

## LLSRK\_ID Series Indicator® POWR-PRO® Class RK1 Fuses

600 VAC • Dual-Element, Time-Delay • 1/10 – 600 Amperes



The all new LLSRK\_ID series fuse is the most advanced Class RK1 fuse available today providing unparalleled performance and protection to modern circuits. The patented Indicator technology provides instant identification of a blown fuse greatly enhancing system up-time, while the precision formed short-circuit elements virtually eliminate damage to components from unexpected electrical faults. In addition, the all new solid-state overload section has no moving parts, stopping unnecessary fatigue failures commonly found in other spring loaded fuses.

### Applications

All general purpose circuits  
Motors  
Transformers  
Solenoids  
Fluorescent lighting  
All system components with high in-rush currents

### Features/Benefits

- Reduce downtime — The indicating window of the LLSRK\_ID immediately identifies the open fuse. If the indicating strip is black, the fuse has opened. It's that simple. Maintenance personnel can immediately determine that there is an open fuse.
- Reduce fuse inventory — The superior performance of the LLSRK\_ID allows it to be used in a variety of applications, thus decreasing fuse inventory.
- Reduce nuisance opening — Indicator fuses offer superior time-delay and cycling characteristics, which can lengthen fuse life.
- Reduce equipment damage — Indicator fuses provide superior overload and short-circuit protection that can reduce equipment damage. The LLSRK\_ID is extremely current-limiting and provides IEC Type 2 "No Damage" protection to IEC and NEMA type motor starters.
- Reduce accidents — The LLSRK\_ID Indicator fuse improves safety by minimizing exposure to live circuits. Unlike other forms of blown fuse indication, once the indicating strip darkens, it stays dark. Other forms of indication require the power to remain on, which causes a potential safety hazard to personnel.

### Ordering Information

For online ordering use part number LSRK.

### Specifications

|                              |                                                                                                                                    |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Voltage Rating:</b>       | 600 VAC/300 VDC                                                                                                                    |
| <b>Interrupting Ratings:</b> | AC: 200,000 amperes rms symmetrical<br>300,000 amperes rms symmetrical<br>(Littelfuse self-certified)                              |
|                              | DC: 20,000 amperes                                                                                                                 |
| <b>Ampere Range:</b>         | 1/10 – 600 amperes                                                                                                                 |
| <b>Approvals:</b>            | AC: Standard 248-12, Class RK1<br>UL Listed (File No: E81895)<br>CSA Certified (File No: LR29862)<br>DC: Littelfuse self-certified |

### Ampere Ratings

|        |        |        |        |    |     |     |
|--------|--------|--------|--------|----|-----|-----|
| 1/10   | 1      | 2 8/10 | 6 1/4  | 25 | 80  | 250 |
| 15/100 | 1 1/8  | 3      | 7      | 30 | 90  | 300 |
| 2 1/10 | 1 1/4  | 3 3/10 | 8      | 35 | 100 | 350 |
| 1/4    | 1 1/2  | 3 1/2  | 9      | 40 | 110 | 400 |
| 3/10   | 1 5/10 | 4      | 10     | 45 | 125 | 450 |
| 4/10   | 1 7/10 | 4 1/2  | 12     | 50 | 150 | 500 |
| 1/2    | 2      | 5      | 15     | 60 | 175 | 600 |
| 6 1/10 | 2 1/4  | 5 5/10 | 17 1/2 | 70 | 200 |     |
| 8 1/10 | 2 1/2  | 6      | 20     | 75 | 225 |     |

Example part number (series & amperage): LLSRK30ID.

*NOTE: All fuses rated 1 amp and above are Indicator fuses.*

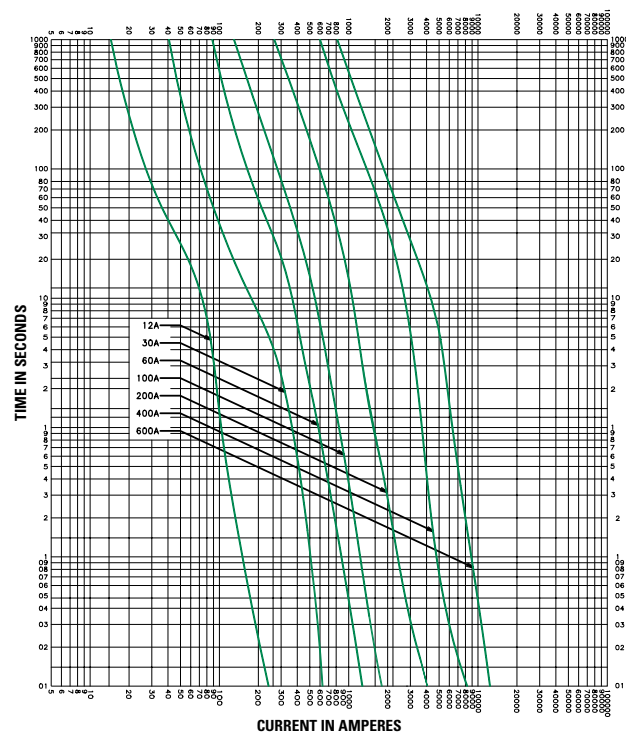
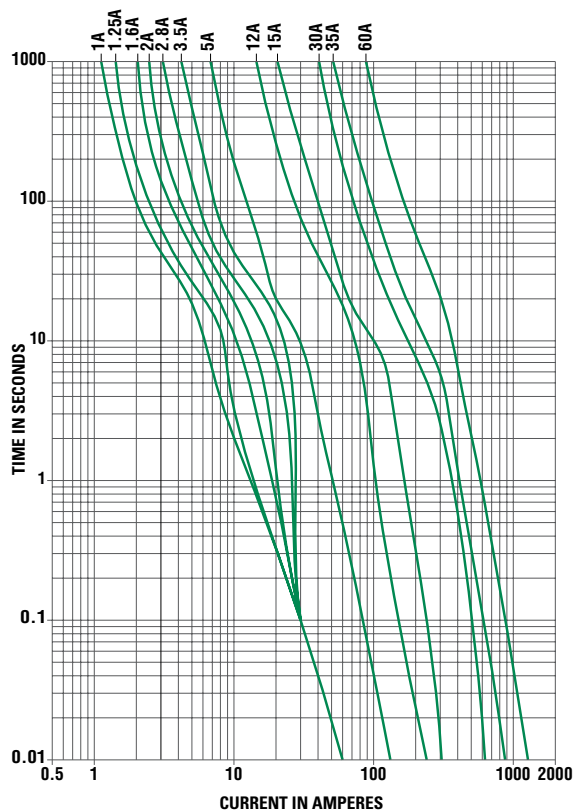
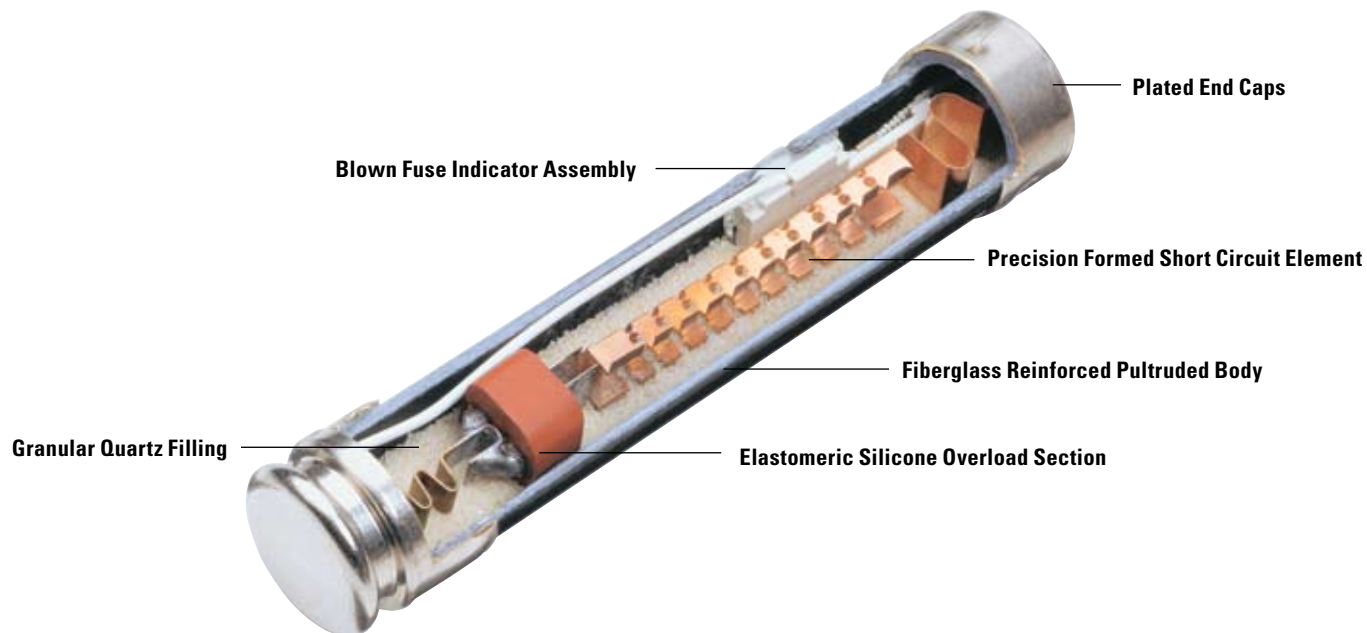
### Recommended Fuse Blocks

LR600 Series

Refer to the Blocks & Holders section of this catalog for additional information.

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Contact Littelfuse for additional fuse curves.

## LLSRK\_ID Series Indicator® POWR-PRO® Class RK1 Fuses

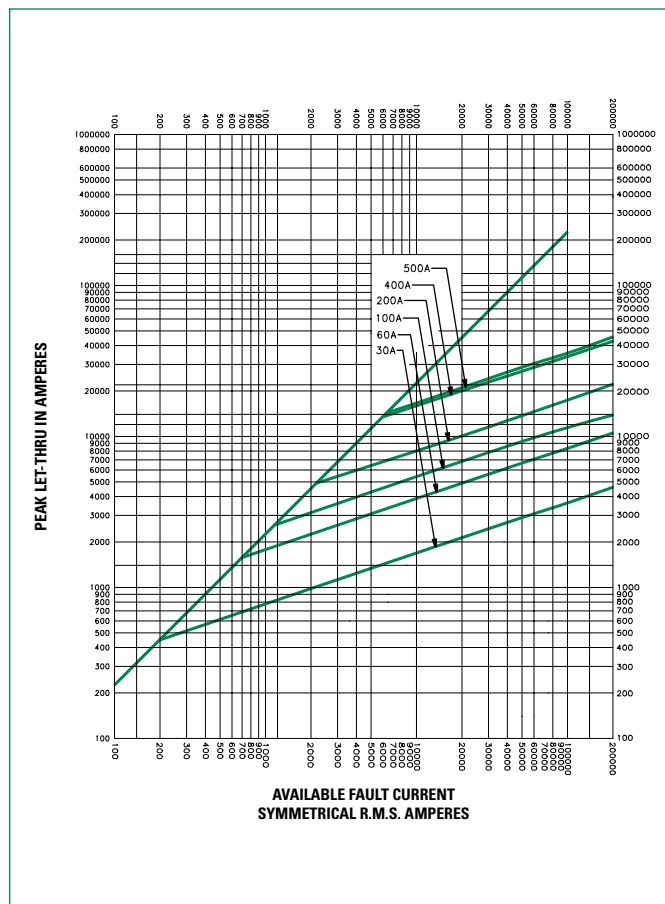
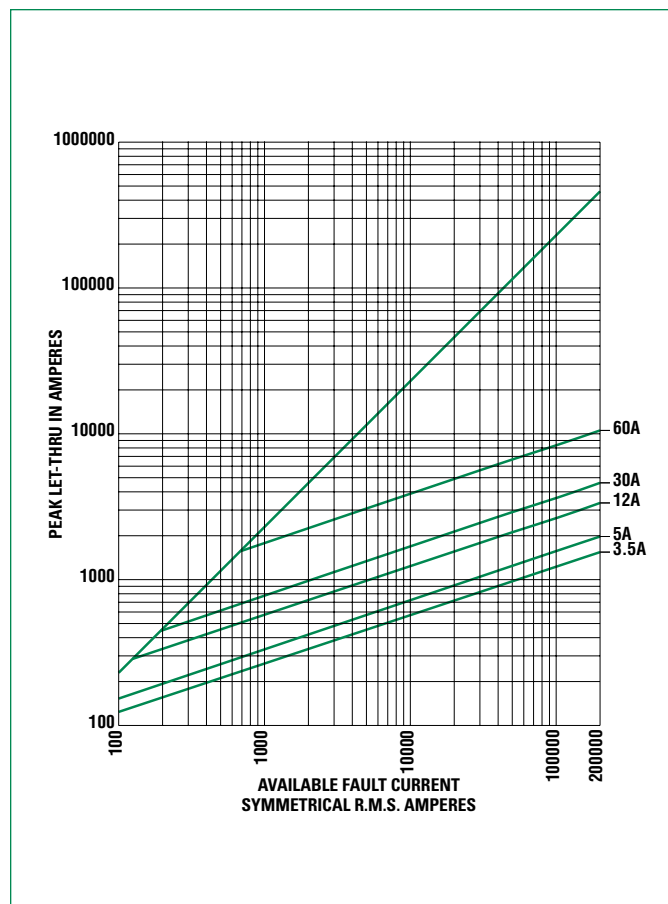
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### Current-Limiting Effects of LLSRK\_ID (600V) Fuses

| Short Circuit Current* | Apparent RMS Symmetrical Current for Various Fuse Ratings |       |       |        |        |        |
|------------------------|-----------------------------------------------------------|-------|-------|--------|--------|--------|
|                        | 30A                                                       | 60A   | 100A  | 200A   | 400A   | 600A   |
| 5,000                  | 1,060                                                     | 1,600 | 2,100 | 2,600  | 4,100  | --     |
| 10,000                 | 1,350                                                     | 2,000 | 2,800 | 3,400  | 5,250  | 8,000  |
| 15,000                 | 1,600                                                     | 2,300 | 3,200 | 3,900  | 6,000  | 9,000  |
| 20,000                 | 1,700                                                     | 2,600 | 3,600 | 4,500  | 6,700  | 10,000 |
| 25,000                 | 1,900                                                     | 2,800 | 3,800 | 4,800  | 7,500  | 11,000 |
| 30,000                 | 2,000                                                     | 3,000 | 4,100 | 5,200  | 8,000  | 12,000 |
| 35,000                 | 2,100                                                     | 3,100 | 4,400 | 5,700  | 8,500  | 12,500 |
| 40,000                 | 2,200                                                     | 3,300 | 4,600 | 6,000  | 9,000  | 13,000 |
| 50,000                 | 2,400                                                     | 3,500 | 4,900 | 6,500  | 9,500  | 14,000 |
| 60,000                 | 2,500                                                     | 3,800 | 5,200 | 7,000  | 10,000 | 15,000 |
| 80,000                 | 2,700                                                     | 4,000 | 5,700 | 7,750  | 11,000 | 17,000 |
| 100,000                | 2,900                                                     | 4,200 | 6,200 | 8,500  | 12,000 | 18,000 |
| 150,000                | 3,200                                                     | 4,600 | 7,300 | 10,000 | 14,000 | 21,000 |
| 200,000                | 3,300                                                     | 4,700 | 8,000 | 11,000 | 16,000 | 23,000 |

\* Prospective RMS Symmetrical Amperes Short-Circuit Current

Note: Data derived from Peak Let-Thru Curves



# Mouser Electronics

Authorized Distributor

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## Littelfuse:

|                                     |                                     |                                     |                                     |                                     |                                     |                                     |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <a href="#"><u>LSRK225.XXID</u></a> | <a href="#"><u>LSRK175.XXID</u></a> | <a href="#"><u>LSRK125.XXID</u></a> | <a href="#"><u>LSRK004.TXID</u></a> | <a href="#"><u>LSRK.500TXID</u></a> | <a href="#"><u>LSRK.100TXID</u></a> | <a href="#"><u>LSRK.300TXID</u></a> |
| <a href="#"><u>LSRK.400TXID</u></a> | <a href="#"><u>LSRK.200TXID</u></a> | <a href="#"><u>LSRK.600TXID</u></a> | <a href="#"><u>LSRK080.VXID</u></a> | <a href="#"><u>LSRK090.VXID</u></a> | <a href="#"><u>LSRK.250TXID</u></a> | <a href="#"><u>LSRK.150TXID</u></a> |
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| <a href="#"><u>LSRK025.TXID</u></a> | <a href="#"><u>LSRK035.TXID</u></a> | <a href="#"><u>LSRK015.TXID</u></a> | <a href="#"><u>LSRK01.4TXID</u></a> | <a href="#"><u>LSRK040.TXID</u></a> | <a href="#"><u>LSRK060.TXID</u></a> | <a href="#"><u>LSRK020.TXID</u></a> |
| <a href="#"><u>LSRK030.TXID</u></a> | <a href="#"><u>LSRK050.TXID</u></a> | <a href="#"><u>LSRK010.TXID</u></a> | <a href="#"><u>LSRK05.6TXID</u></a> | <a href="#"><u>LSRK01.6TXID</u></a> | <a href="#"><u>LSRK002.TXID</u></a> | <a href="#"><u>LSRK012.TXID</u></a> |
| <a href="#"><u>LSRK17.5TXID</u></a> | <a href="#"><u>LSRK07.5TXID</u></a> | <a href="#"><u>LSRK03.5TXID</u></a> | <a href="#"><u>LSRK04.5TXID</u></a> | <a href="#"><u>LSRK02.5TXID</u></a> | <a href="#"><u>LSRK007.TXID</u></a> | <a href="#"><u>LSRK100.VXID</u></a> |
| <a href="#"><u>LSRK070.VXID</u></a> | <a href="#"><u>LSRK003.TXID</u></a> | <a href="#"><u>LSRK006.TXID</u></a> | <a href="#"><u>LSRK001.TXID</u></a> | <a href="#"><u>LSRK009.TXID</u></a> | <a href="#"><u>LSRK1.12TXID</u></a> | <a href="#"><u>LSRK.800TXID</u></a> |
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| <a href="#"><u>LSRK150.XXID</u></a> | <a href="#"><u>LSRK500.XXID</u></a> | <a href="#"><u>LSRK300.XXID</u></a> | <a href="#"><u>LSRK350.XXID</u></a> | <a href="#"><u>LSRK02.8TXID</u></a> | <a href="#"><u>LSRK01.8TXID</u></a> |                                     |