

# CLASS L – KLLU SERIES FUSES

600 VAC • Time-Delay • 601-4000 A



## Description

KLLU series fuses meet or exceed UL requirements for UL Class L fuses. The KLLU series offers an economical alternative to KLPC POWR-PRO® fuse with a slightly higher peak let through current.

## Applications

- Service switches
- Switchboard mains and feeders
- Motor control center mains
- Large motor branch circuits
- Circuit breaker protection

## Features/Benefits

- Current-Limiting
- Easily coordinated with other system components
- 200 kA AC Interrupting Rating

## Specifications

|                             |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Voltage Ratings</b>      | AC: 600 V<br>DC: 300 V                                                                                                 |
| <b>Interrupting Ratings</b> | AC: 200 kA<br>DC: 20 kA                                                                                                |
| <b>Ampere Range</b>         | 601–4000 A                                                                                                             |
| <b>Approvals</b>            | Standard 248-10, Class L<br>UL Listed (File: E81895)<br>CSA Certified (File: LR29862)<br>DC: Littelfuse self-certified |

## Ordering Information

| AMPERE RATINGS |     |      |      |      |      |
|----------------|-----|------|------|------|------|
| 601            | 750 | 1000 | 1400 | 1800 | 3000 |
| 650            | 800 | 1200 | 1500 | 2000 | 3500 |
| 700            | 900 | 1350 | 1600 | 2500 | 4000 |

| SERIES | AMPERAGE | CATALOG NUMBER | ORDERING NUMBER |
|--------|----------|----------------|-----------------|
| KLLU   | 601      | KLLU601        | KLLU601.X       |

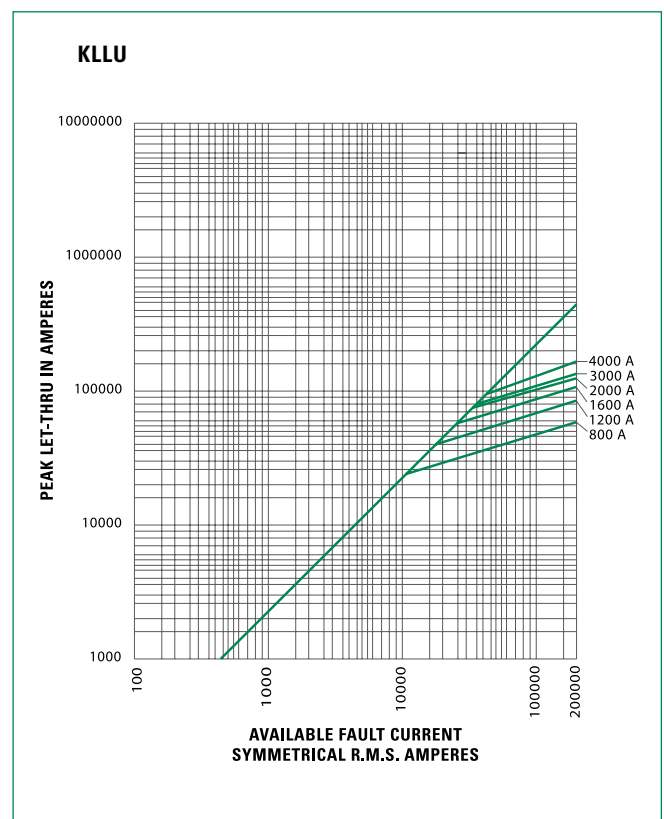
## Web Resources

TC Curves, downloadable CAD drawings and other technical information: [www.littelfuse.com/kllu](http://www.littelfuse.com/kllu)

## Dimensions

Please refer to the Class L dimensions page 2

## Peak Let-Thru Curve



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

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## Current-Limiting Effects of KLLU (600 V) Fuses

| SHORT-CIRCUIT<br>CURRENT* | APPARENT RMS SYMMETRICAL CURRENT FOR VARIOUS FUSE RATINGS |        |        |        |        |        |
|---------------------------|-----------------------------------------------------------|--------|--------|--------|--------|--------|
|                           | 800 A                                                     | 1200 A | 1600 A | 2000 A | 3000 A | 4000 A |
| 5,000                     | 5,000                                                     | 5,000  | 5,000  | 5,000  | 5,000  | 5,000  |
| 10,000                    | 10,000                                                    | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 |
| 15,000                    | 11,900                                                    | 15,000 | 15,000 | 15,000 | 15,000 | 15,000 |
| 20,000                    | 13,000                                                    | 18,500 | 20,000 | 20,000 | 20,000 | 20,000 |
| 25,000                    | 14,000                                                    | 20,000 | 25,000 | 25,000 | 25,000 | 25,000 |
| 30,000                    | 14,500                                                    | 21,000 | 26,500 | 30,000 | 30,000 | 30,000 |
| 35,000                    | 15,000                                                    | 22,000 | 28,500 | 34,000 | 35,000 | 35,000 |
| 40,000                    | 16,000                                                    | 23,000 | 30,000 | 35,000 | 37,000 | 40,000 |
| 50,000                    | 17,000                                                    | 24,000 | 32,000 | 38,000 | 39,000 | 44,000 |
| 60,000                    | 18,000                                                    | 26,000 | 34,000 | 42,000 | 43,000 | 50,000 |
| 80,000                    | 19,000                                                    | 28,000 | 36,000 | 44,000 | 46,000 | 54,500 |
| 100,000                   | 21,000                                                    | 30,000 | 38,000 | 46,000 | 48,000 | 57,500 |
| 150,000                   | 24,000                                                    | 35,000 | 44,000 | 50,000 | 51,000 | 68,000 |
| 200,000                   | 26,000                                                    | 38,000 | 48,000 | 53,000 | 60,000 | 74,000 |

\*Prospective RMS Symmetrical Amperes Short-Circuit Current • Note: Data derived from Peak Let-Thru Curves

## Dimensions

| AMPERES   | FIG. NO. | DIMENSIONS INCHES (mm)                  |                                          |                                          |                                          |                                          |                                           |                                         |                                         |                                          |                                          |                                          |                                                                                  |
|-----------|----------|-----------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|-------------------------------------------|-----------------------------------------|-----------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------|
|           |          | A                                       | B                                        | C                                        | D                                        | E                                        | F                                         | G                                       | H                                       | J                                        | K                                        | L                                        | M                                                                                |
| 200-800   | 1        | 3 <sup>3</sup> / <sub>4</sub><br>(95.3) | 5 <sup>3</sup> / <sub>4</sub><br>(146.1) | 6 <sup>3</sup> / <sub>4</sub><br>(171.5) | —                                        | —                                        | 8 <sup>5</sup> / <sub>8</sub><br>(219.1)  | —                                       | —                                       | 2<br>(50.8)                              | 2 <sup>1</sup> / <sub>2</sub><br>(63.5)  | 3 <sup>3</sup> / <sub>8</sub><br>(9.5)   | 5 <sup>5</sup> / <sub>8</sub> x 1 <sup>1</sup> / <sub>8</sub><br>(15.9) x (28.6) |
| 900-1200  | 2        | 3 <sup>3</sup> / <sub>4</sub><br>(95.3) | 5 <sup>3</sup> / <sub>4</sub><br>(146.1) | 6 <sup>3</sup> / <sub>4</sub><br>(171.5) | 9 <sup>1</sup> / <sub>4</sub><br>(235.0) | 9 <sup>1</sup> / <sub>2</sub><br>(241.3) | 10 <sup>3</sup> / <sub>4</sub><br>(273.1) | —                                       | —                                       | 2<br>(50.8)                              | 2 <sup>1</sup> / <sub>2</sub><br>(63.5)  | 3 <sup>3</sup> / <sub>8</sub><br>(9.5)   | 5 <sup>5</sup> / <sub>8</sub> x 3 <sup>1</sup> / <sub>4</sub><br>(15.9) x (19.1) |
| 1300-1600 | 2        | 3 <sup>3</sup> / <sub>4</sub><br>(95.3) | 5 <sup>3</sup> / <sub>4</sub><br>(146.1) | 6 <sup>3</sup> / <sub>4</sub><br>(171.5) | 9 <sup>1</sup> / <sub>4</sub><br>(235.0) | 9 <sup>1</sup> / <sub>2</sub><br>(241.3) | 10 <sup>3</sup> / <sub>4</sub><br>(273.1) | —                                       | —                                       | 2 <sup>3</sup> / <sub>8</sub><br>(60.3)  | 3<br>(76.2)                              | 7 <sup>1</sup> / <sub>16</sub><br>(11.1) | 5 <sup>5</sup> / <sub>8</sub> x 3 <sup>1</sup> / <sub>4</sub><br>(15.9) x (19.1) |
| 1800-2000 | 2        | 3 <sup>3</sup> / <sub>4</sub><br>(95.3) | 5 <sup>3</sup> / <sub>4</sub><br>(146.1) | 6 <sup>3</sup> / <sub>4</sub><br>(171.5) | 9 <sup>1</sup> / <sub>4</sub><br>(235.0) | 9 <sup>1</sup> / <sub>2</sub><br>(241.3) | 10 <sup>3</sup> / <sub>4</sub><br>(273.1) | —                                       | —                                       | 2 <sup>3</sup> / <sub>4</sub><br>(69.9)  | 3 <sup>1</sup> / <sub>2</sub><br>(88.9)  | 1 <sup>1</sup> / <sub>2</sub><br>(12.7)  | 5 <sup>5</sup> / <sub>8</sub> x 3 <sup>1</sup> / <sub>4</sub><br>(15.9) x (19.1) |
| 2100-2500 | 3        | 4<br>(101.6)                            | 5 <sup>3</sup> / <sub>4</sub><br>(146.1) | 6 <sup>3</sup> / <sub>4</sub><br>(171.5) | 9 <sup>1</sup> / <sub>4</sub><br>(235.0) | 9 <sup>1</sup> / <sub>2</sub><br>(241.3) | 10 <sup>3</sup> / <sub>4</sub><br>(273.1) | 1 <sup>5</sup> / <sub>8</sub><br>(41.3) | 1 <sup>3</sup> / <sub>4</sub><br>(44.5) | 3 <sup>1</sup> / <sub>2</sub><br>(88.9)  | 5<br>(127.0)                             | 3 <sup>3</sup> / <sub>4</sub><br>(19.1)  | 5 <sup>5</sup> / <sub>8</sub> x 3 <sup>1</sup> / <sub>4</sub><br>(15.9) x (19.1) |
| 2501-3000 | 3        | 4<br>(101.6)                            | 5 <sup>3</sup> / <sub>4</sub><br>(146.1) | 6 <sup>3</sup> / <sub>4</sub><br>(171.5) | 9 <sup>1</sup> / <sub>4</sub><br>(235.0) | 9 <sup>1</sup> / <sub>2</sub><br>(241.3) | 10 <sup>3</sup> / <sub>4</sub><br>(273.1) | 1 <sup>5</sup> / <sub>8</sub><br>(41.3) | 1 <sup>3</sup> / <sub>4</sub><br>(44.5) | 4<br>(101.6)                             | 5<br>(127.0)                             | 3 <sup>3</sup> / <sub>4</sub><br>(19.1)  | 5 <sup>5</sup> / <sub>8</sub> x 3 <sup>1</sup> / <sub>4</sub><br>(15.9) x (19.1) |
| 3500-4000 | 4        | 4<br>(101.6)                            | 5 <sup>3</sup> / <sub>4</sub><br>(146.1) | 6 <sup>3</sup> / <sub>4</sub><br>(171.5) | 9 <sup>1</sup> / <sub>4</sub><br>(235.0) | 9 <sup>1</sup> / <sub>2</sub><br>(241.3) | 10 <sup>3</sup> / <sub>4</sub><br>(273.1) | 1 <sup>1</sup> / <sub>4</sub><br>(44.5) | 3 <sup>1</sup> / <sub>4</sub><br>(82.6) | 4 <sup>3</sup> / <sub>4</sub><br>(120.7) | 5 <sup>3</sup> / <sub>4</sub><br>(146.1) | 3 <sup>3</sup> / <sub>4</sub><br>(19.1)  | 5 <sup>5</sup> / <sub>8</sub> x 1 <sup>3</sup> / <sub>8</sub><br>(15.9) x (34.9) |
| 4500-5000 | 5        | 4<br>(101.6)                            | 5 <sup>3</sup> / <sub>4</sub><br>(146.1) | —                                        | 9 <sup>1</sup> / <sub>4</sub><br>(235.0) | —                                        | 10 <sup>3</sup> / <sub>4</sub><br>(273.1) | 1 <sup>5</sup> / <sub>8</sub><br>(41.3) | 3 <sup>1</sup> / <sub>4</sub><br>(82.6) | 5 <sup>1</sup> / <sub>4</sub><br>(133.4) | 7 <sup>1</sup> / <sub>8</sub><br>(181.0) | 1<br>(25.4)                              | 5 <sup>5</sup> / <sub>8</sub> DIA.<br>(15.9)                                     |
| 6000      | 5        | 4<br>(101.6)                            | 5 <sup>3</sup> / <sub>4</sub><br>(146.1) | —                                        | 9 <sup>1</sup> / <sub>4</sub><br>(235.0) | —                                        | 10 <sup>3</sup> / <sub>4</sub><br>(273.1) | 1 <sup>5</sup> / <sub>8</sub><br>(41.3) | 3 <sup>1</sup> / <sub>4</sub><br>(82.6) | 5 <sup>1</sup> / <sub>4</sub><br>(133.4) | 7 <sup>1</sup> / <sub>8</sub><br>(181.0) | 1<br>(25.4)                              | 5 <sup>5</sup> / <sub>8</sub> DIA.<br>(15.9)                                     |

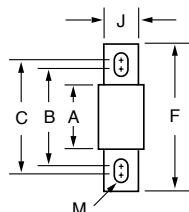


FIG. 1

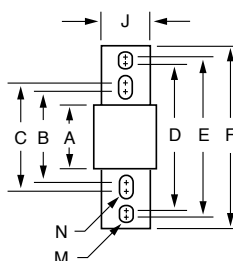


FIG. 2

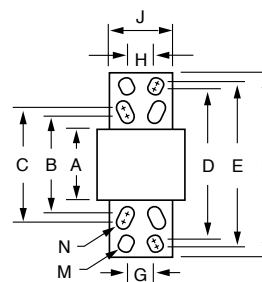


FIG. 3

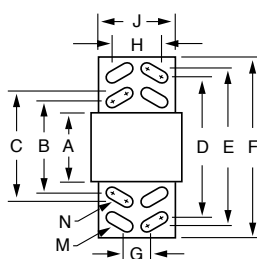


FIG. 4

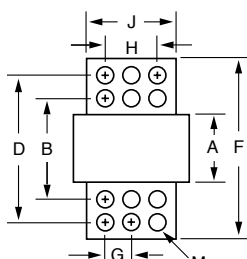


FIG. 5

