## Finder 22.32.0.024.4320

# Finder 22.32.0.024.4320 Modular Contactor User Manual

24V AC/DC Coil, DPST-NO 25A, LED & Mechanical Indicator

## 1. Introduction and Overview

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Finder 22.32.0.024.4320 Modular Contactor. This device is designed for controlling electrical loads in various industrial and commercial applications. It features a 24V AC/DC coil, DPST-NO (Double Pole Single Throw - Normally Open) contacts rated at 25A, and integrated LED and mechanical indicators for status monitoring.
Please read this manual thoroughly before attempting any installation or operation to ensure proper functionality and safety.

## 2. Safety Information

**WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel.**

- Always disconnect power to the circuit before installing, servicing, or removing the contactor.
- Ensure all wiring complies with local and national electrical codes.
- Verify the voltage and current ratings of the contactor match the application requirements.
- Do not operate the contactor if it appears damaged.
- Use appropriate personal protective equipment (PPE) during installation and maintenance.

## 3. Product Features

- **Model:** Finder 22.32.0.024.4320
- **Coil Voltage:** 24V AC/DC
- **Contact Configuration:** DPST-NO (Double Pole Single Throw - Normally Open)
- **Contact Rating:** 25A
- **Contact Material:** AGSNO2 (Silver Tin Oxide) for high switching capacity and durability.

- **Indicators:** Integrated LED for coil status and mechanical indicator for contact position.
- **Mounting:** DIN Rail Mountable for easy installation in control panels.
- **Design:** Modular and compact, suitable for space-constrained applications.
- **Operation Mode:** Automatic (controlled by coil energization).

## 4. Setup and Installation

### 4.1 Mounting

The Finder 22.32.0.024.4320 contactor is designed for DIN rail mounting. To install:

1. Ensure the DIN rail is securely fastened within the enclosure.
2. Hook the top edge of the contactor onto the DIN rail.
3. Press the bottom edge of the contactor firmly until it clicks into place on the DIN rail.
4. Verify the contactor is securely attached and does not wobble.

### 4.2 Wiring Connections

Refer to the wiring diagram and terminal markings on the contactor for correct connections. The contactor has two main sets of terminals:

- **Coil Terminals (A1, A2):** Connect the 24V AC/DC control voltage to these terminals. Polarity is generally not critical for AC/DC coils, but always follow specific instructions if provided.
- **Power Contact Terminals (1, 2, 3, 4):** These are the main power contacts. Terminals 1 and 3 are the inputs, and 2 and 4 are the outputs for the two normally open poles. Connect the load circuit to these terminals.

Ensure all wire connections are tight and secure to prevent loose connections, which can lead to overheating or intermittent operation.


*Figure 1: Finder 22.32.0.024.4320 Modular Contactor. This image displays the Finder 22.32.0.024.4320 modular contactor, showing its compact design, terminal connections, and the integrated LED and mechanical status indicators. The model number and electrical ratings are visible on the front panel.*

## 5. Operating Instructions

The Finder 22.32.0.024.4320 is an automatically operated modular contactor. Its function is to switch electrical loads on or off based on the energization of its control coil.

1. **De-energized State:** When no voltage is applied to the coil terminals (A1, A2), the contactor's normally open (NO) power contacts (1-2 and 3-4) remain open. The LED indicator will be off, and the mechanical indicator will show the 'open' position.
2. **Energized State:** When the rated 24V AC/DC control voltage is applied to the coil terminals (A1, A2), the coil energizes, causing the contacts to close. The LED indicator will illuminate, and the mechanical indicator will show the 'closed' position. This action connects the load circuit.
3. **Automatic Operation:** The contactor will maintain its energized state as long as the control voltage is present. When the control voltage is removed, the coil de-energizes, and the contacts return to their normally open position, disconnecting the load.

Monitor the LED and mechanical indicators to confirm the operational status of the contactor.

## 6. Maintenance

Regular maintenance helps ensure the longevity and reliable operation of the contactor.

- **Visual Inspection:** Periodically inspect the contactor for any signs of physical damage, discoloration, or loose connections.
- **Cleaning:** If necessary, gently clean the exterior of the contactor with a dry, lint-free cloth. Do not use solvents or abrasive cleaners. Ensure power is disconnected before cleaning.
- **Terminal Tightness:** Check terminal screws for tightness, especially after initial installation and during routine maintenance. Loose connections can cause overheating.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent premature failure.

## 7. Troubleshooting

If the contactor is not functioning as expected, consider the following troubleshooting steps:

- **Contactor Not Engaging:**
  - Verify that the correct control voltage (24V AC/DC) is applied to terminals A1 and A2.
  - Check for loose wiring connections at the coil terminals.
  - Ensure the control circuit is complete and there are no open circuits.
  - Inspect the coil for any visible damage.
- **Contacts Not Closing/Opening Properly:**
  - If the coil is energized but contacts do not close, there might be a mechanical obstruction or internal fault.

- If contacts remain closed after coil de-energization, check for contact welding due to overload or short circuit.

- **Overheating:**
  - Check for loose power connections, which can cause resistance and heat.
  - Ensure the load current does not exceed the 25A rating of the contacts.
  - Verify adequate ventilation around the contactor.

If issues persist after troubleshooting, contact a qualified electrician or Finder technical support.

## 8. Specifications

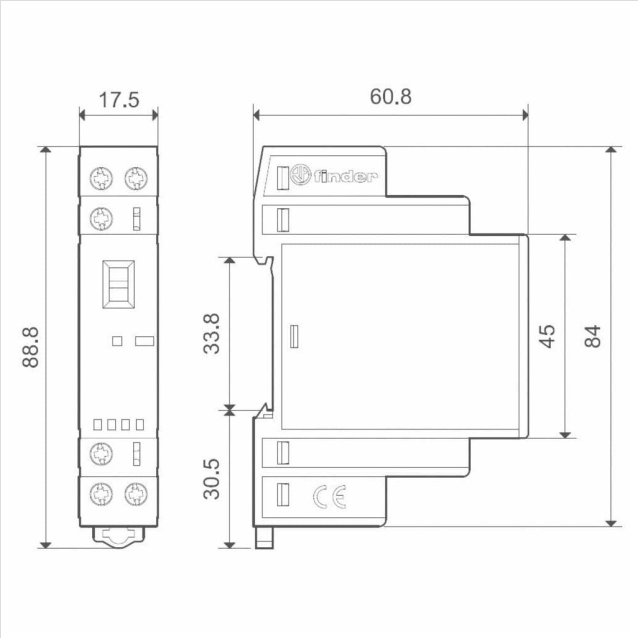


*Figure 2: Dimensional Drawing. This technical drawing illustrates the precise dimensions of the Finder 22.32.0.024.4320 modular contactor in millimeters, including height, width, and depth, crucial for installation planning and panel integration.*

| Parameter | Value |
|---|---|
| Model Number | 22.32.0.024.4320 |
| Coil Voltage | 24V AC/DC |
| Contact Configuration | DPST-NO |
| Contact Rating | 25A |
| Contact Material | AGSNO2 |
| Indicators | LED & Mechanical |
| Mounting Type | DIN Rail Mount |
| Product Dimensions (L x W x H) | 0.69 x 2.39 x 3.31 inches (17.5 x 60.8 x 84 mm approx.) |
| Item Weight | 3.88 ounces (110 grams approx.) |

| Parameter | Value |
|---|---|
| Manufacturer | FINDER |
| Operation Mode | Automatic |

## 9. Warranty and Support

For warranty information, please refer to the documentation provided with your purchase or contact your authorized Finder distributor. For technical support or further inquiries, please visit the official Finder website or contact their customer service department.
You can find more information about Finder products at theFinder Store.



### Related Documents - 22.32.0.024.4320

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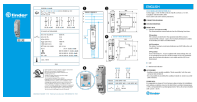
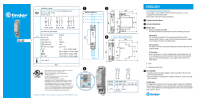
|  | Finder 22.32 Modular Contactors 25A Technical Data Sheet<br>Technical specifications and connection diagram for the Finder 22.32 modular contactor, a 25A device with AC/DC coil and optional auxiliary modules. |
|  | Finder 22.32 Modular Contactor 25 A Technical Data Sheet<br>Technical specifications and operational details for the Finder 22.32 modular contactor, a 25A device compliant with EN 61095, featuring a universal AC/DC coil and compatibility with auxiliary contact modules. Includes connection diagrams, outline drawings, and UL listing information. |
|  | Finder Step Relays - Series 27 Technical Specifications and Ordering Guide<br>Explore Finder's Series 27 step relays, electromechanical relays for lighting control and automation. View technical specifications, ordering information, and wiring diagrams for 1 NO and 2 NO configurations. |
|  | Finder Bliss2 Smart Thermostat & Gateway2: User Manual and Installation Guide<br>This document provides a comprehensive user manual and installation guide for the Finder Bliss2 smart thermostat and the 2nd generation Finder Gateway2. It details technical specifications, installation procedures, device configuration via the Finder Bliss app, operation modes, screen icons, and troubleshooting. |

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|  | [Relés Auxiliares Modulares Finder Série 22 20A \| Ficha Técnica]<br>Especificações técnicas detalhadas, características e informações de codificação para relés auxiliares modulares Finder Série 22 (20A), incluindo os modelos 22.21, 22.22, 22.23 e 22.24. |
|  | [Finder 80.51 Multi-Function Modular Timer Instruction Manual]<br>Detailed instruction manual for the Finder 80.51 Multi-Function Modular Timer, covering specifications, installation, wiring diagrams, functions, and operating conditions. Includes technical data for AC/DC voltage, contact ratings, and environmental requirements. |