

CLASS RK5 – IDSR SERIES INDICATOR® FUSES

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



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

| | |
|-----------------------------|---|
| Voltage Ratings | 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 | 1/10 – 600 A |
| Approvals | Standard 248-12 and UL 198M, Class RK5 UL Listed (File: E81895) CSA Certified (File: LR29862) |

Ordering Information

| AMPERE RATINGS | | | | | | | |
|----------------|--------|--------|--------|--------|----|-----|-----|
| 1/10 | 5/10 | 1 8/10 | 4 | 8 | 30 | 80 | 225 |
| 1/8 | 3/10 | 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

Recommended Fuse Holders

LFR60 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

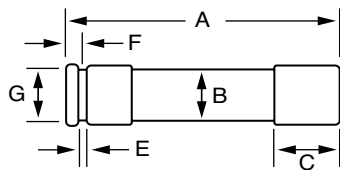


FIG. 1

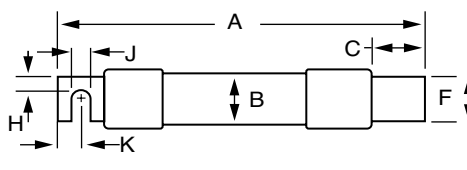


FIG. 2

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) |