

## JTD SERIES INDICATOR® POWR-PRO® FUSES

**POWR-PRO®** 600 V ac • Time Delay •  $\frac{8}{10}$ –600 A


## Description

The Littelfuse POWR-PRO® JTD\_ID Indicator Class J fuse provides visual blown fuse indication and maximum protection in a compact package. The current-limiting time delay JTD\_ID offers a patented design which reduces nuisance fuse openings.

## Features/Benefits

- POWR-PRO® Performance
- Current-Limiting
- IEC Type 2 Protection
- Indication and non-indication version available
- Indicating and DIN mount holders available
- Dual-element design

## Applications

- Fused combination motor controllers and motor control centers
- Transformer protection
- Protection for series rated molded case circuit-breaker panels
- General purpose circuits

## Specifications

### Voltage Ratings

AC: 600 V  
 DC: 300 V ( $\frac{8}{10}$ –100 A)  
 500 V (110–600 A)

### Amperage Range

$\frac{8}{10}$ –600 A

### Interrupting Rating

AC: 200 kA rms symmetrical  
 300kA rms symmetrical  
 (Littelfuse self-certified)

### Material

DC: 20 kA  
 Body: Melamine  
 Caps: Nickel-plated Bronze ( $\frac{8}{10}$ –60 A)  
 Brass (70–200 A)  
 Brass Cap with Copper Blade (225–600 A)

### Approvals

AC: Standard 248-8, Class J  
 UL Listed (File: E81895)  
 CSA Certified (File: LR29862)

### Country of Origin

DC: Littelfuse self-certified  
 Mexico

## Ordering Information

| AMPERAGE RATINGS |    |    |     |    |     |     |     |
|------------------|----|----|-----|----|-----|-----|-----|
| $\frac{8}{10}$   | 2¼ | 4½ | 10  | 35 | 90  | 225 | 600 |
| 1                | 2½ | 5  | 12  | 40 | 100 | 250 | —   |
| 1¼               | 2¾ | 5¾ | 15  | 45 | 110 | 300 | —   |
| 1½               | 3  | 6  | 17½ | 50 | 125 | 350 | —   |
| 1¾               | 3¾ | 7  | 20  | 60 | 150 | 400 | —   |
| 1¾               | 3½ | 8  | 25  | 70 | 175 | 450 | —   |
| 2                | 4  | 9  | 30  | 80 | 200 | 500 | —   |

| TYPE           | SERIES | AMPERAGE | CATALOG NUMBER | ORDERING NUMBER |
|----------------|--------|----------|----------------|-----------------|
| INDICATING     | JTD_ID | 60       | JTD60ID        | 0JTD060.TXID    |
| NON-INDICATING | JTD    | 60       | JTD60          | 0JTD060.T       |

## Web Resources

Time-current curves, data sheets and additional technical information: [littelfuse.com/jtd](http://littelfuse.com/jtd)

## Recommended Fuse Holders

LFJ60 Series  
 LFPSJ Series ( $\frac{8}{10}$ –60 A)

# JTD DIMENSIONS AND CURRENT-LIMITING EFFECTS

## Dimensions Inches (mm)

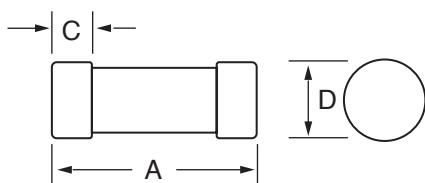


Fig. 1

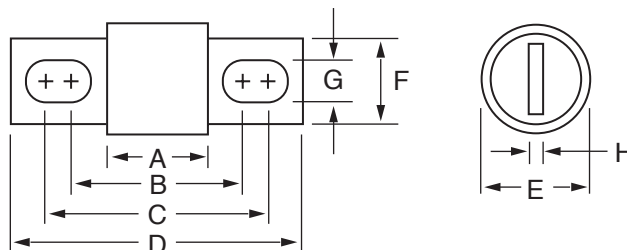


Fig. 2

## Dimensions of JTD\_ID & JTD

| AMPERAGE  | FIG. NO. | DIMENSIONS INCHES (mm) |                |                |              |           |           |              |         |
|-----------|----------|------------------------|----------------|----------------|--------------|-----------|-----------|--------------|---------|
|           |          | A                      | B              | C              | D            | E         | F         | G            | H       |
| 1 – 30    | 1        | 2¼ (57.2)              | —              | ½ (12.7)       | 13/16 (20.6) | —         | —         | —            | —       |
| 35 – 60   | 1        | 2¾ (60.3)              | —              | 5/8 (15.9)     | 1½ (27.0)    | —         | —         | —            | —       |
| 70 – 100  | 2        | 2⅝ (66.7)              | 3⅞ (89.7)      | 323/32 (94.5)  | 4⅝ (117.5)   | 1⅞ (28.6) | ¾ (19.1)  | 9/32 (7.1)   | ⅞ (3.2) |
| 110 – 200 | 2        | 3 (76.2)               | 4⅞ (108.7)     | 415/32 (113.5) | 5¾ (146.1)   | 1½ (38.1) | 1⅞ (28.6) | 9/32 (7.1)   | ¾ (4.8) |
| 225 – 400 | 2        | 3⅜ (85.7)              | 5⅞ (130.2)     | 5⅜ (136.5)     | 7⅞ (181.0)   | 2 (50.8)  | 1⅞ (41.3) | 13/32 (10.3) | ¼ (6.4) |
| 450 – 600 | 2        | 3¾ (95.3)              | 527/32 (148.4) | 65/32 (156.4)  | 8 (203.2)    | 2½ (63.5) | 2 (50.8)  | 17/32 (13.5) | ¾ (9.5) |

## Electrical Specifications

| ORDERING NUMBER | AMPERAGE RATING | VOLTAGE RATING |     | INTERRUPTING RATING |       | WATTS LOSS AT 100% RATED CURRENT (W) | WATTS LOSS AT 80% RATED CURRENT (W) | TOTAL CLEARING I²T (A² SEC) 200 kA | AGENCY APPROVALS |     |
|-----------------|-----------------|----------------|-----|---------------------|-------|--------------------------------------|-------------------------------------|------------------------------------|------------------|-----|
|                 |                 | AC             | DC  | AC                  | DC    |                                      |                                     |                                    | UL               | CSA |
| 0JTD003.T       | 3               | 600            | 300 | 200 kA              | 20 kA | 4.537                                | 2.801                               | 820                                | •                | •   |
| 0JTD010.T       | 10              | 600            | 300 | 200 kA              | 20 kA | 4.087                                | 2.418                               | 1690                               | •                | •   |
| 0JTD030.T       | 30              | 600            | 300 | 200 kA              | 20 kA | 4.247                                | 2.92                                | 4754                               | •                | •   |
| 0JTD060.T       | 60              | 600            | 300 | 200 kA              | 20 kA | 6.447                                | 3.83                                | 10450                              | •                | •   |
| 0JTD100.V       | 100             | 600            | 300 | 200 kA              | 20 kA | 7.463                                | 4.447                               | 68150                              | •                | •   |
| 0JTD200.X       | 200             | 600            | 500 | 200 kA              | 20 kA | 18.39                                | 10.187                              | 159000                             | •                | •   |
| 0JTD400.X       | 400             | 600            | 500 | 200 kA              | 20 kA | 40.037                               | 23.463                              | 1055000                            | •                | •   |
| 0JTD600.X       | 600             | 600            | 500 | 200 kA              | 20 kA | 61.187                               | 34.983                              | 1970000                            | •                | •   |

## Fuse Weight

| AMPERAGE | JTD-ID (POUNDS) | JTD-ID (GRAMS) | JTD (POUNDS) | JTD (GRAMS) |
|----------|-----------------|----------------|--------------|-------------|
| 8/10–3 ½ | 0.088           | 39.92          | 0.084        | 38.10       |
| 4–12     | 0.090           | 40.82          | 0.086        | 39.01       |
| 15–30    | 0.090           | 40.82          | 0.086        | 39.01       |
| 35–60    | 0.180           | 81.65          | 0.176        | 79.83       |
| 70–100   | 0.242           | 109.77         | 0.238        | 107.95      |
| 110–200  | 0.774           | 351.08         | 0.770        | 349.27      |
| 225–400  | 1.704           | 772.92         | 1.700        | 771.11      |
| 450–600  | 3.124           | 1417.02        | 3.120        | 1415.21     |

# JTD SERIES CLASS J FUSE

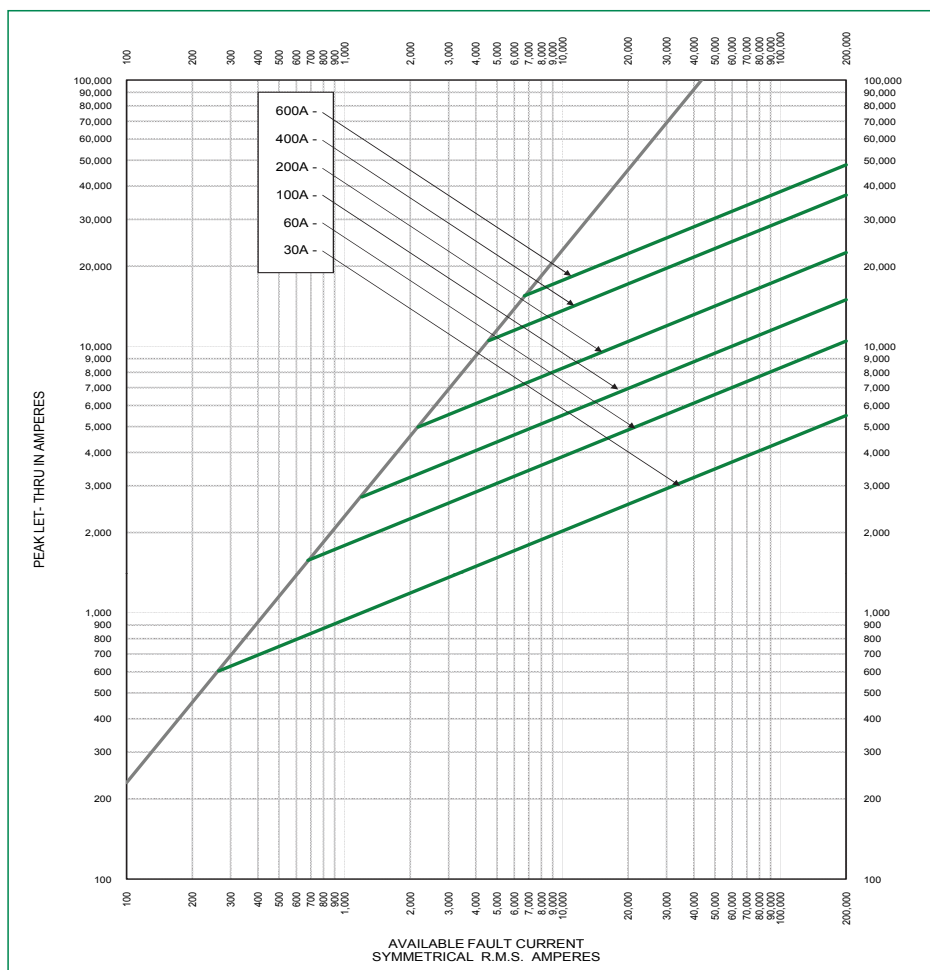
## Current-Limiting Effects of JTD & JTDID (600 V) Fuses

| SHORT CIRCUIT<br>CURRENT† | APPARENT RMS SYMMETRICAL CURRENT FOR VARIOUS FUSE RATINGS |       |       |       |        |        |
|---------------------------|-----------------------------------------------------------|-------|-------|-------|--------|--------|
|                           | 30 A                                                      | 60 A  | 100 A | 200 A | 400 A  | 600 A  |
| 5,000                     | 699                                                       | 1,331 | 1,903 | 2,858 | 4,702  | -      |
| 10,000                    | 881                                                       | 1,676 | 2,397 | 3,601 | 5,925  | 7,689  |
| 15,000                    | 1,008                                                     | 1,919 | 2,744 | 4,123 | 6,782  | 8,802  |
| 20,000                    | 1,110                                                     | 2,112 | 3,020 | 4,537 | 7,464  | 9,687  |
| 25,000                    | 1,196                                                     | 2,275 | 3,254 | 4,888 | 8,041  | 10,436 |
| 30,000                    | 1,271                                                     | 2,418 | 3,457 | 5,194 | 8,545  | 11,089 |
| 35,000                    | 1,338                                                     | 2,545 | 3,640 | 5,468 | 8,995  | 11,674 |
| 40,000                    | 1,398                                                     | 2,661 | 3,805 | 5,717 | 9,405  | 12,205 |
| 50,000                    | 1,506                                                     | 2,867 | 4,099 | 6,158 | 10,131 | 13,148 |
| 60,000                    | 1,601                                                     | 3,046 | 4,356 | 6,544 | 10,766 | 13,972 |
| 80,000                    | 1,762                                                     | 3,353 | 4,795 | 7,203 | 11,849 | 15,378 |
| 100,000                   | 1,898                                                     | 3,612 | 5,165 | 7,759 | 12,764 | 16,565 |
| 150,000                   | 2,173                                                     | 4,134 | 5,912 | 8,882 | 14,611 | 18,963 |
| 200,000                   | 2,391                                                     | 4,551 | 6,507 | 9,776 | 16,082 | 20,871 |

†Prospective RMS Symmetrical Amperes Short-Circuit Current

Note: Data derived from Peak Let-Thru Curves

## Peak Let-Thru Curve (JTD & JTDID)



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