

Mersen TRS25R-3PK

Mersen TRS25R-3PK 600V 25A Class RK5 Time Delay Fuse Instruction Manual

Model: TRS25R-3PK | Brand: Mersen

1. INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of the Mersen TRS25R-3PK Class RK5 Time Delay Fuse. Please read this manual thoroughly before using the product and retain it for future reference. This fuse is designed for reliable circuit protection in various industrial and commercial applications.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Improper installation or use can result in serious injury or death. Always follow local electrical codes and safety regulations.

- Installation and maintenance should only be performed by qualified electrical personnel.
- Always disconnect power to the circuit before installing, removing, or inspecting fuses.
- Use appropriate personal protective equipment (PPE), such as insulated gloves and eye protection.
- Ensure the replacement fuse has the identical voltage, amperage, and interrupting rating as the original fuse.
- Do not bypass or tamper with fuses.

3. PRODUCT OVERVIEW

The Mersen TRS25R-3PK is a Class RK5 time-delay fuse, rated for 600 volts and 25 amperes. These fuses are designed to provide superior protection for motors and transformers, allowing temporary overcurrents (inrush currents) without nuisance tripping, while still providing fast-acting protection for short circuits.



Figure 3.1: Mersen TRS25R-3PK Fuses in Packaging. This image shows three Mersen TRS25R-3PK fuses, each rated 600V and 25A, packaged together. The fuses are cylindrical with copper end caps and a white body with red and blue markings.

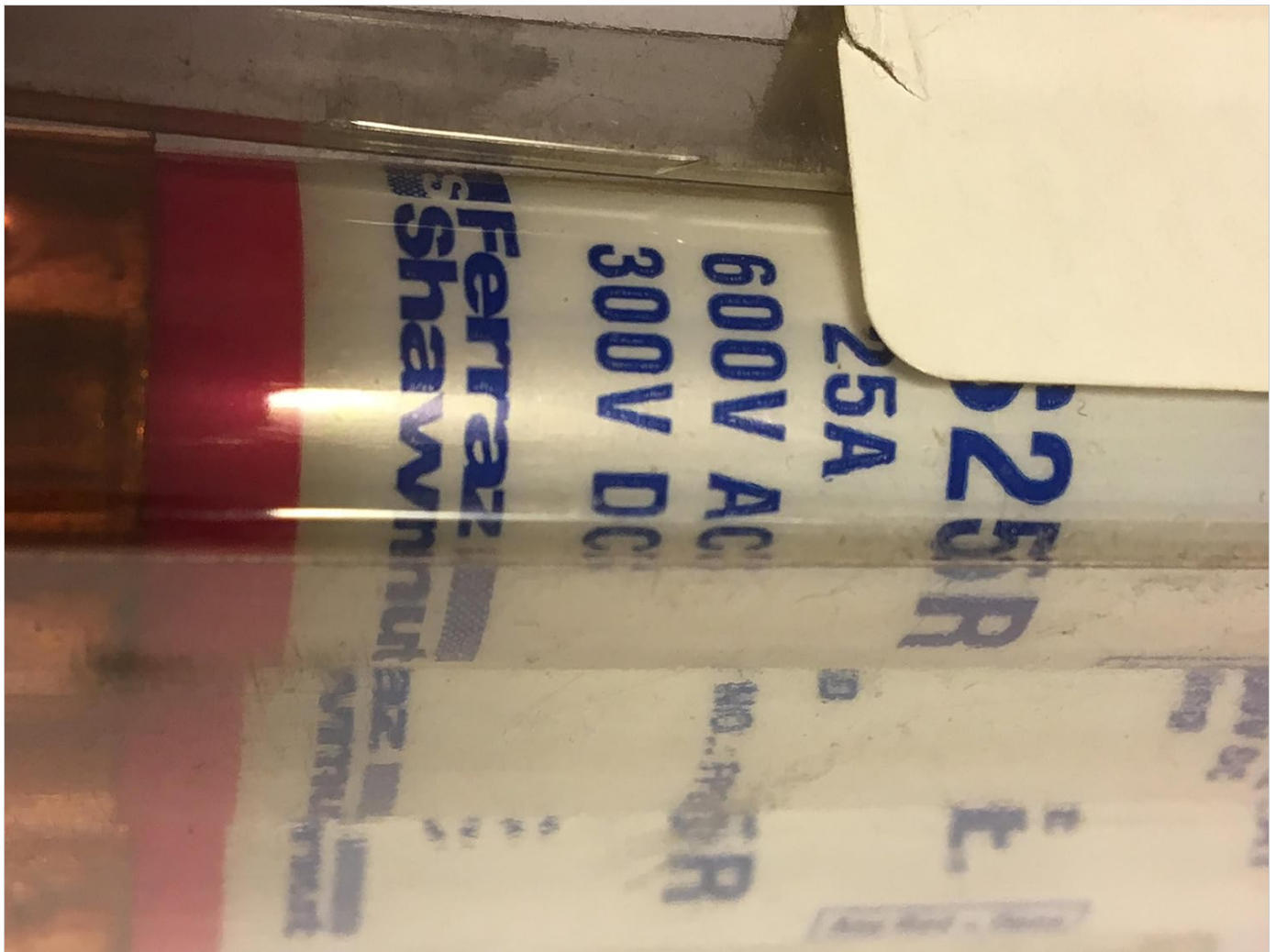


Figure 3.2: Detailed View of Fuse Markings. A close-up of one Mersen TRS25R-3PK fuse, highlighting the "600V AC" and "25A" ratings, along with "Class RK5" and "Time Delay" labels. The Ferraz Shawmut brand name is also visible.

4. INSTALLATION

Follow these general guidelines for installing the Mersen TRS25R-3PK fuse. Always refer to the equipment manufacturer's instructions and local electrical codes.

1. **Power Disconnection:** Ensure all power to the circuit is completely disconnected and locked out before beginning installation. Verify with a voltage tester.
2. **Fuse Holder Compatibility:** Confirm that the fuse holder or disconnect switch is rated for the fuse's voltage and current, and is designed for Class RK5 fuses.
3. **Insert Fuse:** Carefully insert the fuse into the appropriate fuse clips or holder. Ensure a secure and proper connection.
4. **Verify Installation:** Double-check that the fuse is correctly seated and that all connections are tight.
5. **Restore Power:** Once installation is complete and verified, restore power to the circuit.

5. OPERATION

The Mersen TRS25R-3PK is a time-delay fuse, meaning it is designed to withstand temporary overcurrents that occur during motor startup or transformer energization without opening the circuit. However, it will quickly interrupt the circuit in the event of a sustained overload or a short circuit, protecting equipment from damage.

- The fuse operates passively, providing continuous protection as long as it is properly installed and within its operational limits.
- A blown fuse indicates an electrical fault or overload condition in the protected circuit.

6. MAINTENANCE

Fuses are generally maintenance-free components. However, periodic inspection is recommended to ensure continued reliable operation.

- **Visual Inspection:** Periodically inspect fuses and fuse holders for any signs of physical damage, discoloration, or loose connections.
- **Replacement:** If a fuse has blown (indicated by a tripped indicator or continuity test), it must be replaced. Always replace with a fuse of the exact same type, voltage, and amperage rating (e.g., Mersen TRS25R-3PK).
- **Cleaning:** Ensure fuse clips and holders are clean and free of corrosion to maintain good electrical contact.

7. TROUBLESHOOTING

If a circuit protected by the Mersen TRS25R-3PK fuse loses power, follow these steps:

1. **Disconnect Power:** Immediately disconnect all power to the affected circuit.
2. **Identify Blown Fuse:** Visually inspect the fuse for a blown indicator (if present) or use a multimeter to test for continuity across the fuse. A lack of continuity indicates a blown fuse.
3. **Determine Cause:** Before replacing the fuse, investigate and rectify the cause of the overload or short circuit. Replacing a fuse without addressing the underlying issue will likely result in the new fuse blowing as well.
4. **Replace Fuse:** Replace the blown fuse with a new Mersen TRS25R-3PK fuse, ensuring it has the identical ratings.
5. **Restore Power:** After replacing the fuse and confirming the fault is resolved, restore power to the circuit.

If the fuse continues to blow, consult a qualified electrician.

8. SPECIFICATIONS

Feature	Specification
Brand	Mersen (formerly Ferraz Shawmut)
Model Number	TRS25R-3PK
Fuse Class	RK5
Voltage Rating	600V AC
Current Rating	25 A
Type	Time Delay
Mounting Type	Surface Mount (for compatible fuse holders)
Color	Copper (end caps)
UPC / GTIN	782001333690

9. WARRANTY AND SUPPORT

Mersen products are manufactured to high-quality standards. For specific warranty information, please refer to the official Mersen website or contact Mersen customer support directly. Keep your purchase receipt for warranty claims.
For technical assistance or further inquiries, please visit the official Mersen website or contact their authorized distributors.

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

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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