1 Mounting on DIN Rail

1. Ensure all power to the distribution box is OFF.
2. Locate an available section of the 35mm DIN rail within your electrical enclosure.

3. Align the contactor's DIN rail clip with the rail.
4. Press the contactor firmly onto the DIN rail until the clip engages and secures the device in place. Ensure it is stable and does not wobble.

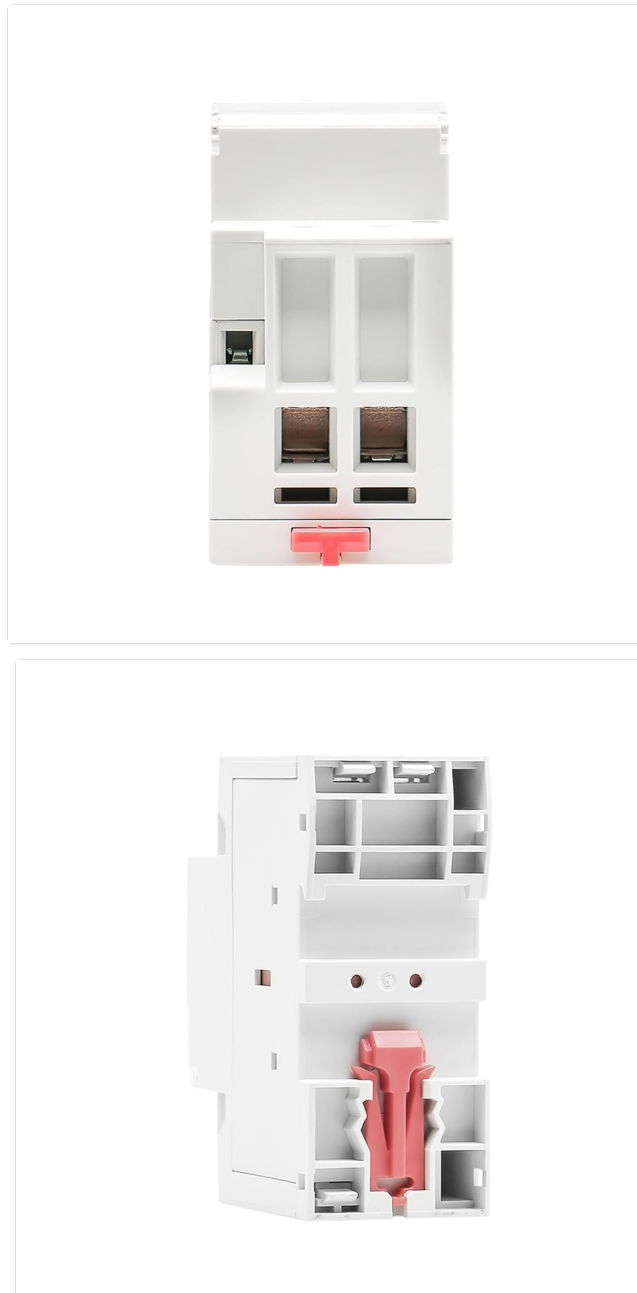


Image 3 & 4: Side views illustrating the DIN rail mounting mechanism of the contactor.

5. WIRING AND OPERATION

Proper wiring is essential for the correct function of the contactor. Refer to the wiring diagram on the product label and the following guidelines.

5.1 Terminal Connections

- **Power Terminals (1, 3, 2, 4):** These are the main circuit terminals. Connect the incoming power to terminals 1 and 3, and the load to terminals 2 and 4.
- **Coil Terminals (A1, A2):** These terminals are for the control circuit. Connect the 220V/230V AC control voltage to A1 and A2 to energize the coil and switch the main contacts.



Image 5: Angled view of the contactor, highlighting the main power and coil terminals.

5.2 Contact Configurations

The GYHC series offers different contact configurations:

- **2NO (2 Normally Open):** Both main contacts are open when the coil is de-energized and close when the coil is energized.
- **2NC (2 Normally Closed):** Both main contacts are closed when the coil is de-energized and open when the coil is energized.
- **1NO1NC (1 Normally Open, 1 Normally Closed):** One contact is open and the other is closed when the coil is de-energized. They switch states when the coil is energized.

7. TROUBLESHOOTING

If you encounter issues with your GEYA GYHC contactor, refer to the following troubleshooting guide:

- **Contactors Does Not Energize:**
 - Check if the control voltage (220V/230V AC) is present at terminals A1 and A2.
 - Verify that the control circuit is complete and there are no open switches or protective devices.
 - Inspect the coil for damage or signs of overheating.
- **Contactors Energizes but Load Does Not Receive Power:**
 - Ensure the main power supply is connected to terminals 1 and 3.
 - Check for continuity across the main contacts (1-2 and 3-4) when the coil is energized.
 - Verify that the load is correctly wired to terminals 2 and 4.
 - Check for any tripped circuit breakers or blown fuses in the main circuit.
- **Contactors Makes Humming Noise:**
 - A slight hum is normal for AC contactors. Excessive humming may indicate loose mounting, foreign objects, or an issue with the coil or armature.
 - Ensure the mounting screws are tight and the contactor is securely seated on the DIN rail.

8. SPECIFICATIONS

Specification	Value
Brand	GEYA
Model Number	GYHC OEHSNAONS-0ED290E7
Main Circuit Rating Current	40A / 63A
Main Circuit Rating Voltage	220V / 230V AC
Coil Voltage	220V / 230V AC
Frequency	50/60Hz
Number of Poles	2
Contact Configurations	2NO, 2NC, 1NO1NC
Mounting Type	35mm DIN Rail
Specification Met	UL (as per product data)

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This GEYA GYHC 2P Modular AC Contactor is covered by a standard manufacturer's warranty against defects in materials and workmanship. The specific duration and terms of the warranty may vary. Please retain your proof of purchase for warranty claims.

9.2 Technical Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact the seller or authorized distributor from whom you purchased the product. Provide your product model number and purchase details for efficient support.