

Class RK5 Fuses

FLSR_ID Series

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



Description

Littelfuse FLSR_ID Indicator™ fuses provide visual 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 down-time, nuisance opening, increases safety, and can save thousands of dollars in lost production time. The FLSR_ID series fuses provide excellent protection for all types of circuits especially those containing motors.

Also available in non-indicating version, see FLSR series.

Features & Benefits

FEATURES	BENEFITS
Excellent short-circuit protection	Improve safety through faster response to fault currents
Dual-element design	Provides advanced short circuit and overload protection
Current limiting	Restricts fault currents to provide a high degree of circuit protection.
Visual Blown Fuse Indication	Indication window turns black allowing fast and easy identification of the fuse that needs replacement.

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: 600 V Dc: 300 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

LFR60 series fuse holder

Ordering Information

AMPERE RATING	CATALOG NUMBER	PRODUCT MARKING	PACKING QUANTITY	ORDERING NUMBER	UPC CODE
$\frac{1}{10}$	FLSR.100ID	FLSR $\frac{1}{10}$ ID	10	FLSR.100TXID	07945802501
$\frac{15}{100}$	FLSR.150ID	FLSR $\frac{15}{100}$ ID	10	FLSR.150TXID	07945802502
$\frac{3}{10}$	FLSR.200ID	FLSR $\frac{3}{10}$ ID	10	FLSR.200TXID	07945802503
$\frac{1}{4}$	FLSR.250ID	FLSR $\frac{1}{4}$ ID	10	FLSR.250TXID	07945802504
$\frac{3}{10}$	FLSR.300ID	FLSR $\frac{3}{10}$ ID	10	FLSR.300TXID	07945802505
$\frac{4}{10}$	FLSR.400ID	FLSR $\frac{4}{10}$ ID	10	FLSR.400TXID	07945802506
$\frac{1}{2}$	FLSR.500ID	FLSR $\frac{1}{2}$ ID	10	FLSR.500TXID	07945802507
$\frac{6}{10}$	FLSR.600ID	FLSR $\frac{6}{10}$ ID	10	FLSR.600TXID	07945802508
$\frac{8}{10}$	FLSR.800ID	FLSR $\frac{8}{10}$ ID	10	FLSR.800TXID	07945802509
1	FLSR001ID	FLSR 1ID	10	FLSR001.TXID	07945802510
$1\frac{1}{8}$	FLSR1.12ID	FLSR $1\frac{1}{8}$ ID	10	FLSR1.12TXID	07945802511
$1\frac{1}{4}$	FLSR1.25ID	FLSR $1\frac{1}{4}$ ID	10	FLSR1.25TXID	07945802512
$1\frac{1}{10}$	FLSR01.4ID	FLSR $1\frac{1}{10}$ ID	10	FLSR01.4TXID	07945802513
$1\frac{1}{2}$	FLSR01.5ID	FLSR $1\frac{1}{2}$ ID	10	FLSR01.5TXID	07945802514
$1\frac{6}{10}$	FLSR01.6ID	FLSR $1\frac{6}{10}$ ID	10	FLSR01.6TXID	07945802515
$1\frac{8}{10}$	FLSR01.8ID	FLSR $1\frac{8}{10}$ ID	10	FLSR01.8TXID	07945802516
2	FLSR002ID	FLSR 2ID	10	FLSR002.TXID	07945802517
$2\frac{1}{4}$	FLSR2.25ID	FLSR $2\frac{1}{4}$ ID	10	FLSR2.25TXID	07945802518
$2\frac{1}{2}$	FLSR02.5ID	FLSR $2\frac{1}{2}$ ID	10	FLSR02.5TXID	07945802519
$2\frac{9}{10}$	FLSR02.8ID	FLSR $2\frac{9}{10}$ ID	10	FLSR02.8TXID	07945802520
3	FLSR003ID	FLSR 3ID	10	FLSR003.TXID	07945802521
$3\frac{3}{10}$	FLSR03.2ID	FLSR $3\frac{3}{10}$ ID	10	FLSR03.2TXID	07945802522
$3\frac{1}{2}$	FLSR03.5ID	FLSR $3\frac{1}{2}$ ID	10	FLSR03.5TXID	07945802523
4	FLSR004ID	FLSR 4ID	10	FLSR004.TXID	07945802524
$4\frac{1}{2}$	FLSR04.5ID	FLSR $4\frac{1}{2}$ ID	10	FLSR04.5TXID	07945802525
5	FLSR005ID	FLSR 5ID	10	FLSR005.TXID	07945802526
$5\frac{5}{10}$	FLSR05.6ID	FLSR $5\frac{5}{10}$ ID	10	FLSR05.6TXID	07945802527
6	FLSR006ID	FLSR 6ID	10	FLSR006.TXID	07945802528
$6\frac{1}{4}$	FLSR6.25ID	FLSR $6\frac{1}{4}$ ID	10	FLSR6.25TXID	07945802529
7	FLSR007ID	FLSR 7ID	10	FLSR007.TXID	07945802530
$7\frac{1}{2}$	FLSR07.5ID	FLSR $7\frac{1}{2}$ ID	10	FLSR07.5TXID	07945802531

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Ordering Information (cont.)

AMPERE RATING	CATALOG NUMBER	PRODUCT MARKING	PACKING QUANTITY	ORDERING NUMBER	UPC CODE
8	FLSR008ID	FLSR 8ID	10	FLSR008.TXID	07945802532
9	FLSR009ID	FLSR 9ID	10	FLSR009.TXID	07945802533
10	FLSR010ID	FLSR 10ID	10	FLSR010.TXID	07945802534
12	FLSR012ID	FLSR 12ID	10	FLSR012.TXID	07945802535
15	FLSR015ID	FLSR 15ID	10	FLSR015.TXID	07945802536
17½	FLSR17.5ID	FLSR 17½ID	10	FLSR17.5TXID	07945802537
20	FLSR020ID	FLSR 20ID	10	FLSR020.TXID	07945802538
25	FLSR025ID	FLSR 25ID	10	FLSR025.TXID	07945802539
30	FLSR030ID	FLSR 30ID	10	FLSR030.TXID	07945802540
35	FLSR035ID	FLSR 35ID	10	FLSR035.TXID	07945802541
40	FLSR040ID	FLSR 40ID	10	FLSR040.TXID	07945802542
45	FLSR045ID	FLSR 45ID	10	FLSR045.TXID	07945802543
50	FLSR050ID	FLSR 50ID	10	FLSR050.TXID	07945802544
60	FLSR060ID	FLSR 60ID	10	FLSR060.TXID	07945802545
70	FLSR070ID	FLSR 70ID	5	FLSR070.VXID	07945802546
75	FLSR075ID	FLSR 75ID	5	FLSR075.VXID	07945802547
80	FLSR080ID	FLSR 80ID	5	FLSR080.VXID	07945802548
90	FLSR090ID	FLSR 90ID	5	FLSR090.VXID	07945802549
100	FLSR100ID	FLSR 100ID	5	FLSR100.VXID	07945802550
110	FLSR110ID	FLSR 110ID	1	FLSR110.XXID	07945802551
125	FLSR125ID	FLSR 125ID	1	FLSR125.XXID	07945802552
150	FLSR150ID	FLSR 150ID	1	FLSR150.XXID	07945802553
175	FLSR175ID	FLSR 175ID	1	FLSR175.XXID	07945802554
200	FLSR200ID	FLSR 200ID	1	FLSR200.XXID	07945802555
225	FLSR225ID	FLSR 225ID	1	FLSR225.XXID	07945802556
250	FLSR250ID	FLSR 250ID	1	FLSR250.XXID	07945802557
300	FLSR300ID	FLSR 300ID	1	FLSR300.XXID	07945802558
350	FLSR350ID	FLSR 350ID	1	FLSR350.XXID	07945802559
400	FLSR400ID	FLSR 400ID	1	FLSR400.XXID	07945802560
450	FLSR450ID	FLSR 450ID	1	FLSR450.XXID	07945802561
500	FLSR500ID	FLSR 500ID	1	FLSR500.XXID	07945802562
600	FLSR600ID	FLSR 600ID	1	FLSR600.XXID	07945802563

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Dimensions

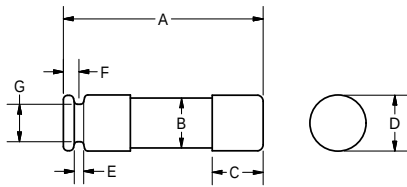


FIG. 1

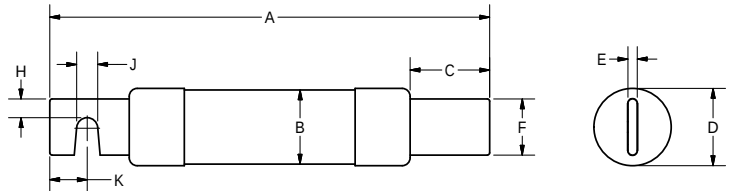


FIG. 2

AMPS	FIGURE NUMBER	DIMENSIONS INCHES (MM)									
		A	B	C	D	E	F	G	H	J	K
1/10-30	1	5 (127.0)	0.76 (19.2)	0.63 (15.9)	0.81 (20.7)	0.09 (2.4)	0.19 (4.7)	0.61 (15.5)	-	-	-
35-60	1	5.50 (139.7)	1 (25.1)	0.63 (15.9)	1.06 (27.0)	0.09 (2.4)	0.25 (6.4)	0.88 (22.2)	-	-	-
70-100	2	7.88 (200.0)	1.24 (31.5)	1.06 (27.0)	1.28 (32.6)	0.13 (3.2)	0.75 (19.1)	-	0.25 (6.4)	0.28 (7.1)	0.50 (12.7)
110-200	2	9.63 (244.5)	1.74 (44.2)	1.47 (37.3)	1.79 (45.4)	0.19 (4.8)	1.13 (28.6)	-	0.44 (11.1)	0.28 (7.1)	0.69 (17.5)
225-400	2	11.63 (295.3)	2.50 (63.1)	2 (50.8)	2.54 (64.6)	0.25 (6.4)	1.63 (41.3)	-	0.63 (15.9)	0.41 (10.3)	0.95 (24.0)
450-600	2	13.38 (339.7)	3 (76.0)	2.41 (61.1)	3.04 (77.3)	0.25 (6.5)	2 (50.8)	-	0.75 (19.1)	0.53 (13.5)	1.13 (28.6)

Current-Limiting Effects of FLSR_ID 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	1,250	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

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