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› Siemens BQ2B125 Double Pole Circuit Breaker User Manual

## SIEMENS BQ2B125

# Siemens BQ2B125 Double Pole Circuit Breaker User Manual

Model: BQ2B125

## 1. INTRODUCTION

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This manual provides essential information for the safe installation, operation, and maintenance of the Siemens BQ2B125 Double Pole Circuit Breaker. The BQ2B125 is a 125-Amp, 120/240-Volt, 2-pole thermal-magnetic circuit breaker designed for overcurrent protection in electrical systems. It features a 10KAIC interrupting rating and a lug-in, lug-out design for secure connections.

## 2. SAFETY INFORMATION

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**WARNING:** Electrical shock hazard. Installation and servicing of this circuit breaker must be performed by qualified personnel only. Failure to follow these instructions can result in serious injury or death.

- Always disconnect power at the main service panel before installing or servicing the circuit breaker.
- Use appropriate personal protective equipment (PPE), including insulated gloves and eye protection.
- Ensure all wiring connections are tight and conform to local electrical codes.
- Do not use this circuit breaker if it appears damaged or has been dropped.
- Never attempt to bypass or tamper with the circuit breaker's protective mechanisms.
- This device is UL Listed. Ensure compliance with all applicable safety standards.

## 3. SETUP AND INSTALLATION

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The Siemens BQ2B125 is a plug-in mount circuit breaker designed for use in compatible Siemens load centers. Professional installation is highly recommended.

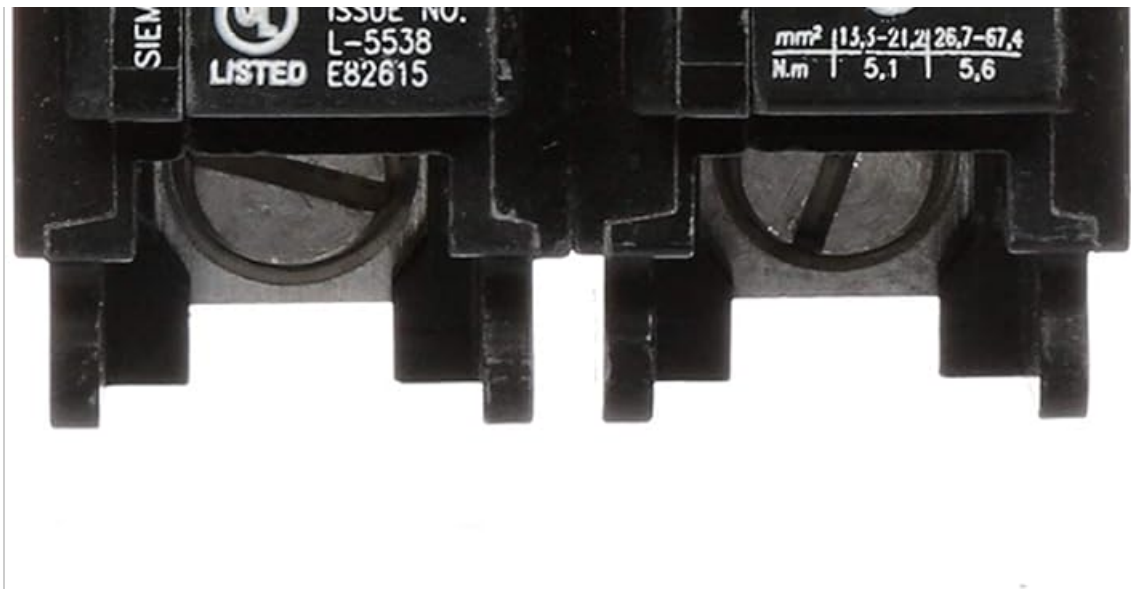
1. **Prepare the Load Center:** Ensure all power to the load center is OFF. Open the load center cover.
2. **Identify Mounting Location:** Select an appropriate slot in the load center for a 2-pole breaker.
3. **Install the Breaker:** Align the circuit breaker with the bus bar stabs in the load center. Apply firm, even pressure to push the breaker onto the stabs until it is fully seated. The plug-in mechanism should secure it in place.
4. **Wire Connections:**
  - Connect the incoming load wires to the appropriate lugs on the circuit breaker. This is a "lug in, lug out" design.

- Ensure wires are properly stripped and inserted into the lugs.
- Tighten the lug screws to the torque specifications indicated on the breaker label (e.g., *CU-AL 75°C WIRE CONDUCTOR 75°C AWG 6-2/0 lb-in 45-50*). Refer to the image below for details.

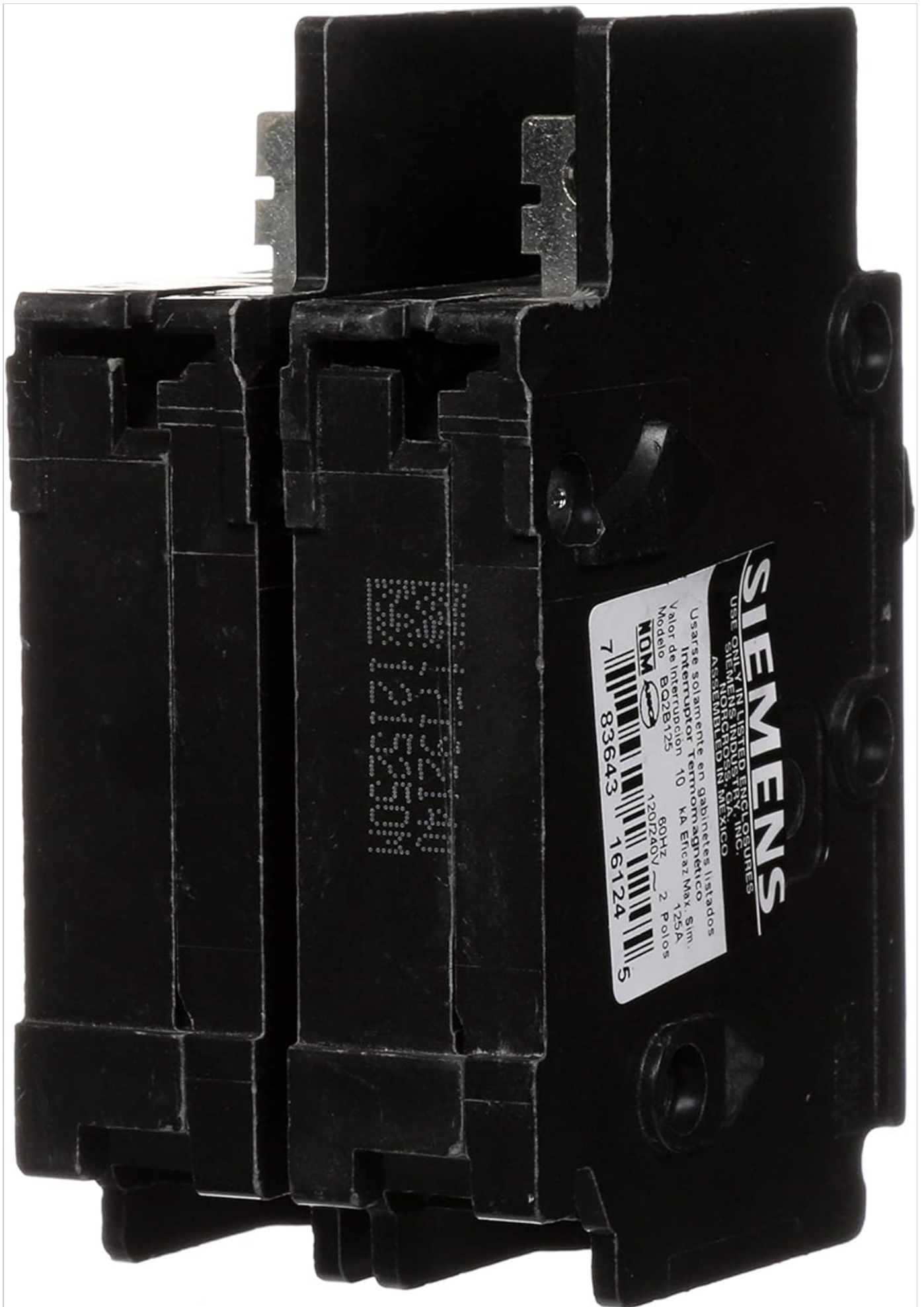
5. **Verify Installation:** Double-check all connections for tightness and proper seating. Ensure no bare wires are exposed.

6. **Restore Power:** Close the load center cover. Restore power to the main service panel.





**Figure 1:** Front view of the Siemens BQ2B125 Double Pole Circuit Breaker. This image shows the two poles, the 125 Amp rating, and the ON/OFF switch positions. The label at the bottom left indicates "2 Poles Type BQ Interrupting Rating 10,000 120/240V UL Listed E82615". The label at the bottom right specifies wire conductor details: "CU-AL 75°C WIRE CONDUCTOR 75°C AWG 6-2/0 lb-in 45-50".



**Figure 2:** Side view of the Siemens BQ2B125 Double Pole Circuit Breaker, showing the product label. The label includes the Siemens brand, model number BQ2B125, and the UPC/GTIN: 0783643161245. This view also highlights the physical structure for plug-in mounting.

## 4. OPERATING INSTRUCTIONS

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The Siemens BQ2B125 circuit breaker provides automatic protection against overcurrents and short circuits. Under normal operating conditions, the breaker handle will be in the "ON" position.

- **Normal Operation:** When power is flowing through the circuit, the breaker handle will be in the "ON" position.
- **Tripped Condition:** If an overcurrent or short circuit occurs, the breaker will automatically trip to the center position (between ON and OFF) or fully to the "OFF" position, interrupting the circuit to prevent damage.
- **Resetting the 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 repeatedly. This indicates a persistent fault that requires investigation by a qualified electrician.

## 5. MAINTENANCE

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Circuit breakers generally require minimal maintenance. However, periodic inspection by a qualified electrician is recommended to ensure continued safe operation.

- Visually inspect the breaker for any signs of physical damage, discoloration, or loose connections.
- Ensure the area around the load center is clear of obstructions and debris to allow for proper ventilation.
- Do not attempt to clean the internal components of the breaker.

## 6. TROUBLESHOOTING

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If the circuit breaker trips frequently or fails to reset, it indicates an issue within the electrical circuit it protects.

- **Frequent Tripping:** This often suggests an overloaded circuit or a ground fault/short circuit. Reduce the load on the circuit by unplugging appliances or devices.
- **Breaker Won't Reset:** If the breaker immediately trips after being reset, a severe fault (e.g., short circuit) is likely present.
- **No Power:** If the breaker is in the "ON" position but there is no power to the circuit, check other breakers in the panel or consult an electrician.

**Important:** For any persistent electrical issues or if you are unsure about the cause of a tripped breaker, contact a qualified electrician immediately. Do not attempt repairs if you are not qualified.

## 7. SPECIFICATIONS

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Feature	Specification
Brand	SIEMENS
Model	BQ2B125
Current Rating	125 Amps
Voltage	120/240 Volts
Number of Poles	2
Interrupting Rating	10KAIC
Circuit Breaker Type	Thermal-Magnetic, Standard
Mounting Type	Plug-In Mount
Connection Type	Lug In, Lug Out
UL Listed	Yes
Item Weight	12.32 ounces
UPC / GTIN	0783643161245

## 8. WARRANTY INFORMATION

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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 3rd party sellers to do so. For specific warranty terms and conditions, please refer to the official Siemens warranty documentation provided with your product or contact Siemens customer support.

## 9. SUPPORT

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For technical assistance, product inquiries, or to report issues, please contact Siemens customer support. Visit the official Siemens website for contact information and additional resources.

*Note: Always refer to the latest product documentation and local electrical codes for the most accurate and up-to-date information.*

