

NHJLFKSA NKG3

NHJLFKSA NKG3 Timer Relay LCD Time Switch 220V User Manual

INTRODUCTION

This manual provides instructions for the NHJLFKSA NKG3 Timer Relay LCD Time Switch 220V. It covers installation, operation, maintenance, and troubleshooting to ensure safe and efficient use of the device.

SAFETY INFORMATION

- **Electrical Safety:** This device operates on 220V. Installation and wiring should only be performed by qualified personnel to prevent electric shock or damage to the device.
- **Power Disconnection:** Always disconnect power before installing, wiring, or performing any maintenance on the timer relay.
- **Operating Environment:** Do not expose the device to moisture, extreme temperatures, or corrosive environments.
- **Intended Use:** Use this timer relay only for its intended purpose as a programmable time switch for electrical circuits.

PRODUCT OVERVIEW

The NHJLFKSA NKG3 is a digital programmable timer relay designed for controlling electrical circuits based on preset time schedules. It features an LCD display for easy programming and monitoring.

Key Features:

- Digital LCD display for clear time and program indication.
- Programmable daily/weekly schedules.
- Relay output for controlling external loads.
- Compact design for DIN rail mounting.



Figure 1: Front view of the NKG3 Timer Relay. This image displays the device's front panel, including the LCD screen which shows "17:06", and the control buttons labeled "ON", "MD", "R", and arrow buttons for navigation and setting adjustments. Terminal connections A1, A2, 3, 4 are visible at the top, and 18, 15, 16 at the bottom.

SPECIFICATIONS

Feature	Value
Model Number	NKG3
Input Voltage	220V
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces
Manufacturer	NHJLFKSA
Number of Pieces	1

SETUP AND INSTALLATION

- Power Disconnection:** Ensure the main power supply to the circuit is completely disconnected before beginning installation.
- Mounting:** The NKG3 timer relay is designed for DIN rail mounting. Securely attach the device to a standard DIN rail in an appropriate electrical enclosure.



Figure 2: Side view illustrating the DIN rail mounting clips. This image shows the side of the timer relay with blue plastic clips designed for secure attachment to a DIN rail, indicating its installation method.

3. Wiring (Refer to Diagram): Connect the 220V power supply to terminals A1 and A2. Connect the

load to be controlled to the relay output terminals (e.g., 15, 16, 18). Refer to the wiring diagram printed on the side of the unit for precise connections.



Figure 3: Side view displaying the wiring diagram and technical labels. This image provides a closer look at the side of the timer relay, where a detailed wiring schematic and electrical specifications are printed, crucial for correct installation.

4. **Power On:** Once all connections are secure and verified, restore power to the circuit. The LCD display should illuminate.

OPERATING INSTRUCTIONS

Setting Current Time:

1. Press the "MD" button to enter time setting mode.
2. Use the arrow buttons (Up/Down) to adjust the hour and minute.
3. Press "MD" again to confirm and move to the next setting (e.g., day of the week).
4. Continue pressing "MD" and adjusting with arrow buttons until all time settings are complete.

Programming ON/OFF Schedules:

1. Press the "R" button to enter program setting mode. The display will show "1 ON".
2. Use the arrow buttons to set the desired ON time (hour and minute).
3. Press "R" again to set the OFF time for the first program ("1 OFF").
4. Repeat for additional ON/OFF programs as needed. The device typically supports multiple programs.
5. To exit programming mode, press the "MD" button.

Manual Override:

The "ON" button typically allows for manual override of the programmed schedule, cycling through ON, OFF, and AUTO modes. Consult the specific button functions printed on the device or a more detailed diagram if available.

MAINTENANCE

- **Cleaning:** Gently wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check wiring connections for tightness and signs of wear or damage.
- **Battery (if applicable):** Some timer relays include a backup battery for retaining settings during power outages. If the display is blank or settings are lost frequently, the internal battery may need replacement (consult a qualified technician).

TROUBLESHOOTING

- **Device not powering on:**
 - Check if the 220V power supply is connected correctly to terminals A1 and A2.
 - Verify that the main power supply to the circuit is active.
- **Load not switching according to program:**
 - Ensure the current time and day are set correctly.
 - Verify that the ON/OFF programs are correctly entered and enabled.
 - Check the manual override setting; ensure it is in AUTO mode if automatic operation is desired.
 - Confirm the load is correctly wired to the relay output terminals.
- **Display is blank or flickering:**
 - Check for stable 220V power supply.
 - If the issue persists, the device may require professional inspection or replacement.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact the manufacturer, NHJLFKSA, directly. Specific warranty terms and support contact

details are not available in this manual.