

# 1000Vdc XL Style Photovoltaic Fuses

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



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
  - CCC (pending)

**Microswitches:**

- For Bladed fuse links - Size 01XL use 170H0235 or 170H0237
- Sizes 1XL, 2XL and 3L use 170H0236 or 170H0238
- For Bolted fuse links - For all sizes use 170H0069

**Recommended Fuse Holders**

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

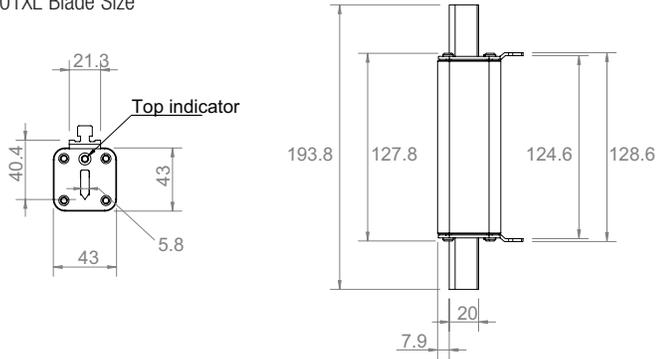


Part Number/Style		Body Size	Current Rating (Amps)	Volts	Energy Integrals I <sup>2</sup> t (A <sup>2</sup> s)		Watts Loss	
Bladed	Bolted				Pre-Arcing	Total @ 1000V	0.8I <sub>n</sub>	I <sub>n</sub>
PV-63A-01XL	PV-63A-01XL-B	01	63	1000Vdc	260	1900	13	24
PV-80A-01XL	PV-80A-01XL-B		80		490	3600	17	29
PV-100A-01XL	PV-100A-01XL-B		100		870	6300	18	32
PV-125A-01XL	PV-125A-01XL-B		125		1930	13,900	20	40
PV-160A-01XL	PV-160A-01XL-B		160		3900	28,100	22	44
PV-200A-1XL*	PV-200A-1XL-B*	1	200	1000Vdc	9400	27,260	31	54
PV-160A-2XL	PV-160A-2XL-B	2	160	1000Vdc	2780	21,000	25	44
PV-200A-2XL	PV-200A-2XL-B		200		4950	37,000	28	50
PV-250A-2XL	PV-250A-2XL-B		250		9450	70,000	34	60
PV-315A-2XL	PV-315A-2XL-B		315		16,600	123,000	40	66
PV-355A-2XL	PV-355A-2XL-B		355		26,000	192,000	42	68
PV-350A-3L	PV-350A-3L-B	3	350	1000Vdc	31,000	161,200	40	65
PV-400A-3L	PV-400A-3L-B		400		44,500	231,400	48	82
PV-500A-3L	PV-500A-3L-B		500		85,000	442,000	50	85
PV-600A-3L	PV-600A-3L-B		600		137,000	712,400	80	108
PV-630A-3L	PV-630A-3L-B		630**		137,000	712,400	92	118

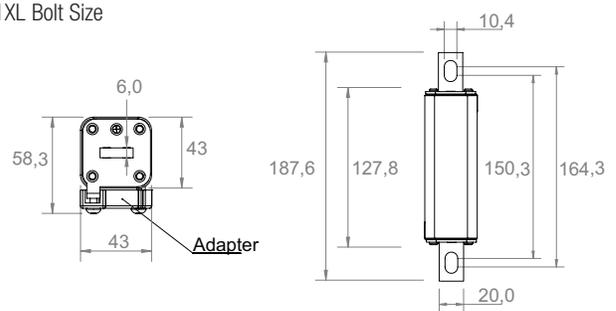
\* UL Pending, \*\* 630A Thermally rated to UL only.

**Dimensions - mm (not to scale)**

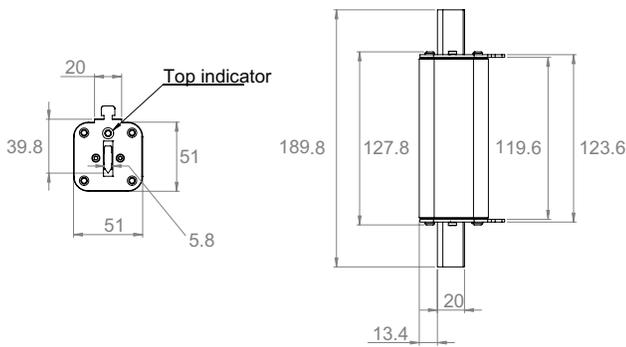
01XL Blade Size



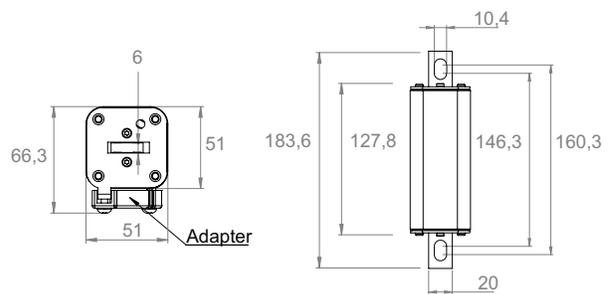
01XL Bolt Size



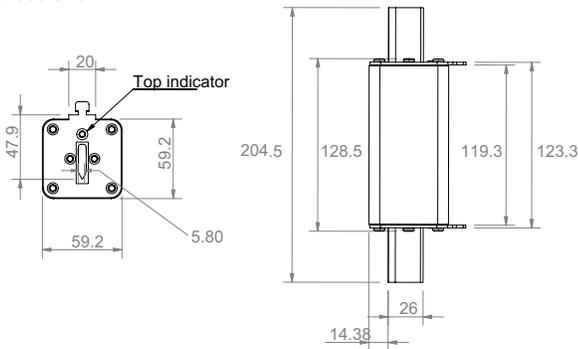
1XL Blade Size



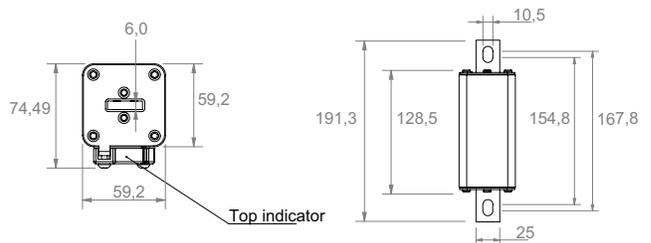
1XL Bolt Size



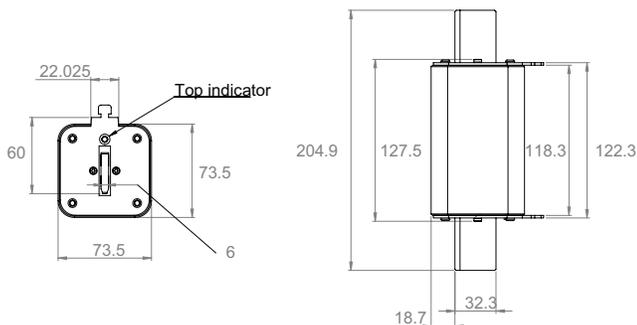
2XL Blade Size



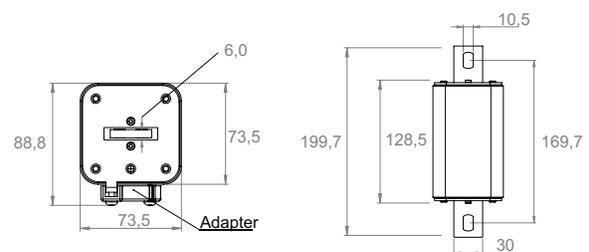
2XL Bolt Size



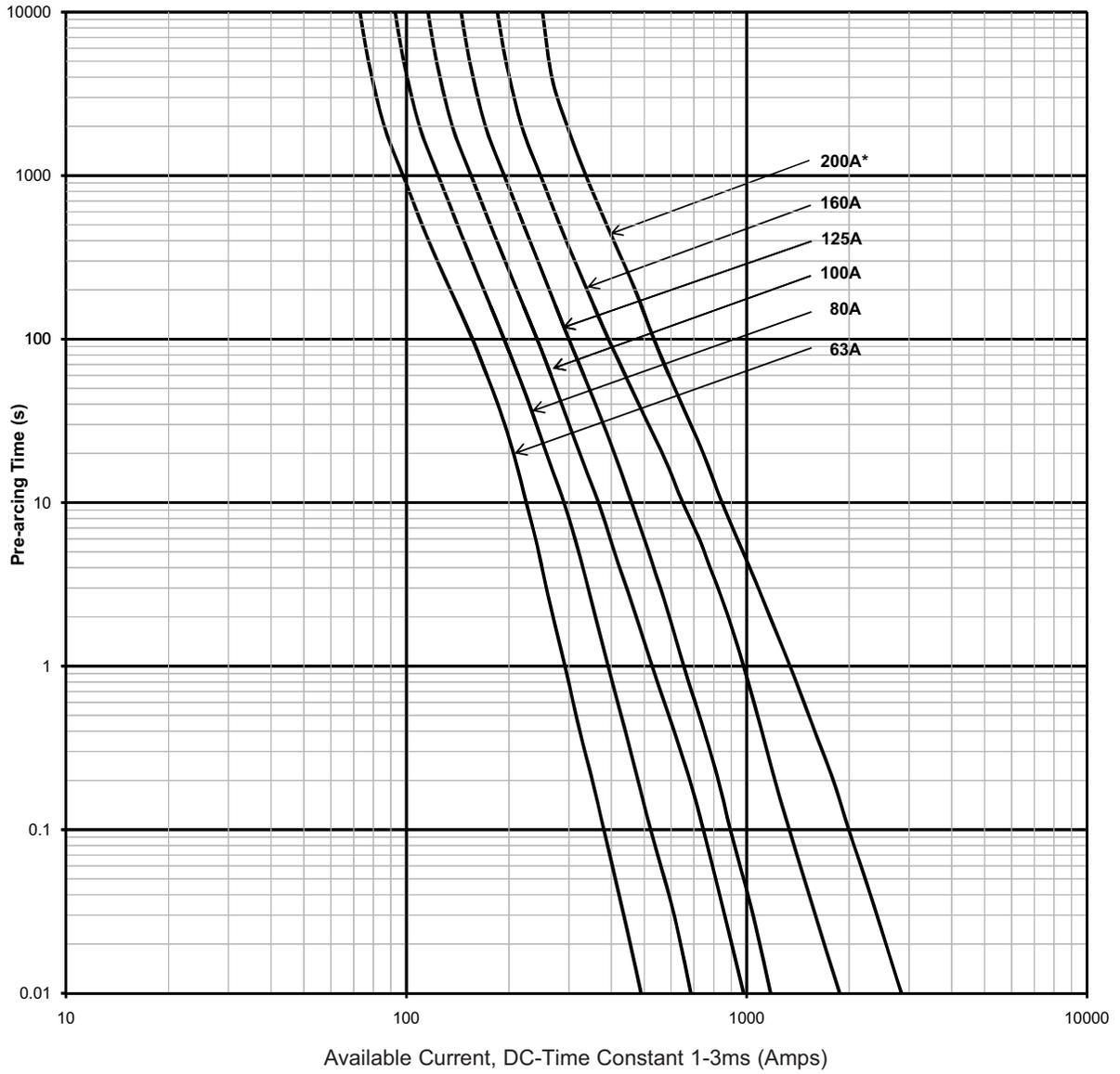
3L Blade Size



3L Bolt Size

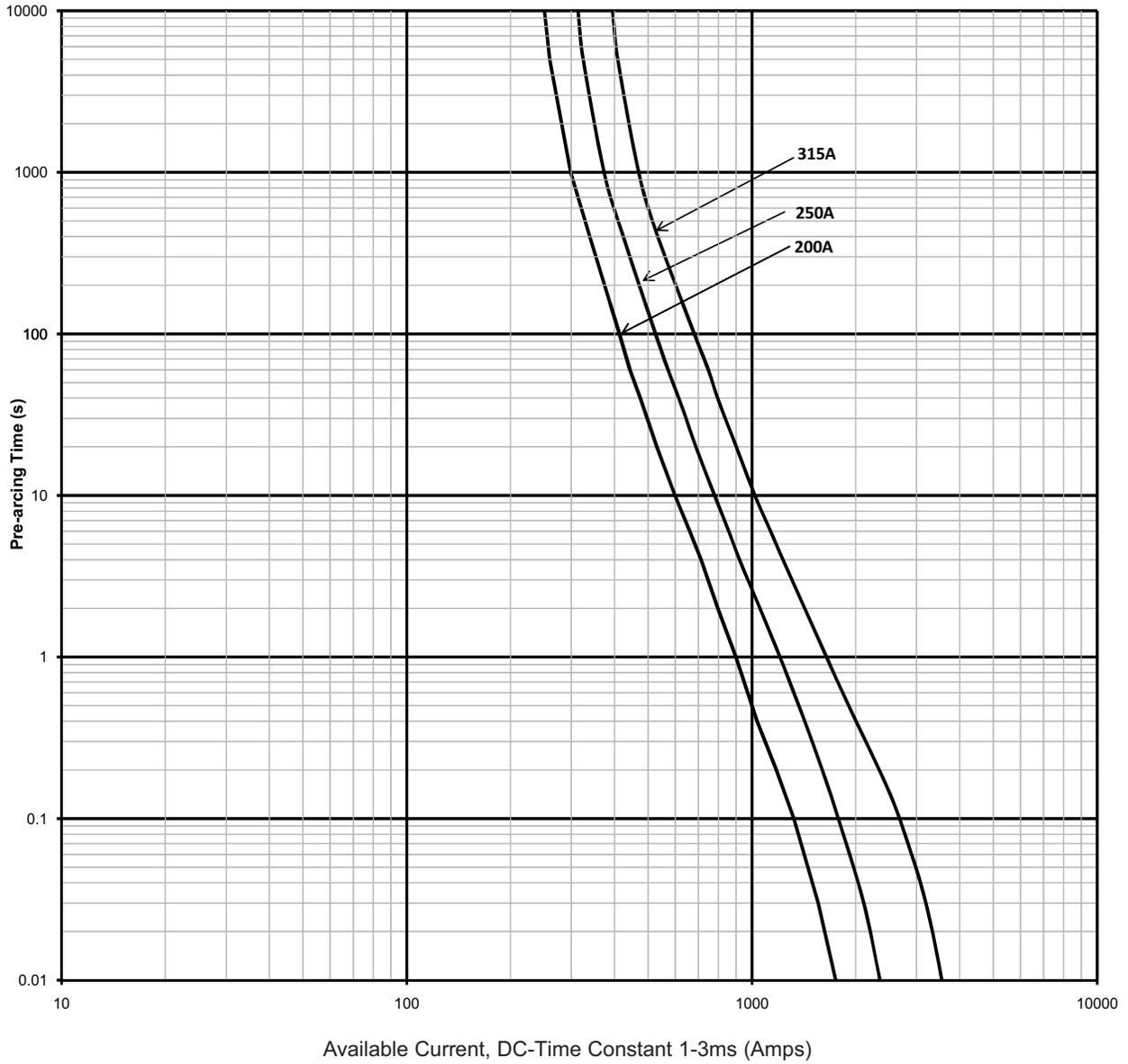


### Time Current Curves for 01XL and 1XL

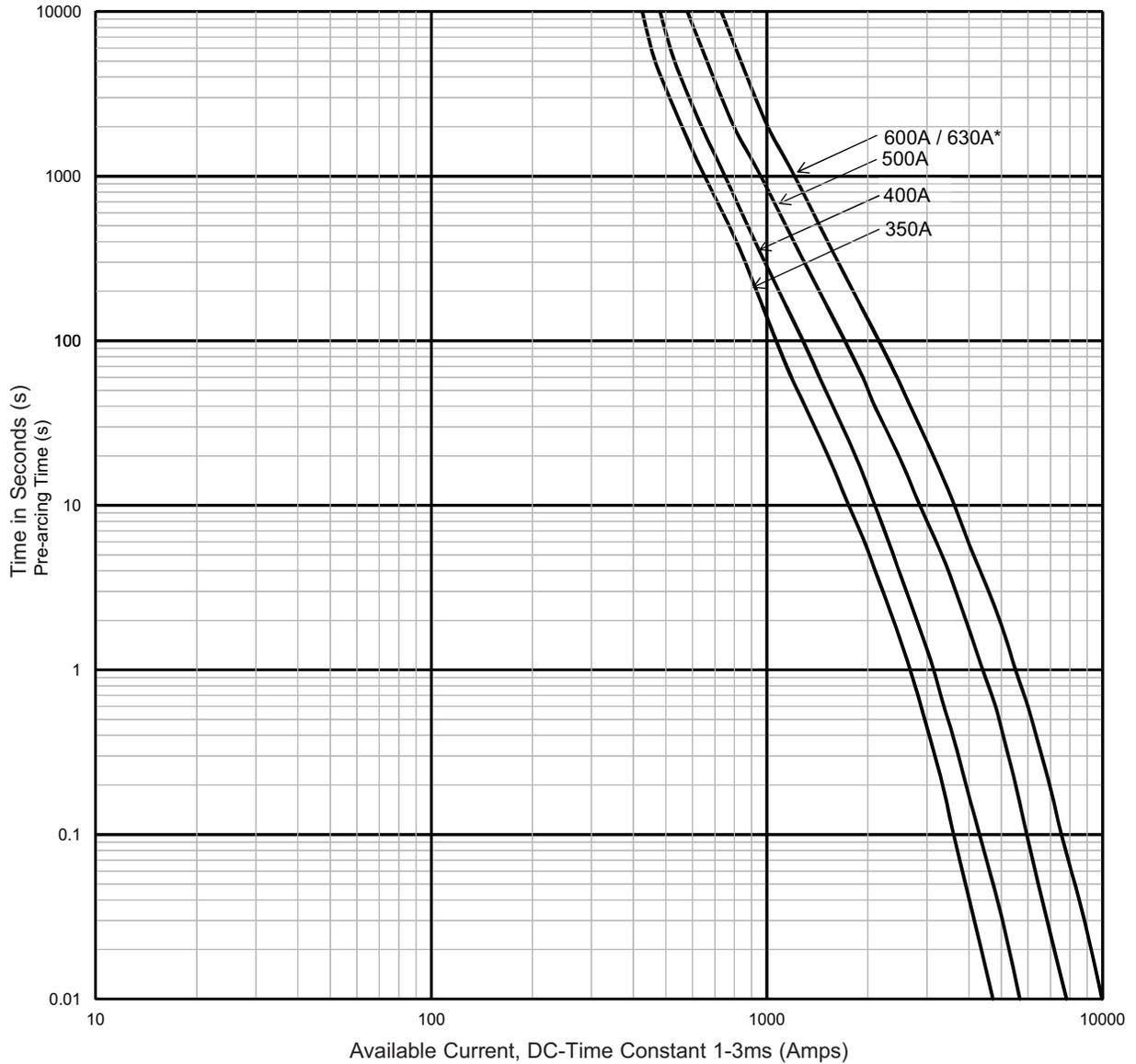


\* Size 1XL only.

Time Current Curves for 2XL



### Time Current Curves for 3L



\* 630A Thermally rated to UL only.

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