

SIEMENS Q280

SIEMENS Q280 80-Amp Double Pole Type QP Circuit Breaker Instruction Manual

Model: Q280 | Brand: SIEMENS

1. INTRODUCTION

The SIEMENS Q280 is an 80-Amp Double Pole Type QP Circuit Breaker designed for overload and short-circuit protection within your electrical system. This breaker provides easy plug-in connections and features a 10,000 AIC interrupting rating. It is compatible with Siemens PL and ES series load centers, ensuring reliable performance and safety for your electrical installations.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and service of this circuit breaker must be performed by a qualified electrician. Always turn off the main power supply at the service panel before working on electrical circuits. Failure to follow these instructions can result in serious injury or death.

To ensure the warranty on a Siemens panel is not voided, the use of Siemens breakers is required. 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.

3. PRODUCT OVERVIEW

The SIEMENS Q280 is a thermal-magnetic circuit breaker. It is a double pole, 80 Amp, 240V Type QP circuit breaker with a 10,000 AIC interrupting rating. It features time-saving Insta-Wire connections for easy installation in compatible Siemens PL and ES series load centers. This breaker is designed to protect your electrical system from high temperatures caused by excess current, which can lead to electrical fires or damage.



Figure 1: Front view of the SIEMENS Q280 80-Amp Double Pole Type QP Circuit Breaker, showing the '80' amp rating on both switches.



Figure 2: Back view of the SIEMENS Q280 80-Amp Double Pole Type QP Circuit Breaker, displaying the Siemens product label and specifications.

4. SETUP AND INSTALLATION

Installation of this circuit breaker should only be performed by a qualified electrician to ensure safety and compliance with local electrical codes.

1. **Ensure Power is Off:** Before beginning any work, turn off the main power to your electrical panel at the main service disconnect. Verify power is off using a voltage tester.
2. **Identify Slot:** Locate an available slot in your Siemens PL or ES series load center. The Q280 is a double pole breaker and requires two adjacent slots.
3. **Install Breaker:** Align the breaker with the bus bar stabs in the load center. Press firmly until the breaker snaps securely into place. Ensure both poles are properly seated.
4. **Wire Connections:** Connect the load wires to the screw terminals on the breaker. For an 80-Amp

breaker, ensure you are using appropriate wire gauge (e.g., AWG 6-4 or 3/0-2/0 CU-AL 75°C wire, as indicated on the breaker). Tighten screws to the specified torque (e.g., 45 lb-in / 5.1 Nm).

5. **Verify Connections:** Double-check all wire connections for tightness and proper seating.
6. **Restore Power:** Once installation is complete and verified, close the electrical panel cover. Turn the main power supply back on. Switch the circuit breaker to the 'ON' position.

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Video 1: A demonstration of a SIEMENS 60 Amp Double Pole 240V Circuit Breaker (Model Q260) installation. While this video features a 60 Amp model, the general installation steps for a double pole Type QP breaker are similar to the Q280.

5. OPERATION

Operating the SIEMENS Q280 circuit breaker is straightforward:

- **Turning ON:** To turn a circuit ON, push the breaker handle firmly to the 'ON' position.
- **Turning OFF:** To turn a circuit OFF, push the breaker handle firmly to the 'OFF' position.
- **Resetting a Tripped Breaker:** If the circuit breaker trips (moves to a center or 'TRIPPED' position), it indicates an overload or short circuit. To reset, first move the handle completely to the 'OFF' position, then firmly push it to the 'ON' position.

6. MAINTENANCE

Circuit breakers generally require no routine maintenance. However, periodic inspection is recommended:

- Periodically inspect the breaker for any signs of physical damage, discoloration, or loose connections.
- Ensure the area around the circuit breaker is clean and free from dust or debris.
- If any issues are observed, or if the breaker appears to be malfunctioning, consult a qualified electrician immediately. Do not attempt repairs yourself.

7. TROUBLESHOOTING

If you encounter issues with your SIEMENS Q280 circuit breaker, consider the following:

- **Breaker Trips Frequently:** This usually indicates an overload or a short circuit on the connected circuit. Disconnect some appliances or devices from the circuit to reduce the load. If it continues to trip, there may be a fault in the wiring or a defective appliance. Consult a qualified electrician.
- **Breaker Does Not Reset:** If the breaker does not stay in the 'ON' position after being reset, it indicates a persistent fault (overload or short circuit). Do not force the breaker. Investigate the cause of the fault or consult a qualified electrician.
- **No Power to Circuit:** If the breaker is in the 'ON' position but there is no power to the circuit, check for loose connections at the breaker terminals or within the circuit wiring. If the issue persists, professional electrical inspection is required.

8. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Brand	SIEMENS
Current Rating	80 Amps
Circuit Breaker Type	Standard, Thermal-Magnetic, Type QP
Mounting Type	Plug-In Mount
Number Of Poles	2
Voltage	240 Volts (120/240V~)
Interrupting Rating	10,000 AIC
Part Number	Q280
Item Weight	9.9 ounces
Product Dimensions	3 x 2 x 3 inches
Material	Copper
UPC	783643156746
GTIN	00783643156746

9. WARRANTY AND SUPPORT

Warranty: This product comes with a 1-Year Warranty. For detailed warranty information, please refer to the official Siemens documentation or contact Siemens customer support.

Support: For additional support, product information, or to explore other Siemens products, visit the [SIEMENS Store](#).