

# JTD SERIES INDICATOR® POWR-PRO® FUSES

**POWR-PRO**® 600 V ac • Time Delay • 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

|                            |                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Voltage Ratings</b>     | AC: 600 V<br>DC: 300 V (8/10-100 A)<br>500 V (110-600 A)                                                                             |
| <b>Amperage Range</b>      | 8/10-600 A                                                                                                                           |
| <b>Interrupting Rating</b> | AC: 200 kA rms symmetrical<br>300kA rms symmetrical<br>(Littelfuse self-certified)                                                   |
| <b>Material</b>            | DC: 20 kA<br>Body: Melamine<br>Caps: Nickel-plated Bronze (8/10-60 A)<br>Brass (70-200 A)<br>Brass Cap with Copper Blade (225-600 A) |
| <b>Approvals</b>           | AC: Standard 248-8, Class J<br>UL Listed (File: E81895)<br>CSA Certified (File: LR29862)<br>DC: Littelfuse self-certified            |
| <b>Country of Origin</b>   | Mexico                                                                                                                               |

## Ordering Information

| AMPERAGE RATINGS |    |    |     |    |     |     |     |
|------------------|----|----|-----|----|-----|-----|-----|
| 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 | —   |
| 1⅝               | 3⅒ | 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 (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)     | 11/16 (27.0) | —          | —           | —            | —          |
| 70-100   | 2        | 2½ (66.7)              | 317/32 (89.7)  | 323/32 (94.5)  | 45/8 (117.5) | 1/8 (28.6) | ¾ (19.1)    | 9/32 (7.1)   | 1/8 (3.2)  |
| 110-200  | 2        | 3 (76.2)               | 49/32 (108.7)  | 415/32 (113.5) | 53/4 (146.1) | 1½ (38.1)  | 1/8 (28.6)  | 9/32 (7.1)   | 3/16 (4.8) |
| 225-400  | 2        | 3¾ (85.7)              | 5/8 (130.2)    | 5¾ (136.5)     | 7/8 (181.0)  | 2 (50.8)   | 15/8 (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) | 3/8 (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 CURRENT <sup>†</sup> | 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 |

<sup>†</sup>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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