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## Schneider Electric LC1D40F7

# SCHNEIDER ELECTRIC Contactor User Manual

Model: LC1D40F7

Brand: Schneider Electric

## INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Schneider Electric LC1D40F7 Contactor. This device is designed for controlling electrical circuits, specifically for switching power to electric motors and other resistive loads. It is rated for 600-Vac and 40-Amp applications.

## SAFETY INFORMATION

**WARNING:** Risk of electric shock or arc flash. This equipment must be installed and serviced by qualified electrical personnel only. Failure to follow these instructions will result in death or serious injury.

- Always disconnect power before working on or near the contactor.
- Use proper personal protective equipment (PPE) as required by local regulations.
- Ensure all wiring conforms to national and local electrical codes.
- Do not operate the contactor if it is damaged or appears to be malfunctioning.
- Verify correct voltage and current ratings before connection.

## PRODUCT OVERVIEW

The Schneider Electric LC1D40F7 Contactor is a robust device used in industrial and commercial applications for switching electrical loads. It features main power terminals (L1, L2, L3, T1, T2, T3) and auxiliary contacts (e.g., 13 NO, 14 NO, 21 NC, 22 NC) for control circuit integration.



Figure 1: Front view of the Schneider Electric LC1D40F7 Contactor. Visible are the main power terminals L1, L2, L3 at the top, and T1, T2, T3 at the bottom. Auxiliary contacts such as 13 NO (Normally Open) and 21 NC (Normally Closed) are also indicated on the side. The model number LC1D40 is visible on the front label.

## SETUP AND INSTALLATION

1. **Mounting:** Securely mount the contactor on a DIN rail or panel using appropriate fasteners. Ensure adequate clearance for ventilation and wiring.

## 2. Power Wiring:

- Connect the incoming power supply to terminals L1, L2, and L3.
- Connect the load (e.g., motor) to terminals T1, T2, and T3.
- Ensure all connections are tight and use appropriate wire gauges for the current rating.

## 3. Control Circuit Wiring:

- Connect the control voltage to the coil terminals (A1 and A2). Refer to the contactor's label for the correct coil voltage.
- Utilize the auxiliary contacts (e.g., 13 NO, 14 NO, 21 NC, 22 NC) for interlocking, signaling, or other control functions as per your circuit design.

4. **Verification:** Before applying power, double-check all wiring connections for correctness and security.

## OPERATING INSTRUCTIONS

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The LC1D40F7 contactor operates by energizing its coil. When the coil (A1-A2) is energized with the specified control voltage, the main power contacts (L1-T1, L2-T2, L3-T3) close, allowing power to flow to the connected load.

Simultaneously, the state of the auxiliary contacts will change (NO contacts close, NC contacts open).

- To engage the contactor: Apply the rated control voltage to terminals A1 and A2.
- To disengage the contactor: Remove the control voltage from terminals A1 and A2. The main contacts will open, and auxiliary contacts will return to their normal state.

The front of the contactor typically includes a visual indicator (often a small window with a colored flag) that shows the contactor's state (engaged/disengaged).

## MAINTENANCE

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Schneider Electric contactors are designed for long-term, reliable operation with minimal maintenance. However, periodic inspection is recommended to ensure optimal performance and safety.

- **Visual Inspection:** Regularly inspect the contactor for any signs of physical damage, discoloration, or loose connections.
- **Terminal Tightness:** Periodically check and re-tighten all terminal screws to prevent overheating due to loose connections.
- **Cleanliness:** Keep the contactor free from dust, dirt, and moisture. Use a dry, lint-free cloth for cleaning. Do not use solvents.
- **Contact Wear:** While not typically user-serviceable, excessive arcing or contact pitting may indicate the need for replacement.

*Note: Any internal repairs or component replacements should only be performed by authorized service personnel.*

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Contactors does not pull in (does not engage)	No control voltage to coil (A1-A2) Incorrect coil voltage Open circuit in control wiring Damaged coil	Check control circuit power supply. Verify coil voltage matches supply. Inspect control wiring for breaks or loose connections. Replace contactor if coil is damaged.
Contactors hums excessively	Loose mounting Foreign object in magnet system Incorrect voltage	Tighten mounting screws. Inspect and clean magnet faces (ensure power is off). Verify correct control voltage.
Contactors drops out unexpectedly	Intermittent control voltage Voltage sag Overheating	Check control circuit for loose connections or faulty components. Ensure stable power supply. Verify proper ventilation and load.

## SPECIFICATIONS

Attribute	Value
Manufacturer	SCHNEIDER ELECTRIC
Part Number	LC1D40F7
Item Weight	38.9 pounds
Product Dimensions	10 x 10 x 10 inches
Item Model Number	LC1D40F7
Material	plastic, metal
Thickness	11 Inches
Item Package Quantity	1
Certification	IEC
Included Components	LC1D40F7
Batteries Included?	No
Batteries Required?	No
Date First Available	May 7, 2013

## WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official Schneider Electric website or contact their customer service. Warranty terms may vary based on region and purchase date.

You can visit the official Schneider Electric store for more information: [Schneider Electric Store](#)

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This manual is for informational purposes only. Specifications are subject to change without notice.