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› Square D I-Line NC361000 1000A Circuit Breaker NC-361000 ILine S2 1000 Amp IAD User Manual

Square D NC361000

Square D I-Line NC361000 1000A Circuit Breaker

USER MANUAL

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Square D I-Line NC361000 1000A Circuit Breaker. This device is designed to protect electrical circuits from overcurrents, which can result from overloads or short circuits. Please read this manual thoroughly before attempting any procedures involving the circuit breaker.

2. Safety Information

WARNING: Risk of Electric Shock or Arc Flash.

- Installation, maintenance, and repair must be performed by qualified personnel only.
- Always de-energize the circuit and verify zero voltage before working on or near the circuit breaker.
- Use appropriate personal protective equipment (PPE) as required by local regulations and company policy.
- Do not operate the circuit breaker if it appears damaged or has been subjected to excessive force.
- Follow all local and national electrical codes.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

3. Product Overview

The Square D I-Line NC361000 is a 1000 Amp, 1-pole circuit breaker designed for panel mount applications. It features robust construction suitable for industrial environments.



Figure 3.1: Front view of the Square D I-Line NC361000 circuit breaker, showing the rating label and operating handle.



Figure 3.2: Bottom view of the circuit breaker, illustrating the large current terminals for connection to the electrical system.



Figure 3.3: Side view of the circuit breaker, highlighting the heat dissipation fins and robust construction.

4. Setup and Installation

The NC361000 circuit breaker is designed for panel mount installation. Due to its high current rating and the inherent risks associated with high-voltage electrical systems, installation must only be performed by a certified electrician or qualified personnel.

Installation Steps (General Guidelines):

1. **De-energize System:** Ensure all power to the installation area is completely shut off and locked out/tagged out according to safety procedures. Verify zero voltage.
2. **Mounting:** Securely mount the circuit breaker into the designated panel slot using appropriate hardware. Ensure proper alignment and tight fit for optimal electrical contact and mechanical stability.
3. **Wiring:** Connect the main power lines to the designated terminals. Ensure all connections are clean, tight, and properly torqued to prevent overheating and arcing. Refer to the circuit breaker's label for specific wiring diagrams and torque specifications.
4. **Grounding:** Ensure the circuit breaker and associated panel are properly grounded.
5. **Inspection:** Before re-energizing, visually inspect all connections, ensure no loose debris, and confirm all covers are securely in place.
6. **Re-energize:** Carefully re-energize the system, monitoring for any unusual conditions.

For detailed installation instructions, refer to the specific wiring diagrams and technical bulletins provided by Square D for the I-Line series.

5. Operation

The Square D I-Line NC361000 circuit breaker operates automatically to protect circuits from overcurrents. It also features a manual operating mechanism.

Operating States:

- **ON:** The handle is in the fully "ON" position, indicating the circuit is closed and power is flowing.
- **OFF:** The handle is in the fully "OFF" position, indicating the circuit is open and power is interrupted. This is the position for manual shutdown.
- **TRIPPED:** When an overcurrent condition occurs, the circuit breaker automatically trips. The handle will move to an intermediate "TRIPPED" position, typically between ON and OFF.

Resetting a Tripped Breaker:

1. **Identify Cause:** Before resetting, determine and rectify the cause of the trip (e.g., overloaded circuit, short circuit).
2. **Full OFF:** Push the handle firmly to the full "OFF" position. You may hear a click as the internal mechanism resets.
3. **Turn ON:** Push the handle firmly to the full "ON" position.
4. **Persistent Trips:** If the breaker immediately trips again, do not attempt to reset it repeatedly. There is a persistent fault that requires professional investigation.

6. Maintenance

Regular maintenance helps ensure the longevity and reliable operation of your circuit breaker. All maintenance should be performed by qualified personnel with the circuit de-energized.

- **Visual Inspection:** Periodically inspect the circuit breaker for any signs of physical damage, discoloration, overheating, or loose connections.
- **Cleaning:** Keep the circuit breaker and surrounding area clean and free of dust, dirt, and moisture. Use a dry, non-conductive cloth for cleaning. Do not use solvents or abrasive cleaners.
- **Connection Checks:** Annually, or as recommended by Square D, verify the tightness of all electrical connections using a calibrated torque wrench.
- **Functional Testing:** Depending on the application and local regulations, periodic functional testing (e.g., trip testing) may be required. Consult Square D documentation for recommended testing procedures.

7. Troubleshooting

This section provides guidance for common issues. For complex problems, always consult a qualified electrician.

Problem	Possible Cause	Solution
Circuit breaker trips frequently.	Overloaded circuit, short circuit, ground fault, faulty appliance, or worn breaker.	Reduce load on circuit, inspect wiring for shorts, check appliances, or replace breaker if faulty.
Breaker will not reset.	Persistent fault (short/overload), internal breaker damage.	Ensure handle is pushed fully to OFF before attempting to reset. If it still won't reset, do not force it; call a qualified electrician.

Problem	Possible Cause	Solution
Breaker feels hot to the touch.	Overload, loose connection, or internal damage.	Immediately de-energize the circuit. Do not touch. Call a qualified electrician to inspect and repair.

8. Specifications

Key technical specifications for the Square D I-Line NC361000 Circuit Breaker:

Specification	Value
Model Number	NC361000
Current Rating	1000 Amps
Circuit Breaker Type	Standard
Mounting Type	Panel Mount
Number Of Poles	1
Manufacturer	Square D I-Line
Package Dimensions	18 x 14 x 12 inches; 63 Pounds
ASIN	B01LZNDLWZ
Date First Available	October 4, 2016

9. Warranty and Support

Specific warranty terms and conditions for the Square D I-Line NC361000 circuit breaker are provided by the manufacturer, Square D. Please refer to the documentation included with your purchase or visit the official Square D website for detailed warranty information and customer support contacts.

For technical assistance, service, or to report issues, please contact Square D customer support directly. Always provide your model number (NC361000) and any relevant purchase details when seeking support.

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