

## KLNR/KLSR Class RK1 Fuses

250/600 VAC • Fast Acting • 1 – 600 Amperes



KLNR/KLSR series RK1 fuses were the earliest type of current-limiting fuses developed. Their single-element, silver link design enables them to provide fast-acting overload and short-circuit protection. When used to protect inductive loads such as motors, solenoids, and transformers, KLNR/KLSR series fuses must be greatly oversized to prevent opening the fuses on harmless in-rush currents. In such applications, KLNR/KLSR series fuses may only provide short-circuit protection.

We recommend using POWR-PRO® LLNRK/LLSRK series Class RK1, dual-element, time-delay fuses in all new applications requiring the current-limiting ability of UL Class RK1 fuses. POWR-PRO LLNRK/LLSRK series fuses are also recommended in existing applications where fast-acting RK1 or RK5 fuses have been opening on harmless system surges such as motor starting currents.

### Specifications

|                              |  |
|------------------------------|--|
| <b>Voltage Ratings:</b>      | AC: 250 Volts (KLNR); 600 Volts (KLSR)   |
|                              | DC: 125 Volts (1 – 600A KLNR);<br>250 Volts (1 – 30A KLSR);<br>300 Volts (35 – 600A KLSR). |
| <b>Interrupting Ratings:</b> | AC: 200,000 amperes rms symmetrical  |
|                              | DC: 20,000 amperes   |
| <b>Ampere Range:</b>         | 1 – 600 amperes.   |
| <b>Approvals:</b>            | AC: Standard 248-12, Class RK1   |
|                              | UL Listed (File No: E81895)  |
|                              | CSA Certified (File No: LR29862)   |
|                              | DC: Littelfuse self-certified  |

### Applications

Resistance heaters  
Lighting circuits  
Non-inductive loads  
Molded case circuit breaker load centers and panelboards have increased interrupting ratings when series rated with Littelfuse KLNR/KLSR Class RK1 fuses. Refer to panelboard manufacturer's literature for UL Listed combination of fuses and panelboards. Series ratings up to 200,000 amperes are available.

### Safety

- 200,000 A.I.R. — Reliable interruption of all overcurrents up to 200,000 amperes.
- Extremely current-limiting — Stops damaging short-circuit current faster than any mechanical protective device.
- Fast-acting — Provides fast acting protection to equipment such as variable speed drives, rectifiers and other equipment containing surge-sensitive components.

### Longer Equipment Life

- Current-limiting design reduces damage to equipment caused by heating and magnetic effects of short-circuit currents.

### Economical

- Extremely current-limiting — often permits use of readily available, less costly equipment.
- Used as input or output fuses for surge sensitive components such as variable speed drives and rectifiers, fast acting KLNR/KLSR fuses may prevent opening of expensive semiconductor fuses protecting individual components.

### Easy To Use

- 200,000 A.I.R. rating minimizes need for short-circuit calculations.

### Dimensions

- Refer to FLNR\_ID for KLNR dimensions and FLSR\_ID for KLSR dimensions.

### Ampere Ratings

|   |    |    |     |     |
|---|----|----|-----|-----|
| 1 | 10 | 40 | 100 | 250 |
| 2 | 12 | 45 | 110 | 300 |
| 3 | 15 | 50 | 125 | 350 |
| 4 | 20 | 60 | 150 | 400 |
| 5 | 25 | 70 | 175 | 450 |
| 6 | 30 | 80 | 200 | 500 |
| 8 | 35 | 90 | 225 | 600 |

Example part number (series & amperage): KLNR 200

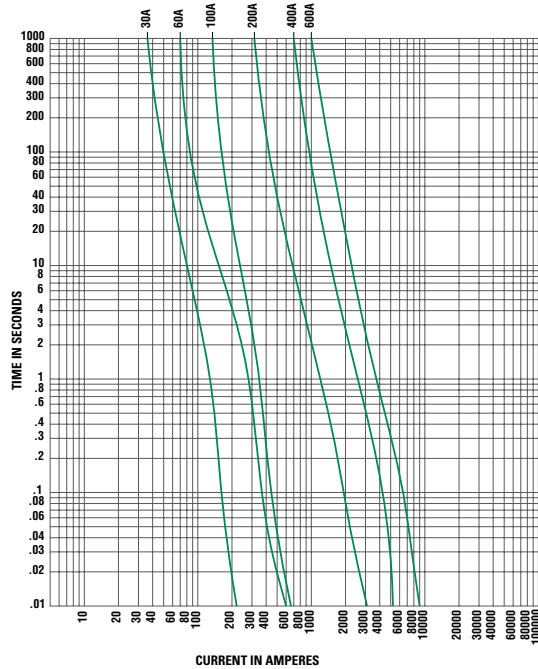
### Recommended Fuse Blocks

LR250 series (for KLNR series fuses)  
LR600 series (for KLSR series fuses)  
Refer to the Blocks & Holders section of this catalog for additional information.

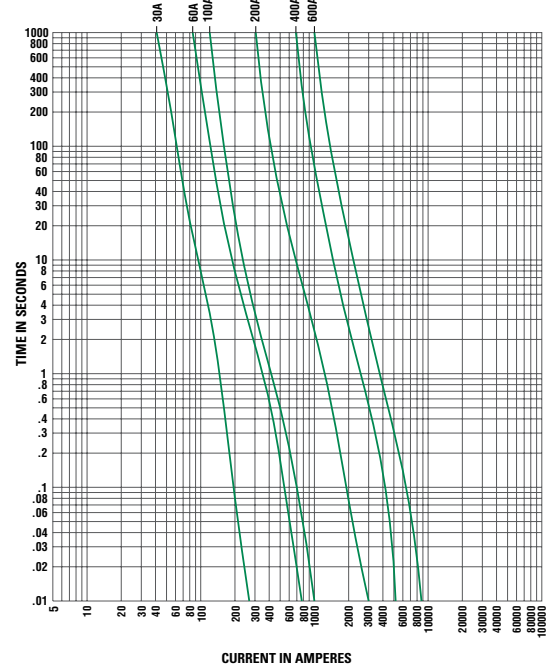
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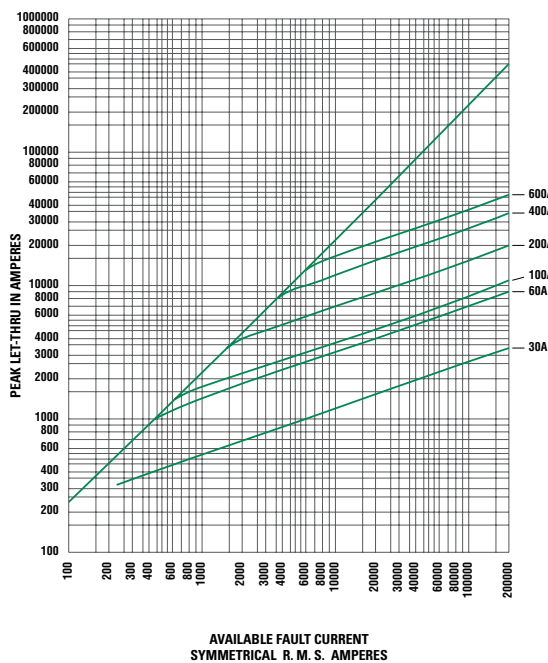
**KLNR**



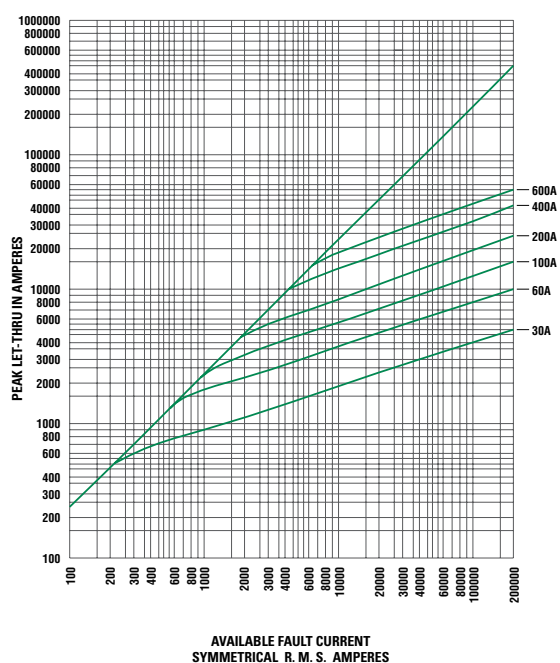
**KLSR**



**KLNR**



**KLSR**



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## Littelfuse:

|                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| <a href="#"><u>KLSR400.X</u></a> | <a href="#"><u>KLSR060.T</u></a> | <a href="#"><u>KLNR080.V</u></a> | <a href="#"><u>KLNR003.T</u></a> | <a href="#"><u>KLNR150.X</u></a> | <a href="#"><u>KLNR015.T</u></a> | <a href="#"><u>KLNR010.T</u></a> | <a href="#"><u>KLSR008.T</u></a> | <a href="#"><u>KLNR070.V</u></a> |
| <a href="#"><u>KLSR100.V</u></a> | <a href="#"><u>KLNR200.X</u></a> | <a href="#"><u>KLSR004.T</u></a> | <a href="#"><u>KLNR045.T</u></a> | <a href="#"><u>KLSR500.X</u></a> | <a href="#"><u>KLSR035.T</u></a> | <a href="#"><u>KLSR125.X</u></a> | <a href="#"><u>KLSR225.X</u></a> | <a href="#"><u>KLSR025.T</u></a> |
| <a href="#"><u>KLSR200.X</u></a> | <a href="#"><u>KLSR600.X</u></a> | <a href="#"><u>KLNR004.T</u></a> | <a href="#"><u>KLSR015.T</u></a> | <a href="#"><u>KLNR600.X</u></a> | <a href="#"><u>KLNR175.X</u></a> | <a href="#"><u>KLNR060.T</u></a> | <a href="#"><u>KLSR045.T</u></a> | <a href="#"><u>KLSR350.X</u></a> |
| <a href="#"><u>KLSR080.V</u></a> | <a href="#"><u>KLNR002.T</u></a> | <a href="#"><u>KLNR350.X</u></a> | <a href="#"><u>KLSR450.X</u></a> | <a href="#"><u>KLSR010.T</u></a> | <a href="#"><u>KLSR070.V</u></a> | <a href="#"><u>KLNR040.T</u></a> | <a href="#"><u>KLNR005.T</u></a> | <a href="#"><u>KLNR030.T</u></a> |
| <a href="#"><u>KLNR025.T</u></a> | <a href="#"><u>KLSR150.X</u></a> | <a href="#"><u>KLSR300.X</u></a> | <a href="#"><u>KLSR020.T</u></a> | <a href="#"><u>KLSR005.T</u></a> | <a href="#"><u>KLSR003.T</u></a> | <a href="#"><u>KLNR090.V</u></a> | <a href="#"><u>KLSR250.X</u></a> | <a href="#"><u>KLNR450.X</u></a> |
| <a href="#"><u>KLSR090.V</u></a> | <a href="#"><u>KLNR020.T</u></a> | <a href="#"><u>KLNR300.X</u></a> | <a href="#"><u>KLSR006.T</u></a> | <a href="#"><u>KLNR400.X</u></a> | <a href="#"><u>KLSR040.T</u></a> | <a href="#"><u>KLSR110.X</u></a> | <a href="#"><u>KLNR001.T</u></a> | <a href="#"><u>KLNR006.T</u></a> |
| <a href="#"><u>KLNR100.V</u></a> | <a href="#"><u>KLSR002.T</u></a> | <a href="#"><u>KLSR050.T</u></a> | <a href="#"><u>KLSR001.T</u></a> | <a href="#"><u>KLNR250.X</u></a> | <a href="#"><u>KLSR030.T</u></a> | <a href="#"><u>KLNR500.X</u></a> | <a href="#"><u>KLNR225.X</u></a> | <a href="#"><u>KLNR125.X</u></a> |
| <a href="#"><u>KLNR035.T</u></a> | <a href="#"><u>KLNR012.T</u></a> | <a href="#"><u>KLNR050.T</u></a> | <a href="#"><u>KLSR175.X</u></a> | <a href="#"><u>KLNR008.T</u></a> | <a href="#"><u>KLNR110.X</u></a> | <a href="#"><u>KLSR012.T</u></a> |                                  |                                  |