

# CLASS RK5 – IDSR SERIES INDICATOR® FUSES

**POWR-PRO®** 600 V AC/DC • Dual Element • Time-Delay • 1/10-600 A



**IDSR006.T**



## Description

The IDSR combines a 600 Vdc capability with indication to provide an ideal solution for many DC applications.

## Applications

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

## Features/Benefits

- POWR-PRO® Performance
- Indication

## Specifications

|                             |   |
|-----------------------------|---|
| <b>Voltage Ratings</b>      | AC: 600 V<br>DC: 600 V  |
| <b>Interrupting Ratings</b> | AC: 200 kA rms symmetrical<br>300 kA rms symmetrical<br>(Littelfuse self-certified)<br>DC: 20 kA    |
| <b>Ampere Range</b>         | 1/10 – 600 A  |
| <b>Approvals</b>            | Standard 248-12 and UL 198M, Class RK5<br>UL Listed (File: E81895)<br>CSA Certified (File: LR29862) |

## Ordering Information

| AMPERE RATINGS |        |        |        |        |    |     |     |
|----------------|--------|--------|--------|--------|----|-----|-----|
| 1/10           | 5/10   | 1 8/10 | 4      | 8      | 30 | 80  | 225 |
| 1/8            | 5/10   | 2      | 4 1/2  | 9      | 35 | 90  | 250 |
| 15/100         | 1      | 2 1/4  | 5      | 10     | 40 | 100 | 300 |
| 2/10           | 1 1/8  | 2 1/2  | 5 5/10 | 12     | 45 | 110 | 350 |
| 1/4            | 1 1/4  | 2 5/10 | 6      | 15     | 50 | 125 | 400 |
| 3/10           | 1 4/10 | 3      | 6 1/4  | 17 1/2 | 60 | 150 | 450 |
| 4/10           | 1 1/2  | 3 2/10 | 7      | 20     | 70 | 175 | 500 |
| 1/2            | 1 5/10 | 3 1/2  | 7 1/2  | 25     | 75 | 200 | 600 |

Note: All fuses rated 1A and above are Indicator® fuses.

| SERIES | AMP | CATALOG NUMBER | ORDERING NUMBER |
|--------|-----|----------------|-----------------|
| IDSR   | 30  | IDSR030        | IDSR030.T       |

## Web Resources

Download TC Curves, CAD drawings and other technical information: [littelfuse.com/idsr](http://littelfuse.com/idsr)

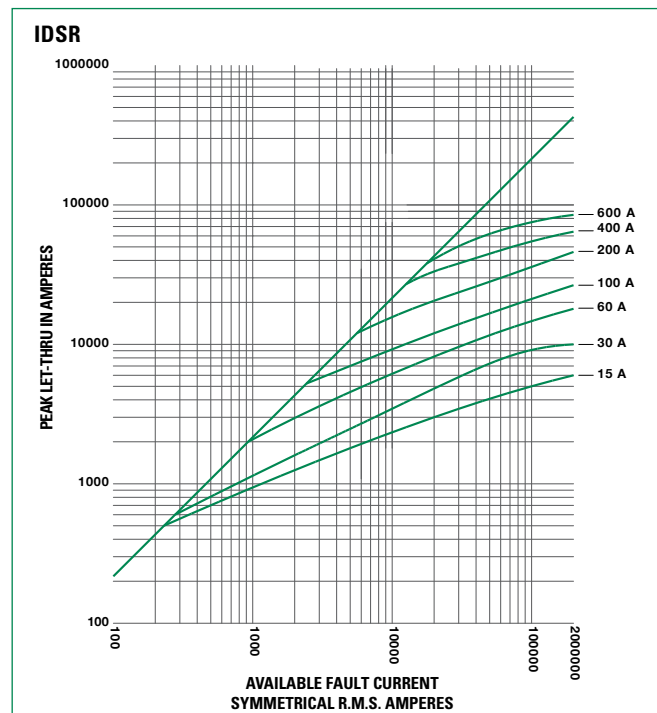
## Recommended Fuse Holders

LF60 Series

## Dimensions

Please refer to the Class R dimensions

## Peak Let-Thru Curve



Note: For more information, see Peak Let-Thru Table

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## Current-Limiting Effects of IDSR (600 V) 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

## Dimensions



FIG. 1



FIG. 2

70-600A

| AMPS    | FIGURE NUMBER | SERIES | DIMENSIONS INCHES (mm) |              |                |                |            |              |            |             |               |               |
|---------|---------------|--------|------------------------|--------------|----------------|----------------|------------|--------------|------------|-------------|---------------|---------------|
|         |               |        | A                      | B            | C              | D              | E          | F            | G          | H           | J             | K             |
| 1/10-30 | 1             | IDSR   | 5 (127.0)              | 3/4 (19.1)   | 5/8 (15.9)     | 13/16 (20.6)   | 3/32 (2.4) | 3/16 (4.8)   | 5/8 (15.9) | —           | —             | —             |
| 35-60   | 1             | IDSR   | 5 1/2 (139.7)          | 1 (25.4)     | 5/8 (15.9)     | 1 1/16 (27.0)  | 3/32 (2.4) | 1/4 (6.4)    | 7/8 (22.2) | —           | —             | —             |
| 70-100  | 2             | IDSR   | 7 7/8 (200.0)          | 1 1/4 (31.8) | 1 1/16 (27.0)  | 1 5/16 (33.3)  | 1/8 (3.2)  | 3/4 (19.1)   | —          | 1/4 (6.4)   | 9/32 (7.1)    | 1/2 (12.7)    |
| 110-200 | 2             | IDSR   | 9 5/8 (244.5)          | 1 3/4 (44.5) | 1 15/32 (37.3) | 1 27/32 (46.8) | 3/16 (4.8) | 1 1/8 (28.6) | —          | 7/16 (11.1) | 9/32 (7.1)    | 1 1/16 (17.5) |
| 225-400 | 2             | IDSR   | 11 5/8 (295.3)         | 2 1/2 (63.5) | 2 (50.8)       | 2 19/32 (65.9) | 1/4 (6.4)  | 1 5/8 (41.3) | —          | 5/8 (15.9)  | 13/32 (10.3)  | 1 5/16 (23.8) |
| 450-600 | 2             | IDSR   | 13 3/8 (339.7)         | 3 (76.2)     | 2 13/32 (61.1) | 3 3/32 (78.6)  | 1/4 (6.4)  | 2 (50.8)     | —          | 3/4 (19.1)  | 1 7/32 (13.5) | 1 1/8 (28.6)  |

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