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› Square D NEL361200LS 3-Pole 1200 Amp Molded Case Circuit Breaker User Manual

Square D NEL361200LS

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Model: NEL361200LS | Brand: Square D

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the safe and effective use of the Square D NEL361200LS 3-Pole 1200 Amp Molded Case Circuit Breaker. This device is designed for robust electrical circuit protection in commercial and industrial applications. The NEL361200LS is a 3-pole, 1200 Amp, 600V circuit breaker featuring a 100kA@480V interrupting capacity. It includes a Micrologic non-interchangeable trip unit with Long-Time (LS) and Short-Time trip functions, and an ARP100 installed rating plug. It is a feed-thru, 100% rated solid state electronic molded case circuit breaker, equipped with line and load side lug terminals.

2. SAFETY INFORMATION

WARNING: Risk of electric shock or arc flash. This equipment must be installed, operated, serviced, and maintained by qualified personnel only. Adhere to all local and national electrical codes and standards. Always de-energize and lockout/tagout circuits before working on or near this equipment.

- Ensure all power is disconnected and verified before installation or maintenance.
- Use appropriate personal protective equipment (PPE).
- Do not operate the breaker if it appears damaged.
- Refer to the National Electrical Code (NEC) and local codes for proper wiring and installation procedures.

3. SETUP AND INSTALLATION

Installation of the NEL361200LS circuit breaker should only be performed by a licensed electrician or qualified personnel. Proper installation is critical for safe and reliable operation.

- De-energize Circuit:** Ensure the main power supply to the installation area is completely de-energized and locked out/tagged out.
- Mounting:** Securely mount the circuit breaker in its designated enclosure or panel according to manufacturer guidelines and local codes.
- Wiring Connections:** Connect the line and load conductors to the appropriate lug terminals. The breaker is designed for 100% continuous operation with 90°C insulated wire based on the ampacity of 75°C rated wire.
- Torque Specifications:** Ensure all lug terminal connections are torqued to the specifications provided on the breaker's

label. For the NEL361200LS, the standard lug data indicates a torque of 37.3 N-m (Newton-meters) or 330 lb-in (pound-inches) for 3/0-600 MCM CU/AL wire.

5. **Rating Plug:** Verify the ARP100 rating plug is correctly installed. This plug determines the breaker's nominal current rating.
6. **Cover Installation:** Once wiring is complete and verified, install all protective covers.

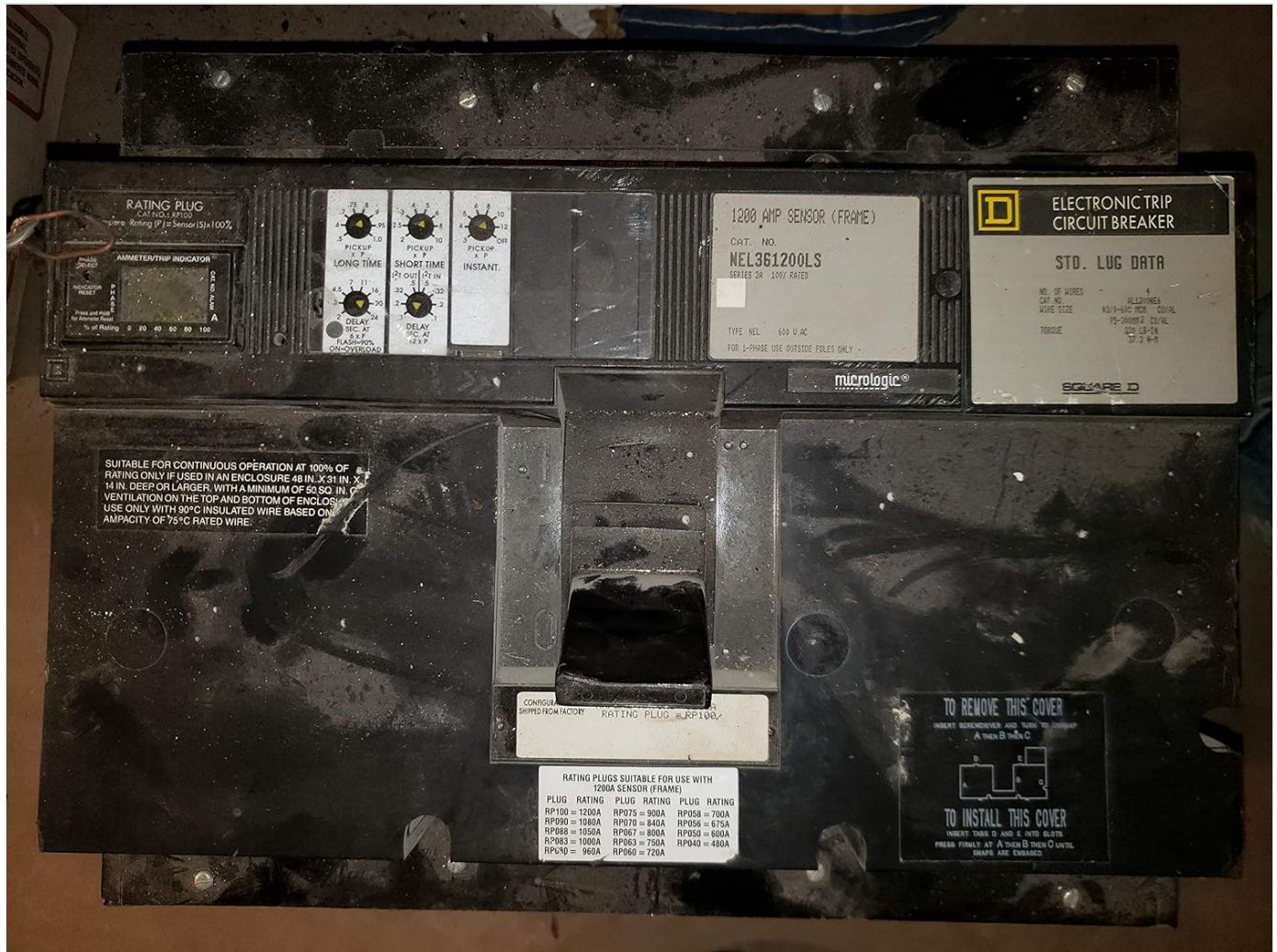


Figure 1: Overview of the Square D NEL361200LS Circuit Breaker.

This image displays the overall structure of the circuit breaker, including the Micrologic trip unit settings and the main identification labels. It provides a visual reference for component location during installation.

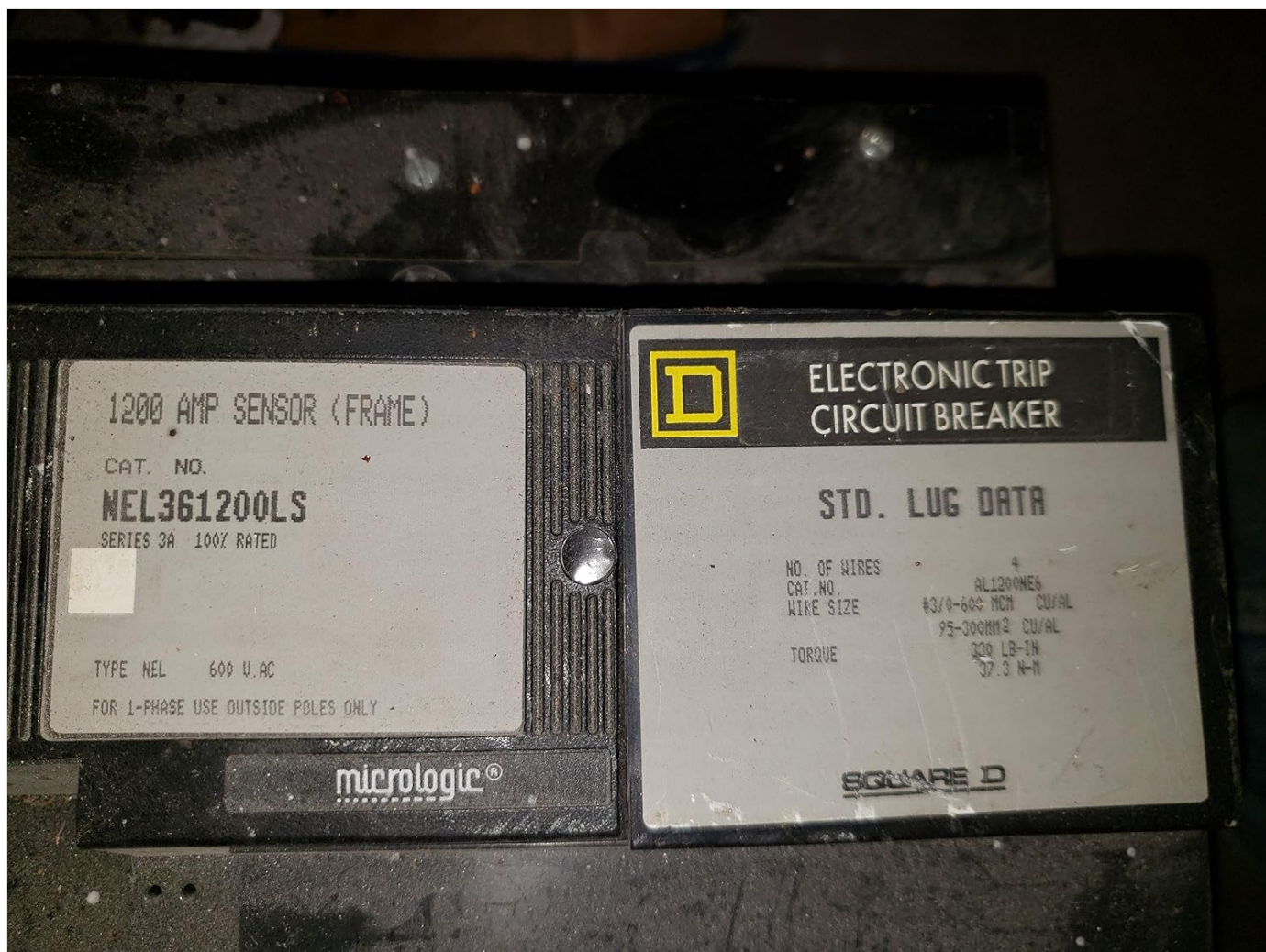


Figure 2: Close-up of Circuit Breaker Labels and Lug Data.

This close-up highlights critical information such as the catalog number (NEL361200LS), amp sensor details, and the standard lug data, which specifies the number of wires, wire size (e.g., 3/0-600 MCM CU/AL), and required torque for secure connections.

4. OPERATING INSTRUCTIONS

The NEL361200LS is designed for automatic circuit protection. Manual operation is typically limited to ON/OFF switching and resetting after a trip.

- **ON/OFF Operation:** The breaker handle is used to manually switch the circuit ON or OFF.
- **Tripping:** In the event of an overcurrent or short circuit, the Micrologic trip unit will automatically trip the breaker, moving the handle to an intermediate (tripped) position.
- **Resetting After Trip:** To reset a tripped breaker, first move the handle fully to the OFF position, then move it to the ON position. Investigate the cause of the trip before re-energizing the circuit.
- **Micrologic Trip Unit Settings:** The Micrologic trip unit allows for adjustment of trip characteristics. The NEL361200LS features Long-Time (LS) and Short-Time trip functions.
 - **Long-Time Pickup:** Adjusts the continuous current rating at which the breaker will eventually trip.
 - **Short-Time Pickup:** Adjusts the current level at which the short-time delay function begins.
 - **Short-Time Delay:** Adjusts the time delay before the breaker trips on a short-time fault.
 - **Instantaneous Pickup:** While the NEL361200LS is specified with LS functions, the Micrologic platform typically includes an instantaneous pickup setting for very high fault currents. Refer to the specific Micrologic unit documentation for detailed adjustment procedures.
- **Rating Plug:** The ARP100 rating plug is installed to define the breaker's nominal current rating. Ensure the rating plug matches the system requirements.

5. MAINTENANCE

Regular maintenance by qualified personnel is essential to ensure the longevity and reliable operation of the circuit breaker.

- **Visual Inspection:** Periodically inspect the breaker for any signs of physical damage, discoloration, loose connections, or excessive dust accumulation.
- **Cleaning:** Keep the breaker and its enclosure clean and free of dust and debris. Use a dry, non-conductive cloth.
- **Connection Checks:** With the circuit de-energized and locked out/tagged out, periodically check the tightness of all electrical connections to ensure they meet specified torque values.
- **Functional Testing:** Periodic functional testing of the trip unit and breaker mechanism should be performed by qualified technicians using appropriate test equipment, following Square D's recommended maintenance schedule.

6. TROUBLESHOOTING

If the circuit breaker trips or fails to operate as expected, consider the following common issues. Always ensure safety precautions are followed before any troubleshooting.

Problem	Possible Cause	Solution
Breaker trips frequently	Overload, short circuit, ground fault, incorrect trip settings, or faulty equipment.	Identify and correct the cause of the overload/fault. Verify trip unit settings. Consult a qualified electrician.
Breaker does not reset	Persistent fault, internal mechanical issue, or severe damage.	Ensure the fault is cleared. If it still doesn't reset, the breaker may be damaged and require replacement. Do not force the handle.
No power downstream	Breaker is OFF or tripped, loose connections, or upstream power issue.	Check breaker position and reset if tripped. Verify all connections. Check upstream power supply.

For complex issues or if troubleshooting steps do not resolve the problem, contact a qualified electrical professional or Square D technical support.

7. SPECIFICATIONS

Attribute	Detail
Manufacturer	Square D
Part Number / Model Number	NEL361200LS
Current Rating	1200 Amps
Voltage Rating	600 Volts
Number of Poles	3-Pole
Interrupting Capacity (AIC)	100kA@480V
Breaker Type	Molded Case Circuit Breaker (MCCB)
Trip Unit Type	Micrologic (LS - Long-Time, Short-Time)
Material	Copper (for internal components/connections)

Attribute	Detail
Continuous Operation	100% Rated

8. WARRANTY AND SUPPORT

For specific warranty information regarding your Square D NEL361200LS circuit breaker, please refer to the documentation provided at the time of purchase or contact Square D directly. Warranty terms may vary based on purchase location and product condition (new vs. used).

For technical support, service, or to inquire about replacement parts, please contact Square D customer service or visit their official website. Always provide the model number (NEL361200LS) when seeking support.

Square D Official Website: www.se.com/us/en/brands/square-d/

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