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› Bussmann KTS-R-60 Limitron Class RK1 Fast Acting Fuse User Manual

## Bussmann KTS-R-60

# Bussmann KTS-R-60 Limitron Class RK1 Fast Acting Fuse User Manual

Model: KTS-R-60

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective use of the Bussmann KTS-R-60 Limitron Class RK1 Fast Acting Fuse. It covers product overview, safety guidelines, installation, operation, maintenance, and technical specifications. Please read this manual thoroughly before handling or installing the fuse.

## 2. SAFETY INFORMATION

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**WARNING: Electrical shock hazard. Improper installation or handling of electrical components can result in serious injury or death. Always follow local electrical codes and safety practices.**

- Ensure all power to the circuit is disconnected before installing, inspecting, or replacing fuses. Verify with a voltage tester.
- Only qualified personnel should perform electrical work.
- Do not use a fuse with a rating higher than specified for the circuit.
- Never bypass a fuse or use a substitute that is not specifically designed for the application.
- Wear appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.
- Inspect fuses for physical damage before installation. Do not install damaged fuses.

## 3. PRODUCT OVERVIEW

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The Bussmann KTS-R-60 is a Limitron Class RK1 fast-acting, current-limiting fuse designed for superior circuit protection. It is engineered to quickly clear faults, reducing the potential for damage to equipment and minimizing downtime. Class RK1 fuses offer a high degree of current limitation, which helps to protect components from the damaging effects of high fault currents.



Figure 1: Bussmann KTS-R-60 Limitron Class RK1 Fast Acting Fuse. This image displays the Bussmann KTS-R-60 Limitron Class RK1 Fast Acting Fuse. It is a cylindrical fuse with a black main body and metallic copper end caps. A red label is wrapped around the center, clearly indicating 'Limitron', 'fast-acting', 'CURRENT LIMITING FUSE', 'A BUSS QUALITY Fuse', 'KTS-R-60', and 'UL LISTED'.

## 4. INSTALLATION

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The KTS-R-60 fuse is designed for through-hole mounting in appropriate fuse holders or blocks. Follow these general steps for installation:

1. **Power Disconnection:** Ensure that all power to the circuit where the fuse will be installed is completely disconnected and locked out. Verify zero voltage with a suitable testing device.
2. **Fuse Holder Preparation:** Ensure the fuse holder or block is clean and free from debris or corrosion.
3. **Fuse Insertion:** Carefully insert the KTS-R-60 fuse into the designated fuse holder. Ensure it is seated firmly and correctly to establish proper electrical contact.
4. **Verification:** Double-check that the fuse is securely in place and that all connections are tight, if applicable to the fuse holder type.
5. **Power Restoration:** Once installation is complete and verified, restore power to the circuit.

*Note: Always replace a blown fuse with a fuse of the identical type and rating (e.g., KTS-R-60 with another KTS-R-60).*

## 5. OPERATION

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The Bussmann KTS-R-60 fuse operates passively as a safety device. Under normal operating conditions, the fuse allows current to flow through the circuit without interruption. If an overcurrent condition (e.g., overload or short circuit) occurs, the fuse's internal element will melt rapidly, interrupting the circuit and preventing damage to electrical equipment and wiring. This fast-acting, current-limiting characteristic is crucial for protecting sensitive components.

## 6. MAINTENANCE

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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 corrosion.
- **Replacement:** If a fuse has blown (indicated by an open circuit when tested with a multimeter, or sometimes a visible indicator on certain fuse types), it must be replaced. Always replace with a fuse of the exact same type and rating.
- **Cleaning:** Ensure the fuse holder contacts are clean to maintain good electrical conductivity.

## 7. TROUBLESHOOTING

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If a circuit protected by a KTS-R-60 fuse loses power, the fuse may have activated. Follow these steps:

1. **Disconnect Power:** Safely disconnect all power to the affected circuit.
2. **Inspect Fuse:** Remove the fuse and visually inspect it for signs of a blown element. If no visual indicator is present, use a multimeter to check for continuity. A blown fuse will show an open circuit (no continuity).
3. **Identify Cause:** Before replacing the fuse, investigate the cause of the overcurrent. Common causes include overloaded circuits, short circuits, or faulty equipment. Replacing a fuse without addressing the underlying problem will likely result in the new fuse blowing as well.
4. **Replace Fuse:** Once the cause is identified and rectified, replace the blown fuse with a new Bussmann KTS-R-60 fuse.
5. **Restore Power:** Safely restore power and monitor the circuit.

## 8. SPECIFICATIONS

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<b>Brand</b>	Bussmann
<b>Model Number</b>	KTS-R-60
<b>Fuse Type</b>	Limitron Class RK1, Fast-Acting, Current-Limiting
<b>Manufacturer</b>	Cooper Bussmann
<b>Product Dimensions</b>	5.8 x 5.7 x 2.3 inches
<b>Item Weight</b>	1 Pound
<b>Mounting Type</b>	Through-Hole Mount
<b>Specifications Met</b>	CSA, IEC, ISO, NEMA
<b>UPC</b>	051712417129
<b>ASIN</b>	B003AUDC3E

## 9. WARRANTY AND SUPPORT

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For information regarding warranty, technical support, or product inquiries, please contact Bussmann (a brand of Eaton) directly through their official website or customer service channels. Refer to the product

packaging or the manufacturer's website for the most current contact information.