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Bussmann TIA25A Fuse Instruction Manual

Model: TIA25A | Brand: Bussmann

INTRODUCTION

This manual provides essential information for the safe and effective use of the Bussmann TIA25A, TIA25, 400294 series fuse. It covers installation, operation, maintenance, and troubleshooting. Please read this manual thoroughly before installation or use.

SAFETY INFORMATION

Always observe the following safety precautions:

- Ensure power is disconnected before installing or replacing fuses.
- Only use fuses with the correct voltage and current ratings for the circuit.
- Do not bypass or modify fuses.
- Wear appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses, when working with electrical systems.
- Consult a qualified electrician if you are unsure about any aspect of installation or maintenance.

SETUP AND INSTALLATION

The Bussmann TIA25A fuse is designed for specific electrical circuits requiring 25 Amp protection at 660VAC. Proper installation is critical for safety and performance.

1. **Verify Compatibility:** Confirm that the fuse's voltage (660VAC) and current (25 Amp) ratings match the requirements of your electrical system.
2. **Disconnect Power:** Before beginning any work, ensure that the main power supply to the circuit is completely disconnected and locked out.
3. **Locate Fuse Holder:** Identify the appropriate fuse holder or circuit breaker panel where the fuse will be installed.
4. **Insert Fuse:** Carefully insert the TIA25A fuse into the designated fuse holder. Ensure it is seated firmly and correctly. The fuse features end caps with mounting holes for secure attachment if applicable to the fuse holder.

design.

5. **Secure Connections:** If the fuse holder requires bolted connections, ensure all connections are tightened to the manufacturer's specifications to prevent loose contacts and overheating.
6. **Restore Power:** Once the fuse is securely installed and all connections are verified, restore power to the circuit.



Figure 1: A Bussmann TIA25A fuse, cylindrical in shape with metal end caps and a label indicating "TIA25 25 Amp" and "660VAC". One end cap features a flat tab with a mounting hole, designed for secure installation in a fuse holder.

OPERATION

The Bussmann TIA25A fuse is a passive overcurrent protection device. It operates by interrupting the electrical circuit when the current exceeds its rated value (25 Amps) for a specified duration, thereby protecting equipment from damage due to overloads or short circuits. It does not require user interaction during normal operation.

MAINTENANCE

Fuses are generally maintenance-free components. However, periodic inspection is recommended:

- **Visual Inspection:** Periodically inspect the fuse and its holder for any signs of physical damage, discoloration, or loose connections.
- **Replacement:** If the fuse has blown (indicated by a break in the internal element or a "red spot" indicator if present), it must be replaced with an identical fuse of the same type, voltage, and current rating. Do not attempt to repair a blown fuse.
- **Cleaning:** Ensure the fuse and its contacts are free from dust, dirt, or corrosion. Use a dry, non-abrasive cloth for cleaning.

TROUBLESHOOTING

If a circuit protected by the TIA25A fuse loses power, the fuse may have blown. Follow these steps:

1. **Disconnect Power:** Immediately disconnect power to the affected circuit.
2. **Identify Blown Fuse:** Visually inspect the fuse. Some fuses, like the TIA25A, may have a "red spot" indicator that pops out when the fuse blows. If no indicator, a multimeter can be used to check for continuity across the fuse.
3. **Determine Cause:** Before replacing the fuse, investigate the cause of the overcurrent. Common causes include short circuits, overloaded circuits, or faulty equipment. Replacing a fuse without addressing the underlying issue will likely result in another blown fuse.
4. **Replace Fuse:** Once the cause is identified and rectified, replace the blown fuse with a new Bussmann TIA25A fuse of the exact same specifications.
5. **Restore Power:** Restore power and monitor the circuit. If the new fuse blows immediately, there is still an unresolved issue in the circuit that requires professional attention.

SPECIFICATIONS

Attribute	Value
Model Number	TIA25A, TIA25, 400294
Brand	Bussmann
Current Rating	25 Amp
Voltage Rating	660VAC
Type	Cartridge Fuse
ASIN	B07HCJGV31
Date First Available	July 17, 2019

WARRANTY INFORMATION

Bussmann products are manufactured to high quality standards. For specific warranty details, please refer to the official Bussmann website or contact their customer support. Warranty typically covers defects in materials and workmanship under normal use.

SUPPORT

For technical assistance, product inquiries, or support, please visit the official Bussmann website or contact their customer service department. Always provide the model number (TIA25A) and any relevant details when seeking support.

Online Resources: Eaton Bussmann Fuses