

# 1000Vdc XL Style Photovoltaic Fuses

## 63 to 630 Amps, 01XL, 1XL, 2XL and 3L Body Sizes

RoHS



01XL, 1XL, 2XL and 3L Sizes

**Catalogue Symbols:** 1000Vdc Bladed: PV-(amp rating)A(size)XL  
1000Vdc Bolted: PV-(amp rating)A(size)XL-B

**Description:** A range of XL package fuse links specifically designed for protecting and isolating photo voltaic array combiners and disconnects.

These fuse links are capable of interrupting low overcurrents associated with faulted PV systems (reverse current, multi-array fault).

**Class of Operation:** gPV and UL PV fuse links

**Fuse Sizes:** 01XL, 1XL, 2XL and 3L

**Ratings:**

- Volts - 1000Vdc
- Amps - 63 to 630A:
  - IR - 50kA @ 63 to 160A
  - 33kA @ 200 to 315A
  - 50kA @ 350 to 630A

**Time Constant:** 1-3ms

**Agency Information:** - IEC 60269-6  
- RoHS compliant  
- UL 2579 (pending)  
- CCC (pending)

**Recommended Fuse Holders**

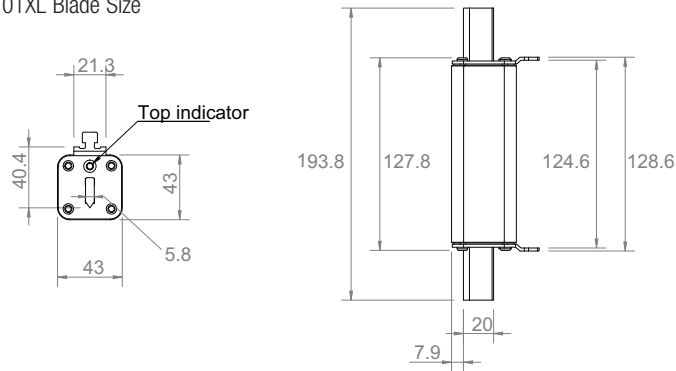
- SD1XL-S (suitable for 01 and 1XL)
- SD2XL-S (suitable for 2XL)
- SD3L-S (suitable for 3L)



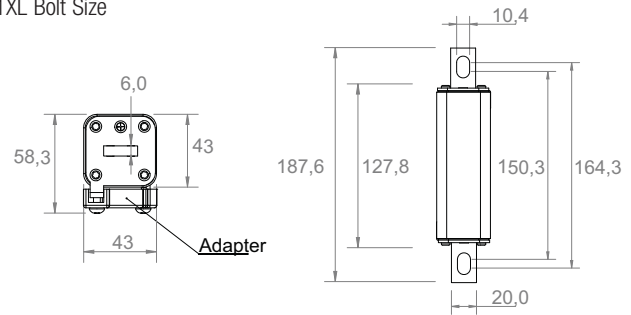
| Part Number/Style |                | Body Size | Current Rating (Amps) | Volts   | Energy Integrals I <sup>2</sup> t (A <sup>2</sup> s) |               | Watts Loss        |                |
|-------------------|----------------|-----------|-----------------------|---------|------------------------------------------------------|---------------|-------------------|----------------|
| Bladed            | Bolted         |           |                       |         | Pre-Arcing                                           | Total @ 1000V | 0.8I <sub>n</sub> | I <sub>n</sub> |
| PV-63A-01XL       | PV-63A-01XL-B  | 01        | 63                    | 1000Vdc | 350                                                  | 2520          | 12                | 24             |
| PV-80A-01XL       | PV-80A-01XL-B  |           | 80                    |         | 660                                                  | 4752          | 14                | 27             |
| PV-100A-01XL      | PV-100A-01XL-B |           | 100                   |         | 1350                                                 | 9720          | 15                | 30             |
| PV-125A-01XL      | PV-125A-01XL-B |           | 125                   |         | 1930                                                 | 13,896        | 20                | 40             |
| PV-160A-01XL      | PV-160A-01XL-B |           | 160                   |         | 3900                                                 | 28,080        | 25                | 44             |
| PV-200A-1XL       | PV-200A-1XL-B  | 1         | 200                   | 1000Vdc | 9400                                                 | 27,260        | 31                | 60             |
| PV-160A-2XL       | PV-160A-2XL-B  | 2         | 160                   | 1000Vdc | 2780                                                 | 21,000        | 25                | 44             |
| PV-200A-2XL       | PV-200A-2XL-B  |           | 200                   |         | 4152                                                 | 31,000        | 29                | 62             |
| PV-250A-2XL       | PV-250A-2XL-B  |           | 250                   |         | 7721                                                 | 57,000        | 35                | 70             |
| PV-315A-2XL       | PV-315A-2XL-B  |           | 315                   |         | 17,600                                               | 130,000       | 40                | 75             |
| PV-355A-2XL       | PV-355A-2XL-B  |           | 355                   |         | 26000                                                | 192,000       | 42                | 68             |
| PV-350A-3L        | PV-350A-3L-B   | 3         | 350                   | 1000Vdc | 30,885                                               | 160,700       | 41                | 90             |
| PV-400A-3L        | PV-400A-3L-B   |           | 400                   |         | 44,000                                               | 230,000       | 63                | 100            |
| PV-500A-3L        | PV-500A-3L-B   |           | 500                   |         | 48,300                                               | 251,200       | 71                | 138            |
| PV-630A-3L        | PV-630A-3L-B   |           | 630                   |         | 100,000                                              | 520,000       | 92                | 180            |

## Dimensions - mm (not to scale)

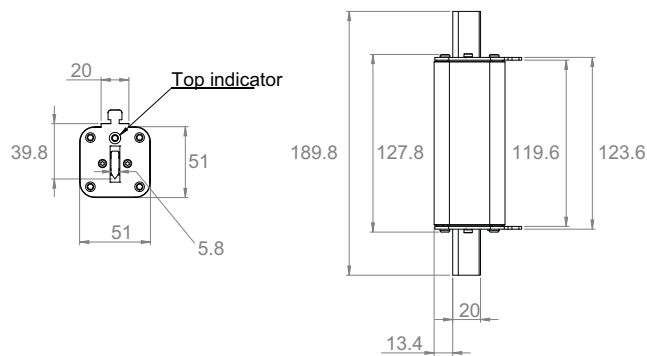
01XL Blade Size



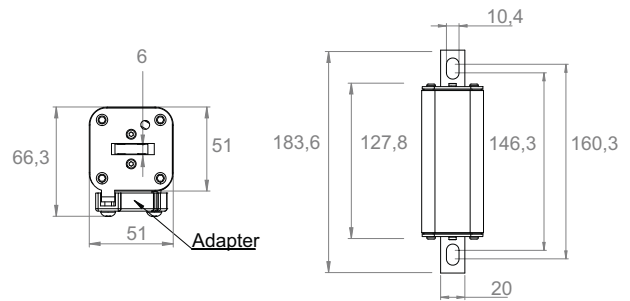
01XL Bolt Size



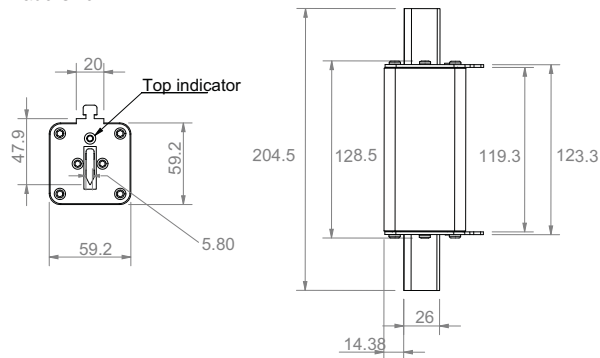
1XL Blade Size



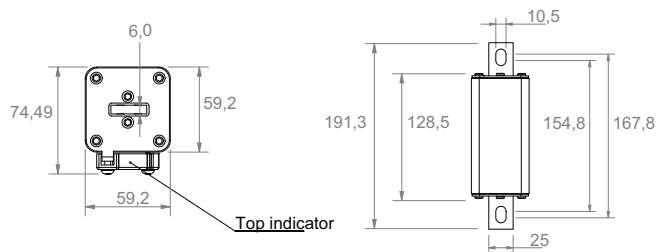
1XL Bolt Size



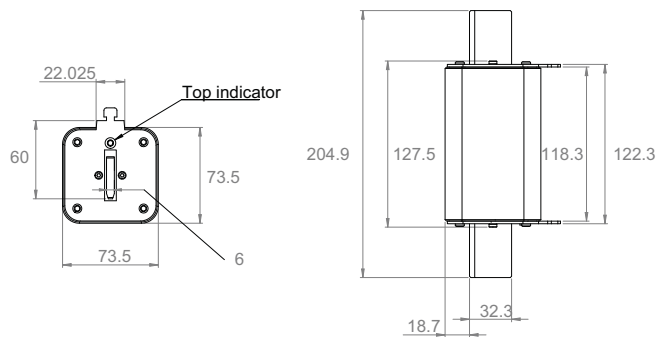
2XL Blade Size



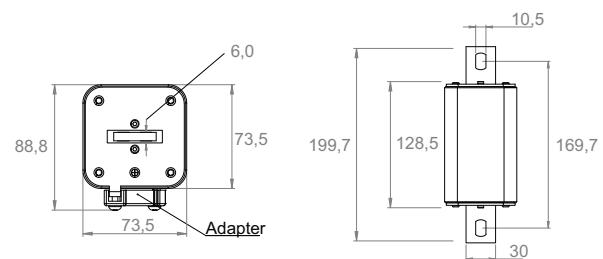
2XL Bolt Size



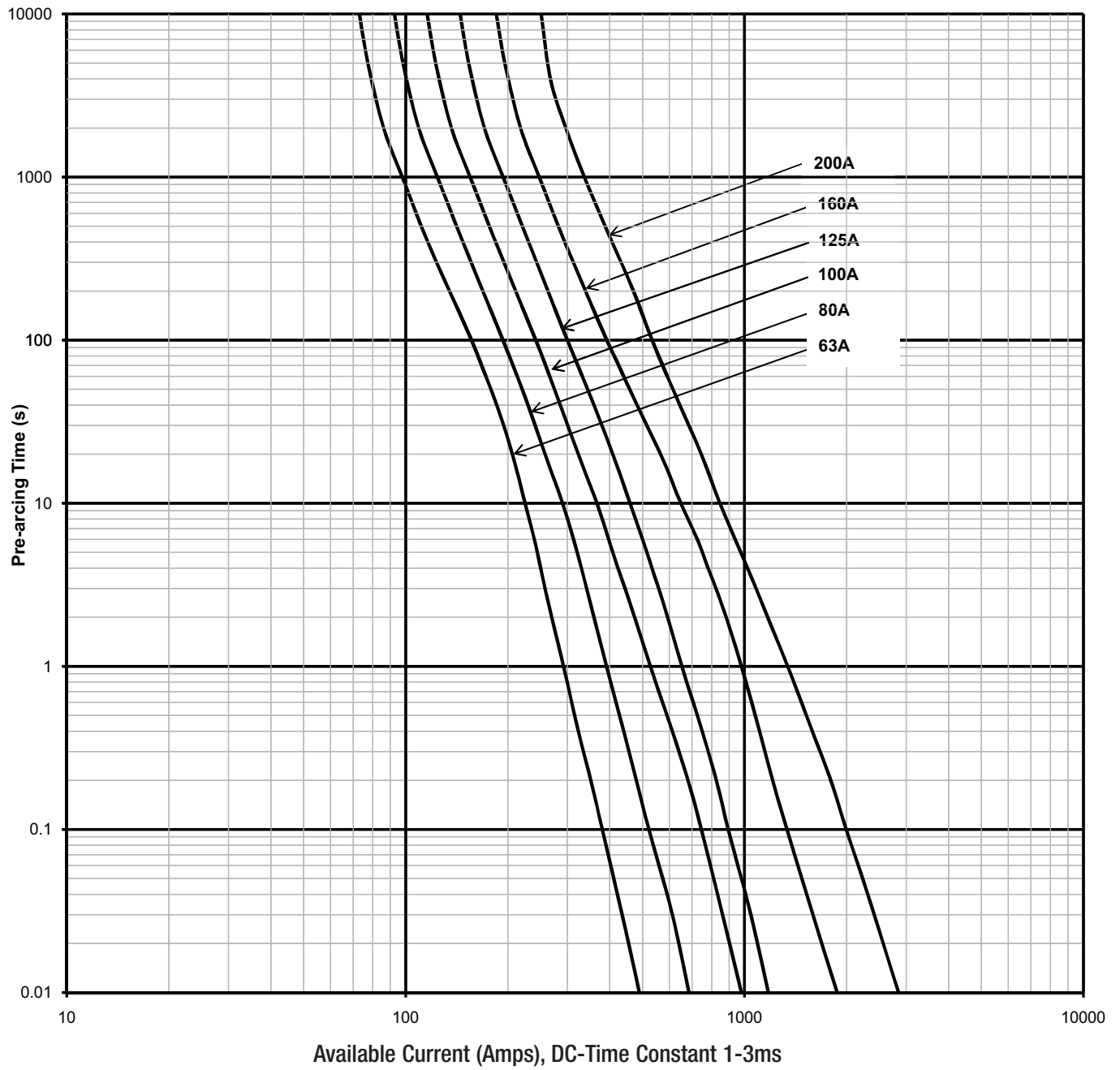
3L Blade Size



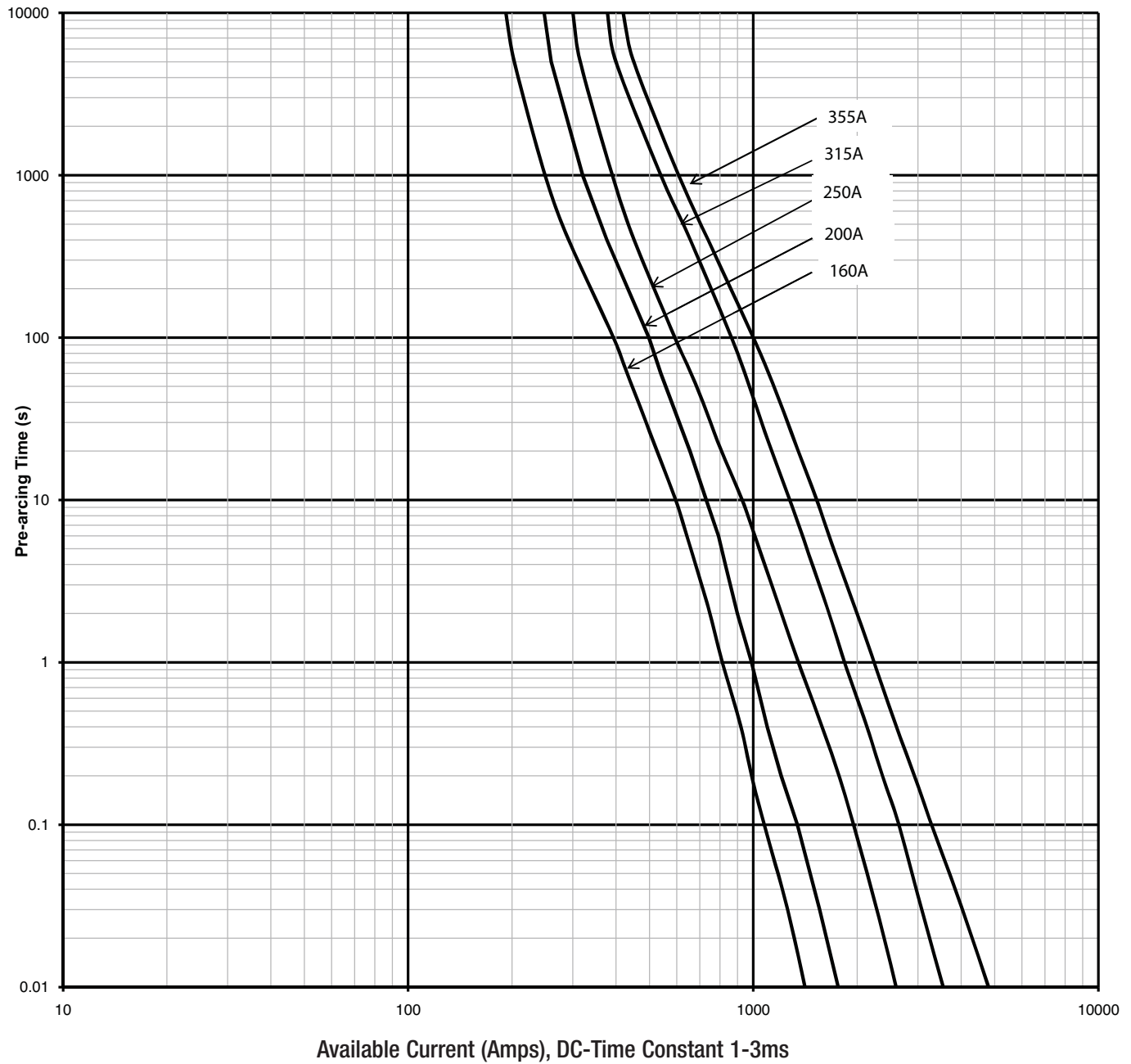
3L Bolt Size



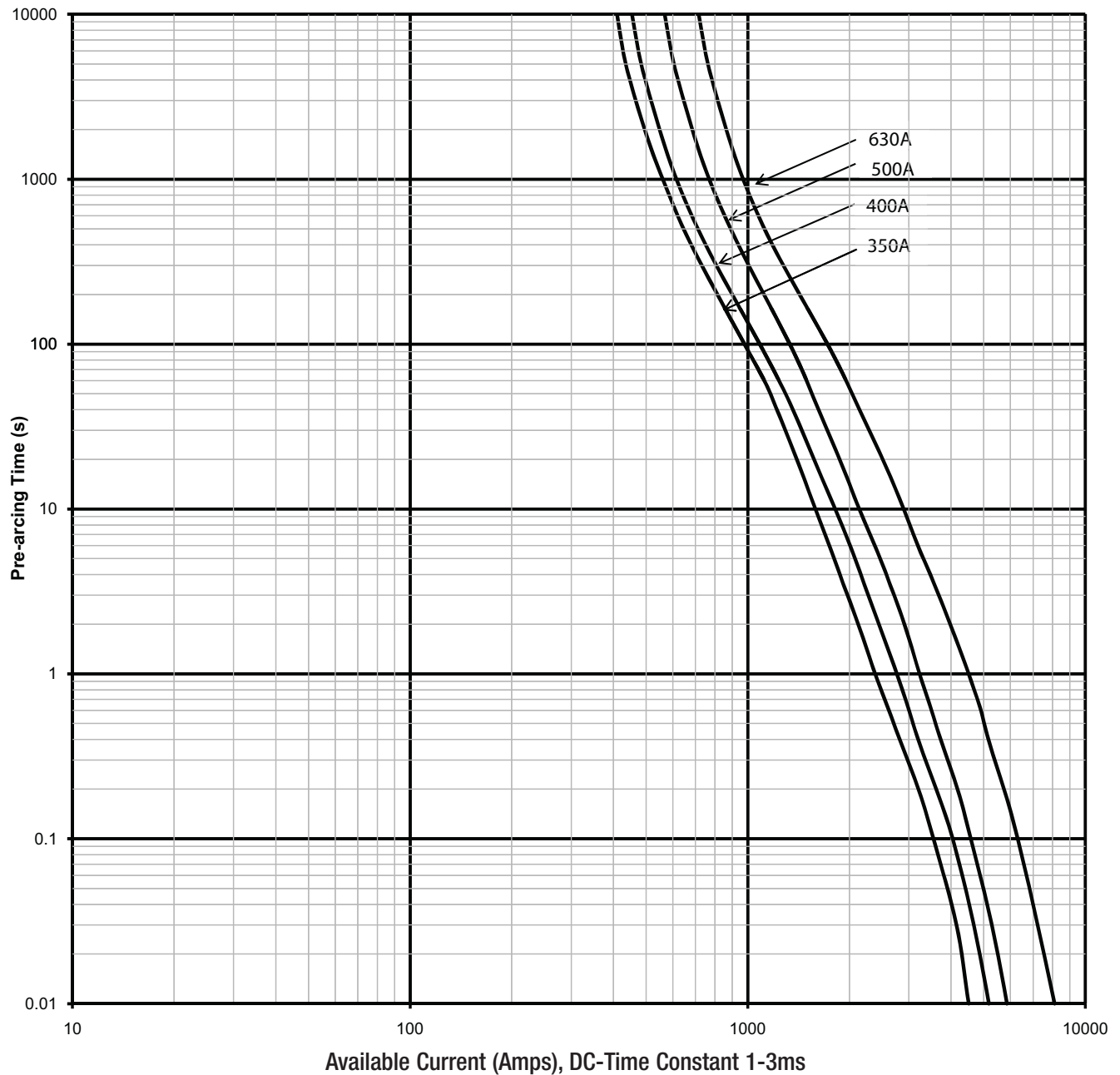
### Time Current Curves for 01XL and 1XL



## Time Current Curves for 2XL



## Time Current Curves for 3L



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