

## NLN/NLS Class K5 Fuses

250/600 VAC • "One-Time" • 1 – 600 Amperes



NLN and NLS series fuses provide low cost protection for general purpose feeder and branch circuits when available short-circuit currents are less than 50,000 amperes. They replace all Class H fuses which have only a 10,000 ampere interrupting rating. They are suitable for use in many residential and smaller commercial and industrial applications.

NLKP series fuses are Canadian "Code" fuses specifically designed to meet Canadian Electrical Code Type P fuse requirements for residential use. They have a 10,000 ampere interrupting rating.

However, to obtain the added benefits of time-delay, current-limitation, and higher interrupting rating, consider the use of POWR-PRO® FLNR\_ID and FLNR\_ID Indicator® fuses for circuits up to 600 volts. The user gets all the benefits of time-delay RK5 fuses plus the added benefits of an indicating fuse that shows when it has opened. Complete information on these fuses may be found in the POWR-PRO fuse section of this catalog. For circuits up to 250 volts, see FLNR fuses in this section of the catalog.

### Applications

General purpose residential and commercial circuits with little or no motor load.  
Resistive heating loads.

### Economical

- For use in applications where lowest initial cost is the major consideration.

### Safety

- 50,000 A.I.R., Class K5 — Adequate interrupting capacity for residences and many smaller facilities.

*NOTE: NLKP series fuses have limited interrupting rating and should be used only where available short-circuit current is known to be less than the fuse interrupting rating. Where available fault current is unknown, where it exceeds NLN/NLS interrupting rating, or where it may increase in the future, 200,000 ampere interrupting rating Littelfuse POWR-PRO FLNR\_ID/FLSR\_ID Indicator fuses and FLNR/FLSR series fuses provide superior protection for all motor and general purpose circuits containing inductive loads.*

### Specifications

|                              |                                  |                                          |
|------------------------------|----------------------------------|------------------------------------------|
| <b>Voltage Ratings:</b>      | AC:                              | 250 Volts (NLN, NLKP)                    |
|                              |                                  | 600 Volts (NLS)                          |
|                              | DC:                              | 250 Volts (NLN)                          |
|                              |                                  | 400 Volts (NLS 35 – 60A)                 |
|                              |                                  | 500 Volts (NLS 8 – 30A)                  |
|                              |                                  | 600 Volts (NLS 225 – 600A)               |
| <b>Interrupting Ratings:</b> |                                  | 600 Volts (NLS 1 – 7A)                   |
|                              |                                  | (NLS 70 – 200A)                          |
|                              | AC:                              | 50,000 amperes rms symmetrical (NLN/NLS) |
|                              |                                  | 10,000 amperes (NLKP)                    |
|                              | DC:                              | 20,000 amperes (NLN/NLS 1 – 60A)         |
|                              |                                  | 50,000 amperes (NLN/NLS 70 – 600A)       |
| <b>Ampere Range:</b>         |                                  | 1– 600 amperes (NLN/NLS)                 |
|                              |                                  | 15 – 60 amperes (NLKP)                   |
| <b>Approvals:</b>            | NLN/NLS:                         | Standard 248-9, Class K5                 |
|                              |                                  | UL Listed (File No: E81895)              |
|                              |                                  | CSA Certified (File No: LR29862)**       |
|                              |                                  | <b>**Excludes NLN 15-60A</b>             |
|                              | NLKP:                            | Standard 248-6, Class H                  |
|                              |                                  | UL Listed (File No: E81895)              |
|                              | CSA Certified (File No: LR29865) |                                          |
|                              |                                  | Meets CSA "Type P" requirements          |

### Ampere Ratings

|   |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|
| 1 | 7   | *25 | *60 | 125 | 300 |
| 2 | 8   | *30 | 70  | 150 | 350 |
| 3 | 10  | *35 | 80  | 175 | 400 |
| 4 | 12  | *40 | 90  | 200 | 450 |
| 5 | *15 | *45 | 100 | 225 | 500 |
| 6 | *20 | *50 | 110 | 250 | 600 |

\* NLKP series available only in those amperages preceded by an asterisk.  
Example part number (series & amperage): NLS 125

### Recommended Fuse Blocks

LH250 series (for NLN and NLKP series fuses)  
LH600 series (for NLS series fuses)  
Refer to the Blocks & Holders section of this catalog for additional information.

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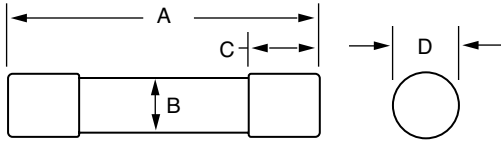


FIG. 1

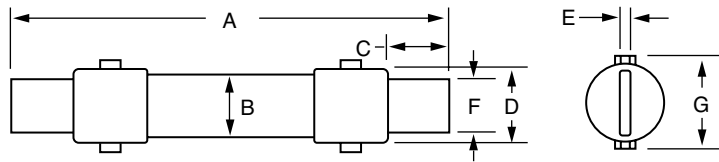


FIG. 2

| Amperes   | Refer to Fig. No. | Series      | Dimensions In Inches (mm in parentheses) |           |            |              |            |           |           |
|-----------|-------------------|-------------|------------------------------------------|-----------|------------|--------------|------------|-----------|-----------|
|           |                   |             | A                                        | B         | C          | D            | E          | F         | G         |
| 1 – 30    | 1                 | NLN<br>NLKP | 2 (50.8)                                 | ½ (12.7)  | ½ (12.7)   | 9/16 (14.3)  | —          | —         | —         |
|           |                   | NLS         | 5 (127.0)                                | ¾ (19.1)  | 5/8 (15.9) | 13/16 (20.6) | —          | —         | —         |
| 35 – 60   | 1                 | NLN<br>NLKP | 3 (76.2)                                 | ¾ (19.1)  | 5/8 (15.9) | 13/16 (20.6) | —          | —         | —         |
|           |                   | NLS         | 5½ (139.7)                               | 1 (25.4)  | 5/8 (15.9) | 1½ (38.1)    | —          | —         | —         |
| 70 – 100  | 2                 | NLN         | 5⅞ (149.2)                               | 1 (25.4)  | 1 (25.4)   | 1½ (38.1)    | ⅛ (3.2)    | ¾ (19.1)  | 1½ (38.1) |
|           |                   | NLS         | 7⅞ (200.0)                               | 1¼ (31.8) | 1 (25.4)   | 1½ (38.1)    | ⅛ (3.2)    | ¾ (19.1)  | 1½ (38.1) |
| 110 – 200 | 2                 | NLN         | 7⅞ (181.0)                               | 1½ (38.1) | 1½ (38.1)  | 1½ (38.1)    | 3/16 (4.8) | 1½ (38.1) | 1½ (38.1) |
|           |                   | NLS         | 9⅞ (244.5)                               | 1¾ (44.5) | 1½ (38.1)  | 1¾ (44.5)    | 3/16 (4.8) | 1½ (38.1) | 2⅞ (53.2) |
| 225 – 400 | 2                 | NLN         | 8⅞ (219.1)                               | 2 (50.8)  | 1½ (38.1)  | 2⅞ (53.2)    | ¼ (6.4)    | 1½ (38.1) | 2⅞ (53.2) |
|           |                   | NLS         | 11⅞ (295.3)                              | 2½ (63.5) | 1½ (38.1)  | 2⅞ (53.2)    | ¼ (6.4)    | 1½ (38.1) | 2⅞ (53.2) |
| 450 – 600 | 2                 | NLN         | 10⅞ (263.5)                              | 2½ (63.5) | 2¼ (57.2)  | 2⅞ (53.2)    | ¼ (6.4)    | 2 (50.8)  | 2⅞ (53.2) |
|           |                   | NLS         | 13⅞ (339.7)                              | 3 (76.2)  | 2¼ (57.2)  | 3⅞ (78.6)    | ¼ (6.4)    | 2 (50.8)  | 3⅞ (78.6) |

