

# POWR-GARD® Fuse

## L60S/KLC Series TRADITIONAL High-Speed

600 V ac • Very Fast-Acting • 1–800 A



L60S Series

KLC Series

### Description

The L60S and KLC series is a traditional North American style high-speed fuse for protection of power semiconductor devices that are rated up to 600 V ac. These fuse series are typically used for replacement purposes only. For new designs L70QS series is recommended.

### Features/Benefits

- Compliance with US and Canadian requirements
- Traditional North American cylindrical and bolted style dimensions
- Class aR performance

### Applications

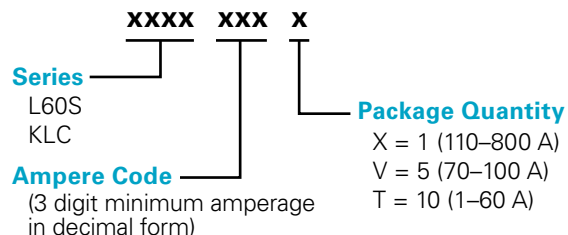
- Small power converters
- Power supplies
- Control circuits

### Specifications

|                              |                                                                       |
|------------------------------|-----------------------------------------------------------------------|
| <b>Voltage Rating</b>        | 600 V ac                                                              |
| <b>Ampere Range</b>          | 1–800 A                                                               |
| <b>Interrupting Rating</b>   | 200 kA rms                                                            |
| <b>Approvals</b>             | UL Recognized (File: E71611)<br>CSA Recognized (File: 029862_0_000)   |
| <b>Mounting Type</b>         | Cylindrical (L60S 10–30 A)<br>Bolted Tags (L60S 35–800A; KLC 1–800 A) |
| <b>Material Body:</b>        | Melamine                                                              |
| <b>Environmental</b>         | Terminals: Copper (silver plated)                                     |
| <b>Country of Origin</b>     | RoHS Compliant                                                        |
| <b>Operating Temperature</b> | Mexico                                                                |
| <b>Storage Temperature</b>   | -55 °C to +125 °C<br>Up to 35 °C with relative humidity <65 %         |

For additional product information, contact Littelfuse Technical Support at 1-800-TEC-FUSE or [techline@littelfuse.com](mailto:techline@littelfuse.com).

### Part Numbering System



### Recommended Fuse Holders

1LFS101/1LFS102  
LSCR001/LSCR002  
109/129 Series (1–30A)  
LFH60030 (1–30A)

### Web Resources

For additional information, visit: [Littelfuse.com/high-speed](https://www.littelfuse.com/high-speed)

*Note: high-speed fuses are designed for fixed installations. They are not intended for use in moving vehicle applications.*

# POWR-GARD® Fuse

## L60S/KLC Series TRADITIONAL High-Speed

### Ordering Information

| L60S SERIES |          |             |                |                 |               |             |
|-------------|----------|-------------|----------------|-----------------|---------------|-------------|
| SERIES      | AMPERAGE | AMPERE CODE | CATALOG NUMBER | ORDERING NUMBER | PACK QUANTITY | UPC         |
| L60S        | 1        | 001.        | L60S001        | L60S001.T       | 10 Pcs/Box    | 07945810100 |
| L60S        | 2        | 002.        | L60S002        | L60S002.T       | 10 Pcs/Box    | 07945810101 |
| L60S        | 3        | 003.        | L60S003        | L60S003.T       | 10 Pcs/Box    | 07945810102 |
| L60S        | 4        | 004.        | L60S004        | L60S004.T       | 10 Pcs/Box    | 07945810103 |
| L60S        | 5        | 005.        | L60S005        | L60S005.T       | 10 Pcs/Box    | 07945810104 |
| L60S        | 6        | 006.        | L60S006        | L60S006.T       | 10 Pcs/Box    | 07945810105 |
| L60S        | 8        | 008.        | L60S008        | L60S008.T       | 10 Pcs/Box    | 07945810107 |
| L60S        | 10       | 010.        | L60S010        | L60S010.T       | 10 Pcs/Box    | 07945810108 |
| L60S        | 12       | 012.        | L60S012        | L60S012.T       | 10 Pcs/Box    | 07945810109 |
| L60S        | 15       | 015.        | L60S015        | L60S015.T       | 10 Pcs/Box    | 07945810110 |
| L60S        | 17.5     | 17.5        | L60S17.5       | L60S17.5T       | 10 Pcs/Box    | 07945810135 |
| L60S        | 20       | 020.        | L60S020        | L60S020.T       | 10 Pcs/Box    | 07945810111 |
| L60S        | 25       | 025.        | L60S025        | L60S025.T       | 10 Pcs/Box    | 07945810112 |
| L60S        | 30       | 030.        | L60S030        | L60S030.T       | 10 Pcs/Box    | 07945810113 |
| L60S        | 35       | 035.        | L60S035        | L60S035.T       | 10 Pcs/Box    | 07945810114 |
| L60S        | 40       | 040.        | L60S040        | L60S040.T       | 10 Pcs/Box    | 07945810115 |
| L60S        | 45       | 045.        | L60S045        | L60S045.T       | 10 Pcs/Box    | 07945810116 |
| L60S        | 50       | 050.        | L60S050        | L60S050.T       | 10 Pcs/Box    | 07945810117 |
| L60S        | 60       | 060.        | L60S060        | L60S060.T       | 10 Pcs/Box    | 07945810118 |
| L60S        | 70       | 070.        | L60S070        | L60S070.V       | 5 Pcs/Box     | 07945810119 |
| L60S        | 80       | 080.        | L60S080        | L60S080.V       | 5 Pcs/Box     | 07945810120 |
| L60S        | 90       | 090.        | L60S090        | L60S090.V       | 5 Pcs/Box     | 07945810121 |
| L60S        | 100      | 100.        | L60S100        | L60S100.V       | 5 Pcs/Box     | 07945810122 |
| L60S        | 125      | 125.        | L60S125        | L60S125.X       | 1 Pcs/Box     | 07945810123 |
| L60S        | 150      | 150.        | L60S150        | L60S150.X       | 1 Pcs/Box     | 07945810124 |
| L60S        | 175      | 175.        | L60S175        | L60S175.X       | 1 Pcs/Box     | 07945810125 |
| L60S        | 200      | 200.        | L60S200        | L60S200.X       | 1 Pcs/Box     | 07945810126 |
| L60S        | 225      | 225.        | L60S225        | L60S225.X       | 1 Pcs/Box     | 07945810137 |
| L60S        | 250      | 250.        | L60S250        | L60S250.X       | 1 Pcs/Box     | 07945810127 |
| L60S        | 300      | 300.        | L60S300        | L60S300.X       | 1 Pcs/Box     | 07945810128 |
| L60S        | 350      | 350.        | L60S350        | L60S350.X       | 1 Pcs/Box     | 07945810129 |
| L60S        | 400      | 400.        | L60S400        | L60S400.X       | 1 Pcs/Box     | 07945810130 |
| L60S        | 450      | 450.        | L60S450        | L60S450.X       | 1 Pcs/Box     | 07945810131 |
| L60S        | 500      | 500.        | L60S500        | L60S500.X       | 1 Pcs/Box     | 07945810132 |
| L60S        | 600      | 600.        | L60S600        | L60S600.X       | 1 Pcs/Box     | 07945810133 |
| L60S        | 700      | 700.        | L60S700        | L60S700.X       | 1 Pcs/Box     | 07945810136 |
| L60S        | 800      | 800.        | L60S800        | L60S800.X       | 1 Pcs/Box     | 07945810134 |

# POWR-GARD® Fuse

## L60S/KLC Series TRADITIONAL High-Speed

### Ordering Information

| KLC* SERIES |          |             |                |                 |               |             |
|-------------|----------|-------------|----------------|-----------------|---------------|-------------|
| SERIES      | AMPERAGE | AMPERE CODE | CATALOG NUMBER | ORDERING NUMBER | PACK QUANTITY | UPC         |
| KLC         | 1        | 001.        | KLC001         | OKLC001.T       | 10 pcs/box    | 07945823031 |
| KLC         | 2        | 002.        | KLC002         | OKLC002.T       | 10 pcs/box    | 07945823041 |
| KLC         | 3        | 003.        | KLC003         | OKLC003.T       | 10 pcs/box    | 07945823047 |
| KLC         | 4        | 004.        | KLC004         | OKLC004.T       | 10 pcs/box    | 07945823053 |
| KLC         | 5        | 005.        | KLC005         | OKLC005.T       | 10 pcs/box    | 07945823055 |
| KLC         | 6        | 006.        | KLC006         | OKLC006.T       | 10 pcs/box    | 07945823058 |
| KLC         | 7        | 007.        | KLC007         | OKLC007.T       | 10 pcs/box    | 07945823061 |
| KLC         | 8        | 008.        | KLC008         | OKLC008.T       | 10 pcs/box    | 07945823063 |
| KLC         | 10       | 010.        | KLC010         | OKLC010.T       | 10 pcs/box    | 07945823065 |
| KLC         | 12       | 012.        | KLC012         | OKLC012.T       | 10 pcs/box    | 07945823066 |
| KLC         | 15       | 015.        | KLC015         | OKLC015.T       | 10 pcs/box    | 07945823068 |
| KLC         | 17.5     | 17.5        | KLC17.5        | OKLC17.5T       | 10 pcs/box    | 07945823069 |
| KLC         | 20       | 020.        | KLC020         | OKLC020.T       | 10 pcs/box    | 07945823071 |
| KLC         | 25       | 025.        | KLC025         | OKLC025.T       | 10 pcs/box    | 07945823072 |
| KLC         | 30       | 030.        | KLC030         | OKLC030.T       | 10 pcs/box    | 07945823073 |
| KLC         | 35       | 035.        | KLC035         | OKLC035.T       | 10 pcs/box    | 07945823074 |
| KLC         | 40       | 040.        | KLC040         | OKLC040.T       | 10 pcs/box    | 07945823075 |
| KLC         | 45       | 045.        | KLC045         | OKLC045.T       | 10 pcs/box    | 07945823076 |
| KLC         | 50       | 050.        | KLC050         | OKLC050.T       | 10 pcs/box    | 07945823077 |
| KLC         | 60       | 060.        | KLC060         | OKLC060.T       | 10 pcs/box    | 07945823078 |
| KLC         | 70       | 070.        | KLC070         | OKLC070.V       | 5 pcs/box     | 07945823079 |
| KLC         | 80       | 080.        | KLC080         | OKLC080.V       | 5 pcs/box     | 07945823080 |
| KLC         | 90       | 090.        | KLC090         | OKLC090.V       | 5 pcs/box     | 07945823081 |
| KLC         | 100      | 100.        | KLC100         | OKLC100.V       | 5 pcs/box     | 07945823082 |
| KLC         | 110      | 110.        | KLC110         | OKLC110.X       | 1 pcs/box     | 07945823083 |
| KLC         | 125      | 125.        | KLC125         | OKLC125.X       | 1 pcs/box     | 07945823084 |
| KLC         | 150      | 150.        | KLC150         | OKLC150.X       | 1 pcs/box     | 07945823086 |
| KLC         | 175      | 175.        | KLC175         | OKLC175.X       | 1 pcs/box     | 07945823087 |
| KLC         | 200      | 200.        | KLC200         | OKLC200.X       | 1 pcs/box     | 07945823088 |
| KLC         | 225      | 225.        | KLC225         | OKLC225.X       | 1 pcs/box     | 07945823089 |
| KLC         | 250      | 250.        | KLC250         | OKLC250.X       | 1 pcs/box     | 07945823090 |
| KLC         | 300      | 300.        | KLC300         | OKLC300.X       | 1 pcs/box     | 07945823091 |
| KLC         | 350      | 350.        | KLC350         | OKLC350.X       | 1 pcs/box     | 07945823092 |
| KLC         | 400      | 400.        | KLC400         | OKLC400.X       | 1 pcs/box     | 07945823093 |
| KLC         | 450      | 450.        | KLC450         | OKLC450.X       | 1 pcs/box     | 07945823095 |
| KLC         | 500      | 500.        | KLC500         | OKLC500.X       | 1 pcs/box     | 07945823096 |
| KLC         | 600      | 600.        | KLC600         | OKLC600.X       | 1 pcs/box     | 07945823098 |
| KLC         | 700      | 700.        | KLC700         | OKLC700.X       | 1 pcs/box     | 07945823101 |
| KLC         | 800      | 800.        | KLC800         | OKLC800.X       | 1 pcs/box     | 07945823103 |

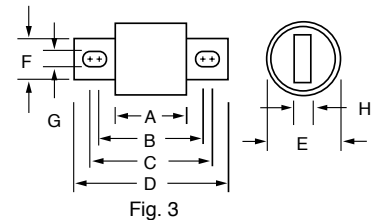
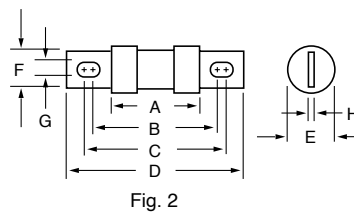
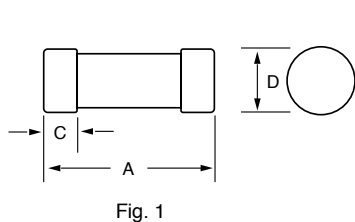
\*KLC series fuses are recommended for replacement use only.

# POWR-GARD® Fuse

## L60S/KLC Series TRADITIONAL High-Speed

### Dimensions

| AMPERE RATING         | FIG. NO. | DIMENSIONS INCHES (MM) |                |                |                |               |              |              |            |
|-----------------------|----------|------------------------|----------------|----------------|----------------|---------------|--------------|--------------|------------|
|                       |          | A                      | B              | C              | D              | E             | F            | G            | H          |
| L60S SERIES, 600 V AC |          |                        |                |                |                |               |              |              |            |
| 1 – 30                | 1        | 5 (127.0)              | —              | 5⁄8 (15.9)     | 13⁄16 (20.6)   | —             | —            | —            | —          |
| 31 – 60               | 2        | 225⁄32 (70.6)          | 37⁄16 (87.3)   | 311⁄16 (93.7)  | 43⁄8 (111.1)   | 13⁄16 (20.6)  | 23⁄32 (18.3) | 11⁄32 (8.7)  | 1⁄8 (3.2)  |
| 61 – 100              | 2        | 229⁄32 (73.8)          | 317⁄32 (89.7)  | 325⁄32 (96.0)  | 415⁄32 (113.5) | 11⁄16 (27.0)  | 23⁄32 (18.3) | 11⁄32 (8.7)  | 1⁄8 (3.2)  |
| 101 – 200             | 2        | 229⁄32 (73.8)          | 39⁄16 (90.5)   | 33⁄4 (95.3)    | 413⁄32 (111.9) | 15⁄16 (33.3)  | 1 (25.4)     | 5⁄16 (7.9)   | 3⁄16 (4.8) |
| 201 – 400             | 2        | 229⁄32 (73.8)          | 331⁄32 (100.8) | 45⁄32 (105.6)  | 51⁄8 (130.2)   | 137⁄64 (40.1) | 1 (25.4)     | 13⁄32 (10.3) | 1⁄4 (6.4)  |
| 401 – 600             | 2        | 27⁄8 (73.0)            | 331⁄32 (100.8) | 49⁄64 (105.2)  | 51⁄8 (130.2)   | 21⁄16 (52.8)  | 1½ (38.1)    | 13⁄32 (10.3) | 1⁄4 (6.4)  |
| 601 – 800             | 2        | 31⁄32 (77.0)           | 55⁄32 (133.4)  | 511⁄32 (135.7) | 7¼ (184.2)     | 2½ (63.5)     | 2 (50.8)     | 17⁄32 (13.5) | 3⁄8 (9.5)  |
| KLC SERIES, 600 V AC  |          |                        |                |                |                |               |              |              |            |
| 1 – 30                | 2        | 17⁄8 (47.6)            | 2½ (63.5)      | —              | 27⁄8 (73.0)    | 9⁄16 (14.3)   | 13⁄32 (10.3) | ¼ (6.4)      | 3⁄64 (1.2) |
| 31 – 60               | 2        | 2¾ (69.9)              | 33⁄8 (85.7)    | 35⁄8 (92.1)    | 45⁄16 (109.5)  | 13⁄16 (20.6)  | 23⁄32 (18.3) | 11⁄32 (8.7)  | 1⁄8 (3.2)  |
| 61 – 100              | 3        | 27⁄8 (73.0)            | 321⁄32 (92.9)  | 41⁄16 (103.2)  | 5 (127.0)      | 1 (25.4)      | ¾ (19.1)     | 13⁄32 (10.3) | 1⁄8 (3.2)  |
| 101 – 200             | 3        | 227⁄32 (72.2)          | 317⁄32 (89.7)  | 43⁄8 (111.1)   | 53⁄32 (129.4)  | 1½ (38.1)     | 1 (25.4)     | 13⁄32 (10.3) | 1⁄4 (6.4)  |
| 201 – 400             | 3        | 227⁄32 (72.2)          | 421⁄32 (118.3) | 427⁄32 (123.0) | 6¼ (158.8)     | 2 (50.8)      | 15⁄8 (41.3)  | 9⁄16 (14.3)  | 1⁄4 (6.4)  |
| 401 – 800             | 3        | 227⁄32 (72.2)          | 421⁄32 (118.3) | 511⁄32 (135.7) | 6¼ (158.8)     | 2½ (63.5)     | 2 (50.8)     | 9⁄16 (14.3)  | 3⁄8 (9.5)  |



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