

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.

Also available in indicating version, see FLNR_ID series.

Features & Benefits

| FEATURES | BENEFITS |
|----------------------------|--------------------------------------------------------------------------|
| Dual-element design | Provides advanced short circuit and overload protection |
| Current limiting | Restricts fault currents 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

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

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Certification & Compliance

| | |
|------------|-------------------------------|
| UL | UL Listed (File: E81895) |
| CSA | CSA Certified (File: LR29862) |

Accessories

LFR25 series fuse holder

Ordering Information

| AMPERE RATING | CATALOG NUMBER | PRODUCT MARKING | PACKING QUANTITY | ORDERING NUMBER | UPC CODE |
|---------------|----------------|-----------------|------------------|-----------------|-------------|
| 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 |
| 4/10 | FLNR.400 | FLNR 4/10A | 10 | FLNR.400T | 07945815023 |
| 1/2 | FLNR.500 | FLNR 1/2A | 10 | FLNR.500T | 07945815024 |
| 6/10 | FLNR.600 | FLNR 6/10A | 10 | FLNR.600T | 07945800087 |
| 8/10 | FLNR.800 | FLNR 8/10A | 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 1/10 | FLNR01.4 | FLNR 1 1/10A | 10 | FLNR01.4T | 07945815036 |
| 1 1/2 | FLNR01.5 | FLNR 1 1/2A | 10 | FLNR01.5T | 07945815037 |
| 1 3/10 | FLNR01.6 | FLNR 1 3/10A | 10 | FLNR01.6T | 07945815038 |
| 1 8/10 | FLNR01.8 | FLNR 1 8/10A | 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 |

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Ordering Information (cont.)

| AMPERE RATING | CATALOG NUMBER | PRODUCT MARKING | PACKING QUANTITY | ORDERING NUMBER | UPC CODE |
|---------------|----------------|-----------------|------------------|-----------------|-------------|
| 7½ | FLNR07.5 | FLNR 7½A | 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 |
| 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 |

Class RK5 Fuses FLNR Series

Dimensions

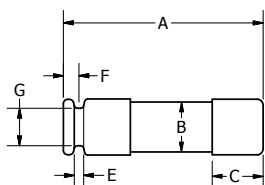


FIG. 1

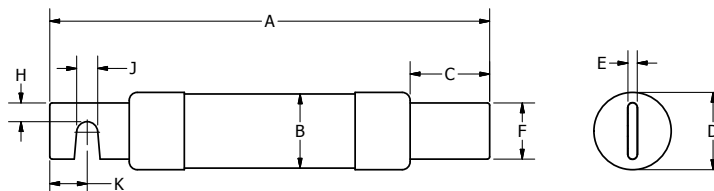


FIG. 2

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