

## Legrand 408700

# Legrand 408700-40A Four Pole 10kA C Curve 415V AC DX3 MCB Instruction Manual

Model: 408700

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective installation, operation, and maintenance of the Legrand 408700-40A Four Pole 10kA C Curve 415V AC DX3 Miniature Circuit Breaker (MCB). Please read this manual thoroughly before installation or use to ensure proper functionality and safety.

## 2. SAFETY INFORMATION

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**WARNING: Electrical shock hazard. Installation and maintenance must be performed by qualified personnel only.**

- Disconnect power before working on electrical circuits.
- Ensure proper grounding of the electrical system.
- Use appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.
- Do not operate the MCB if it appears damaged or shows signs of wear.
- Adhere to all local and national electrical codes and regulations during installation and use.

## 3. PRODUCT OVERVIEW

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The Legrand 408700-40A is a Four Pole Miniature Circuit Breaker designed for protection against overcurrents and short circuits in electrical installations. It features a 10kA breaking capacity and a C-curve tripping characteristic, making it suitable for general applications with moderate inrush currents.



Image: Front view of the Legrand 408700-40A Four Pole Miniature Circuit Breaker, showing the toggle switch and product labeling.

### Key Features:

- Four Pole (FP) configuration for multi-phase protection.
- 40 Amps current rating.
- 10 kA breaking capacity for robust fault interruption.
- C-curve tripping characteristic, suitable for resistive and inductive loads.
- Rated for 415V AC systems.

## 4. INSTALLATION

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Installation must be carried out by a qualified electrician in accordance with relevant electrical standards.

## Prerequisites:

- Ensure the main power supply to the installation is completely OFF and locked out.
- Verify that the MCB specifications (current rating, breaking capacity, curve type, voltage) match the circuit requirements.
- Use appropriate insulated tools for electrical work.

## Installation Steps:

1. **Mounting:** Securely mount the MCB onto a standard 35mm DIN rail within an appropriate electrical enclosure. Ensure it is firmly clipped into place.
2. **Wiring - Incoming:** Connect the incoming phase conductors (L1, L2, L3, L4) to the upper terminals of the MCB. Ensure correct phase sequence and secure connection.
3. **Wiring - Outgoing:** Connect the outgoing phase conductors to the lower terminals of the MCB.
4. **Terminal Tightening:** Tighten all terminal screws to the recommended torque specified on the device or in the technical data sheet. Overtightening or undertightening can lead to poor contact and overheating.
5. **Verification:** Double-check all connections for security, correct wiring, and absence of loose strands.
6. **Enclosure Closure:** Close the electrical enclosure securely.
7. **Power Restoration:** Restore power to the main supply.

## 5. OPERATION

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The MCB features a simple toggle switch for manual operation and visual indication of its status.

- **ON Position (Toggle Up):** The circuit is closed, allowing electrical current to flow through the MCB.
- **OFF Position (Toggle Down):** The circuit is open, disconnecting power. This is the manual OFF position.
- **TRIPPED Position (Toggle Middle):** The MCB has automatically opened the circuit due to an overcurrent or short circuit. This is an automatic OFF position.

### Resetting a Tripped MCB:

1. **Identify Cause:** Before resetting, identify and rectify the cause of the trip (e.g., remove overloaded devices, fix short circuits, replace faulty appliances).
2. **Manual OFF:** Move the toggle switch fully to the OFF (down) position. This resets the internal tripping mechanism.
3. **Restore Power:** Move the toggle switch to the ON (up) position to restore power to the circuit.
4. **Persistent Tripping:** If the MCB trips immediately again, do not attempt to reset it repeatedly. This indicates a persistent fault that requires professional investigation by a qualified electrician.

## 6. MAINTENANCE

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Legrand MCBs are designed for long-term reliability and are generally maintenance-free. However, periodic inspection is recommended to ensure continued safe operation.

- **Visual Inspection (Annually):** With power disconnected, visually inspect the MCB for any signs of physical damage, discoloration, burn marks, loose connections, or evidence of overheating.

- **Cleaning:** If necessary, gently clean the exterior of the MCB with a dry, lint-free cloth. Do not use solvents, abrasive cleaners, or liquids.
- **Terminal Tightness:** Periodically check and re-tighten terminal screws if necessary, ensuring the main power supply is disconnected before performing this task.

**WARNING: Do not attempt to repair a damaged or malfunctioning MCB. Replace it with an identical Legrand model to ensure continued protection and compliance with safety standards.**

## 7. TROUBLESHOOTING

This section provides solutions to common issues encountered with Miniature Circuit Breakers.

Problem	Possible Cause	Solution
MCB trips frequently	Overload on the circuit, short circuit, faulty appliance, incorrect MCB rating for the load.	Reduce the load on the circuit, check for and rectify short circuits, inspect appliances for faults, verify if the MCB rating is appropriate for the connected load.
MCB does not reset	Persistent fault (e.g., continuous short circuit or severe overload), internal damage to the MCB.	Ensure the fault is completely cleared. If still unable to reset after clearing the fault, the MCB may be damaged and requires replacement by a qualified electrician.
MCB feels hot to the touch	Loose terminal connections, continuous overload, undersized wiring for the circuit.	With power off, check and tighten all terminal connections. Reduce the load on the circuit. Consult an electrician to assess wiring size if overheating persists.

## 8. SPECIFICATIONS

- **Brand:** Legrand
- **Model Number:** 408700
- **Type:** Miniature Circuit Breaker (MCB)
- **Poles:** Four Pole (FP)
- **Current Rating:** 40 Amps
- **Breaking Capacity:** 10 kA
- **Curve Type:** C-Curve
- **Voltage Rating:** 415V AC
- **Generic Name:** Switchgears
- **Net Quantity:** 1.00 Count
- **Date First Available:** 22 June 2022

## 9. WARRANTY AND SUPPORT

For detailed warranty information, technical support, or service inquiries, please refer to the official Legrand website or contact your local authorized Legrand distributor. It is recommended to retain your purchase receipt as proof of purchase for any warranty claims.

**Legrand Official Website:** [www.legrand.co.in](http://www.legrand.co.in) (Please verify the correct regional website for your location.)

