

SIEMENS FXD62B150

Siemens FXD62B150 150 Amp Type FXD6-A Circuit Breaker Instruction Manual

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1. PRODUCT OVERVIEW

The Siemens FXD62B150 is a 150 Amp Type FXD6-A Circuit Breaker. These breakers are designed for use in electrical panels specifically marked to accept FXD6-A breakers. Always consult the panel's wiring diagram to ensure compatibility and proper application.

Key features of this circuit breaker include:

- **Current Rating:** 150 Amps
- **Poles:** Double and three-pole configurations available (this model is 3-pole).
- **Trip Type:** Non-interchangeable trip.
- **Lugs:** Lugs are not included with the breaker. Compatible lug options include TA1FD350A, TC1FD350, or CCF250.





Figure 1: Front view of the Siemens FXD62B150 circuit breaker. This image displays the main labels, current rating (150A), and the 'PUSH TO TRIP' button. It also shows the 'DANGER' warning regarding hazardous voltage.

2. SAFETY INFORMATION

DANGER: HAZARDOUS VOLTAGE.

Improper installation, operation, or maintenance of electrical equipment can lead to severe injury or death from electric shock or burns. This device must be installed, operated, and maintained by qualified electrical personnel only. Always adhere to local and national electrical codes and standards.

- **De-energize:** Before working on or near this circuit breaker or any associated electrical equipment, always turn off and lock out all power sources supplying the device. Verify the absence of voltage using a suitable voltage tester.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including insulated gloves, eye protection, and flame-resistant clothing, when working with electrical systems.
- **Qualified Personnel:** Only individuals with proper training and certification in electrical work should handle this equipment.
- **Product Compatibility:** Ensure the circuit breaker is compatible with the electrical panel and system requirements. Refer to the panel's wiring diagram and the breaker's specifications.

3. SETUP AND INSTALLATION

Installation of the Siemens FXD62B150 circuit breaker must be performed by a qualified electrician in accordance with all applicable electrical codes and the manufacturer's instructions.

3.1 Pre-Installation Checks

- Verify that the electrical panel is designed to accept FXD6-A type circuit breakers.
- Confirm the current rating (150 Amps) and voltage (600 Volts) match the system requirements.
- Ensure all power to the panel is disconnected and locked out before beginning installation.
- Acquire the necessary lugs (TA1FD350A, TC1FD350, or CCF250) as they are not included with the breaker.

3.2 Installation Steps

1. **Prepare the Panel:** Open the electrical panel cover. Identify the designated slot for the new circuit breaker.
2. **Install Lugs:** Attach the appropriate lugs to the circuit breaker terminals. Ensure proper torque is applied as specified by the lug manufacturer.
3. **Mount the Breaker:** Align the circuit breaker with the bus bar connections in the panel. Firmly push the breaker onto the bus bar until it is securely seated.
4. **Connect Wiring:** Connect the load wires to the breaker's load terminals and the line wires to the line terminals, ensuring correct polarity and secure connections. Apply specified torque to all terminal screws.
5. **Verify Connections:** Double-check all connections for tightness and correct wiring.
6. **Close Panel:** Replace the panel cover.
7. **Restore Power:** Carefully restore power to the panel and test the circuit breaker's operation.





Figure 2: Side view of the Siemens FXD62B150 circuit breaker, showing its profile and mounting mechanism. This view helps in understanding how the breaker interfaces with the electrical panel's bus bar.





Figure 3: Bottom view of the Siemens FXD62B150 circuit breaker, illustrating the terminal connections where lugs are attached for wiring. This view is critical for proper wire termination.

4. OPERATING INSTRUCTIONS

The Siemens FXD62B150 circuit breaker is designed for straightforward operation.

- **ON Position:** To energize the circuit, push the breaker handle fully to the 'ON' position.
- **OFF Position:** To de-energize the circuit, push the breaker handle fully to the 'OFF' position.
- **Tripped Position:** If an overload or short circuit occurs, the breaker will automatically trip to an intermediate position (often indicated by the handle being between ON and OFF, or a specific trip indicator).
- **Resetting a Tripped Breaker:** To reset a tripped breaker, first move the handle firmly to the 'OFF' position, then push it to the 'ON' position. If the breaker immediately trips again, do not attempt to reset it further. Investigate the cause of the trip.
- **Non-Interchangeable Trip:** This breaker features a non-interchangeable trip unit, meaning its trip characteristics (e.g., current rating) are fixed and cannot be altered.
- **Test Button:** The 'PUSH TO TRIP' button on the front of the breaker allows for manual testing of the tripping mechanism. Pressing this button should cause the breaker to trip. Always reset the breaker after testing.

5. MAINTENANCE

Regular maintenance of electrical equipment is crucial for safety and optimal performance. All maintenance procedures must be performed by qualified personnel with the power supply disconnected and locked out.

- **Periodic Inspection:** Conduct visual inspections of the circuit breaker and its connections periodically. Look for signs of overheating, discoloration, loose connections, or physical damage.
- **Cleaning:** Keep the breaker and surrounding area clean and free from dust, dirt, and debris. Use a dry, non-conductive cloth for cleaning.
- **Connection Tightness:** Periodically check the tightness of all electrical connections, including lug connections, using a calibrated torque wrench to ensure they meet specified torque values.
- **Functionality Test:** Periodically test the breaker's trip mechanism using the 'PUSH TO TRIP' button.
- **Replacement:** If any damage is observed or if the breaker fails to operate correctly, it must be replaced immediately with an identical Siemens FXD62B150 unit. Do not attempt to repair a damaged circuit breaker.

6. TROUBLESHOOTING

If the Siemens FXD62B150 circuit breaker is not functioning as expected, consider the following troubleshooting steps. Always ensure power is disconnected and locked out before inspecting the breaker or wiring.

- **Breaker Trips Immediately After Reset:** This indicates a persistent overload or short circuit in the protected circuit. Do not repeatedly reset the breaker. Disconnect all loads from the circuit and attempt to reset. If it still trips, there may be a fault in the wiring. If it holds, reconnect loads one by one to identify the faulty device.
- **Breaker Does Not Trip on Overload:** If an overload condition is present but the breaker does not trip, it may be faulty. Replace the breaker immediately.
- **No Power to Circuit:** Check if the breaker is in the 'ON' position. If it is, check for loose connections at the breaker terminals or in the circuit wiring. Verify power supply to the panel.
- **Physical Damage:** Inspect the breaker for any visible signs of damage, such as cracks, burns, or melted plastic. A damaged breaker must be replaced.

For issues that cannot be resolved with these steps, contact a qualified electrician or Siemens technical support.

7. PRODUCT SPECIFICATIONS

Specification	Detail
Brand	SIEMENS
Model Number	FXD62B150
Current Rating	150 Amps
Voltage	600 Volts
Circuit Breaker Type	AFCI (Arc Fault Circuit Interrupter)
Mounting Type	Plug-In Mount
Number Of Poles	3
Part Number	FXD62B150
Item Weight	3 pounds
Product Dimensions	11.2 x 5.6 x 6.9 inches
UPC	783643211148
Global Trade Identification Number	00783643211148
Lugs	Not included. Compatible options: TA1FD350A, TC1FD350, or CCF250.

8. WARRANTY INFORMATION

For specific warranty details regarding the Siemens FXD62B150 circuit breaker, please refer to the official Siemens warranty documentation provided with your purchase or visit the official Siemens website. Warranty terms typically cover manufacturing defects under normal use conditions.

9. CUSTOMER SUPPORT

If you require technical assistance, have questions about installation, or need to report a product issue, please contact Siemens customer support. You can typically find contact information on the official Siemens website or through the documentation included with your product.

Siemens Official Website: www.siemens.com