

CLASS CC KLDR SERIES FUSES

600 VAC • 300 VDC • Time-Delay • 1/10-30 A



Description

KLDR fuses are time-delay fuses designed to protect control transformers, solenoids and similar inductive components with high magnetizing currents during the first half-cycle. They provide excellent protection of motor branch circuits containing IEC or NEMA rated motor controllers or contactors.

Features/Benefits

- Meets UL and CSA standards
- Class CC fuses are the smallest 600 V, 200,000 A.I.R. fuses approved for branch circuit protection
- Rejection feature prevents use of fuses with lower interrupting ratings or voltage ratings when used with corresponding fuse holders
- Extremely current limiting reduces damage caused by heating and magnetic effects of short-circuit currents

Applications

- Transformer Protection

Specifications

| | |
|----------------------------|--|
| Voltage Rating | AC: 600 V DC: 300 V |
| Amperage Rating | 1/10 – 30 A |
| Interrupting Rating | AC: 200 kA rms symmetrical DC: 20 kA |
| Material | Body: Melamine Caps: Nickel-plated Bronze |
| Fuse Weight | .019 lb (8.62g) |
| Approvals | AC: Standard 248-4, Class CC UL Listed 1/10-30 A (File: E81895) CSA Certified 1/10-30 A (File: LR29862) DC: Littelfuse self-certified |
| Environmental | RoHS Compliant |
| Country of Origin | Mexico |

Ordering Information

| AMPERAGE RATINGS | | | | |
|------------------|--------|--------|--------|--------|
| 1/10 | 6/10 | 1 8/10 | 4 1/2 | 10 |
| 1/8 | 3/4 | 2 | 5 | 12 |
| 15/100 | 8/10 | 2 1/4 | 5 6/10 | 15 |
| 3/16 | 1 | 2 1/2 | 6 | 17 1/2 |
| 2/10 | 1 1/8 | 2 8/10 | 6 1/4 | 20 |
| 1/4 | 1 1/4 | 3 | 7 | 25 |
| 3/10 | 1 4/10 | 3 2/10 | 7 1/2 | 30 |
| 4/10 | 1 1/2 | 3 1/2 | 8 | — |
| 1/2 | 1 9/10 | 4 | 9 | — |

| AMPERAGE | PART NUMBER | ORDERING NUMBER |
|----------|-------------|-----------------|
| 10 | KLDR 10 | KLDR010.TXP |

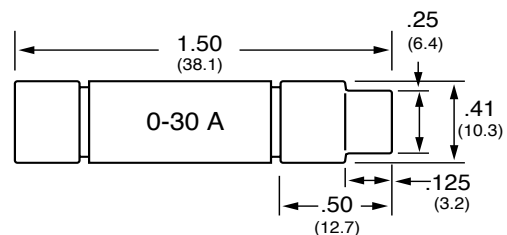
Web Resources

For additional informations, visit:
Littelfuse.com/kldr

Recommended Fuse Holders

L60030C Series
LPSC Touch-Safe Series

Dimensions Inches (mm)



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Electrical Specifications

| ORDERING NUMBER | AMPERAGE RATING | VOLTAGE RATING | | INTERRUPTING RATING | | UPC | WATTS LOSS AT 100% RATED CURRENT (W) | WATTS LOSS AT 80% RATED CURRENT (W) | TOTAL CLEARING I ² T (A ² SEC) 200 kA | AGENCY APPROVALS | | |
|-----------------|-----------------|----------------|-----|---------------------|-------|-------------|--------------------------------------|-------------------------------------|---|------------------|-----|------|
| | | AC | DC | AC | DC | | | | | UL | CSA | RoHS |
| KLDR01.6TXP | 1-6/10 | 600 | 300 | 200 kA | 20 kA | 07945879252 | 3.56 | 1.40 | 10 | • | • | • |
| KLDR004.TXP | 4 | 600 | 300 | 200 kA | 20 kA | 07945879261 | 1.88 | 1.10 | 40 | • | • | • |
| KLDR07.5TXP | 7-½ | 600 | 300 | 200 kA | 20 kA | 07945879268 | 1.68 | 0.94 | 1460 | • | • | • |
| KLDR020.TXP | 20 | 600 | 300 | 200 kA | 20 kA | 07945879275 | 2.30 | 1.39 | 1700 | • | • | • |
| KLDR030.TXP | 30 | 600 | 300 | 200 kA | 20 kA | 07945879277 | 2.75 | 1.62 | 1790 | • | • | • |

Current-Limiting Effects

| SHORT CIRCUIT CURRENT* | APPARENT RMS SYMMETRICAL CURRENT FOR VARIOUS FUSE RATINGS | | | |
|------------------------|---|-----|------|------|
| | 4 A | 6 A | 20 A | 30 A |
| 5,000 | 315 | 366 | 535 | 750 |
| 10,000 | 355 | 422 | 635 | 875 |
| 15,000 | 380 | 453 | 700 | 950 |
| 20,000 | 395 | 478 | 735 | 1000 |
| 25,000 | 405 | 492 | 800 | 1050 |
| 30,000 | 415 | 505 | 815 | 1125 |
| 35,000 | 420 | 515 | 840 | 1175 |
| 40,000 | 427 | 520 | 860 | 1200 |
| 50,000 | 438 | 538 | 910 | 1300 |
| 60,000 | 440 | 545 | 950 | 1350 |
| 80,000 | 455 | 555 | 1010 | 1400 |
| 100,000 | 460 | 575 | 1075 | 1500 |
| 150,000 | 470 | 600 | 1150 | 1600 |
| 200,000 | 478 | 620 | 1250 | 1750 |

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

Peak Let-Thru Curve

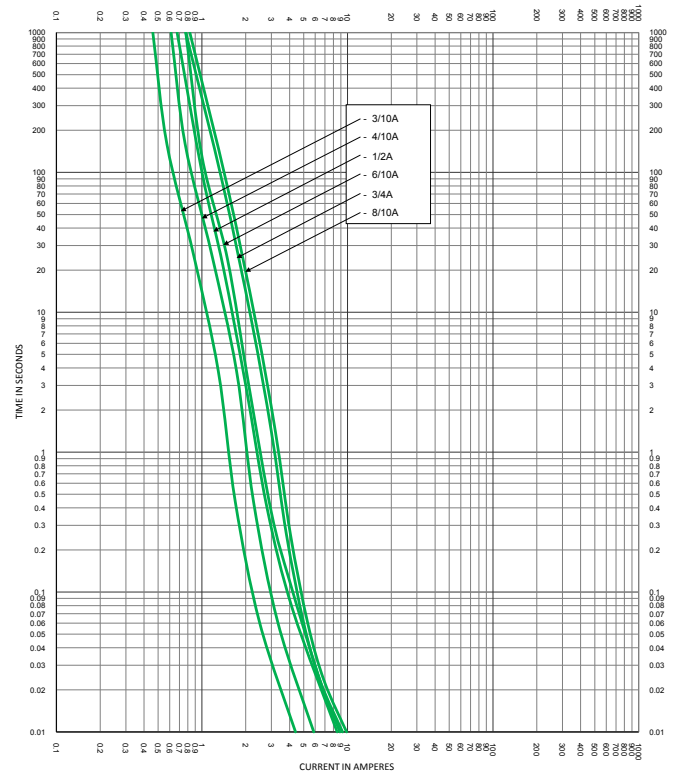
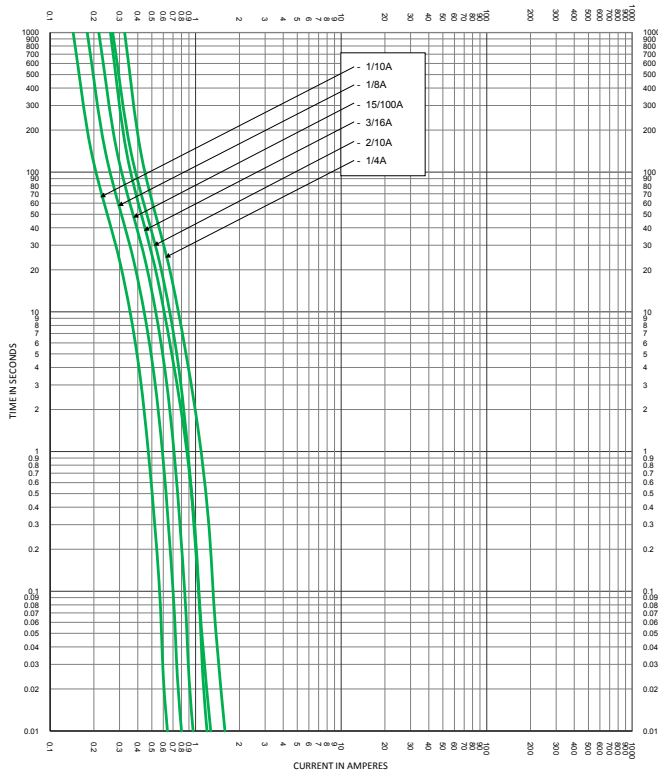


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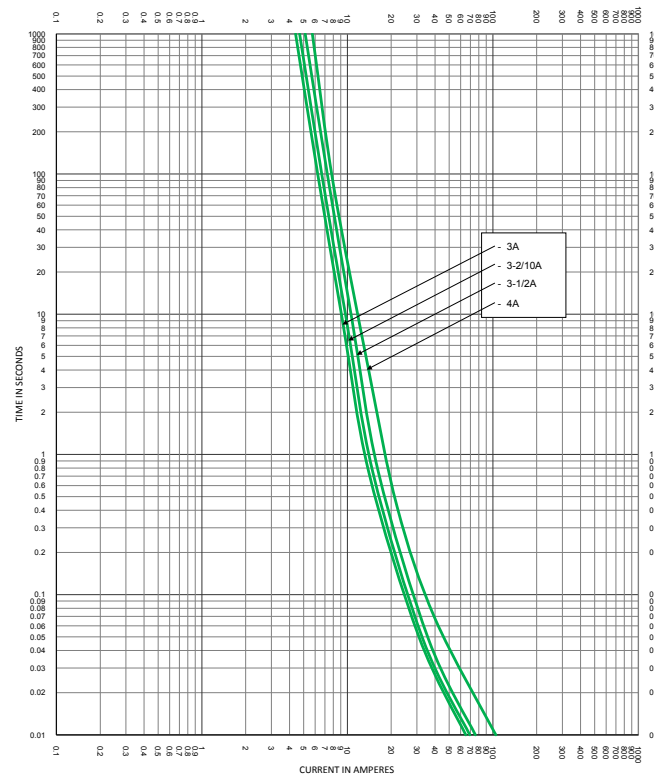
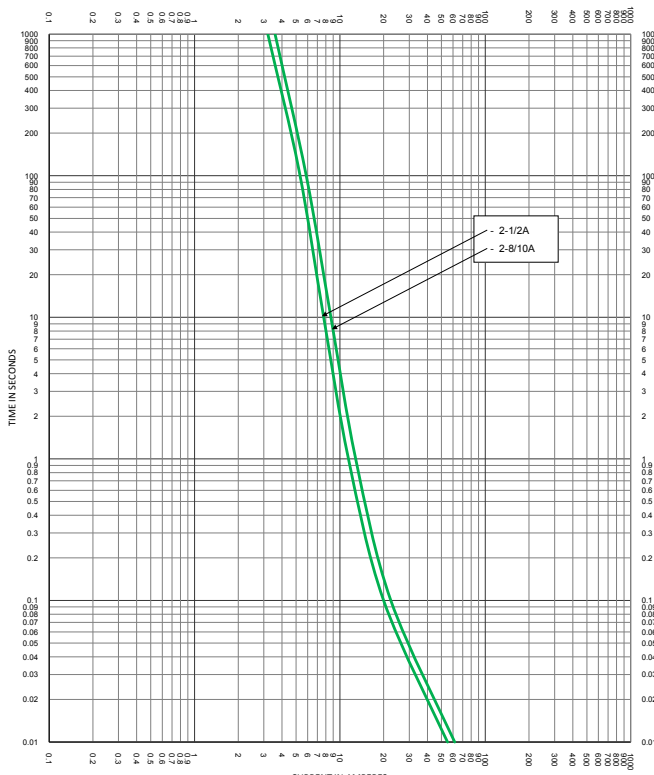
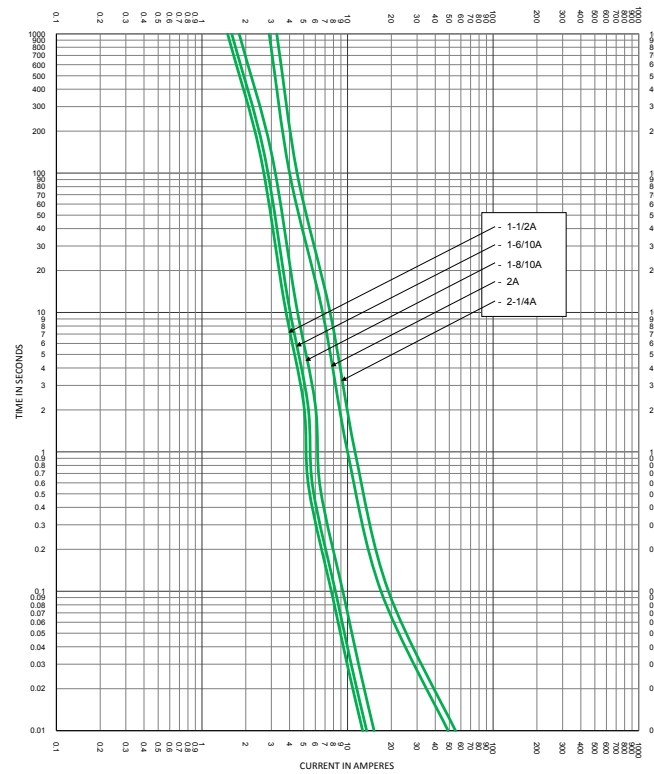
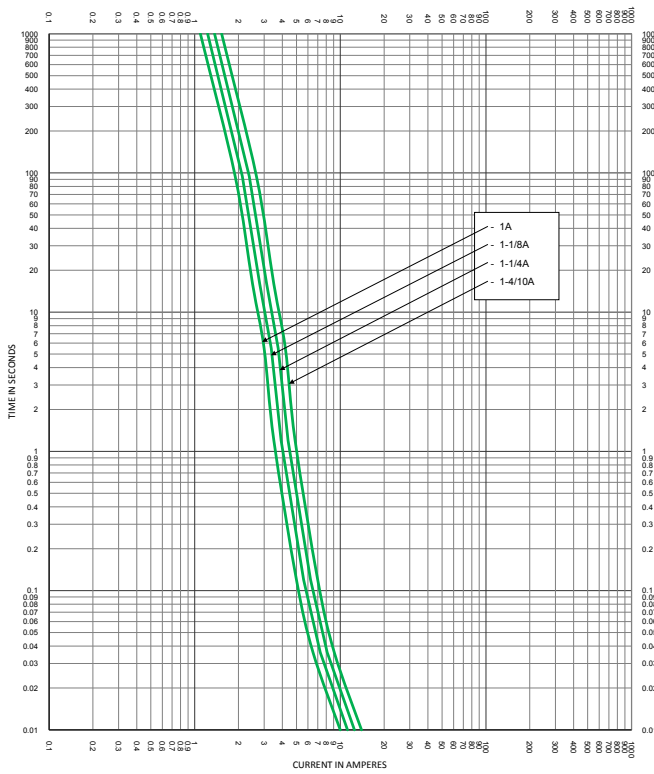
Temperature Derating Curve (Temperature of Air Immediately Surrounding Fuse)



Time Current Curves



Time Current Curves



Time Current Curves

