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› Witronics T500mAL250V Slow Blow Cartridge Glass Fuses Instruction Manual

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Model: T500mAL250V

INTRODUCTION

Thank you for choosing Witronics T500mAL250V Slow Blow Cartridge Glass Fuses. These fuses are designed to protect electrical circuits from overcurrent conditions, preventing damage to sensitive components. This manual provides essential information for the safe and effective use of your fuses. Please read it thoroughly before installation and keep it for future reference.

IMPORTANT SAFETY INFORMATION

WARNING: Electrical work can be dangerous. Always follow local electrical codes and safety guidelines. If you are unsure about any procedure, consult a qualified electrician.

- Always disconnect power to the circuit before inspecting, installing, or replacing fuses.
- Never use a fuse with a higher current rating than specified for the circuit. This can lead to overheating, fire, or damage to equipment.
- Ensure the replacement fuse matches the original fuse's voltage, current, and blow characteristics (e.g., slow blow, fast blow).
- Do not bypass or tamper with fuses. Fuses are safety devices designed to protect against hazards.
- Handle fuses carefully to avoid breakage.

INSTALLATION INSTRUCTIONS

1. **Identify the Blown Fuse:** Locate the fuse that needs replacement. A blown glass fuse typically has a broken filament or a darkened glass tube.
2. **Disconnect Power:** Before touching any electrical components, ensure the power supply to the circuit is completely disconnected at the main breaker or power switch. Verify with a voltage tester if necessary.
3. **Remove the Old Fuse:** Carefully remove the blown fuse from its holder. Depending on the holder type, this may involve twisting, pulling, or using a fuse puller tool.

4. **Verify Replacement Fuse:** Confirm that the new Witonics T500mAL250V fuse matches the specifications of the original fuse (500mA, 250V, Slow Blow, 5x20mm size).
5. **Insert the New Fuse:** Insert the new fuse firmly into the fuse holder. Ensure it is seated correctly and makes good electrical contact.
6. **Restore Power:** Once the new fuse is securely in place, restore power to the circuit.



Image: A Witonics T500mAL250V Slow Blow Cartridge Glass Fuse, showing its clear glass body and metal end caps. This image illustrates the typical appearance of the fuse for identification.

OPERATION AND FUNCTION

The Witonics T500mAL250V fuse is a **slow blow** (time delay) type fuse. This means it is designed to tolerate temporary overcurrent conditions, such as those that occur during motor startup or power surges, without immediately blowing. It will only blow and interrupt the circuit if an overcurrent condition persists for a longer duration, indicating a sustained fault that could damage equipment or pose a safety risk.

When the current flowing through the fuse exceeds its rated capacity (500mA) for a sufficient period, the internal filament melts, creating an open circuit and stopping the flow of electricity. This protective action safeguards the connected device or appliance from damage due to excessive current.

MAINTENANCE

Witonics T500mAL250V fuses are maintenance-free components. They are designed for single-use protection. Once a fuse blows, it must be replaced with a new fuse of identical specifications. Do not attempt to repair a blown fuse.

TROUBLESHOOTING

If a fuse blows, it indicates an overcurrent condition in the circuit. Follow these steps:

1. **Identify the Cause:** Before replacing the fuse, try to determine why it blew. Common causes include:

- A faulty appliance or device connected to the circuit.
- A short circuit in the wiring.
- An overloaded circuit (too many devices drawing power).

2. **Replace the Fuse:** Follow the "Installation Instructions" above to replace the blown fuse with a new one of the correct rating.
3. **Test the Circuit:** Restore power and observe the circuit. If the new fuse blows immediately or shortly after, there is still an underlying fault that needs to be addressed. Disconnect power and investigate further.
4. **Consult a Professional:** If you cannot identify or resolve the cause of the blown fuse, or if fuses continue to blow, consult a qualified electrician or service technician.

SPECIFICATIONS

Feature	Specification
Model	T500mAL250V
Current Rating	500mA (0.5 Amp)
Voltage Rating	250V
Fuse Type	Slow Blow (Time Delay)
Dimensions	5x20mm (3/16 inch x 3/4 inch)
Material	Glass
Mounting Type	Surface Mount (Axial)
UPC	631908868647

WARRANTY INFORMATION

Witonics products are manufactured to high-quality standards. Due to the nature of fuses as protective, single-use components, specific warranty terms may vary. Please refer to the retailer's return policy or contact Witonics customer support for detailed warranty information regarding manufacturing defects. Fuses that have blown due to overcurrent are considered to have performed their intended function and are not covered under warranty.

CUSTOMER SUPPORT

For technical assistance, product inquiries, or support, please contact Witonics customer service. You can typically find contact information on the Witonics official website or through your product retailer.

Witonics Official Website: [Visit Witonics Store on Amazon](#)

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