

SIEMENS B2125

Siemens B2125 125-Amp Double Pole Circuit Breaker Instruction Manual

Model: B2125

1. INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of the Siemens B2125 125-Amp Double Pole Circuit Breaker. Please read this manual thoroughly before attempting any installation or operation. Retain this manual for future reference.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock or Fire.

- Installation and servicing of this circuit breaker must be performed by qualified electrical personnel only.
- Always disconnect power at the main service panel before working on electrical equipment. Verify that power is off using a voltage tester.
- Follow all local and national electrical codes and regulations.
- Do not use this circuit breaker if it appears damaged.
- Ensure proper wire sizing and torque specifications are met for all connections.

3. PRODUCT FEATURES

The Siemens B2125 is a reliable thermal-magnetic circuit breaker designed for panel board mounting. Key features include:

- **Type BL:** Specifically designed for Siemens panel boards.
- **Double Pole:** Provides protection for two electrical phases or a single 240-volt circuit.
- **125-Amp Rating:** Suitable for circuits requiring up to 125 amperes of protection.
- **10KAIC Interrupting Rating:** Capable of safely interrupting fault currents up to 10,000 Amperes.

- **Bolt-On Mount:** Ensures secure and stable connection within the panel board.
- **UL Listed:** Certified for safety and performance standards.

4. SETUP AND INSTALLATION

Installation of the Siemens B2125 circuit breaker requires adherence to safety protocols and electrical codes. This is a general guide; consult a qualified electrician for specific installation requirements.

1. **Power Disconnection:** Turn off the main power supply to the electrical panel at the utility meter or main disconnect. Verify zero voltage with a suitable testing device.
2. **Panel Access:** Carefully remove the cover of the electrical panel to expose the bus bars and wiring area.
3. **Breaker Placement:** Identify an available space on the panel board's bus bar compatible with a bolt-on type BL breaker.
4. **Mounting:** Align the circuit breaker's bolt-on connectors with the bus bar terminals. Securely fasten the breaker to the bus bar using the provided bolts, ensuring a tight electrical connection.
5. **Wiring:** Connect the load wires to the appropriate terminals on the circuit breaker. For a double pole breaker, connect one phase wire to each terminal. Ensure the wires are stripped to the correct length and inserted fully into the terminals. Tighten the terminal screws to the torque specifications indicated on the breaker or in the panel documentation.
6. **Panel Cover:** Once all connections are secure and verified, replace the electrical panel cover.
7. **Power Restoration:** Restore power to the main service panel.

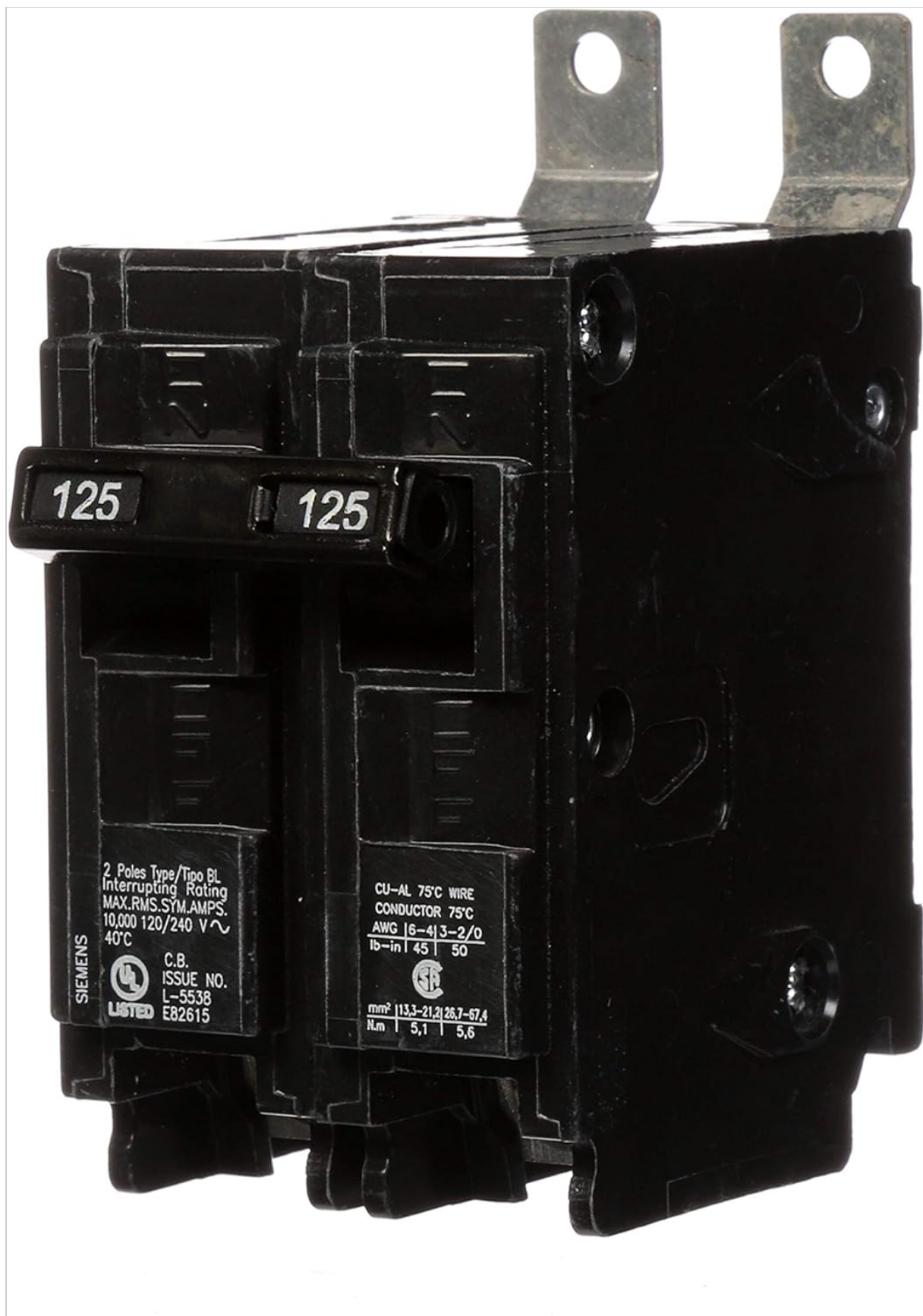


Figure 1: Siemens B2125 125-Amp Double Pole Circuit Breaker, front-side view, showing the 125 amp rating and product labels.



125

125

2 Poles Type/Tipo BL
Interrupting Rating
MAX.RMS.SYM.AMPS.
10,000 120/240 V ~
40°C

SIEMENS



LISTED

C.B.
ISSUE NO.
L-5538
E82615

CU-AL 75°C WIRE
CONDUCTOR 75°C
AWG | 6-4 | 3-2/0
lb-in | 45 | 50



mm²	13,3-21,2	26,7-67,4
N.m	5,1	5,6

Figure 2: Front view of the Siemens B2125 circuit breaker, highlighting the 125 amp trip indicators and terminal screws.

5. OPERATING INSTRUCTIONS

The Siemens B2125 circuit breaker operates automatically to protect electrical circuits from overcurrents and short circuits. It has two primary states: ON and TRIPPED/OFF.

- **ON Position:** When the handle is in the 'ON' position, power is supplied through the breaker to the connected circuit.
- **TRIPPED Position:** In the event of an overcurrent or short circuit, the breaker will automatically move to a 'TRIPPED' position (often midway between ON and OFF) to interrupt the power flow and protect the circuit.
- **Resetting a Tripped Breaker:** To restore power after a trip, first move the handle fully to the 'OFF' position, then push it firmly to the 'ON' position. If the breaker immediately trips again, there is likely a persistent fault in the circuit that needs to be investigated by a qualified electrician.

6. MAINTENANCE

Circuit breakers generally require minimal maintenance. However, periodic visual inspection is recommended.

- **Visual Inspection:** Annually, or as local codes require, have a qualified electrician inspect the circuit breaker and its connections for any signs of overheating, loose wires, or physical damage.
- **Cleaning:** Ensure the area around the breaker is free from dust and debris. Do not use liquids for cleaning inside the electrical panel.
- **Testing:** Do not routinely test the trip mechanism by intentionally creating a fault. This can stress the breaker and connected equipment.



Figure 3: Side view of the Siemens B2125 circuit breaker, showing its compact design and mounting points.

7. TROUBLESHOOTING

If your Siemens B2125 circuit breaker is not functioning as expected, consider the following:

- **Breaker Trips Frequently:** This indicates an overload or a short circuit in the connected wiring or appliances. Disconnect appliances from the circuit and try resetting the breaker. If it still trips, consult a qualified electrician to identify and resolve the underlying electrical fault.
- **Breaker Does Not Reset:** If the breaker handle does not stay in the 'ON' position after being moved to 'OFF' and then 'ON', there is likely a persistent fault. Do not force the handle. Contact a qualified electrician.
- **No Power to Circuit (Breaker ON):** Ensure the main power supply to the panel is active. Check for loose connections at the breaker terminals (only by a qualified electrician with power off). If the issue

persists, professional diagnosis is required.

8. SPECIFICATIONS

Specification	Value
Brand	SIEMENS
Model Number	B2125
Current Rating	125 Amps
Number of Poles	2
Voltage Rating	120/240 Volts
Interrupting Rating	10KAIC
Circuit Breaker Type	Thermal-Magnetic, Standard
Mounting Type	Bolt-On Mount
Product Dimensions	4 x 3 x 2 inches
Item Weight	8 ounces
UPC	0783643263666



Figure 4: Rear view of the Siemens B2125 circuit breaker, displaying the bolt-in connectors and additional product labeling.

9. WARRANTY INFORMATION

Siemens strongly recommends against the use of "used" breakers. The installation of used breakers in a Siemens panel will void the warranty on the panel. Siemens does not sell used breakers and has not approved any third-party sellers to do so. For specific warranty details, please refer to the official Siemens warranty documentation or contact Siemens customer support.

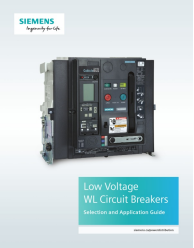



10. SUPPORT AND CONTACT


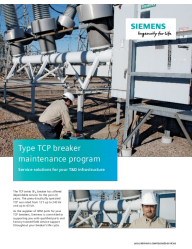
For technical assistance, product inquiries, or to locate authorized service centers, please visit the official Siemens website or contact their customer support directly. Always provide the model number (B2125) when seeking support.

You can find more information about Siemens products at the [Siemens Store on Amazon](#).

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Related Documents - B2125

	<p>Siemens WL Circuit Breakers: Selection and Application Guide</p> <p>Comprehensive guide to Siemens WL Low Voltage Circuit Breakers, covering selection, application, features, specifications, and accessories for UL489 and UL1066 listed products.</p>
	<p>Siemens WL Power Circuit Breakers: Comprehensive Guide and Specifications</p> <p>Explore the Siemens WL series of power circuit breakers, detailing features, UL 489 and UL 1066 compliance, electronic trip units (ETUs), accessories, and technical specifications for industrial power distribution.</p>
	<p>Siemens Low Voltage Power Circuit Breaker UL 1066 Operating Instructions</p> <p>Comprehensive operating instructions for Siemens Low Voltage Power Circuit Breakers, specifically the UL 1066 series. This guide covers installation, commissioning, maintenance, and technical specifications for these circuit breakers and their associated cradles.</p>
	<p>Siemens Power Protection Devices: MCB, RCCB, MCCB, ACB - Product Overview and Technical Details</p> <p>Comprehensive overview of Siemens SENTRON and SINOVIA circuit protection devices, including Miniature Circuit Breakers (MCBs), Residual Current Circuit Breakers (RCCBs), Moulded Case Circuit Breakers (MCCBs), and Air Circuit Breakers (ACBs). Details product portfolios, technical specifications, applications, and safety features.</p>

	<p>Siemens Circuit Breaker with Thermal-Magnetic Trip Unit - Operating Instructions</p> <p>Comprehensive operating instructions for Siemens 3VA51 series circuit breakers, detailing safety warnings, installation procedures, connection options, and technical specifications.</p>
	<p>Siemens Type TCP Circuit Breaker Maintenance Program and Services</p> <p>Comprehensive guide to Siemens Type TCP SF6 circuit breaker maintenance, including major maintenance intervals, field service, training, renewal parts, upgrades, and troubleshooting tips.</p>