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> Littelfuse 0CCB025.XP 25 Amp Carded Circuit Breaker User Manual

Littelfuse 0CCB025.XP

Littelfuse 0CCB025.XP 25 Amp Carded Circuit Breaker User Manual

Model: 0CCB025.XP | Brand: Littelfuse

1. INTRODUCTION

This user manual provides essential information for the proper installation, operation, and maintenance of your Littelfuse 0CCB025.XP 25 Amp Carded Circuit Breaker. Please read this manual thoroughly before using the product to ensure safe and efficient performance.

The Littelfuse 0CCB025.XP is a specialty OEM circuit breaker designed for 12-volt DC automotive systems, primarily functioning as a wiring harness protector. It is a direct factory replacement for many domestic OEM vehicles and conforms to the SAE J553C standard.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Always disconnect power before installing or servicing circuit breakers.

- Ensure the vehicle's battery is disconnected before attempting any installation or removal of the circuit breaker.
- Always use the correct amperage rating for your application. Using an incorrect rating can lead to electrical system damage or fire.
- Do not bypass or tamper with the circuit breaker. It is a critical safety device designed to protect your vehicle's electrical circuits.
- Consult a qualified automotive technician if you are unsure about any installation or troubleshooting steps.
- This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

3. PRODUCT OVERVIEW

The Littelfuse 0CCB025.XP is a 25 Amp circuit breaker designed for automotive applications. Its robust design ensures reliable circuit protection.

0CCB025.XP



Littelfuse®

**25A
CHRYSLER
CIRCUIT
BREAKER**

COUPE CIRCUIT
INTER INTERRUPTOR AUTOMÁTICO
SCHUTZ HALT

O
E
M





Figure 3.1: Littelfuse 0CCB025.XP 25 Amp Carded Circuit Breaker.

This image displays the Littelfuse 0CCB025.XP 25 Amp Carded Circuit Breaker, packaged for retail. The circuit breaker itself is black with brass terminals, designed to fit into ATO style fuse blocks. The packaging highlights its 25 Amp rating and identifies it as a Chrysler Circuit Breaker.

Key Features:

- Direct factory replacement for many domestic OEM vehicles.
- SAE Type I and Type II modified reset functionality.
- Conforms to SAE J553C standard for automotive circuit breakers.
- Designed for mounting in ATO style fuse blocks and panels.
- 25 Amp current rating for specific circuit protection needs.

4. SETUP AND INSTALLATION

The Littelfuse 0CCB025.XP circuit breaker is designed for straightforward installation in compatible ATO style fuse blocks.

Installation Steps:

1. **Safety First:** Before beginning, ensure the vehicle's ignition is off and the negative terminal of the battery is disconnected to prevent accidental electrical shorts or shocks.
2. **Locate Fuse Block:** Identify the fuse block or panel where the circuit breaker is to be installed or replaced. Refer to your vehicle's service manual for the exact location.
3. **Remove Old Breaker (if applicable):** If replacing an existing circuit breaker, carefully pull it straight out from its slot. Note its orientation.
4. **Insert New Breaker:** Align the terminals of the Littelfuse 0CCB025.XP circuit breaker with the corresponding slots in the fuse block. Push firmly until it is fully seated. Ensure it is oriented correctly.
5. **Reconnect Power:** Once the circuit breaker is securely installed, reconnect the negative terminal of the vehicle's battery.
6. **Test Functionality:** Turn on the vehicle's ignition and test the circuit protected by the newly installed breaker to ensure proper operation.

Note: This circuit breaker is a direct replacement for specific OEM applications. Always verify compatibility with your vehicle's electrical system requirements before installation.

5. OPERATING INSTRUCTIONS

The Littelfuse 0CCB025.XP is an automatic reset circuit breaker (SAE Type I and Type II modified reset). This means it is designed to automatically reset itself after a fault condition (like an overload or short circuit) has been cleared.

How it Works:

- **Normal Operation:** Under normal conditions, the circuit breaker allows current to flow through the circuit it protects.
- **Overload/Short Circuit:** If an excessive current (overload) or a short circuit occurs, the internal mechanism of the breaker heats up and trips, interrupting the circuit to prevent damage to wiring or components.
- **Automatic Reset:** Once the fault condition is removed (e.g., the short circuit is cleared, or the overload subsides), the breaker's internal mechanism cools down and automatically resets, restoring power to the circuit. This cycle will repeat if the fault persists.

If the circuit breaker repeatedly trips, it indicates a persistent fault in the electrical system. Do not ignore repeated tripping; investigate and resolve the underlying issue.

6. MAINTENANCE

Circuit breakers generally require minimal maintenance. However, periodic inspection can help ensure their continued reliability.

Recommended Maintenance:

- **Visual Inspection:** Periodically inspect the circuit breaker and its connections for any signs of corrosion, loose wiring, or physical damage.
- **Cleanliness:** Keep the area around the circuit breaker clean and free of dirt, dust, and moisture, which can interfere with its operation.
- **Do not attempt to open or repair the circuit breaker. If it is damaged or consistently fails to hold a circuit, it should be replaced.**

7. TROUBLESHOOTING

If you experience issues with your Littelfuse 0CCB025.XP circuit breaker, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
Circuit breaker repeatedly trips.	Persistent overload or short circuit in the protected circuit.	Identify and resolve the underlying electrical fault. This may involve checking for frayed wires, faulty components, or excessive current draw from connected devices. Do not continue to reset the breaker without addressing the fault.
Circuit breaker does not reset.	Internal damage to the breaker; severe, un-cleared fault; or incorrect breaker type.	Ensure the fault condition has been completely removed. If it still does not reset, the breaker may be damaged and requires replacement. Verify that the correct SAE Type I or Type II modified reset breaker is installed.

Problem	Possible Cause	Solution
No power to the circuit, but breaker is not tripped.	Loose connection, wiring issue, or fault in another part of the circuit.	Check all connections to the circuit breaker and within the circuit. Use a multimeter to test for continuity and voltage. The issue may not be with the breaker itself.

If troubleshooting steps do not resolve the issue, it is recommended to consult a professional automotive electrician.

8. SPECIFICATIONS

Detailed technical specifications for the Littelfuse 0CCB025.XP 25 Amp Carded Circuit Breaker:

Specification	Value
Brand	Littelfuse
Model Number	0CCB025.XP
Current Rating	25 Amps
Voltage	12 Volts DC
Circuit Breaker Type	Standard, SAE Type I and Type II modified reset
Mounting Type	Panel Mount (ATO style fuse blocks)
Number Of Poles	2
Item Weight	0.353 ounces
Product Dimensions	2.5 x 4 x 2 inches
UPC	079458034738

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Littelfuse 0CCB025.XP circuit breaker, please refer to the warranty documentation provided with your purchase or visit the official Littelfuse website.

If you require technical support or have questions not covered in this manual, please contact Littelfuse customer service through their official channels. Always provide your product model number (0CCB025.XP) when seeking support.

Littelfuse Official Website: www.littelfuse.com

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