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Model: QDP22225TM | 240V, 225-Amp Molded Case Circuit Breaker

1. INTRODUCTION

This instruction manual provides essential information for the safe and effective installation, operation, and maintenance of the Schneider Electric PowerPact QD 225 Molded Case Circuit Breaker, model QDP22225TM. This device is designed to protect electrical circuits from overcurrents and short circuits, ensuring the safety and reliability of your electrical system.

Please read this manual thoroughly before installation or operation and retain it for future reference. All electrical work should be performed by qualified personnel in accordance with local and national electrical codes.

2. SAFETY INFORMATION

WARNING: Risk of electric shock or explosion. This equipment must be installed and serviced only by qualified electrical personnel. Failure to follow these instructions will result in death or serious injury.

- Always de-energize the electrical system before working on the circuit breaker.
- Use appropriate personal protective equipment (PPE).
- Verify proper voltage and current ratings before installation.
- Ensure all connections are tight and secure to prevent overheating.
- Do not operate the circuit breaker if it appears damaged.

3. PRODUCT OVERVIEW

The Schneider Electric PowerPact QD 225 (model QDP22225TM) is a molded case circuit breaker designed for 240-volt applications with a 225-amp current rating. It features a single pole design and is suitable for both AC and DC systems, providing reliable overcurrent protection.



Figure 1: Front view of the Schneider Electric PowerPact QD 225 Circuit Breaker (Model QDP22225TM). The label clearly indicates "PowerPact QD 225 Circuit Breaker" and the model number "QDP22225TM". It also shows interrupting ratings for 240V at 25kA and 240V 1-phase at 10kA, suitable for 50/60Hz. The breaker features a toggle switch with "ON" and "OFF" positions and a red trip indicator. Terminal specifications for Al/Cu wires (#4 AWG-300 kcmil) are also visible, with torque settings of 75 lb-in (9 N-m) for the main terminals and 28 N-m for the smaller terminals.

4. SETUP AND INSTALLATION

Installation of the QDP22225TM circuit breaker must comply with all applicable national and local electrical codes. Ensure the main power supply is disconnected before beginning installation.

4.1 Pre-Installation Checks

- Verify the circuit breaker's voltage and current ratings match the application requirements.
- Inspect the circuit breaker for any signs of physical damage.
- Ensure adequate space for installation and proper ventilation.

4.2 Mounting

1. Mount the circuit breaker securely within an appropriate enclosure or panelboard.
2. Ensure the mounting surface is stable and capable of supporting the breaker's weight (approximately 6.7 pounds).

4.3 Wiring Connections

- Connect the incoming power conductors to the line terminals and the outgoing load conductors to the load terminals.
- Use appropriate wire sizes for the 225-amp rating. The breaker is designed for #4 AWG to 300 kcmil Al/Cu conductors.
- Tighten terminal screws to the specified torque: 75 lb-in (9 N-m) for main terminals and 28 N-m for smaller terminals, as indicated on the device label.
- Double-check all connections for tightness and correct polarity.

5. OPERATING INSTRUCTIONS

The QDP22225TM circuit breaker features a simple toggle mechanism for operation.

5.1 Turning On the Circuit Breaker

1. Ensure all downstream loads are ready to receive power.
2. Move the toggle handle firmly to the "ON" position.

5.2 Turning Off the Circuit Breaker

1. To de-energize the circuit, move the toggle handle firmly to the "OFF" position.

5.3 Tripped Condition

If an overcurrent or short circuit occurs, the circuit breaker will automatically trip. The handle will move to an

intermediate position between "ON" and "OFF", and a red indicator may become visible (if equipped). To reset a tripped breaker:

1. First, move the handle completely to the "OFF" position.
2. Then, move the handle to the "ON" position.
3. Investigate and resolve the cause of the trip before re-energizing the circuit.

6. MAINTENANCE

The Schneider Electric QDP22225TM circuit breaker is designed for minimal maintenance. However, periodic inspection is recommended to ensure continued reliable operation.

- **Annual Inspection:** Visually inspect the circuit breaker for any signs of physical damage, discoloration, or loose connections.
- **Cleaning:** If necessary, clean the exterior of the breaker with a dry, lint-free cloth. Do not use solvents or abrasive cleaners.
- **Terminal Tightness:** Periodically check the tightness of all terminal connections, especially after initial installation and during routine maintenance.
- **Testing:** Regular functional testing by qualified personnel may be required depending on application and local regulations.

7. TROUBLESHOOTING

This section provides guidance for common issues. For complex problems, contact qualified electrical personnel.

Problem	Possible Cause	Solution
Breaker trips frequently	Overload, short circuit, ground fault, or faulty equipment.	Identify and remove the overload. Check for short circuits or ground faults in the wiring or connected equipment. If the problem persists, consult an electrician.
Breaker does not reset	Persistent fault, internal damage to the breaker.	Ensure the handle is moved fully to the "OFF" position before attempting to reset to "ON". If a fault is still present, the breaker will not reset. If no fault is found and it still won't reset, the breaker may be damaged and require replacement.
Breaker feels hot	Loose connections, overload, or internal fault.	Immediately de-energize the circuit. Check terminal connections for tightness. Reduce load if an overload is suspected. If heating persists, the breaker may be faulty.

8. SPECIFICATIONS

Feature	Specification
Model Number	QDP22225TM
Brand	Schneider Electric
Current Rating	225 Amps
Voltage Rating	240 Volts
Number of Poles	1
Circuit Breaker Type	Standard, Thermal-Magnetic
Interrupting Rating (240V)	25 kA (240V~), 10 kA (240V 1-phase)
Wire Compatibility	#4 AWG - 300 kcmil Al/Cu
Terminal Torque (Main)	75 lb-in (9 N-m)
Item Weight	6.7 Pounds
Dimensions (Package)	16.5" L x 10.5" W x 8.1" H
Certifications	UL Listed, CSA, NEMA, HACR/CAAR Type Q2MB

9. WARRANTY AND SUPPORT

The manufacturer's specifications indicate "No Warranty" for this product. For technical support or further inquiries, please contact Schneider Electric directly or visit their official website.

Schneider Electric Official Website: www.se.com