

# Class RK5 Fuses

## FLNR Series

250 V ac • Dual Element • Time Delay •  $\frac{1}{10}$ –600 A



### Description

The FLNR Series sets the standard for general purpose fuses. The dual-element design provides advanced short-circuit and overload protection. These time-delay fuses are also available in an indicating version, see FLNR\_ID series.

### Features & Benefits

| FEATURES                   | BENEFITS   |
|----------------------------|--|
| <b>Dual-element design</b> | Provides advanced short-circuit and overload protection                |
| <b>Current limiting</b>    | Restricts fault current to provide a high degree of circuit protection |

### Applications

- Service entrance switches
- Transformers
- Switchboard mains and feeders
- Motor control central mains and motor branch circuits
- All general purpose circuits

### Specifications

|                             |   |
|-----------------------------|---|
| <b>Voltage Rating</b>       | Ac: 250 V<br>Dc: 125 V  |
| <b>Ampere Range</b>         | $\frac{1}{10}$ –600 A   |
| <b>Interrupting Ratings</b> | Ac: 200 kA rms symmetrical; 300 kA rms symmetrical (Littelfuse self-certified)<br>Dc: 20 kA |
| <b>Applicable Standards</b> | UL 248-12, Class RK5  |
| <b>Country of Origin</b>    | Mexico  |

### Certification & Compliance

|            |                               |
|------------|-------------------------------|
| <b>UL</b>  | UL Listed (File: E81895)      |
| <b>CSA</b> | CSA Certified (File: LR29862) |

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### Accessories

LFR25 series fuse holder

### Ordering Information

| AMPERE | CATALOG NUMBER | PRODUCT MARKING | PACK QUANTITY | ORDERING NUMBER | UPC         | AGENCY APPROVALS |     |
|--------|----------------|-----------------|---------------|-----------------|-------------|------------------|-----|
|        |                |                 |               |                 |             | UL               | CSA |
| 1/10   | FLNR.100       | FLNR 1/10A      | 10            | FLNR.100T       | 07945815011 | •                | •   |
| 1/8    | FLNR.125       | FLNR 1/8A       | 10            | FLNR.125T       | 07945815012 | •                | •   |
| 15/100 | FLNR.150       | FLNR 15/100A    | 10            | FLNR.150T       | 07945815013 | •                | •   |
| 3/10   | FLNR.200       | FLNR 3/10A      | 10            | FLNR.200T       | 07945815018 | •                | •   |
| 1/4    | FLNR.250       | FLNR 1/4A       | 10            | FLNR.250T       | 07945815019 | •                | •   |
| 3/10   | FLNR.300       | FLNR 3/10A      | 10            | FLNR.300T       | 07945800086 | •                | •   |
| 1/2    | FLNR.400       | FLNR 1/2A       | 10            | FLNR.400T       | 07945815023 | •                | •   |
| 1/2    | FLNR.500       | FLNR 1/2A       | 10            | FLNR.500T       | 07945815024 | •                | •   |
| 3/10   | FLNR.600       | FLNR 3/10A      | 10            | FLNR.600T       | 07945800087 | •                | •   |
| 3/10   | FLNR.800       | FLNR 3/10A      | 10            | FLNR.800T       | 07945800088 | •                | •   |
| 1      | FLNR001        | FLNR 1A         | 10            | FLNR001.T       | 07945815031 | •                | •   |
| 1 1/8  | FLNR1.12       | FLNR 1 1/8A     | 10            | FLNR1.12T       | 07945815032 | •                | •   |
| 1 1/4  | FLNR1.25       | FLNR 1 1/4A     | 10            | FLNR1.25T       | 07945815034 | •                | •   |
| 1 3/10 | FLNR01.4       | FLNR 1 3/10A    | 10            | FLNR01.4T       | 07945815036 | •                | •   |
| 1 1/2  | FLNR01.5       | FLNR 1 1/2A     | 10            | FLNR01.5T       | 07945815037 | •                | •   |
| 1 5/10 | FLNR01.6       | FLNR 1 5/10A    | 10            | FLNR01.6T       | 07945815038 | •                | •   |
| 1 5/10 | FLNR01.8       | FLNR 1 5/10A    | 10            | FLNR01.8T       | 07945815040 | •                | •   |
| 2      | FLNR002        | FLNR 2A         | 10            | FLNR002.T       | 07945815041 | •                | •   |
| 2 1/4  | FLNR2.25       | FLNR 2 1/4A     | 10            | FLNR2.25T       | 07945815042 | •                | •   |
| 2 1/2  | FLNR02.5       | FLNR 2 1/2A     | 10            | FLNR02.5T       | 07945815043 | •                | •   |
| 2 8/10 | FLNR02.8       | FLNR 2 8/10A    | 10            | FLNR02.8T       | 07945815046 | •                | •   |
| 3      | FLNR003        | FLNR 3A         | 10            | FLNR003.T       | 07945815047 | •                | •   |
| 3 3/10 | FLNR03.2       | FLNR 3 3/10A    | 10            | FLNR03.2T       | 07945815049 | •                | •   |
| 3 1/2  | FLNR03.5       | FLNR 3 1/2A     | 10            | FLNR03.5T       | 07945815051 | •                | •   |
| 4      | FLNR004        | FLNR 4A         | 10            | FLNR004.T       | 07945815053 | •                | •   |
| 4 1/2  | FLNR04.5       | FLNR 4 1/2A     | 10            | FLNR04.5T       | 07945815054 | •                | •   |
| 5      | FLNR005        | FLNR 5A         | 10            | FLNR005.T       | 07945815055 | •                | •   |
| 5 5/10 | FLNR05.6       | FLNR 5 5/10A    | 10            | FLNR05.6T       | 07945815056 | •                | •   |
| 6      | FLNR006        | FLNR 6A         | 10            | FLNR006.T       | 07945815058 | •                | •   |
| 6 1/4  | FLNR6.25       | FLNR 6 1/4A     | 10            | FLNR6.25T       | 07945815059 | •                | •   |
| 7      | FLNR007        | FLNR 7A         | 10            | FLNR007.T       | 07945815061 | •                | •   |
| 7 1/2  | FLNR07.5       | FLNR 7 1/2A     | 10            | FLNR07.5T       | 07945815062 | •                | •   |
| 8      | FLNR008        | FLNR 8A         | 10            | FLNR008.T       | 07945815063 | •                | •   |
| 9      | FLNR009        | FLNR 9A         | 10            | FLNR009.T       | 07945815064 | •                | •   |
| 10     | FLNR010        | FLNR 10A        | 10            | FLNR010.T       | 07945815065 | •                | •   |
| 12     | FLNR012        | FLNR 12A        | 10            | FLNR012.T       | 07945815066 | •                | •   |

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|--------|----------------|-----------------|---------------|-----------------|-------------|------------------|-----|
|        |                |                 |               |                 |             | UL               | CSA |
| 15     | FLNR015        | FLNR 15A        | 10            | FLNR015.T       | 07945815068 | •                | •   |
| 17½    | FLNR17.5       | FLNR 17½A       | 10            | FLNR17.5T       | 07945815069 | •                | •   |
| 20     | FLNR020        | FLNR 20A        | 10            | FLNR020.T       | 07945815071 | •                | •   |
| 25     | FLNR025        | FLNR 25A        | 10            | FLNR025.T       | 07945815072 | •                | •   |
| 30     | FLNR030        | FLNR 30A        | 10            | FLNR030.T       | 07945815073 | •                | •   |
| 35     | FLNR035        | FLNR 35A        | 10            | FLNR035.T       | 07945815074 | •                | •   |
| 40     | FLNR040        | FLNR 40A        | 10            | FLNR040.T       | 07945815075 | •                | •   |
| 45     | FLNR045        | FLNR 45A        | 10            | FLNR045.T       | 07945815076 | •                | •   |
| 50     | FLNR050        | FLNR 50A        | 10            | FLNR050.T       | 07945815077 | •                | •   |
| 60     | FLNR060        | FLNR 60A        | 10            | FLNR060.T       | 07945815078 | •                | •   |
| 70     | FLNR070        | FLNR 70A        | 5             | FLNR070.V       | 07945815079 | •                | •   |
| 75     | FLNR075        | FLNR 75A        | 5             | FLNR075.V       | 07945805561 | •                | •   |
| 80     | FLNR080        | FLNR 80A        | 5             | FLNR080.V       | 07945815080 | •                | •   |
| 90     | FLNR090        | FLNR 90A        | 5             | FLNR090.V       | 07945815081 | •                | •   |
| 100    | FLNR100        | FLNR 100A       | 5             | FLNR100.V       | 07945815082 | •                | •   |
| 110    | FLNR110        | FLNR 110A       | 1             | FLNR110.X       | 07945815083 | •                | •   |
| 125    | FLNR125        | FLNR 125A       | 1             | FLNR125.X       | 07945815084 | •                | •   |
| 150    | FLNR150        | FLNR 150A       | 1             | FLNR150.X       | 07945815086 | •                | •   |
| 175    | FLNR175        | FLNR 175A       | 1             | FLNR175.X       | 07945815087 | •                | •   |
| 200    | FLNR200        | FLNR 200A       | 1             | FLNR200.X       | 07945815088 | •                | •   |
| 225    | FLNR225        | FLNR 225A       | 1             | FLNR225.X       | 07945815089 | •                | •   |
| 250    | FLNR250        | FLNR 250A       | 1             | FLNR250.X       | 07945815090 | •                | •   |
| 300    | FLNR300        | FLNR 300A       | 1             | FLNR300.X       | 07945815091 | •                | •   |
| 350    | FLNR350        | FLNR 350A       | 1             | FLNR350.X       | 07945815092 | •                | •   |
| 400    | FLNR400        | FLNR 400A       | 1             | FLNR400.X       | 07945815093 | •                | •   |
| 450    | FLNR450        | FLNR 450A       | 1             | FLNR450.X       | 07945815095 | •                | •   |
| 500    | FLNR500        | FLNR 500A       | 1             | FLNR500.X       | 07945815096 | •                | •   |
| 600    | FLNR600        | FLNR 600A       | 1             | FLNR600.X       | 07945815098 | •                | •   |

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### Dimensions

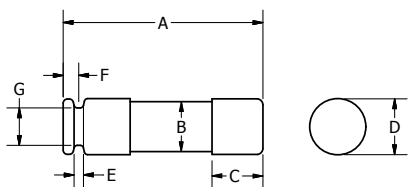


FIG. 1

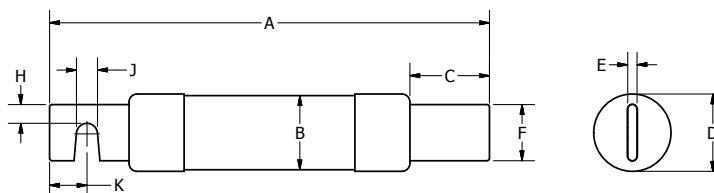


FIG. 2

| AMPS    | FIGURE NUMBER | DIMENSIONS INCHES (MM) |                |                |                |               |                |                |                |                |                |
|---------|---------------|------------------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|
|         |               | A                      | B              | C              | D              | E             | F              | G              | H              | J              | K              |
| 1/10-30 | 1             | 2.00<br>(50.8)         | 0.50<br>(12.7) | 0.50<br>(12.7) | 0.56<br>(14.3) | 0.07<br>(1.8) | 0.16<br>(4.0)  | 0.38<br>(9.5)  | -              | -              | -              |
| 35-60   | 1             | 3.00<br>(76.2)         | 0.76<br>(19.2) | 0.63<br>(15.9) | 0.81<br>(20.7) | 0.09<br>(2.4) | 0.19<br>(4.7)  | 0.63<br>(15.9) | -              | -              | -              |
| 70-100  | 2             | 5.88<br>(149.2)        | 1<br>(25.1)    | 1.06<br>(27.0) | 1.03<br>(26.2) | 0.13<br>(3.2) | 0.75<br>(19.1) | -              | 0.25<br>(6.4)  | 0.28<br>(7.1)  | 0.50<br>(12.7) |
| 110-200 | 2             | 7.13<br>(181)          | 1.50<br>(37.9) | 1.47<br>(37.3) | 1.54<br>(39.0) | 0.19<br>(4.8) | 1.13<br>(28.6) | -              | 0.44<br>(11.1) | 0.28<br>(7.1)  | 0.69<br>(17.5) |
| 225-400 | 2             | 8.63<br>(219.1)        | 2<br>(50.4)    | 1.94<br>(49.2) | 2.00<br>(50.8) | 0.25<br>(6.4) | 1.63<br>(41.3) | -              | 0.63<br>(15.9) | 0.41<br>(10.3) | 0.94<br>(23.8) |
| 450-600 | 2             | 10.38<br>(263.5)       | 2.50<br>(63.1) | 2.38<br>(60.3) | 2.54<br>(64.6) | 0.25<br>(6.4) | 2<br>(50.8)    | -              | 0.75<br>(19.1) | 0.53<br>(13.5) | 1.13<br>(28.6) |

### Current-Limiting Effects of FLNR Fuses

| SHORT CIRCUIT CURRENT* | APPARENT RMS SYMMETRICAL CURRENT FOR VARIOUS FUSE RATINGS |       |       |        |        |        |
|------------------------|---|-------|-------|--------|--------|--------|
|                        | 30 A  | 60 A  | 100 A | 200 A  | 400 A  | 600 A  |
| 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

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