Class RK5 Fuses
FLSR Series

600 V ac • Dual Element • Time Delay • 1/10–600 A

Description

Littelfuse FLSR series fuses have been the superior UL Class RK5 dual-element time-delay fuses, and are the most widely used class of fuses. FLSR series fuses provide excellent protection for all types of circuits especially those containing motors.

Also available in indicating version, see FLSR_ID 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.

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	1/10–600 A
Applicable Standards	UL 248-12, Class RK5

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Class RK5 Fuses
FLSR Series

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
1/10	FLSR.100	FLSR 1/10A	10	FLSR.100T	07945817011
15/100	FLSR.150	FLSR 15/100A	10	FLSR.150T	07945817013
2/10	FLSR.200	FLSR 2/10A	10	FLSR.200T	07945817018
1/4	FLSR.250	FLSR 1/4A	10	FLSR.250T	07945817019
3/10	FLSR.300	FLSR 3/10A	10	FLSR.300T	07945800092
4/10	FLSR.400	FLSR 4/10A	10	FLSR.400T	07945817023
1/2	FLSR.500	FLSR 1/2A	10	FLSR.500T	07945817024
6/10	FLSR.600	FLSR 6/10A	10	FLSR.600T	07945800093
8/10	FLSR.800	FLSR 8/10A	10	FLSR.800T	07945800094
1	FLSR001	FLSR 1A	10	FLSR001.T	07945817031
1 1/8	FLSR1.12	FLSR 1 1/8A	10	FLSR1.12T	07945817032
1 1/4	FLSR1.25	FLSR 1 1/4A	10	FLSR1.25T	07945817034
1 4/10	FLSR01.4	FLSR 1 4/10A	10	FLSR01.4T	07945817036
1 1/2	FLSR01.5	FLSR 1 1/2A	10	FLSR01.5T	07945817037
1 6/10	FLSR01.6	FLSR 1 6/10A	10	FLSR01.6T	07945817038
1 8/10	FLSR01.8	FLSR 1 8/10A	10	FLSR01.8T	07945817040
2	FLSR002	FLSR 2A	10	FLSR002.T	07945817041
2 1/4	FLSR2.25	FLSR 2 1/4A	10	FLSR2.25T	07945817042
2 1/2	FLSR02.5	FLSR 2 1/2A	10	FLSR02.5T	07945817043
2 8/10	FLSR02.8	FLSR 2 8/10A	10	FLSR02.8T	07945817046
3	FLSR003	FLSR 3A	10	FLSR003.T	07945817047
3 2/10	FLSR03.2	FLSR 3 2/10A	10	FLSR03.2T	07945817049
3 1/2	FLSR03.5	FLSR 3 1/2A	10	FLSR03.5T	07945817051
4	FLSR004	FLSR 4A	10	FLSR004.T	07945817053
4 1/2	FLSR04.5	FLSR 4 1/2A	10	FLSR04.5T	07945817054
5	FLSR005	FLSR 5A	10	FLSR005.T	07945817055
5 6/10	FLSR05.6	FLSR 5 6/10A	10	FLSR05.6T	07945817056
6	FLSR006	FLSR 6A	10	FLSR006.T	07945817058
6 1/4	FLSR6.25	FLSR 6 1/4A	10	FLSR6.25T	07945817059
7	FLSR007	FLSR 7A	10	FLSR007.T	07945817061
7 1/2	FLSR07.5	FLSR 7 1/2A	10	FLSR07.5T	07945817062

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Ordering Information (cont.)

AMPERE RATING	CATALOG NUMBER	PRODUCT MARKING	PACKING QUANTITY	ORDERING NUMBER	UPC CODE
8	FLSR008	FLSR 8A	10	FLSR008.T	07945817063
9	FLSR009	FLSR 9A	10	FLSR009.T	07945817064
10	FLSR010	FLSR 10A	10	FLSR010.T	07945817065
12	FLSR012	FLSR 12A	10	FLSR012.T	07945817066
15	FLSR015	FLSR 15A	10	FLSR015.T	07945817068
17½	FLSR17.5	FLSR 17½A	10	FLSR17.5T	07945817069
20	FLSR020	FLSR 20A	10	FLSR020.T	07945817071
25	FLSR025	FLSR 25A	10	FLSR025.T	07945817072
30	FLSR030	FLSR 30A	10	FLSR030.T	07945817073
35	FLSR035	FLSR 35A	10	FLSR035.T	07945817074
40	FLSR040	FLSR 40A	10	FLSR040.T	07945817075
45	FLSR045	FLSR 45A	10	FLSR045.T	07945817076
50	FLSR050	FLSR 50A	10	FLSR050.T	07945817077
60	FLSR060	FLSR 60A	10	FLSR060.T	07945817078
70	FLSR070	FLSR 70A	5	FLSR070.V	07945817079
75	FLSR075	FLSR 75A	5	FLSR075.V	07945800217
80	FLSR080	FLSR 80A	5	FLSR080.V	07945817080
90	FLSR090	FLSR 90A	5	FLSR090.V	07945817081
100	FLSR100	FLSR 100A	5	FLSR100.V	07945817082
110	FLSR110	FLSR 110A	1	FLSR110.X	07945817083
125	FLSR125	FLSR 125A	1	FLSR125.X	07945817084
150	FLSR150	FLSR 150A	1	FLSR150.X	07945817086
175	FLSR175	FLSR 175A	1	FLSR175.X	07945817087
200	FLSR200	FLSR 200A	1	FLSR200.X	07945817088
225	FLSR225	FLSR 225A	1	FLSR225.X	07945817089
250	FLSR250	FLSR 250A	1	FLSR250.X	07945817090
300	FLSR300	FLSR 300A	1	FLSR300.X	07945817091
350	FLSR350	FLSR 350A	1	FLSR350.X	07945817092
400	FLSR400	FLSR 400A	1	FLSR400.X	07945817093
450	FLSR450	FLSR 450A	1	FLSR450.X	07945817095
500	FLSR500	FLSR 500A	1	FLSR500.X	07945817096
600	FLSR600	FLSR 600A	1	FLSR600.X	07945817098

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Dimensions

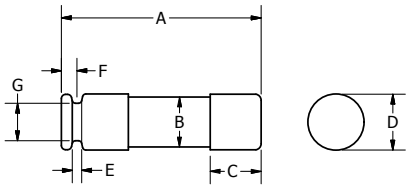

FIG. 1

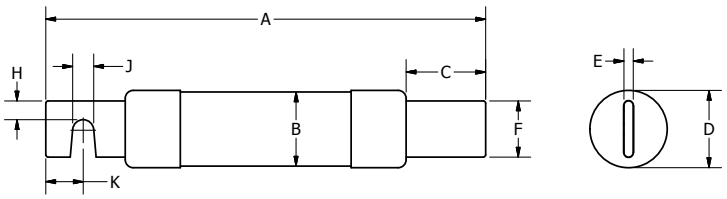

FIG. 2

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 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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