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Model: LEG412408

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Legrand LEG412408 Standard Relay. Please read this manual thoroughly before installation and use to ensure proper function and safety.

SAFETY INFORMATION

WARNING: Electrical installation should only be performed by qualified personnel. Disconnect power before installation or maintenance to prevent electric shock.

- Ensure all local and national electrical codes are followed.
- Do not exceed the specified voltage and current ratings.
- Protect the device from moisture and extreme temperatures.
- Verify all connections are secure before restoring power.

PRODUCT OVERVIEW

The Legrand LEG412408 is a standard 1-pole relay designed for various electrical control applications. It features screw terminals for secure connections and operates at 250V with a 16A rating.



Figure 1: Legrand LEG412408 Standard Relay. This image shows the front view of the relay module, highlighting the 16AX, 250V~, and Legrand branding, along with the screw terminals labeled A1, A2, 1, and 2.

SPECIFICATIONS

Feature	Detail
Model Number	LEG412408
Operation Mode	Manual
Operating Voltage	250 Volts
Contact Type	Normally Open (1P)
Connector Type	Screws
Terminal	Screw
Circuit Type	1-way
Actuator Type	Screw
Contact Material	Copper
International Protection Rating	IP20
Number of Positions	1

SETUP AND INSTALLATION

- Power Disconnection:** Before beginning any installation, ensure that the main power supply to the circuit is completely disconnected at the circuit breaker or fuse box. Verify with a voltage tester.
- Mounting:** The relay is designed for DIN rail mounting. Snap the relay onto the DIN rail securely.
- Wiring Connections:** Refer to the wiring diagram (typically found on the device or packaging). Connect the control voltage to terminals A1 and A2. Connect the load circuit to terminals 1 and 2. Ensure correct polarity and secure all screw terminals firmly.
- Terminal Identification:**
 - A1, A2:** Control circuit terminals (e.g., 230V AC).
 - 1, 2:** Power circuit terminals for the load (e.g., 250V/16A).
- Verification:** Double-check all wiring connections for correctness and tightness. Ensure no bare wires are exposed.
- Power Restoration:** Once installation is complete and verified, restore power to the circuit.

OPERATING INSTRUCTIONS

The Legrand LEG412408 relay operates manually. When the control voltage is applied to terminals A1 and A2, the internal contact between terminals 1 and 2 will close, allowing current to flow to the connected load. When the control voltage is removed, the contact will open, interrupting the current to the load.

- Activation:** Apply the specified control voltage (e.g., 230V AC) to terminals A1 and A2.
- Deactivation:** Remove the control voltage from terminals A1 and A2.

MAINTENANCE

The Legrand LEG412408 relay is designed for long-term, maintenance-free operation under normal

conditions. However, periodic checks are recommended:

- **Visual Inspection:** Periodically inspect the relay for any signs of physical damage, discoloration, or loose connections.
- **Terminal Tightness:** Ensure all screw terminals remain tight to prevent overheating and intermittent operation.
- **Cleaning:** If necessary, gently clean the exterior of the relay with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Environment:** Ensure the operating environment remains within the specified temperature and humidity ranges.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Relay does not activate (load does not turn on).	No control voltage to A1/A2; incorrect wiring; faulty relay; tripped circuit breaker.	Check control voltage supply; verify wiring connections; test relay with a multimeter; reset circuit breaker.
Relay activates but load does not turn on.	No power to load circuit (terminals 1/2); faulty load; open circuit in load wiring.	Check power supply to load circuit; test the load independently; inspect load wiring for breaks.
Relay overheats.	Overcurrent; loose connections; inadequate ventilation.	Ensure load current does not exceed 16A; tighten all screw terminals; ensure proper airflow around the relay.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Legrand website or contact your local Legrand distributor. Keep your purchase receipt as proof of purchase.

Manufacturer: Legrand

Website: www.legrand.com