

Littelfuse 0895030.Z

Littelfuse 0895030.Z Low Profile JCASE Cartridge Fuse User Manual

Model: 0895030.Z

1. PRODUCT OVERVIEW

The Littelfuse 0895030.Z is a 30 Amp, 58 Volt Low Profile JCASE Cartridge Fuse designed for automotive applications. This fuse provides reliable circuit protection in vehicles, safeguarding electrical components from overcurrent conditions. Its low-profile design allows for space-saving installations in modern vehicle fuse boxes.

JCASE fuses are known for their robust construction and are commonly used in power distribution centers and fuse panels for high-current circuits such as anti-lock brakes, cooling fans, and power steering systems.



Figure 1: A single Littelfuse 0895030.Z 30 Amp Low Profile JCASE Cartridge Fuse. This image shows the compact, square design of the fuse with its clear top indicating the amperage rating.

2. SPECIFICATIONS

Below are the detailed specifications for the Littelfuse 0895030.Z fuse:

Specification	Value
Brand	Littelfuse
Item Model Number	0895030.Z

Specification	Value
AC Adapter Current	30 Amps
Voltage Rating	58 Volts
Material	Silver
Specification Met	Jcase
Package Dimensions	6 x 4 x 0.1 inches
Item Weight	0.18 ounces

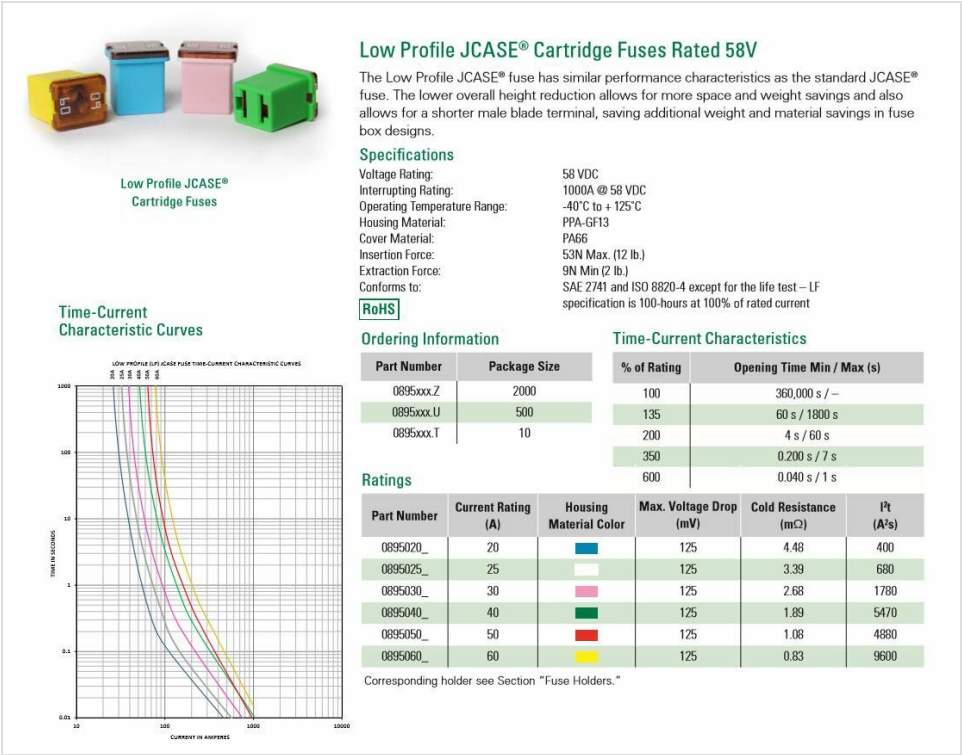


Figure 2: Technical specifications and time-current characteristics for Low Profile JCASE Cartridge Fuses. This diagram provides detailed electrical and physical properties.

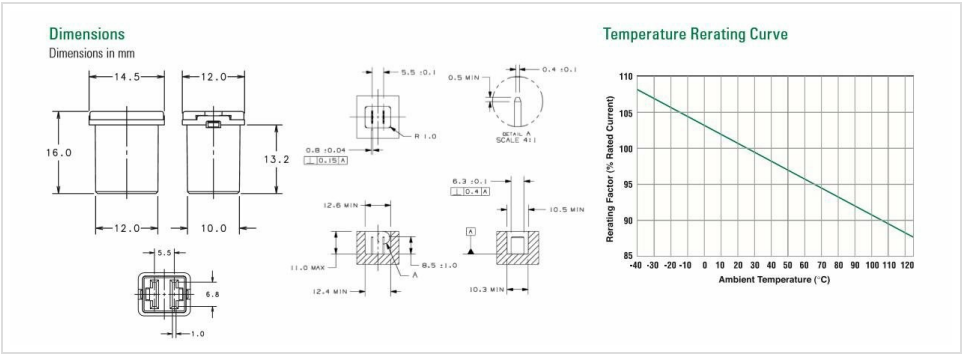


Figure 3: Detailed dimensions in millimeters and the temperature derating curve for Littelfuse JCASE fuses. This helps in understanding physical fitment and performance under varying temperatures.

3. INSTALLATION AND SETUP

Replacing a fuse requires careful attention to safety and proper selection of the replacement fuse. Always consult your vehicle's owner's manual for specific fuse box locations and procedures.

Safety Precautions:

- Always disconnect the vehicle's battery or ensure the ignition is off before attempting to replace any fuse to prevent electrical shock or damage to the vehicle's electrical system.
- Never replace a fuse with one of a higher amperage rating. This can lead to serious damage to the wiring or components, and potentially cause a fire.
- Use appropriate tools, such as a fuse puller, to safely remove and install fuses.

Installation Steps:

1. Locate the fuse box in your vehicle. Common locations include under the hood, inside the passenger compartment (e.g., under the dashboard), or in the trunk.
2. Identify the blown fuse. A blown fuse typically has a broken filament inside or a discolored appearance. Refer to your vehicle's fuse diagram to identify the correct fuse for the affected circuit.
3. Using a fuse puller or small pliers, carefully remove the blown fuse.
4. Insert the new Littelfuse 0895030.Z fuse (30 Amp) into the empty slot, ensuring it is fully seated. The new fuse must match the amperage rating and type (JCASE Low Profile) of the original fuse.
5. Once the fuse is replaced, close the fuse box cover and reconnect the vehicle's battery if it was disconnected.
6. Test the circuit to ensure proper operation.



Figure 4: An assortment of Low Profile JCASE fuses of various amperages, illustrating their consistent form factor and indicating key dimensions. This helps in visual identification and understanding the physical size.

4. OPERATION

Fuses are critical safety devices designed to protect electrical circuits from damage caused by overcurrent. When the current flowing through a circuit exceeds the fuse's rated amperage, the metallic element inside the fuse melts, breaking the circuit and preventing damage to more expensive components or wiring.

The Littelfuse 0895030.Z fuse is a single-use device. Once it blows, it must be replaced. It does not reset automatically.

5. MAINTENANCE

Fuses are generally maintenance-free components. They are designed to function reliably until an overcurrent event occurs. Regular maintenance involves:

- **Periodic Inspection:** While not typically required, you can periodically inspect fuses in critical circuits for any signs of physical damage or corrosion, especially if the vehicle operates in harsh environments.
- **Proper Storage:** Store spare fuses in a dry, cool place away from direct sunlight and extreme temperatures to maintain their integrity.

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

6. TROUBLESHOOTING

If an electrical component in your vehicle stops working, a blown fuse is often the cause. Here are common troubleshooting steps:

Symptom: Component Not Working

- **Check the Fuse:** Locate the fuse associated with the non-functioning component in your vehicle's fuse box. Visually inspect the fuse for a broken filament. If the fuse is opaque, you may need a multimeter to check for continuity.
- **Replace the Fuse:** If the fuse is blown, replace it with a new Littelfuse 0895030.Z (30 Amp) or the correct amperage fuse as specified by your vehicle's manufacturer.
- **Identify the Root Cause:** A fuse blows because of an overcurrent. If the new fuse blows immediately or shortly after replacement, there is an underlying electrical issue (e.g., a short circuit, overloaded circuit, or faulty component) that needs to be diagnosed and repaired by a qualified technician. Repeatedly replacing a blowing fuse without addressing the root cause is dangerous and can lead to more severe damage.

Symptom: Fuse Box Corrosion/Damage

- If you notice corrosion or physical damage within the fuse box, it may indicate water intrusion or other environmental factors. This requires professional inspection and repair to ensure the integrity of your vehicle's electrical system.

7. IMPORTANT SAFETY INFORMATION

This product is designed for specific automotive electrical protection. Misuse or incorrect installation can lead to serious hazards, including electrical shock, fire, and damage to property or persons.

- Always ensure the replacement fuse matches the original fuse's amperage, voltage, and type.
- Do not use this fuse in applications exceeding its rated voltage (58V) or current (30A).
- If you are unsure about any aspect of fuse replacement or electrical system diagnosis, consult a qualified automotive technician.

8. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or further inquiries about Littelfuse products, please refer to the official Littelfuse website or contact their customer service department. Specific warranty terms may vary by region and product type.

For general information and support, you may visit the [Littelfuse Official Website](#).

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