SOBOUR ETR4-69-A

SOBOUR ETR4-69-A DIN Rail Multi-Function Timer Relay User Manual

Model: ETR4-69-A | Brand: SOBOUR

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the SOBOUR ETR4-69-A DIN Rail Multi-Function Timer Relay. This device is designed for industrial and automation applications requiring precise timing control within a voltage range of 24 to 240V AC/DC. It features a Single Pole Double Throw (SPDT) contact configuration and a wide timing range from 0.05 seconds to 100 hours.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this device. Failure to comply with these instructions may result in electric shock, fire, or serious injury.

- **Electrical Hazard:** Installation and maintenance should only be performed by qualified personnel.
- **Power Disconnection:** Always disconnect power to the circuit before installing, wiring, or servicing the relay.
- **Voltage Compatibility:** Ensure the supply voltage matches the relay's specified operating voltage range (24-240V AC/DC).
- **Proper Wiring:** Use appropriate wire gauges and ensure all connections are secure to prevent overheating or short circuits.
- **Environmental Conditions:** Do not expose the device to excessive moisture, dust, or extreme temperatures outside its specified operating range.

3. PRODUCT OVERVIEW

The SOBOUR ETR4-69-A is a compact, DIN rail mountable multi-function timer relay. It features intuitive controls for setting time range, specific time, and operating function.

Figure 1: SOBOUR ETR4-69-A DIN Rail Multi-Function Timer Relay. This image shows the front and side view of the timer relay, highlighting the input terminals at the top, the three adjustment dials labeled 'Range', 'Time', and 'Function', and the output terminals at the bottom. The model number 'ETR4-69-A' is visible on the front panel.

Key Components:

- **Input Terminals (1-4, 15, B1):** For power supply and control signals.
- **Output Terminals:** For connecting to the controlled load (SPDT contacts).
- **"Range" Dial:** Selects the overall time range (e.g., seconds, minutes, hours).
- **"Time" Dial:** Adjusts the specific time value within the selected range.
- **"Function" Dial:** Selects the desired operating mode (e.g., ON-delay, OFF-delay, Flasher).
- **"Rel" Indicator:** Status LED for relay output.
- **"Power" Indicator:** Status LED for power supply.

4. SETUP AND INSTALLATION

4.1 Mounting

The ETR4-69-A is designed for DIN rail mounting. Ensure the DIN rail is securely fastened within an enclosure that provides adequate ventilation and protection from environmental factors.

1. Align the relay's mounting clip with the DIN rail.
2. Press the relay firmly onto the rail until it clicks into place.
3. Verify that the relay is securely attached and does not wobble.

4.2 Wiring

Refer to the wiring diagram provided on the side of the relay or in the product documentation for specific connection details. The relay supports a wide operating voltage range of 24 to 240V AC/DC.

- **Power Supply:** Connect the appropriate voltage (24-240V AC/DC) to the designated power terminals. Observe polarity for DC connections.
- **Control Input:** If applicable, connect control signals to the specified input terminals.
- **Load Connection:** Connect the load to the SPDT output terminals. The SPDT configuration provides one common (COM), one normally open (NO), and one normally closed (NC) contact.
- **Terminal Tightening:** Ensure all terminal screws are tightened to the recommended torque to prevent loose connections.

5. OPERATING INSTRUCTIONS

The ETR4-69-A offers multiple timing functions and a broad time range, adjustable via the three front-panel dials.

1. **Select Function:** Rotate the "Function" dial to choose the desired operating mode (e.g., ON-delay, OFF-delay, interval, flasher). Refer to the product's specific function codes for detailed descriptions.
2. **Select Time Range:** Rotate the "Range" dial to set the appropriate time scale (e.g., 0.05s-1s, 1s-10s, 1m-10m, 1h-10h, up to 100h).
3. **Set Time Value:** Rotate the "Time" dial to precisely set the required time duration within the selected range. This dial typically represents a percentage or multiplier of the chosen range.
4. **Power On:** Apply power to the relay. The "Power" LED should illuminate.
5. **Monitor Operation:** Observe the "Rel" LED to confirm the relay's output status changes according to the selected function and set time.

Note: Specific function descriptions and their corresponding dial positions are usually printed on the device or provided in supplementary documentation.

6. MAINTENANCE

The SOBOUR ETR4-69-A is designed for reliable, long-term operation with minimal maintenance. However, periodic checks can help ensure optimal performance.

- **Cleaning:** Keep the relay clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Connection Check:** Periodically inspect all wiring connections to ensure they remain tight and free from corrosion.
- **Environmental Inspection:** Ensure the operating environment remains within the specified temperature and humidity limits.
- **Visual Inspection:** Check for any signs of physical damage, discoloration, or overheating.

7. TROUBLESHOOTING

If the timer relay does not operate as expected, refer to the following common issues and solutions:

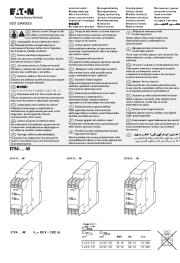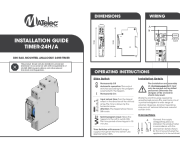| Problem	Possible Cause	Solution
No power indication (Power LED off)	No power supply; incorrect voltage; loose wiring.	Check power source, verify voltage (24-240V AC/DC), inspect wiring connections.
Relay not switching (Rel LED off/incorrect)	Incorrect function/time setting; faulty load; relay failure.	Verify "Function", "Range", and "Time" dial settings. Test the load independently. If problem persists, relay may be faulty.
Inaccurate timing	Incorrect "Range" or "Time" dial setting.	Re-adjust "Range" and "Time" dials carefully according to desired duration.

If troubleshooting steps do not resolve the issue, contact SOBOUR technical support for further assistance.

8. SPECIFICATIONS

Parameter	Value
Model	ETR4-69-A
Brand	SOBOUR
Operating Voltage	24 - 240V AC/DC
Contact Type	SPDT (Single Pole Double Throw)
Time Range	0.05 seconds to 100 hours
Functions	Multi-Function Timer
Mounting Type	DIN Rail
Operation Mode	Automatic
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.1 Pounds

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact your SOBOUR authorized dealer or customer service. Keep your purchase receipt for warranty claims.
Manufacturer: SOBOUR

Related Documents - ETR4-69-A

[Eaton ETR4 Series Timing and Control Relays - Instruction Leaflet](#)

Instruction leaflet for Eaton ETR4 series timing relays, multi-function relays, and star-delta relays, detailing installation, operation, settings, and safety precautions.

[MATELEC TIMER-24H/A Analogue 24hr DIN Rail Timer - Installation Guide](#)

Comprehensive installation guide for the MATELEC TIMER-24H/A analogue 24-hour DIN rail mounted time switch, including technical specifications, operating instructions, and safety information.

[JABLOTRON JA-110N-DIN Bus Power Supply Module for DIN Rail - Technical Specifications and Installation](#)

Comprehensive technical specifications and installation guidance for the JABLOTRON JA-110N-DIN bus power supply module, detailing its features, electrical characteristics, environmental requirements, and compliance information.

[Aqua Control C4099N Watertight Tap Timer User Manual](#)

Comprehensive guide to installing, setting up, and operating the Aqua Control C4099N watertight tap timer for garden irrigation. Features include manual watering, delay function, and battery status indicator.

[JABLOTRON JA-110N-DIN Bus Power Supply Module PG - DIN Rail Installation and Specifications](#)

Detailed technical specifications and installation guide for the JABLOTRON JA-110N-DIN bus power supply module PG for DIN rail mounting. Learn about its features, electrical characteristics, and compliance.

[Melnor Time-A-Matic Electronic Water Timer Model 100: Operating Instructions and Warranty](#)

Detailed operating instructions, programming guide, and warranty information for the Melnor Time-A-Matic Electronic Water Timer Model 100. Learn how to set start times, watering durations, and use manual controls.