# FLNR_ID/FLSR_ID Indicator® Class RK5 Fuses

## 250/600 VAC • Dual-Element, Time Delay • 1/10 – 600 Amperes

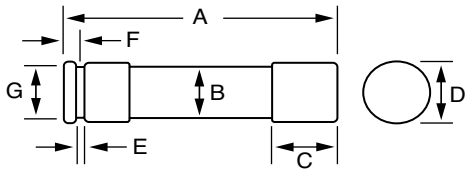



FIG. 1

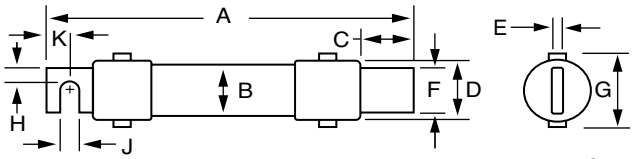
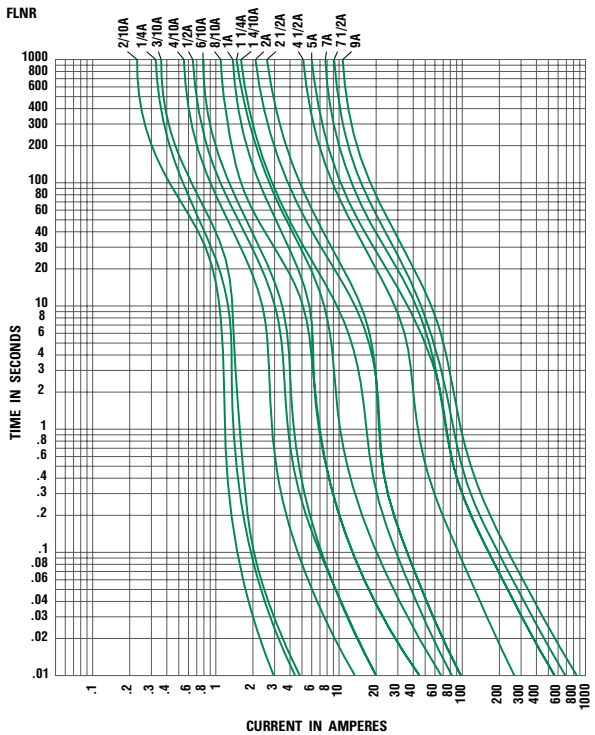


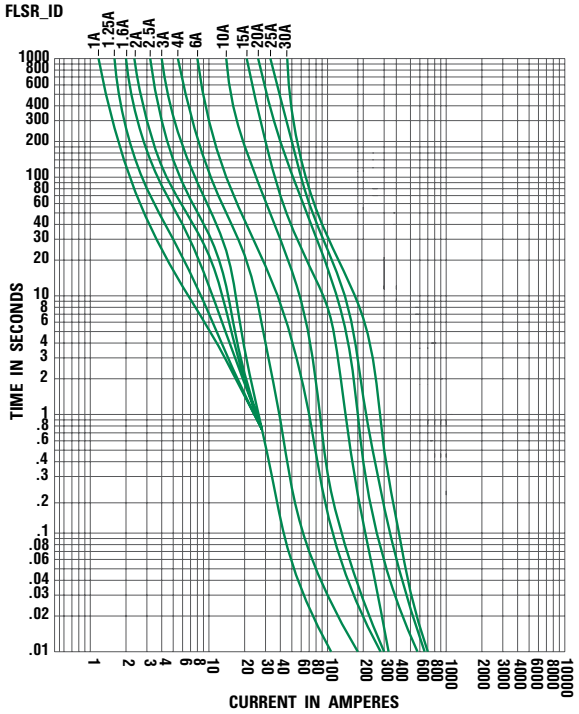

FIG. 2

70-600A

| Amperes | Refer To Fig. No. | Series | Dimensions In Inches (mm in parentheses) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | H | J | K |
| 1/10 – 30 | 1 | FLNR | 2 (50.8) | 1/2 (12.7) | 1/2 (12.7) | 9/16 (14.3) | 5/64 (2.0) | 5/32 (4.0) | 3/8 (9.5) | — | — | — |
| | | FLSR_ID | 5 (127.0) | 3/4 (19.1) | 5/8 (15.9) | 13/16 (20.6) | 3/32 (2.4) | 3/16 (4.8) | 5/8 (15.9) | — | — | — |
| 35 – 60 | 1 | FLNR_ID | 3 (76.2) | 3/4 (19.1) | 5/8 (15.9) | 13/16 (20.6) | 3/32 (2.4) | 3/16 (4.8) | 5/8 (15.9) | — | — | — |
| | | FLSR_ID | 5 1/2 (139.7) | 1 (25.4) | 5/8 (15.9) | 1 1/16 (27.0) | 3/32 (2.4) | 1/4 (6.4) | 7/8 (22.2) | — | — | — |
| 70 – 100 | 2 | FLNR_ID | 5 7/8 (149.2) | 1 (25.4) | 1 1/16 (27.0) | 1 1/16 (27.0) | 1/8 (3.2) | 3/4 (19.1) | 1 1/4 (31.8) | 1/4 (6.4) | 9/32 (7.1) | 1/2 (12.7) |
| | | FLSR_ID | 7 7/8 (200.0) | 1 1/4 (31.8) | 1 1/16 (27.0) | 1 5/16 (33.3) | 1/8 (3.2) | 3/4 (19.1) | 1 1/2 (38.1) | 1/4 (6.4) | 9/32 (7.1) | 1/2 (12.7) |
| 110 – 200 | 2 | FLNR_ID | 7 1/8 (181.0) | 1 1/2 (38.1) | 1 15/32 (37.3) | 1 19/32 (40.5) | 3/16 (4.8) | 1 1/8 (28.6) | 1 27/32 (46.8) | 7/16 (11.1) | 9/32 (7.1) | 11/16 (17.5) |
| | | FLSR_ID | 9 5/8 (244.5) | 1 3/4 (44.5) | 1 15/32 (37.3) | 1 27/32 (46.8) | 3/16 (4.8) | 1 1/8 (28.6) | 2 3/32 (53.2) | 7/16 (11.1) | 9/32 (7.1) | 11/16 (17.5) |
| 225 – 400 | 2 | FLNR_ID | 8 5/8 (219.1) | 2 (50.8) | 1 15/16 (49.2) | 2 3/32 (53.2) | 1/4 (6.4) | 1 5/8 (41.3) | 2 11/32 (59.5) | 5/8 (15.9) | 13/32 (10.3) | 15/16 (23.8) |
| | | FLSR_ID | 11 5/8 (295.3) | 2 1/2 (63.5) | 2 (50.8) | 2 19/32 (65.9) | 1/4 (6.4) | 1 5/8 (41.3) | 2 27/32 (72.2) | 5/8 (15.9) | 13/32 (10.3) | 15/16 (23.8) |
| 450 – 600 | 2 | FLNR_ID | 10 3/8 (263.5) | 2 1/2 (63.5) | 2 3/8 (60.3) | 2 19/32 (65.9) | 1/4 (6.4) | 2 (50.8) | 2 27/32 (72.2) | 3/4 (19.1) | 17/32 (13.5) | 1 1/8 (28.6) |
| | | FLSR_ID | 13 3/8 (339.7) | 3 (76.2) | 2 13/32 (61.1) | 3 3/32 (78.6) | 1/4 (6.4) | 2 (50.8) | 3 11/32 (84.9) | 3/4 (19.1) | 17/32 (13.5) | 1 1/8 (28.6) |

For additional application information request Product Bulletin EL-4



# FLNR_ID/FLSR_ID Indicator® Class RK5 Fuses

**250/600 VAC • Dual-Element, Time Delay • 1/10 – 600 Amperes**


Littelfuse FLNR_ID/FLSR_ID Indicator fuses provide blown fuse indication at a glance. The patented state-of-the-art solid state design provides maximum reliability and superior performance characteristics in a true dual-element design. The use of Indicator fuses reduces downtime and nuisance openings, increases safety, and can save thousands of dollars in lost production time.

## Applications

Service entrance switches
Switchboard main and feeder switches
Motor control center mains and motor branch circuits
Individual fused combination motor controllers
Distribution panelboards
Industrial control panels
Protection of fully rated panelboards and loadcenters
All general purpose circuits

## Features/Benefits

- Reduce Downtime — A glance at the indicating window of a FLNR_ID or FLSR_ID Indicator fuse pinpoints open fuses. If the indicating strip is black, the fuse has opened. It's that simple.
- Reduce Nuisance Opening — FLNR_ID and FLSR_ID Indicator fuses have superior time-delay and cycling characteristics which can lengthen fuse life and decrease needless opening.
- Reduce Fuse Inventory — Because FLNR_ID and FLSR_ID Indicator fuses have superior performance characteristics, they can be used on a variety of applications, thus decreasing fuse inventory.
- Reduce Equipment Damage — FLNR_ID and FLSR_ID Indicator fuses have superior overload and short-circuit protection which can reduce equipment damage.
- Reduce Accidents — The FLNR_ID and FLSR_ID Indicator fuses improve safety by minimizing exposure to live circuits. Unlike other forms of blown fuse indication, it doesn't matter if the power is on or off. No second guessing whether a light means a fuse is good or bad, and no current going across a blown fuse to power a lighted accessory.

## Specifications

| | | |
|---|---|---|
| **Voltage Ratings:** | AC: | 250 Volts (FLNR_ID);<br>600 Volts (FLSR_ID) |
| | DC: | 125 Volts (FLNR 1/10 – 30A);<br>125 Volts (FLNR_ID 35 – 600A);<br>300 Volts (FLSR_ID) |
| **Interrupting Ratings:** | AC: | 200,000 amperes rms symmetrical<br>300,000 amperes rms symmetrical<br>(Littelfuse self-certified) |
| | DC: | 20,000 amperes |
| **Ampere Range:** | | 1/10 – 600 amperes |
| **Approvals:** | | Standard 248-12, Class RK5<br>UL Listed (File No: E81895)<br>CSA Certified (File No: LR29862)<br>MSHA 300 Volt Listing (FLSR_ID)<br>QPL: Federal Specification WF-1814 |

## Ampere Ratings

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

*FLSR_ID only **FLNR only

Example part number (series & amperage): FLSR100ID

*NOTE: For 1/10 – 30 ampere 250 volt fuses, order non-indicating FLNR series fuses.*
*NOTE: All FLNR_ID fuses rated 35 – 600A are Indicator fuses.*
*NOTE: All FLSR_ID fuses rated 1 amp and above are Indicator fuses.*

## Recommended Fuse Blocks

LR250 series (for FLNR_ID series fuses)
LR600 series (for FLSR_ID series fuses)
Refer to Blocks & Holders section of this catalog for additional information.

# FLNR_ID/FLSR_ID Indicator® Class RK5 Fuses

**250/600 VAC • Dual-Element, Time Delay • 1/10 – 600 Amperes**

## Current-Limiting Effects of FLNR_ID (250V) fuses

| Short-Circuit Current* | Apparent RMS Symmetrical Current for Various Fuse Ratings | | | | | |
|---|---|---|---|---|---|---|
| | 30A | 60A | 100A | 200A | 400A | 600A |
| 5,000 | 1,400 | 2,100 | 3,100 | 5,000 | 5,000 | 5,000 |
| 10,000 | 1,550 | 2,500 | 3,900 | 6,500 | 9,500 | 10,000 |
| 15,000 | 2,000 | 3,150 | 4,400 | 7,250 | 10,500 | 14,000 |
| 20,000 | 2,250 | 3,400 | 5,000 | 8,250 | 12,000 | 16,000 |
| 25,000 | 2,400 | 3,750 | 5,250 | 9,000 | 12,500 | 16,500 |
| 30,000 | 2,550 | 4,100 | 5,600 | 9,500 | 13,500 | 18,000 |
| 35,000 | 2,650 | 4,300 | 5,800 | 9,750 | 14,000 | 19,000 |
| 40,000 | 2,800 | 4,400 | 6,250 | 10,250 | 15,000 | 20,000 |
| 50,000 | 3,000 | 5,000 | 6,500 | 10,500 | 16,000 | 21,000 |
| 60,000 | 3,200 | 5,250 | 7,000 | 11,500 | 17,000 | 23,000 |
| 80,000 | 3,400 | 5,750 | 7,500 | 12,500 | 19,000 | 25,500 |
| 100,000 | 3,850 | 6,000 | 8,000 | 13,500 | 21,000 | 27,500 |
| 150,000 | 4,100 | 7,000 | 9,000 | 15,200 | 24,000 | 31,500 |
| 200,000 | 4,300 | 7,500 | 9,750 | 16,500 | 26,000 | 34,000 |

* Prospective RMS Symmetrical Amperes Short-Circuit Current

*Note: Data Derived from Peak Let-Thru Curves*

## Current-Limiting Effects of FLSR_ID (600V) fuses

| Short-Circuit Current* | Apparent RMS Symmetrical Current for Various Fuse Ratings | | | | | |
|---|---|---|---|---|---|---|
| | 30A | 60A | 100A | 200A | 400A | 600A |
| 5,000 | 1,250 | 2,100 | 3,200 | 5,000 | 5,000 | 5,000 |
| 10,000 | 1,600 | 2,850 | 4,300 | 7,250 | 10,000 | 10,000 |
| 15,000 | 1,800 | 3,400 | 5,000 | 8,500 | 13,500 | 15,000 |
| 20,000 | 2,250 | 3,800 | 5,500 | 9,500 | 15,750 | 19,000 |
| 25,000 | 2,450 | 4,100 | 5,700 | 10,250 | 17,000 | 21,000 |
| 30,000 | 2,700 | 4,500 | 6,400 | 10,750 | 18,000 | 23,000 |
| 35,000 | 2,900 | 4,800 | 6,700 | 11,500 | 19,000 | 24,250 |
| 40,000 | 3,000 | 5,000 | 7,250 | 12,000 | 19,500 | 27,000 |
| 50,000 | 3,400 | 5,250 | 7,750 | 13,000 | 21,000 | 29,000 |
| 60,000 | 3,600 | 5,750 | 8,100 | 14,000 | 22,000 | 30,500 |
| 80,000 | 3,900 | 6,250 | 9,000 | 15,000 | 24,000 | 33,000 |
| 100,000 | 4,300 | 6,750 | 9,750 | 16,500 | 26,000 | 35,000 |
| 150,000 | 4,500 | 7,600 | 11,100 | 19,000 | 28,000 | 38,000 |
| 200,000 | 4,600 | 8,400 | 12,250 | 21,500 | 30,000 | 40,000 |

* Prospective RMS Symmetrical Amperes Short-Circuit Current

*Note: Data Derived from Peak Let-Thru Curves*

# FLNR_ID/FLSR_ID Indicator® Class RK5 Fuses

## 250/600 VAC • Dual-Element, Time Delay • 1/10 – 600 Amperes