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ETURBEV LC1D09

ETURBEV LC1D09 D Contactor User Manual

Model: LC1D09, LC1D09BD, LC1D09BDC

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of the ETURBEV LC1D09 D Contactor. The LC1D09 series is a 3-pole (3 NO) AC-3 motor contactor designed for controlling electric motors and other resistive loads. It features a 24V coil and is rated for up to 440V and 9A.

2. Safety Information

Warning: Electrical equipment should only be installed, operated, serviced, and maintained by qualified personnel. Failure to observe this precaution can result in severe personal injury or death. Always disconnect power before working on the contactor or associated circuits.

- Ensure all local and national electrical codes are followed.
- Verify that the supply voltage and current ratings match the contactor specifications.
- Use appropriate personal protective equipment (PPE).
- Do not operate the contactor if it appears damaged.

3. Product Overview

The ETURBEV LC1D09 D Contactor is an electromechanical switching device used for remote control of power circuits. It consists of a coil, main contacts, and auxiliary contacts. When the coil is energized, it creates a magnetic field that closes the main contacts, allowing power to flow to the load. When the coil is de-energized, the contacts open, interrupting the power.
Key features include:

- 3-Pole (3 Normally Open) main contacts.
- AC-3 rating for motor control applications.
- Rated for up to 440V operational voltage.
- 9A rated operational current.
- 24V AC/DC coil voltage (depending on specific model LC1D09BD/BDC).

4. Setup and Installation

4.1 Mounting

The contactor can be mounted on a standard 35mm DIN rail or directly to a panel using screws. Ensure adequate ventilation around the contactor to prevent overheating.

1. **DIN Rail Mounting:** Snap the contactor onto the DIN rail until it clicks into place.
2. **Screw Mounting:** Use appropriate screws to secure the contactor through the designated mounting holes.

4.2 Wiring

Refer to the wiring diagram provided with the product for specific connections. Ensure all connections are tight and secure to prevent loose contacts and potential hazards.

1. **Main Power Circuit:** Connect the incoming power supply to the L1, L2, L3 terminals and the load (e.g., motor) to the T1, T2, T3 terminals.
2. **Control Circuit:** Connect the 24V control voltage to the A1 and A2 coil terminals. The specific coil voltage (AC or DC) is indicated on the contactor label (e.g., LC1D09BD for DC, LC1D09BDC for AC).
3. **Auxiliary Contacts:** If present, auxiliary contacts (e.g., NO/NC) can be used for interlocking or signaling purposes. Connect these according to your control scheme.

5. Operating Instructions

The LC1D09 D Contactor operates by energizing its coil. When the control voltage (24V) is applied to terminals A1 and A2, the coil becomes energized, causing the main contacts (L1-T1, L2-T2, L3-T3) to close. This establishes a power connection to the connected load. When the control voltage is removed, the coil de-energizes, and the main contacts open, disconnecting power to the load.

- Ensure the control circuit is properly wired and protected.
- Verify that the load current does not exceed the contactor's rated operational current (9A).
- Avoid frequent switching beyond the contactor's specified mechanical and electrical endurance.

6. Maintenance

Regular maintenance helps ensure the longevity and reliable operation of the contactor. Always disconnect all power sources before performing any maintenance.

- **Visual Inspection:** Periodically inspect the contactor for signs of damage, discoloration, or excessive dust accumulation.
- **Terminal Tightness:** Check and retighten all terminal connections to ensure good electrical contact. Loose connections can lead to overheating and failure.
- **Contact Wear:** While typically not user-serviceable, excessive arcing or pitting on contacts can indicate wear. If severe, the contactor may need replacement.
- **Cleaning:** Keep the contactor free from dust and debris. Use a dry, non-conductive brush or compressed air for cleaning.

7. Troubleshooting

If the contactor is not functioning as expected, consider the following common issues:

- **Contactor Does Not Engage:**
  - Check if the 24V control voltage is present at terminals A1 and A2.
  - Verify the control circuit wiring for breaks or loose connections.
  - Ensure the coil voltage matches the contactor's specification (AC or DC).
  - Inspect the coil for damage or open circuits.
- **Contactor Overheats:**
  - Check if the load current exceeds the contactor's 9A rating.
  - Ensure all main power terminals are tightly secured.
  - Verify adequate ventilation around the contactor.
  - Inspect for short circuits in the load or control circuit.
- **Contactor Makes Humming Noise:**
  - For AC coils, a slight hum is normal. Excessive hum may indicate a loose shading coil or foreign material preventing full armature closure.
  - Check for proper mounting and ensure no vibrations are being amplified.

8. Specifications

Parameter	Value
Model	LC1D09 (LC1D09BD, LC1D09BDC)
Poles	3P (3 Normally Open)
Rated Operational Current (AC-3)	9 A
Rated Operational Voltage	<= 440 V
Coil Voltage	24 V (AC or DC)
Manufacturer	ETURBEV
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces

9. Warranty and Support

For information regarding product warranty, please refer to the terms and conditions provided at the point of purchase or contact your supplier. For technical support or further assistance, please reach out to the manufacturer, ETURBEV, through their official channels.

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