

CROUZET MAR1-88827115

CROUZET MAR1-88827115 Timed Relay Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the **CROUZET MAR1-88827115 Timed Relay**. This device is designed for various industrial applications, particularly in commercial kitchen equipment such as electric ovens, gas ovens, electric hot air ovens, and gas hot air ovens. Adherence to these instructions ensures proper functionality and extends the product's lifespan.

2. SAFETY INFORMATION

- **Electrical Hazard:** Installation and maintenance should only be performed by qualified personnel. Disconnect power before working on the device.
- **Voltage Compatibility:** Ensure the supply voltage matches the relay's specifications (24-240 VAC / 24-48 VDC).
- **Overcurrent Protection:** Install appropriate overcurrent protection devices in the circuit.
- **Environmental Conditions:** Do not expose the relay to excessive moisture, dust, or extreme temperatures outside its operating range.

3. PRODUCT OVERVIEW

The CROUZET MAR1-88827115 is a versatile timed relay featuring a single-pole changeover (1CO) contact. It is designed for precise timing control in industrial environments. Key features include:

- **Connection Type:** Terminal connection for secure wiring.
- **Mounting:** Designed for DIN rail mounting, facilitating easy integration into control panels.
- **Operating Mode:** Automatic operation.
- **Switching Capacity:** 8 A.
- **Voltage Range:** Wide operating voltage from 24-240 VAC to 24-48 VDC.
- **Time Range:** Adjustable timing from 0.1 seconds to 100 hours.

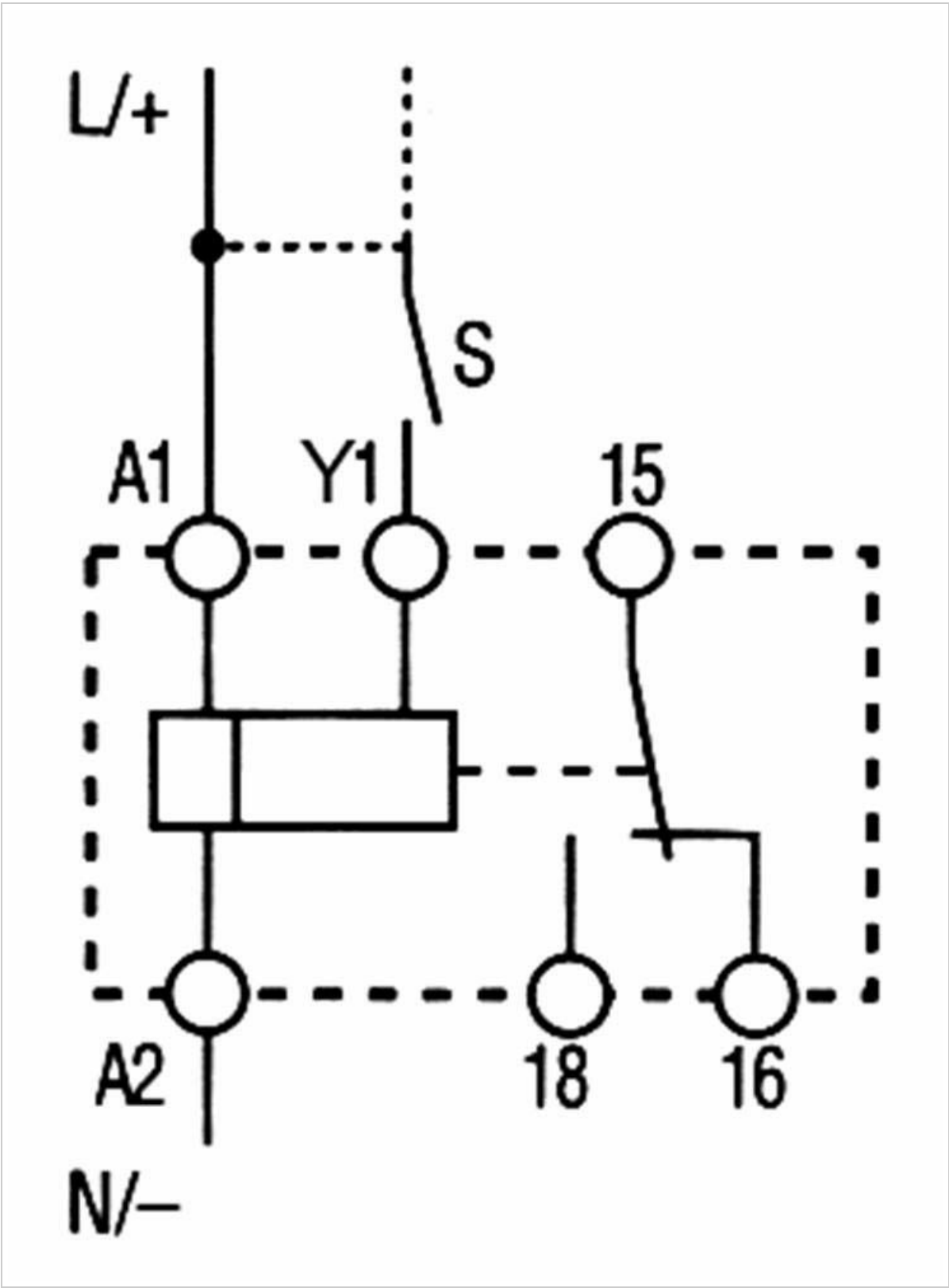


Figure 1: CROUZET MAR1-88827115 Timed Relay. This image shows the general appearance of the timed relay, typically featuring connection terminals and possibly adjustment dials.

4. SPECIFICATIONS

Specification	Value
Manufacturer	CROUZET
Manufacturer Part Number	MAR1-88827115

Specification	Value
Connector Type	Terminal Connection
Contact Type	Normally Open (1CO)
Mounting Type	DIN Rail Mounting
Operating Mode	Automatic
Operating Duration (Max)	100 Hours
Switching Power	8 A
Voltage Range	24-240 VAC / 24-48 VDC
Time Range	0.1 s - 100 h

5. INSTALLATION

The CROUZET MAR1-88827115 Timed Relay is designed for easy installation on a standard DIN rail. Ensure all power is disconnected before proceeding with installation.

5.1 Mounting

1. Locate a suitable DIN rail within your control panel.
2. Align the relay's mounting clip with the DIN rail.
3. Press firmly until the relay snaps securely onto the rail.

5.2 Wiring

Refer to the wiring diagram below for correct terminal connections. Use appropriate wire gauges for the current and voltage ratings.



Figure 2: Wiring Diagram for CROUZET MAR1-88827115 Timed Relay. This diagram illustrates the electrical connections: L/+ and N/- for power input, A1 and A2 for the coil, Y1 for control input, and contacts 15 (common), 16 (normally closed), and 18 (normally open).

- **Power Supply:** Connect the live (L/+) and neutral (N/-) or positive (+) and negative (-) power supply to terminals **A1** and **A2**.
- **Control Input:** Terminal **Y1** serves as a control input, often used for specific timing functions or external trigger.
- **Output Contacts:** The relay provides a single changeover contact:
 - Terminal **15**: Common contact.
 - Terminal **16**: Normally Closed (NC) contact (closed when relay is de-energized).
 - Terminal **18**: Normally Open (NO) contact (open when relay is de-energized).
- **External Switch (S):** An external switch 'S' may be connected as shown in the diagram for specific control logic, such as starting or stopping the timing function.

Note: Ensure all connections are tight and secure to prevent intermittent operation or electrical hazards.

6. OPERATION

The CROUZET MAR1-88827115 Timed Relay operates automatically once configured and powered. Its primary function is to provide a time-delayed switching action.

6.1 Setting the Time Delay

The relay offers an adjustable time range from 0.1 seconds to 100 hours. The specific method for setting the time delay (e.g., via rotary switches, potentiometers) depends on the exact variant of the MAR1 series. Consult the detailed technical datasheet or the markings on the device itself for precise adjustment instructions.

6.2 Functional Principle

Upon activation (e.g., by applying power to A1/A2 or triggering via Y1/S), the relay initiates its timing sequence. After the set delay, the internal contacts (15-16 and 15-18) will change state, controlling the connected load. The operating mode (e.g., on-delay, off-delay, pulse) is typically pre-defined or selectable on the device.

7. MAINTENANCE

The CROUZET MAR1-88827115 Timed Relay is designed for long-term, reliable operation with minimal maintenance. However, periodic checks can help ensure optimal performance.

- **Cleaning:** Keep the relay free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- **Connection Checks:** Periodically inspect terminal connections to ensure they remain tight and free from corrosion.
- **Environmental Inspection:** Ensure the operating environment remains within specified temperature and humidity limits.
- **No User-Serviceable Parts:** The relay contains no user-serviceable parts. Do not attempt to open or repair the unit.

8. TROUBLESHOOTING

If the timed relay is not functioning as expected, consider the following common issues and solutions:

- **Relay Does Not Energize:**
 - Check the power supply to terminals A1 and A2. Ensure correct voltage (24-240 VAC / 24-48 VDC) is present.
 - Verify wiring connections according to the diagram (Figure 2).
 - Ensure any external control inputs (Y1, S) are correctly activated.
- **Incorrect Timing:**
 - Recheck the time setting on the relay.
 - Ensure the operating mode is correctly selected (if applicable).
- **Output Contacts Not Switching:**
 - Confirm the relay is energizing and timing correctly.
 - Check the load connected to contacts 15, 16, and 18 for proper wiring and functionality.
 - Ensure the load current does not exceed the 8 A switching capacity.

For persistent issues or complex diagnostics, contact a qualified electrician or CROUZET technical support.

9. WARRANTY AND SUPPORT

For information regarding the warranty period and terms for the CROUZET MAR1-88827115 Timed Relay, please refer to the documentation provided with your purchase or visit the official CROUZET website. Technical support can be obtained by contacting CROUZET customer service or your authorized distributor. Please have your product model number (MAR1-88827115) and purchase details available when seeking support.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question