

Class RK5 Fuses

IDSR Series

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



Description

The IDSR series combines a 600 V dc capability with indication to provide an ideal solution for many dc applications.

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

- Dc circuits
- Solar inverters
- Motors
- Transformers
- Solenoids
- Fluorescent lighting

Specifications

Voltage Rating	Ac: 600 V Dc: 600 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

Certification & Compliance

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

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Accessories

LFR60 series fuse holder

Ordering Information

AMPERE RATING	CATALOG NUMBER	PRODUCT MARKING	PACKING QUANTITY	ORDERING NUMBER	UPC CODE
1/10	IDSR.100	IDSR 1/10	10	IDSR.100T	07945801523
15/100	IDSR.150	IDSR 15/100	10	IDSR.150T	07945801524
3/10	IDSR.200	IDSR 3/10	10	IDSR.200T	07945801525
1/4	IDSR.250	IDSR 1/4	10	IDSR.250T	07945801526
3/10	IDSR.300	IDSR 3/10	10	IDSR.300T	07945801527
4/10	IDSR.400	IDSR 4/10	10	IDSR.400T	07945801528
1/2	IDSR.500	IDSR 1/2	10	IDSR.500T	07945801529
5/10	IDSR.600	IDSR 5/10	10	IDSR.600T	07945801530
8/10	IDSR.800	IDSR 8/10	10	IDSR.800T	07945801531
1	IDSR001	IDSR 1	10	IDSR001.T	07945801532
1 1/8	IDSR1.12	IDSR 1 1/8	10	IDSR1.12T	07945801533
1 1/4	IDSR1.25	IDSR 1 1/4	10	IDSR1.25T	07945801534
1 1/10	IDSR01.4	IDSR 1 1/10	10	IDSR01.4T	07945801535
1 1/2	IDSR01.5	IDSR 1 1/2	10	IDSR01.5T	07945801536
1 5/10	IDSR01.6	IDSR 1 5/10	10	IDSR01.6T	07945801537
1 7/10	IDSR01.8	IDSR 1 7/10	10	IDSR01.8T	07945801538
2	IDSR002	IDSR 2	10	IDSR002.T	07945801539
2 1/4	IDSR2.25	IDSR 2 1/4	10	IDSR2.25T	07945801540
2 1/2	IDSR02.5	IDSR 2 1/2	10	IDSR02.5T	07945801541
2 5/10	IDSR02.8	IDSR 2 5/10	10	IDSR02.8T	07945801542
3	IDSR003	IDSR 3	10	IDSR003.T	07945801543
3 3/10	IDSR03.2	IDSR 3 3/10	10	IDSR03.2T	07945801544
3 1/2	IDSR03.5	IDSR 3 1/2	10	IDSR03.5T	07945801545
4	IDSR004	IDSR 4	10	IDSR004.T	07945801546
4 1/2	IDSR04.5	IDSR 4 1/2	10	IDSR04.5T	07945801547
5	IDSR005	IDSR 5	10	IDSR005.T	07945801548
5 5/10	IDSR05.6	IDSR 5 5/10	10	IDSR05.6T	07945801549
6	IDSR006	IDSR 6	10	IDSR006.T	07945801550
6 1/4	IDSR6.25	IDSR 6 1/4	10	IDSR6.25T	07945801551
7	IDSR007	IDSR 7	10	IDSR007.T	07945801552
7 1/2	IDSR07.5	IDSR 7 1/2	10	IDSR07.5T	07945801553
8	IDSR008	IDSR 8	10	IDSR008.T	07945801554
9	IDSR009	IDSR 9	10	IDSR009.T	07945801555
10	IDSR010	IDSR 10	10	IDSR010.T	07945801556
12	IDSR012	IDSR 12	10	IDSR012.T	07945801557
15	IDSR015	IDSR 15	10	IDSR015.T	07945801558
17 1/2	IDSR17.5	IDSR 17 1/2	10	IDSR17.5T	07945801559

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Ordering Information (cont.)

AMPERE RATING	CATALOG NUMBER	PRODUCT MARKING	PACKING QUANTITY	ORDERING NUMBER	UPC CODE
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

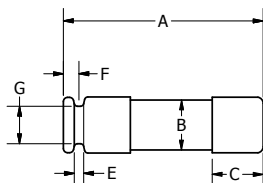


FIG. 1

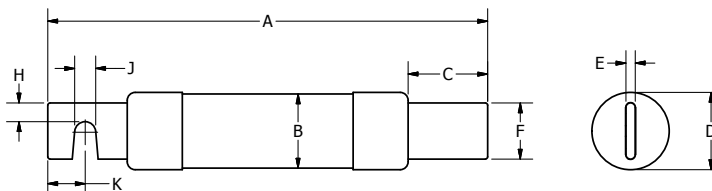


FIG. 2

AMPS	FIGURE NUMBER	DIMENSIONS INCHES (MM)									
		A	B	C	D	E	F	G	H	J	K
1/10-30	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 (6.4)	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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