

Class RK5 Fuses

IDSR Series

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



Description

The time-delay, dual-element IDSR series fuses combine a 600 V dc capability with indication to provide an ideal solution for many dc applications. These fuses offer a patented, state-of-the-art, solid-state design with maximum reliability and superior performance characteristics.

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 a blown fuse

Applications

- Dc circuits
- Solar inverters
- Motors
- Transformers and solenoids
- Fluorescent lighting

Specifications

Voltage Rating	Ac: 600 V Dc: 600 V
Ampere Range	1–600 A
Interrupting Ratings	Ac: 200 kA rms symmetrical; 300 kA rms symmetrical (Littelfuse self-certified) Dc: 20 kA
Applicable Standards	UL 248-12, Class RK5
Country of Origin	Mexico

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Certification & Compliance

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

Accessories

LFR60 series fuse holder

Ordering Information

AMPERE	CATALOG NUMBER	PRODUCT MARKING	PACK QUANTITY	ORDERING NUMBER	UPC	AGENCY APPROVALS	
						UL	CSA
1	IDSR001	IDSR 1	10	IDSR001.T	07945801532	•	•
1 $\frac{1}{8}$	IDSR1.12	IDSR 1 $\frac{1}{8}$	10	IDSR1.12T	07945801533	•	•
1 $\frac{1}{4}$	IDSR1.25	IDSR 1 $\frac{1}{4}$	10	IDSR1.25T	07945801534	•	•
1 $\frac{1}{2}$	IDSR01.4	IDSR 1 $\frac{1}{2}$	10	IDSR01.4T	07945801535	•	•
1 $\frac{3}{4}$	IDSR01.5	IDSR 1 $\frac{3}{4}$	10	IDSR01.5T	07945801536	•	•
2	IDSR01.6	IDSR 2	10	IDSR01.6T	07945801537	•	•
2 $\frac{1}{2}$	IDSR01.8	IDSR 2 $\frac{1}{2}$	10	IDSR01.8T	07945801538	•	•
3	IDSR002	IDSR 3	10	IDSR002.T	07945801539	•	•
3 $\frac{1}{2}$	IDSR2.25	IDSR 3 $\frac{1}{2}$	10	IDSR2.25T	07945801540	•	•
4	IDSR02.5	IDSR 4	10	IDSR02.5T	07945801541	•	•
5	IDSR02.8	IDSR 5	10	IDSR02.8T	07945801542	•	•
6	IDSR03	IDSR 6	10	IDSR03.T	07945801543	•	•
7	IDSR03.2	IDSR 7	10	IDSR03.2T	07945801544	•	•
8	IDSR03.5	IDSR 8	10	IDSR03.5T	07945801545	•	•
9	IDSR004	IDSR 9	10	IDSR004.T	07945801546	•	•
10	IDSR04.5	IDSR 10	10	IDSR04.5T	07945801547	•	•
12	IDSR005	IDSR 12	10	IDSR005.T	07945801548	•	•
15	IDSR05.6	IDSR 15	10	IDSR05.6T	07945801549	•	•
17 $\frac{1}{2}$	IDSR006	IDSR 17 $\frac{1}{2}$	10	IDSR006.T	07945801550	•	•
20	IDSR6.25	IDSR 20	10	IDSR6.25T	07945801551	•	•
25	IDSR007	IDSR 25	10	IDSR007.T	07945801552	•	•
30	IDSR07.5	IDSR 30	10	IDSR07.5T	07945801553	•	•
35	IDSR008	IDSR 35	10	IDSR008.T	07945801554	•	•
40	IDSR009	IDSR 40	10	IDSR009.T	07945801555	•	•
45	IDSR010	IDSR 45	10	IDSR010.T	07945801556	•	•
50	IDSR012	IDSR 50	10	IDSR012.T	07945801557	•	•
60	IDSR015	IDSR 60	10	IDSR015.T	07945801558	•	•
75	IDSR17.5	IDSR 75	10	IDSR17.5T	07945801559	•	•

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AMPERE	CATALOG NUMBER	PRODUCT MARKING	PACK QUANTITY	ORDERING NUMBER	UPC	AGENCY APPROVALS	
						UL	CSA
20	IDSR020	IDSR 20	10	IDSR020.T	07945801560	•	•
25	IDSR025	IDSR 25	10	IDSR025.T	07945801561	•	•
30	IDSR030	IDSR 30	10	IDSR030.T	07945801562	•	•
35	IDSR035	IDSR 35	10	IDSR035.T	07945801563	•	•
40	IDSR040	IDSR 40	10	IDSR040.T	07945801564	•	•
45	IDSR045	IDSR 45	10	IDSR045.T	07945801565	•	•
50	IDSR050	IDSR 50	10	IDSR050.T	07945801566	•	•
60	IDSR060	IDSR 60	10	IDSR060.T	07945801567	•	•
70	IDSR070	IDSR 70	5	IDSR070.V	07945801568	•	•
75	IDSR075	IDSR 75	5	IDSR075.V	07945801569	•	•
80	IDSR080	IDSR 80	5	IDSR080.V	07945801570	•	•
90	IDSR090	IDSR 90	5	IDSR090.V	07945801571	•	•
100	IDSR100	IDSR 100	5	IDSR100.V	07945801572	•	•
110	IDSR110	IDSR 110	1	IDSR110.X	07945801573	•	•
125	IDSR125	IDSR 125	1	IDSR125.X	07945801574	•	•
150	IDSR150	IDSR 150	1	IDSR150.X	07945801575	•	•
175	IDSR175	IDSR 175	1	IDSR175.X	07945801576	•	•
200	IDSR200	IDSR 200	1	IDSR200.X	07945801577	•	•
225	IDSR225	IDSR 225	1	IDSR225.X	07945801578	•	•
250	IDSR250	IDSR 250	1	IDSR250.X	07945801579	•	•
300	IDSR300	IDSR 300	1	IDSR300.X	07945801580	•	•
350	IDSR350	IDSR 350	1	IDSR350.X	07945801581	•	•
400	IDSR400	IDSR 400	1	IDSR400.X	07945801582	•	•
450	IDSR450	IDSR 450	1	IDSR450.X	07945801583	•	•
500	IDSR500	IDSR 500	1	IDSR500.X	07945801584	•	•
600	IDSR600	IDSR 600	1	IDSR600.X	07945801585	•	•

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Dimensions

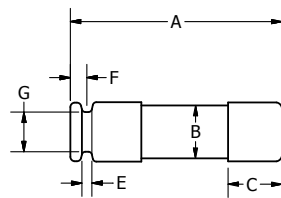


FIG. 1

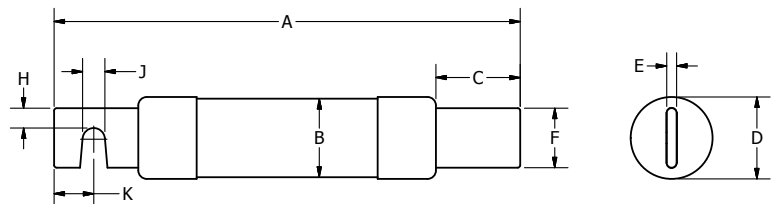


FIG. 2

AMPS	FIGURE NUMBER	DIMENSIONS INCHES (MM)									
		A	B	C	D	E	F	G	H	J	K
1–30	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 (6.4)	2 (50.8)	-	0.75 (19.1)	0.53 (13.5)	1.13 (28.6)

Current-Limiting Effects of IDSR Fuses

SHORT CIRCUIT CURRENT*	APPARENT RMS SYMMETRICAL CURRENT FOR VARIOUS FUSE RATINGS						
	15 A	30 A	60 A	100 A	200 A	400 A	600 A
5,000	800	1,100	2,100	3,200	5,000	5,000	5,000
10,000	1,100	1,600	2,900	4,300	7,300	10,000	10,000
15,000	1,300	1,900	3,400	5,000	8,600	13,700	15,000
20,000	1,400	2,200	3,800	5,600	9,500	15,500	19,000
25,000	1,500	2,500	4,100	6,100	10,300	16,700	21,500
30,000	1,600	2,700	4,500	6,500	11,000	17,700	23,500
35,000	1,700	2,900	4,700	6,800	11,600	18,600	25,200
40,000	1,800	3,100	5,000	7,200	12,100	19,400	26,600
50,000	1,900	3,400	5,400	7,800	13,100	20,800	29,500
60,000	2,000	3,600	5,800	8,300	13,900	22,000	30,600
80,000	2,200	4,000	6,300	9,100	15,400	24,000	33,200
100,000	2,300	4,200	6,800	9,800	16,700	25,500	35,100
150,000	2,600	4,500	7,700	11,200	19,300	28,100	38,000
200,000	2,800	4,600	8,400	12,400	21,400	30,000	39,600

*Prospective RMS Symmetrical Amperes Short-Circuit Current
Note: Data Derived from Peak Let-Thru Curves

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