

## LP-CC — 600Vac/300Vdc, ½-30A Time-Delay Fuses



**Description:** Ultimate protection Class CC current-limiting, time-delay fuses. Time-delay – 12 seconds (minimum) at 200% of rated current.

**Catalog Symbol:** LP-CC-(amp)

### Ratings:

- Volts — 600Vac,
- 300Vdc (½-2½A, 20-30A)
- 150Vdc (3-15A)
- Amps — ½-30A
- IR — 200kA Vac RMS Sym.
- 20kA Vdc

### Agency Information:

CE, Std. 248-4, Class CC, UL Listed, Guide JDDZ, File E4273  
CSA Certified; Class 1422-02, File 53787

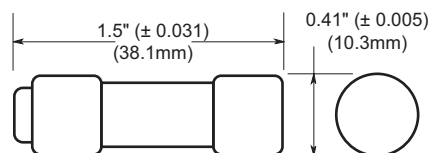
### Catalog Numbers (amps)

|          |          |          |          |          |
|----------|----------|----------|----------|----------|
| LP-CC-½  | LP-CC-1½ | LP-CC-3  | LP-CC-6  | LP-CC-12 |
| LP-CC-¼  | LP-CC-1¼ | LP-CC-3¼ | LP-CC-6¼ | LP-CC-15 |
| LP-CC-⅓  | LP-CC-1⅓ | LP-CC-3½ | LP-CC-7  | LP-CC-20 |
| LP-CC-1  | LP-CC-2  | LP-CC-4  | LP-CC-7½ | LP-CC-25 |
| LP-CC-1½ | LP-CC-2½ | LP-CC-4½ | LP-CC-8  | LP-CC-30 |
| LP-CC-1¼ | LP-CC-2¼ | LP-CC-5  | LP-CC-9  |          |
| LP-CC-1⅓ | LP-CC-2⅓ | LP-CC-5½ | LP-CC-10 |          |

### Carton Quantity:

| Amp Rating | Carton Qty. |
|------------|-------------|
| 0-30       | 10          |

### Dimensions - in (mm)



### Features:

- 200kA interrupting rating complies with NEC® Section 110.9 for today's large capacity systems.
- Fast short-circuit protection and dual-element, time-delay performance provide ultimate protection.
- Reduces existing fuse inventory by up to 33% when upgrading to Low-Peak fuses.
- Consistent 2:1 ampacity ratios for all Low-Peak fuses make selective coordination easy.
- Time-delay characteristic avoids unwanted fuse openings from surge currents while fast response speed under short-circuit conditions provides a high degree of current limitation.
- Current-limitation protects downstream components against damaging thermal and magnetic effects of short-circuit currents.
- A superior, all-purpose, space-saving branch circuit fuse that meets most protection requirements up to 30A.
- Very compact, with a physical size only 1½" x 1½" (10.3 x 38.1mm) with rejection tip.
- Proper sizing can provide "no damage" Type 2 coordinated protection for NEMA and IEC motor controllers.
- Can be used where either a time-delay or a fast-acting fuse is needed, making selection easier and reducing spare fuse inventories for substantial cost reduction.
- Superior protection for small horsepower motor circuits.

### Recommended Fuse Blocks and Holders

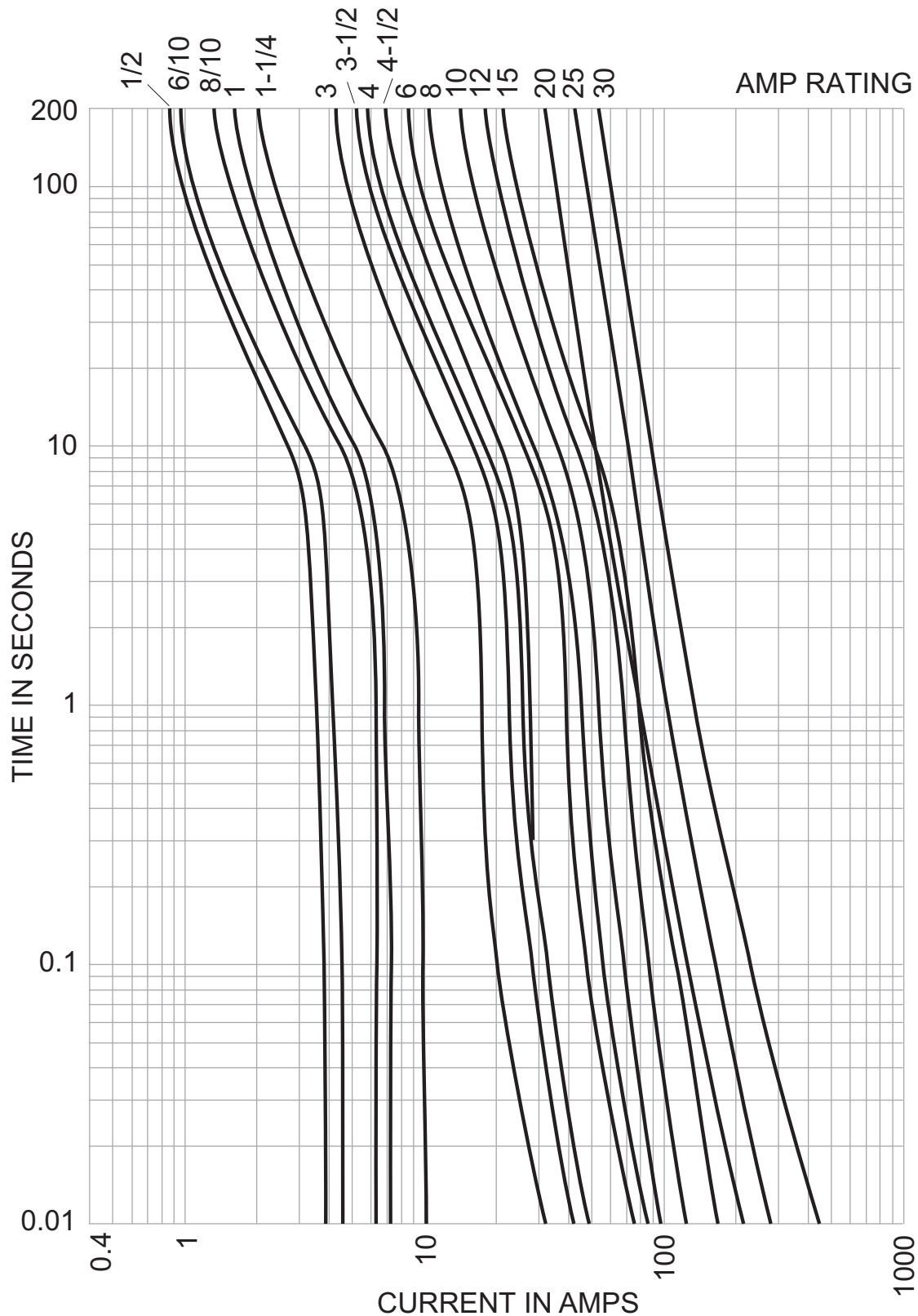
| Fuse Amps                  | 1-Pole  | 2-Pole  | 3-Pole      |
|----------------------------|---------|---------|-------------|
| <b>Open Blocks</b>         |         |         |             |
| 0-30                       | BC6031_ | BC6032_ | BC6033_     |
| <b>DIN-Rail Holders</b>    |         |         |             |
|                            | CHCC1D_ | CHCC2D_ | CHCC3D_     |
| 0-30                       | —       | —       | OPM-NG_     |
|                            | —       | —       | OPM-1038_   |
|                            | —       | —       | OPM-1038_SW |
| <b>Panel Mount Holders</b> |         |         |             |
| 0-30                       | HPS     | —       | —           |
|                            | HPF     | —       | —           |
| <b>In-Line Holders</b>     |         |         |             |
| 0-30                       | —       | HEY     | —           |
|                            | HEZ     | —       | —           |

For additional information on the Class CC fuse blocks and holders, see data sheets:

- Open Blocks # 1105 (BC Series)
- DIN-Rail Holders # 3185 (CHCC), # 1109 (OPM), # 1102 (OPM-1038), 1103 (OPM-1038\_SW),
- Panel Mount Holders # 2113 (HPS), # 2114 (HPF)
- In-Line Holders # 2126 (HEY), # 2130 (HEZ)

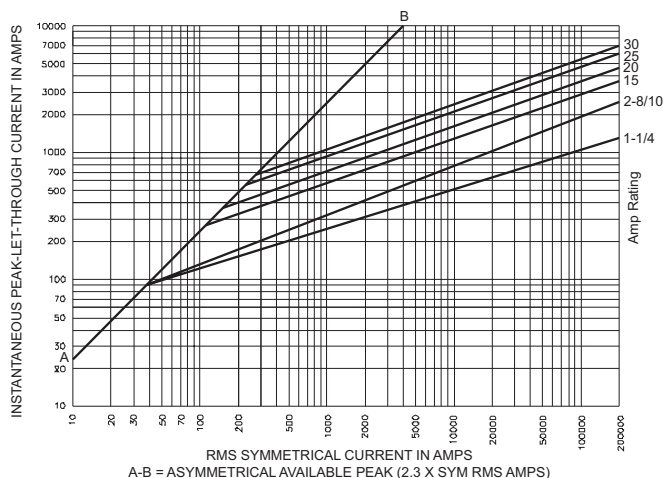
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Time-Current Curves - Average Melt



## LP-CC — 600Vac/300Vdc, ½-30A Time-Delay Fuses

### Current-Limitation Curves



### Current-Limiting Effects

| Prosp.<br>S.C.C. | Let-Through Current<br>(Apparent RMS Symmetrical Vs. Fuse Rating) |      |      |      |      |      |
|------------------|-------------------------------------------------------------------|------|------|------|------|------|
| —                | 1¼A                                                               | 2½A  | 15A  | 20A  | 25A  | 30A  |
| 1000             | 100                                                               | 135  | 240  | 305  | 380  | 435  |
| 3000             | 140                                                               | 210  | 350  | 440  | 575  | 580  |
| 5000             | 165                                                               | 255  | 420  | 570  | 690  | 710  |
| 10,000           | 210                                                               | 340  | 540  | 700  | 870  | 1000 |
| 20,000           | 260                                                               | 435  | 680  | 870  | 1090 | 1305 |
| 30,000           | 290                                                               | 525  | 800  | 1030 | 1300 | 1520 |
| 40,000           | 315                                                               | 610  | 870  | 1150 | 1390 | 1700 |
| 50,000           | 340                                                               | 650  | 915  | 1215 | 1520 | 1820 |
| 60,000           | 350                                                               | 735  | 1050 | 1300 | 1650 | 1980 |
| 80,000           | 390                                                               | 785  | 1130 | 1500 | 1780 | 2180 |
| 100,000          | 420                                                               | 830  | 1210 | 1600 | 2000 | 2400 |
| 200,000          | 525                                                               | 1100 | 1600 | 2000 | 2520 | 3050 |

**NOTE:** To calculate  $I_p$  ( $I_{peak}$ ) multiply  $I_{RMS}$  value by 2.3.

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