

Mersen OT Class K-5, 60 Ampere

Mersen OT Class K-5 General Purpose Fuse User Manual

Model: **OT Class K-5, 60 Ampere**

Brand: **Mersen**

INTRODUCTION

This manual provides essential information for the safe and effective use of the Mersen OT Class K-5 General Purpose Fuse. Designed for low-cost protection of feeder and branch circuits, this fuse is suitable for lighting, heating, and other non-motor loads. It is engineered to safely interrupt high short-circuit currents, ensuring the integrity of your electrical systems.

Please read this manual thoroughly before installation or replacement to ensure proper application and safety.

SAFETY INFORMATION

WARNING: Electrical shock hazard. Always disconnect power before installing or replacing fuses. Only qualified personnel should perform electrical work.

- Ensure the replacement fuse has an equal or higher interrupting rating than the original fuse. This fuse is not a rejection fuse.
- Verify the voltage and ampere ratings of the fuse match the circuit requirements.
- Do not use damaged fuses.
- Adhere to all local and national electrical codes.

SETUP AND INSTALLATION

The Mersen OT Class K-5 fuse is designed for straightforward installation in appropriate fuse holders. Follow these steps for safe setup:

1. **Power Disconnection:** Before beginning any work, ensure that the main power supply to the circuit where the fuse will be installed or replaced is completely disconnected and locked out. Use a voltage tester to confirm the circuit is de-energized.
2. **Identify Fuse Holder:** Locate the fuse holder designed for cartridge fuses of this size (13/16" Diameter x 3" Length).
3. **Verify Ratings:** Confirm that the voltage (250VAC/DC) and ampere (60 Ampere) ratings of the Mersen OT Class K-5 fuse match the requirements of your circuit and the original fuse, if replacing. Also, ensure the interrupting rating (50kA AC/20kA DC) is sufficient.
4. **Insert Fuse:** Carefully insert the fuse into the fuse holder. Ensure it is seated firmly and makes good electrical contact at both ends.
5. **Secure Fuse Holder:** If the fuse holder has a cover or securing mechanism, ensure it is properly closed and secured.
6. **Restore Power:** Once the fuse is securely installed and all safety checks are complete, restore power to the circuit.

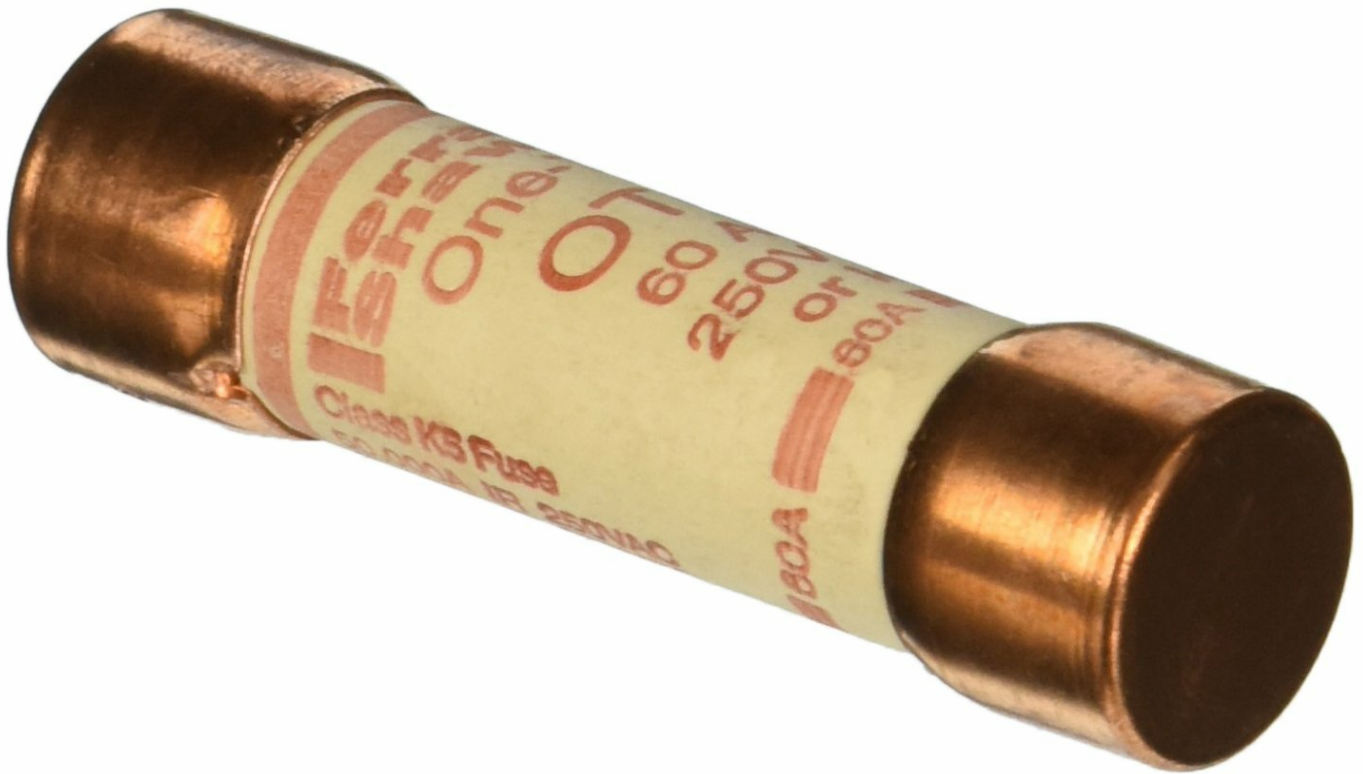


Image: A Mersen OT Class K-5 General Purpose Fuse. This cylindrical fuse features copper end caps and a light-colored body with red text indicating "Mersen", "One-OT", "60 A", "250V", and "Class K5 Fuse". It is designed for circuit protection.

OPERATING PRINCIPLES

The Mersen OT Class K-5 General Purpose Fuse is a passive overcurrent protection device. It operates by melting a

metallic element when the current flowing through it exceeds a predetermined level for a specific duration. This interruption protects electrical equipment and wiring from damage due to overcurrents or short circuits.

- **Overcurrent Protection:** The fuse is designed to open the circuit when current levels become dangerously high, preventing damage to downstream components.
- **Short Circuit Interruption:** In the event of a short circuit, the fuse rapidly interrupts the fault current, protecting the system from catastrophic failure.
- **Non-Motor Loads:** This fuse is optimized for general purpose applications, including lighting, heating, and other resistive or non-motor loads.

MAINTENANCE

Fuses are generally maintenance-free devices. However, periodic inspection of the fuse and its holder is recommended to ensure continued reliable operation.

- **Visual Inspection:** Periodically inspect the fuse and fuse holder for any signs of physical damage, discoloration, or loose connections.
- **Cleanliness:** Ensure the fuse holder contacts are clean and free from dust or corrosion.
- **Replacement:** A fuse that has operated (blown) must be replaced. It cannot be reset or repaired. Always replace a blown fuse with one of the identical type, voltage, and ampere rating, and an equal or higher interrupting rating.

TROUBLESHOOTING

The primary indication of a fuse issue is a loss of power to the circuit it protects. If a circuit loses power, the fuse may have blown.

Symptom: Loss of power to a circuit.

Possible Cause: The Mersen OT Class K-5 fuse has blown due to an overcurrent or short circuit.

Solution:

1. **Disconnect Power:** Immediately disconnect all power to the affected circuit.
2. **Identify Blown Fuse:** Visually inspect the fuse. While this fuse type may not have a clear indicator, a blown fuse might show signs of discoloration or a broken element if visible.
3. **Identify Cause:** Before replacing the fuse, investigate the cause of the overcurrent or short circuit. This could be a faulty appliance, damaged wiring, or an overloaded circuit. Resolve the underlying issue first.
4. **Replace Fuse:** Once the cause is identified and rectified, replace the blown fuse with a new Mersen OT Class K-5 fuse of the exact same voltage, ampere, and interrupting ratings. Refer to the "Setup and Installation" section for replacement steps.
5. **Restore Power:** Restore power and monitor the circuit. If the new fuse blows immediately, there is still an unresolved issue in the circuit, and further professional electrical inspection is required.

Note: Repeated fuse blowing indicates a persistent electrical problem that requires professional diagnosis and

repair.

SPECIFICATIONS

Attribute	Value
Brand	Mersen
Model	OT Class K-5
Ampere Rating	60 Ampere
Voltage Rating	250VAC/DC
Interrupting Rating (AC)	50kA
Interrupting Rating (DC)	20kA
Dimensions (Diameter x Length)	13/16" x 3"
Material	Copper (end caps)
Approvals/Standards	UL Listed to Standard 248-9 File E2137, CSA Certified to Standard C22.2 No. 248.9, Self-certified for DC per UL248
Application Type	General Purpose, Non-Motor Loads (feeders, branch circuits, resistive heating, residential and small commercial installations)

WARRANTY AND SUPPORT

Mersen products are manufactured to high quality standards. For specific warranty information, please refer to the documentation provided with your purchase or visit the official Mersen website. In general, fuses are consumable items designed to operate once to protect a circuit.

For technical support, product inquiries, or to locate authorized distributors, please contact Mersen customer service or visit their official website. Always ensure you are using genuine Mersen replacement parts.

Note: This manual provides general guidance. Specific applications may require consultation with a qualified electrician or electrical engineer.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question