

Bussmann AGC 10A

Bussmann AGC 10A 250V Fast Blow Cartridge Glass Fuses

Model: AGC 10A

INTRODUCTION

This instruction manual provides essential information for the safe and effective use of Bussmann AGC 10A 250V Fast Blow Cartridge Glass Fuses. These fuses are designed to protect electrical circuits from overcurrent conditions, preventing damage to equipment and ensuring safety. Please read this manual thoroughly before installation or replacement.

SAFETY INFORMATION

- **Electrical Hazard:** Always disconnect power to the circuit before inspecting, installing, or replacing fuses. Failure to do so can result in electric shock or injury.
- **Correct Rating:** Only replace a fuse with one of the exact same voltage and current rating. Using a fuse with an incorrect rating can lead to inadequate protection, circuit damage, or fire.
- **Physical Inspection:** Visually inspect fuses for any signs of damage before installation. Do not use damaged fuses.
- **Professional Installation:** If you are unsure about any aspect of fuse installation or electrical work, consult a qualified electrician.

PRODUCT OVERVIEW

The Bussmann AGC 10A 250V fuse is a fast-acting glass cartridge fuse designed for general-purpose circuit protection. It features a glass body, allowing for visual inspection of the fuse element. When an overcurrent condition occurs, the internal element melts, breaking the circuit and protecting connected components.



Image: A Bussmann AGC 10A 250V Fast Blow Cartridge Glass Fuse. This image displays the transparent glass body and metal end caps of the fuse, which is approximately 6x30mm in size.

- **Type:** Fast Blow (Fast Acting)
- **Current Rating:** 10 Amps
- **Voltage Rating:** 250 Volts
- **Dimensions:** 6x30mm (1/4 inch x 1-1/4 inch)
- **Material:** Glass

INSTALLATION AND REPLACEMENT

1. **Disconnect Power:** Before beginning, ensure that the power supply to the circuit or device is completely disconnected. This may involve unplugging the device or turning off the circuit breaker.
2. **Locate Fuse Holder:** Identify the fuse holder in your equipment. This may be a clip-type holder, a screw-in cap, or part of a fuse block.
3. **Remove Blown Fuse:** Carefully remove the old, blown fuse. For cartridge fuses, this often involves gently prying it out of its clips or unscrewing the cap.
4. **Verify Rating:** Confirm that the replacement fuse (Bussmann AGC 10A 250V) matches the specifications of the original fuse. Check the current (Amps) and voltage (Volts) ratings.
5. **Insert New Fuse:** Insert the new fuse firmly into the fuse holder. Ensure it is seated correctly and securely.
6. **Restore Power:** Once the new fuse is installed, restore power to the circuit or device.

Important: Never force a fuse into a holder. If it does not fit, it is likely the wrong size or type.

OPERATING PRINCIPLES

Fuses are passive safety devices. They do not actively operate in the sense of a switch or control. Their function is to act as a sacrificial component in an electrical circuit. When the current flowing through the circuit exceeds the fuse's rated amperage for a specific duration, the metallic element inside the fuse melts due to the heat generated. This action, known as "blowing," creates an open circuit, thereby interrupting the flow of electricity and protecting more sensitive or expensive components from damage due to overcurrent or short circuits.

The Bussmann AGC 10A is a "fast blow" fuse, meaning it is designed to react quickly to overcurrent conditions, making it suitable for protecting circuits where rapid disconnection is critical.

MAINTENANCE

Bussmann AGC glass cartridge fuses are generally maintenance-free components. They are designed for single-use protection. However, periodic visual inspection of fuses in critical applications can be beneficial.

- **Visual Inspection:** If a circuit is not functioning, visually inspect the fuse for a broken or melted

internal element, which indicates it has blown. The glass body allows for this inspection.

- **Cleanliness:** Ensure fuse holders are free from dust, dirt, or corrosion, which could impede proper electrical contact.

Do not attempt to repair a blown fuse. Always replace it with a new fuse of the identical rating.

TROUBLESHOOTING

If a device or circuit stops functioning, a blown fuse is a common cause. Follow these steps to troubleshoot:

1. **Disconnect Power:** Ensure the power to the affected circuit or device is completely off.
2. **Locate and Inspect Fuse:** Find the fuse protecting the circuit. Visually inspect the glass fuse for a broken or discolored internal wire element. A dark or cloudy appearance inside the glass can also indicate a blown fuse.
3. **Test with Multimeter (Optional):** If visual inspection is inconclusive, a multimeter can be used to check for continuity across the fuse. A blown fuse will show no continuity.
4. **Replace Fuse:** If the fuse is confirmed blown, replace it with a new Bussmann AGC 10A 250V fuse, following the installation steps outlined in this manual.
5. **Identify Cause:** A fuse blows to indicate an underlying issue. If a new fuse blows immediately, there is likely an overcurrent or short circuit fault in the equipment or wiring that needs to be addressed by a qualified technician. Repeated fuse blowing is not normal and requires investigation.

Warning: Never replace a fuse with one of a higher amperage rating or bypass a fuse. This can lead to severe damage to equipment, fire, or personal injury.

SPECIFICATIONS

Specification	Value
Brand	Bussmann
Model Number	AGC 10A
Current Rating	10 Amps
Voltage Rating	250 Volts
Fuse Type	Fast Blow (Fast Acting)
Dimensions	6x30mm (1/4 inch x 1-1/4 inch)
Material	Glass
Compliance	CE, CSA, RoHS
Manufacturer	Cooper Industries

WARRANTY INFORMATION

Specific warranty details for Bussmann AGC 10A 250V Fast Blow Cartridge Glass Fuses are not provided in the available product data. For comprehensive warranty information, please refer to the official

Bussmann website or contact the retailer from whom the product was purchased.

SUPPORT

For technical assistance, product inquiries, or further support regarding Bussmann AGC 10A 250V Fast Blow Cartridge Glass Fuses, please contact the manufacturer, Cooper Industries (Bussmann), directly through their official customer support channels. Contact information can typically be found on their corporate website.