

Bussmann series XL Photovoltaic fuse links



Product description

Eaton's Bussmann series XL package fuse links are specifically designed to protect and isolate photovoltaic array combiners and disconnects. These fuse links are capable of interrupting low overcurrents associated with faulted PV systems (reverse current, multi-array fault).

Standard features

- Global accreditations
- Compatible with Eaton's Bussmann series PV XL bases range (see data sheet 10066)

Catalogue symbol

1000 V d.c.: Bladed PV-(amp rating)A-(size)XL
 Bolted PV-(amp rating)A-(size)XL-B
 Bolted PV-(amp rating)A-2XL-3B¹
 1500 V d.c.: Bladed PV-(amp rating)A-(size)XL-15
 Bolted PV-(amp rating)A-(size)XL-B-15
 Bolted PV-(amp rating)A-2XL-3B-15¹

Fuse size

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

Technical data

Rated voltage: 1000, 1100, 1200, 1500 V d.c.

Rated current: 50 to 600 A

Breaking capacity:

- 1000 V d.c.
 - Size 01 and 3: 50kA
 - Size 1 and 2: 33kA
- 1500 V d.c. : 30kA

Time constant: 1-3 mS

Class of operation: gPV and UL PV fuse links

Minimum interrupting rating: $2 \times I_n$

Standards/Approvals

- IEC 60269-6
- UL 2579 (file number E335324)
- RoHS compliant

Microswitches

- For bladed fuse links
 - 170H0235 or 170H0237 for 01XL
 - 170H0236 or 170H0238 for 1XL, 2XL and 3L
- For bolted fuse links
 - 170H0069 for all sizes

Fuse holders (ordered separately)

- SB1XL-S (suitable for size 01 and 1XL)
- SB2XL-S (suitable for 2XL)
- SB3L-S (suitable for 3L)

Packaging

- MOQ: 1

¹ PV-*A-2XL3B and PV-*A-2XL3B-15 have revised bolting patterns, which are identical to size 3L bolting pattern. This allows utilisation of both size 2XL and size 3L fuse links without changing the dimensional layout of the inverter, combiners and disconnects.

Table 1. Technical data 1000 V d.c.

Catalogue numbers			Current (amps)	Voltage (V d.c.)	Energy integrals I ² t (A ² S)		Watts loss	
Bladed	Bolted	Fuse size			Pre-arcing	Total at 1000V	0.8In	In
PV-63A-01XL	PV-63A-01XL-B	01	63	1000	260	1900	13	24
PV-80A-01XL	PV-80A-01XL-B	01	80	1000	490	3600	17	29
PV-100A-01XL	PV-100A-01XL-B	01	100	1000	870	6300	18	32
PV-125A-01XL	PV-125A-01XL-B	01	125	1000	1930	13900	20	40
PV-160A-01XL	PV-160A-01XL-B	01	160	1000	3900	28100	22	44
PV-200A-1XL	PV-200A-1XL-B	1	200	1000	9400	27260	31	60
PV-160A-2XL	PV-160A-2XL-B	2	160	1000	2780	21000	25	44
PV-200A-2XL	PV-200A-2XL-B	2	200	1000	4950	37000	28	50
PV-250A-2XL	PV-250A-2XL-B	2	250	1000	9450	70000	34	60
PV-315A-2XL	PV-315A-2XL-B	2	315	1000	16600	123000	40	66
PV-355A-2XL	PV-355A-2XL-B	2	355	1000	26000	192000	42	68
	PV-160A-2XL-3B ¹	2	160	1000	2780	21000	25	44
	PV-200A-2XL-3B ¹	2	200	1000	4950	37000	28	50
	PV-250A-2XL-3B ¹	2	250	1000	9450	70000	34	60
	PV-315A-2XL-3B ¹	2	315	1000	16600	123000	40	66
	PV-355A-2XL-3B ¹	2	355	1000	26000	192000	42	68
PV-350A-3L	PV-350A-3L-B	3	350	1000	31000	161200	40	65
PV-400A-3L	PV-400A-3L-B	3	400	1000	44500	231400	48	82
PV-500A-3L	PV-500A-3L-B	3	500	1000	85000	442000	50	85
PV-600A-3L	PV-600A-3L-B	3	600	1000	137000	712400	80	108

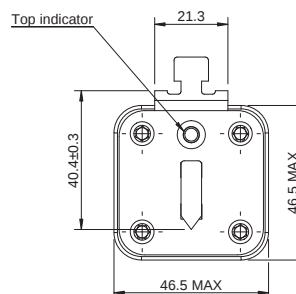
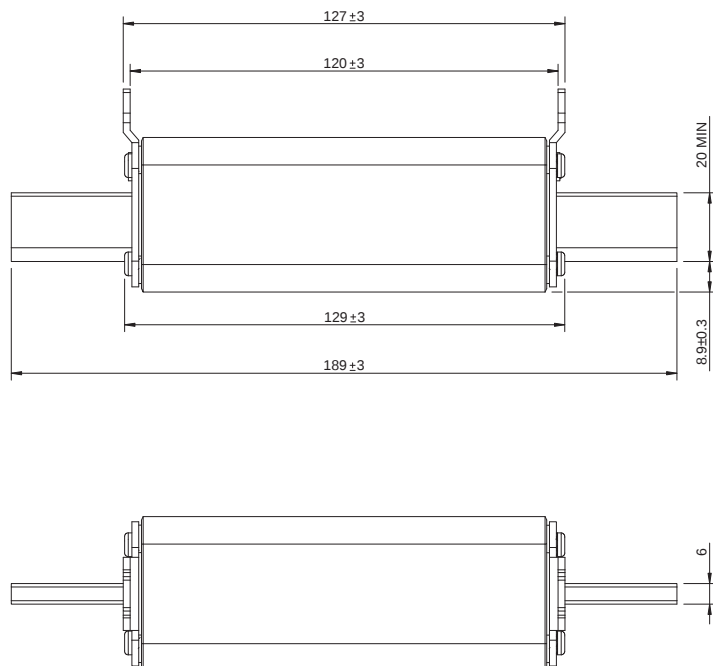
Table 2. Technical data 1500 V d.c.

Catalogue numbers			Current (amps)	Voltage (Vdc)	Energy integrals I ² t (A ² S)		Watts loss	
Bladed	Bolted	Fuse size			Pre-arcing	Total at 1500V	0.8In	In
PV-50A-01XL-15	PV-50A-01XL-B-15	01	50	1500	175	1000	14	25
PV-63A-01XL-15	PV-63A-01XL-B-15	01	63	1500	362	2250	15	26
PV-80A-01XL-15	PV-80A-01XL-B-15	01	80	1500	565	3300	19	35
PV-100A-01XL-15	PV-100A-01XL-B-15	01	100	1500	1100	6600	22	40
PV-125A-01XL-15	PV-125A-01XL-B-15	01	125	1500	2200	10500	23	42
PV-160A-01XL-12	PV-160A-01XL-B-15	01	160	1200	5000	24000	26	52
PV-100A-1XL-15	PV-100A-1XL-B-15	1	100	1500	1250	6000	24	43
PV-125A-1XL-15	PV-125A-1XL-B-15	1	125	1500	1950	9360	25	52
PV-160A-1XL-15	PV-160A-1XL-B-15	1	160	1500	4200	20160	30	58
PV-200A-1XL-15	PV-200A-1XL-B-15	1	200	1500	9400	45120	31	61
PV-125A-2XL-15	PV-125A-2XL-B-15	2	125	1500	2200	15000	25	44
PV-160A-2XL-15	PV-160A-2XL-B-15	2	160	1500	5000	32000	29	48
PV-200A-2XL-15	PV-200A-2XL-B-15	2	200	1500	8800	51000	32	57
PV-250A-2XL-15	PV-250A-2XL-B-15	2	250	1500	16600	85000	40	70
	PV-125A-2XL-3B-15 ¹	2	125	1500	2200	15000	25	44
	PV-160A-2XL-3B-15 ¹	2	160	1500	5000	32000	29	48
	PV-200A-2XL-3B-15 ¹	2	200	1500	8800	51000	32	57
	PV-250A-2XL-3B-15 ¹	2	250	1500	16600	85000	40	70
PV-250A-3L-15	PV-250A-3L-B-15	3	250	1500	22300	92000	32	50
PV-315A-3L-15	PV-315A-3L-B-15	3	315	1500	38000	160000	36	66
PV-355A-3L-15	PV-355A-3L-B-15	3	355	1500	44500	184000	44	80
PV-400A-3L-15	PV-400A-3L-B-15	3	400	1500	58000	240000	49	91

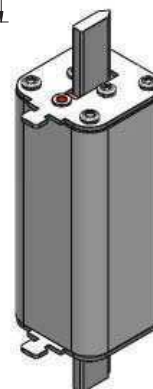
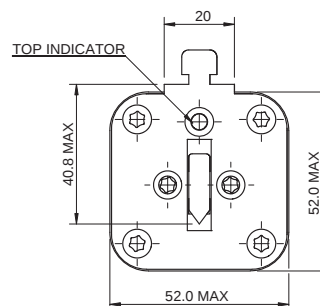
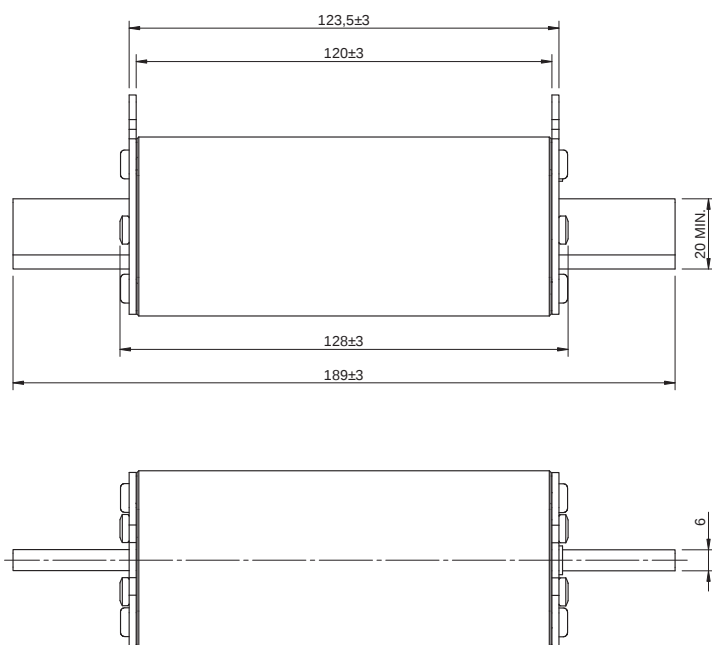
¹ PV-*A-2XL-3B and PV-*A-2XL-3B-15 have revised bolting patterns, which are identical to size 3L bolting pattern. This allows utilisation of both size 2XL and size 3L fuse links without changing the dimensional layout of the inverter, combiners and disconnects.

Dimensions - mm

Bladed - size 01XL

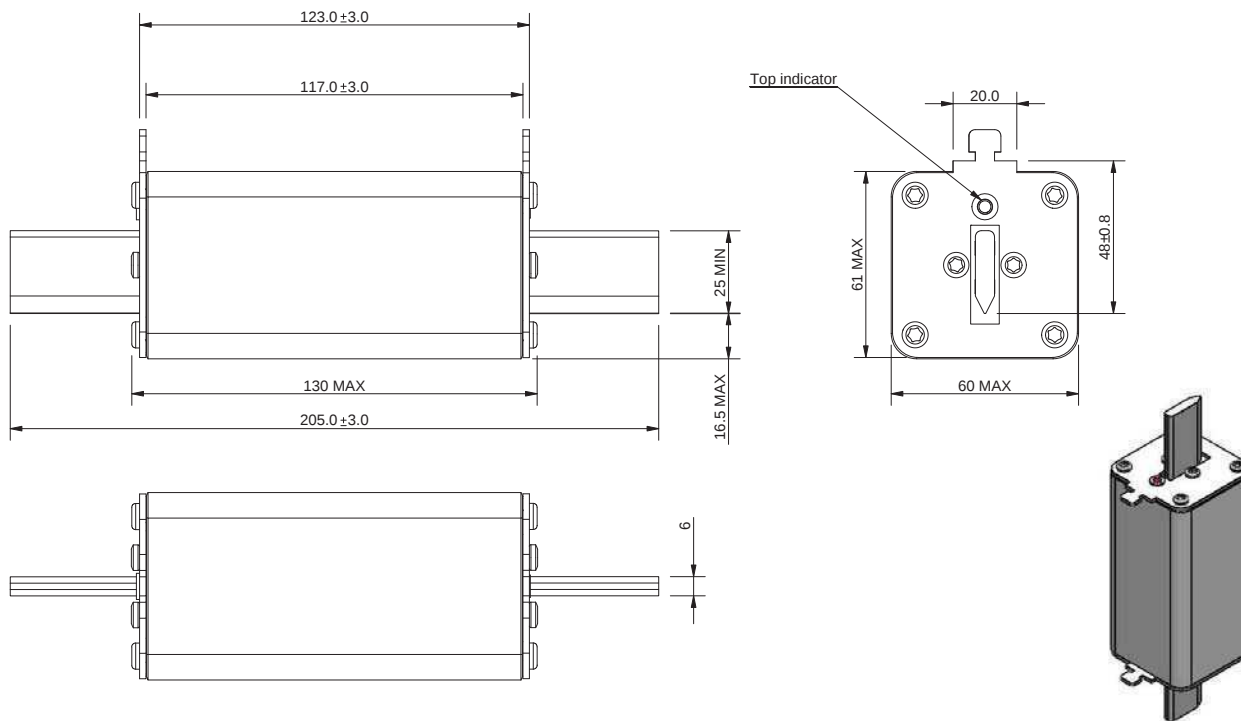


Bladed - size 1XL

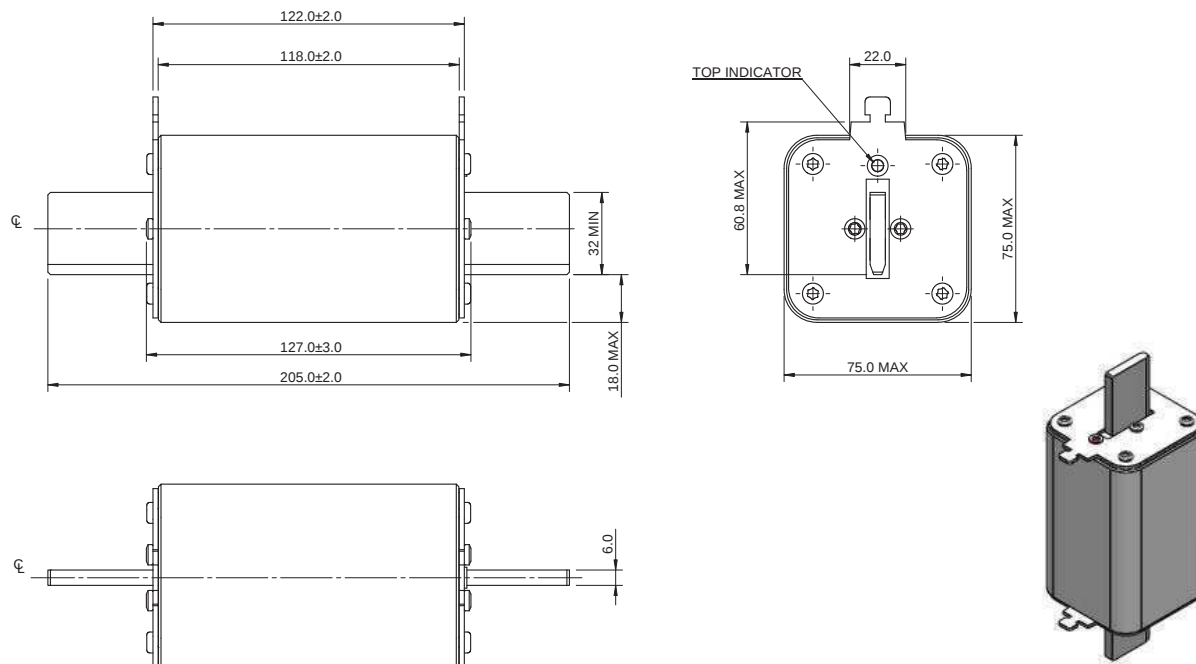


Dimensions - mm

Bladed - size 2XL

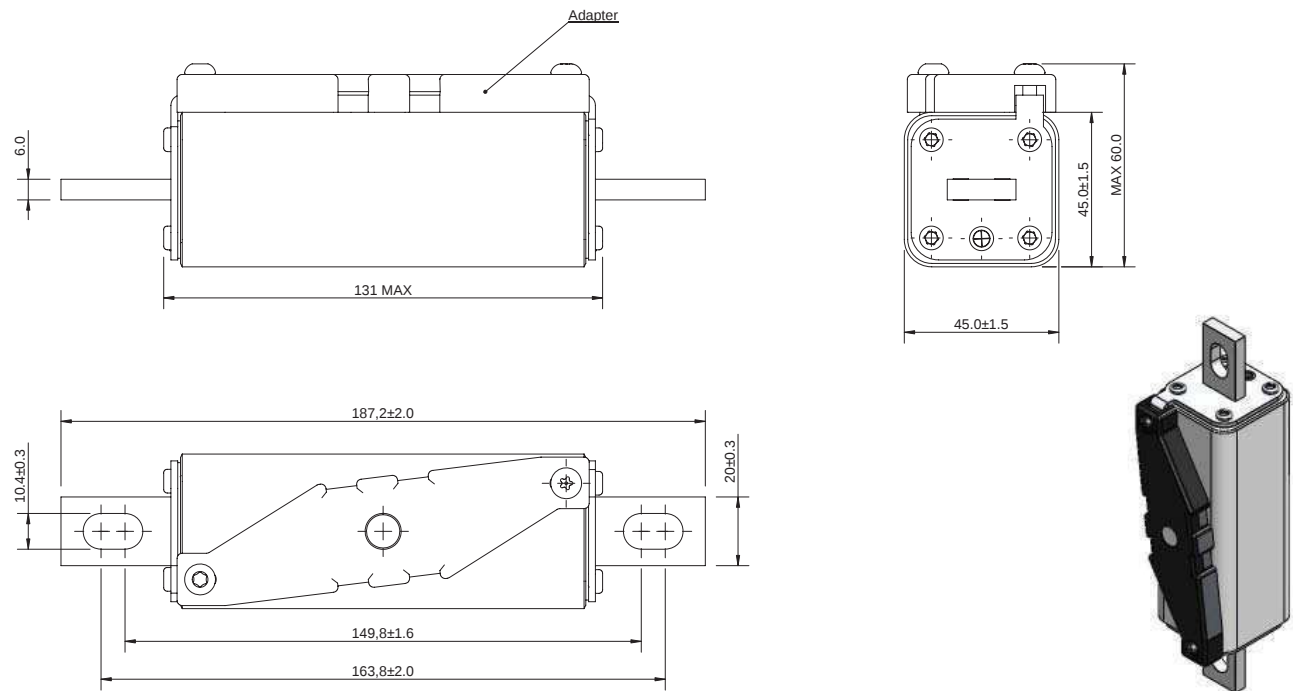


Bladed - size 3L

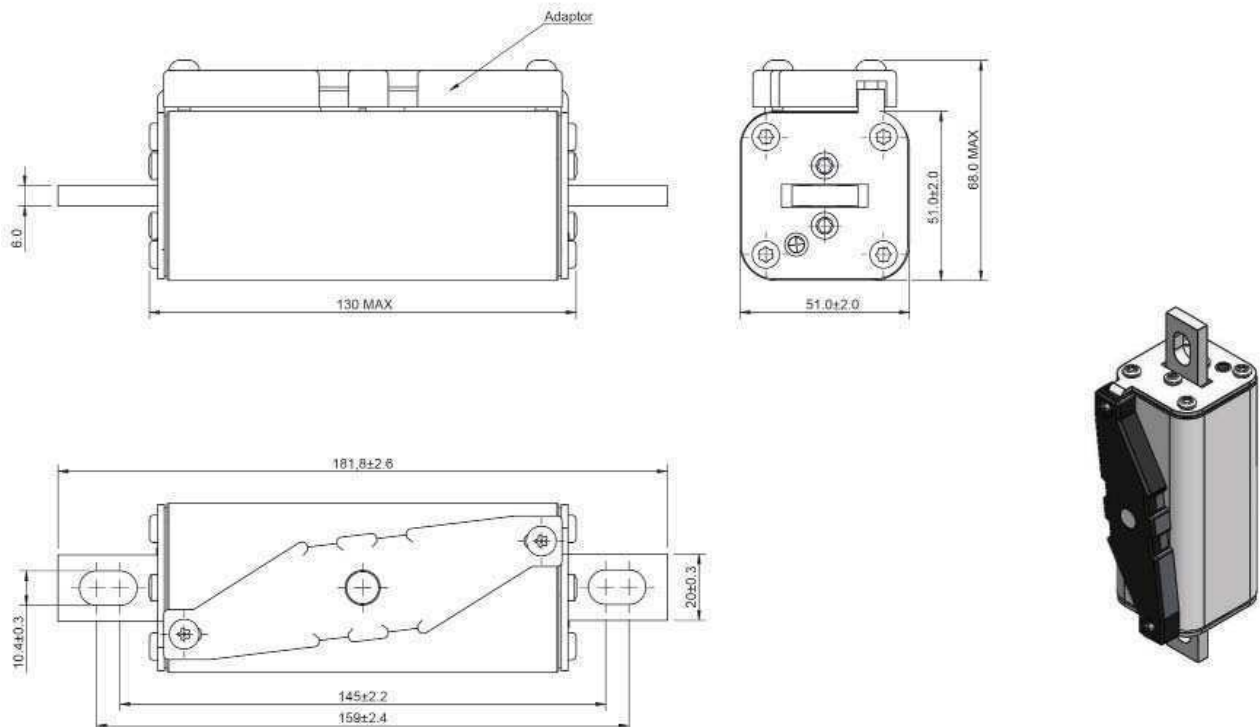


Dimensions - mm

Bolted - size 01XL

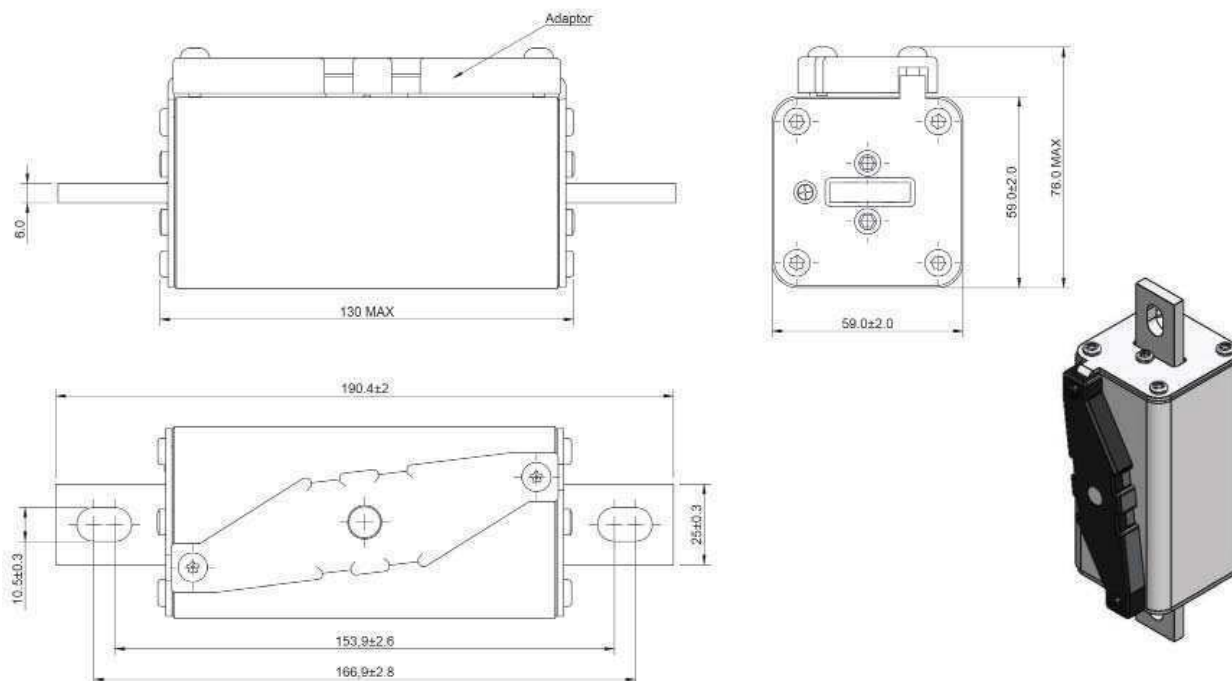


Bolted - size 1XL

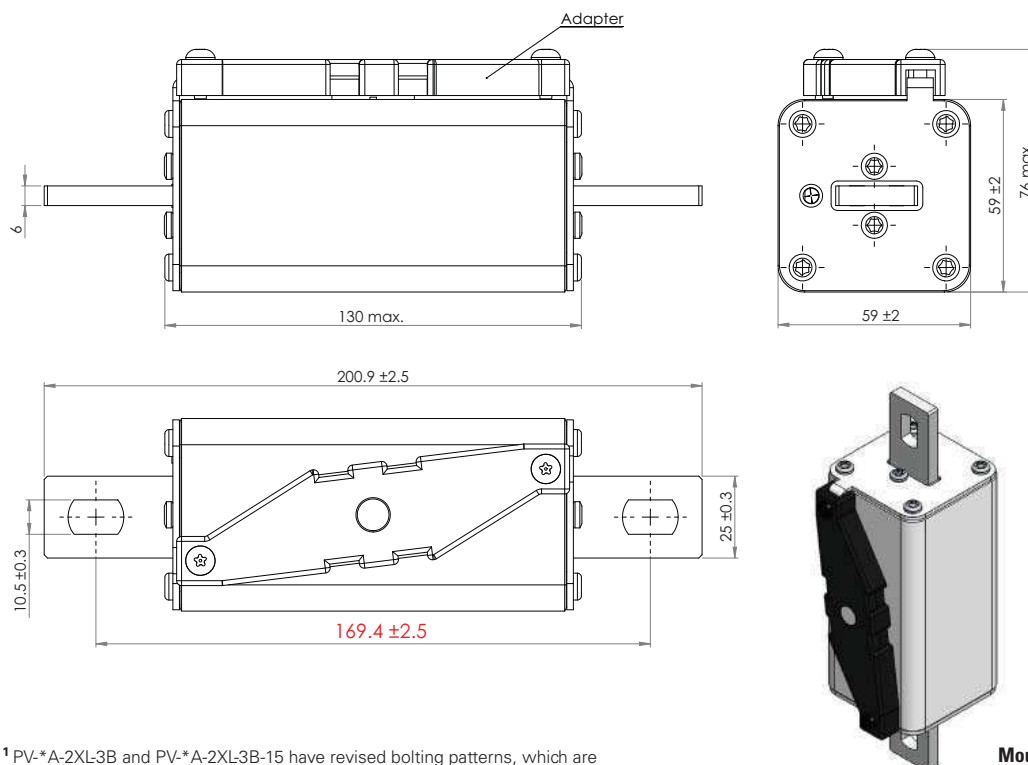


Dimensions - mm

Bolted - size 2XL



Bolted - size 2XL-3B¹



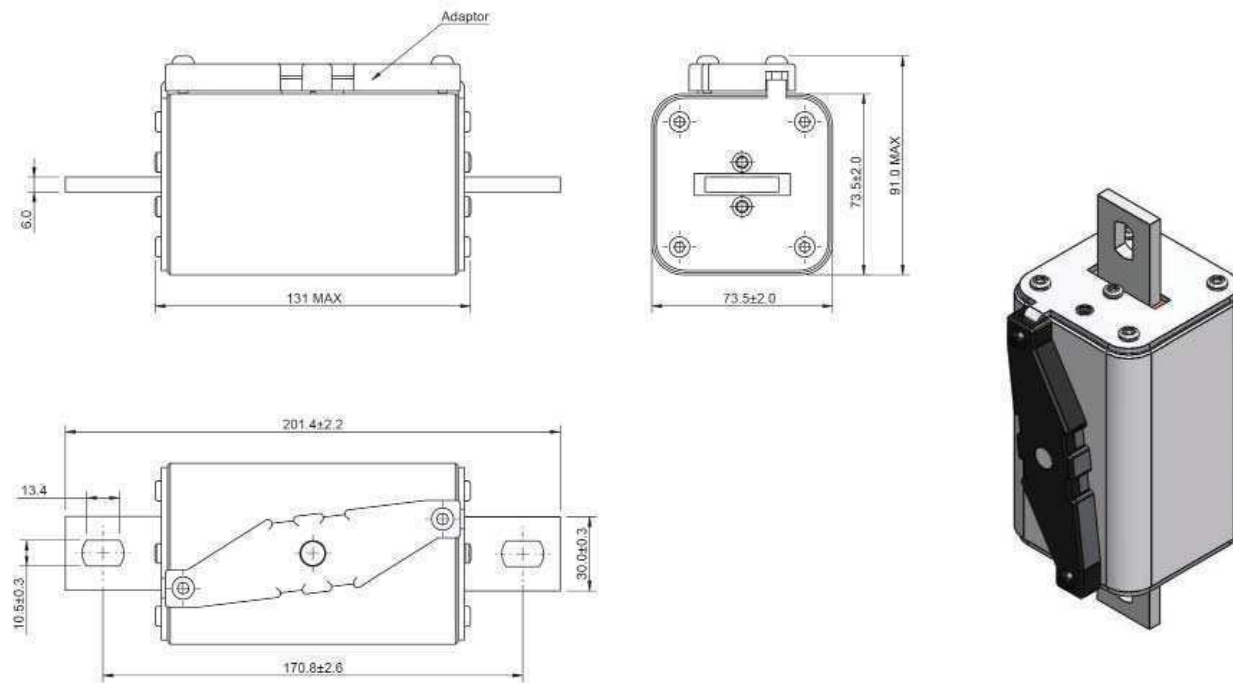
¹ PV-*A-2XL3B and PV-*A-2XL3B-15 have revised bolting patterns, which are identical to size 3L bolting pattern. This allows utilisation of both size 2XL and size 3L fuse links without changing the dimensional layout of the inverter, combiners and disconnects.

Mounting dimensions comparison

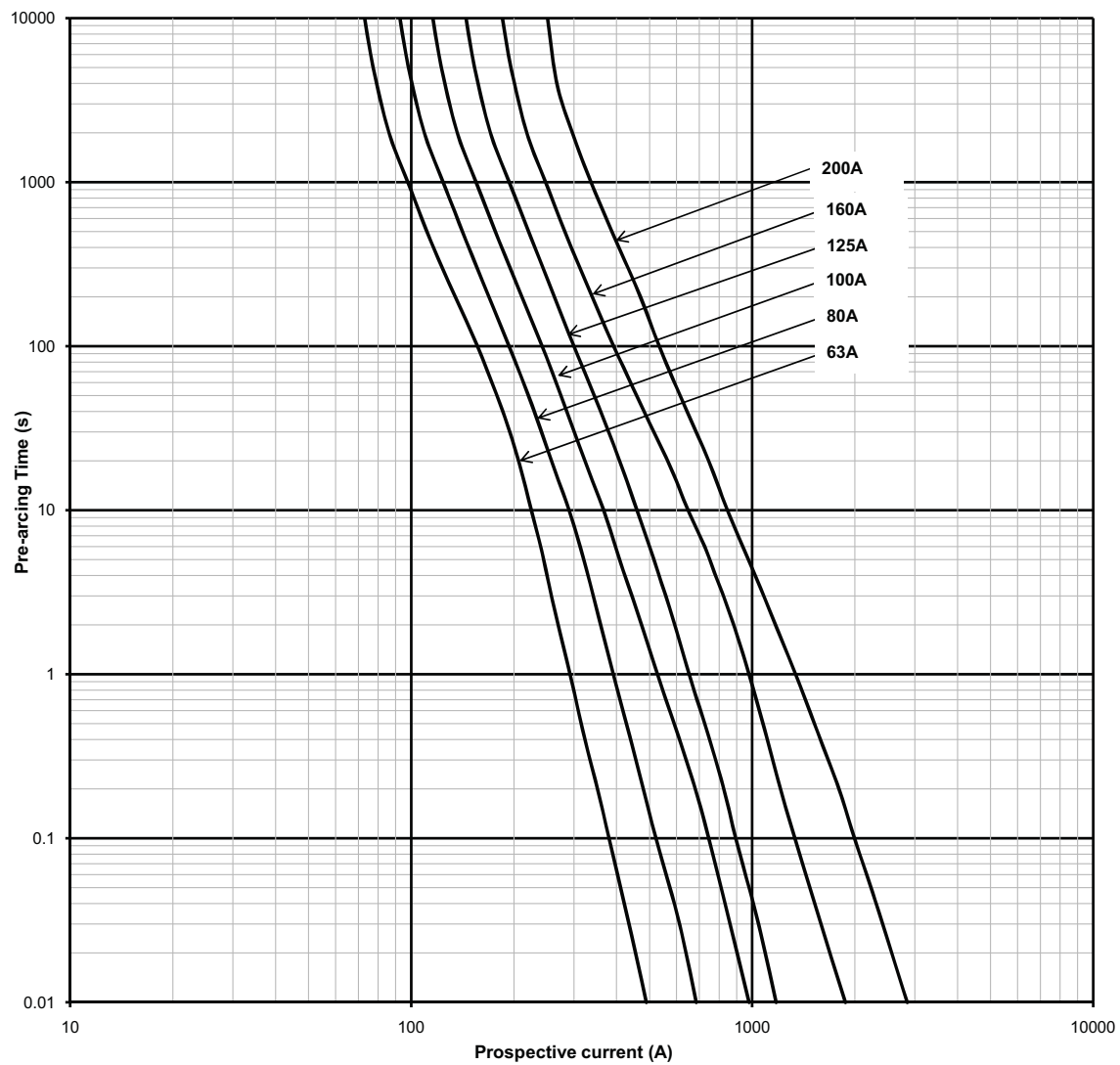
2XL-3B	3L
169.4	170.8

Dimensions - mm

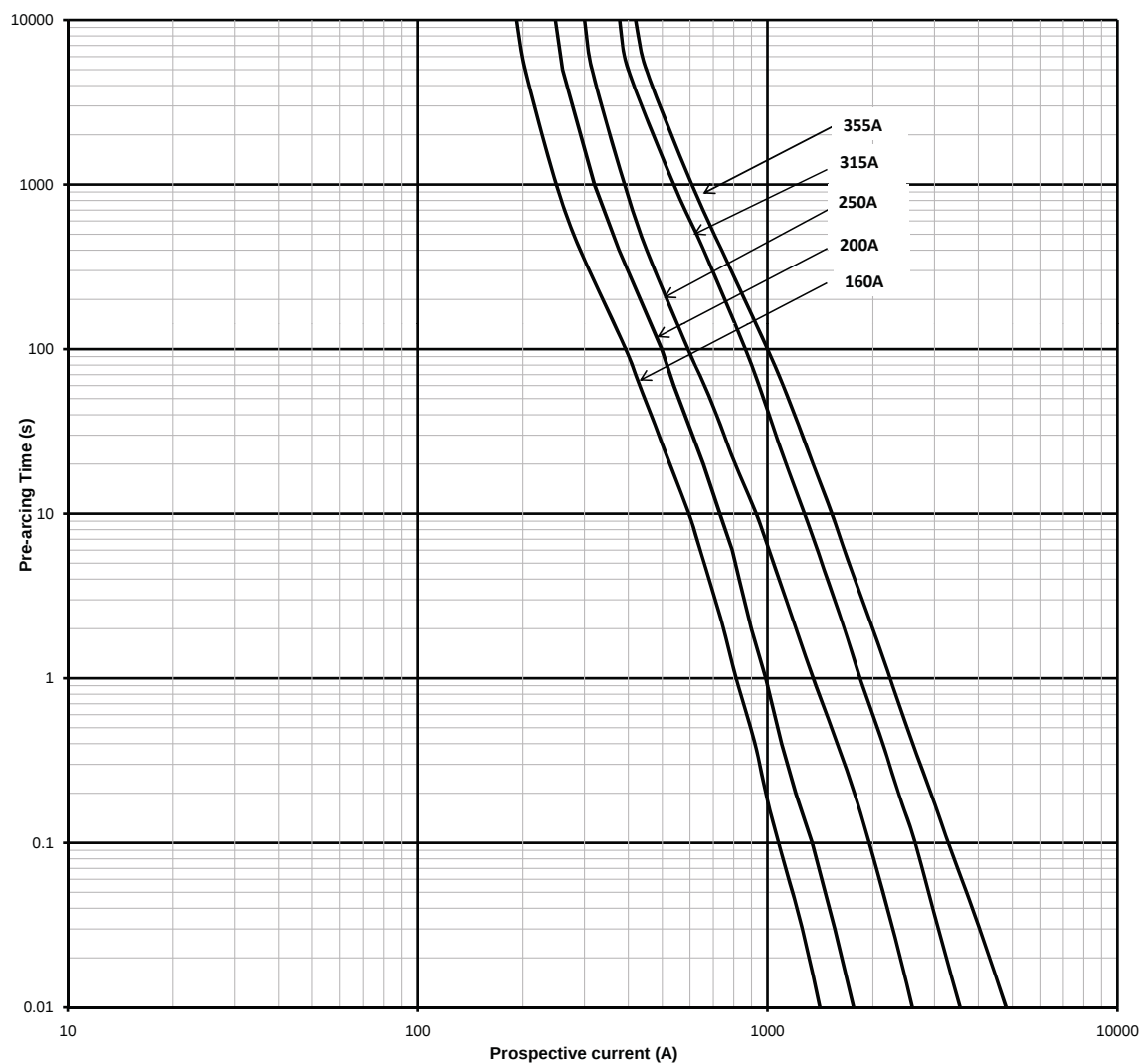
Bolted - size 3L



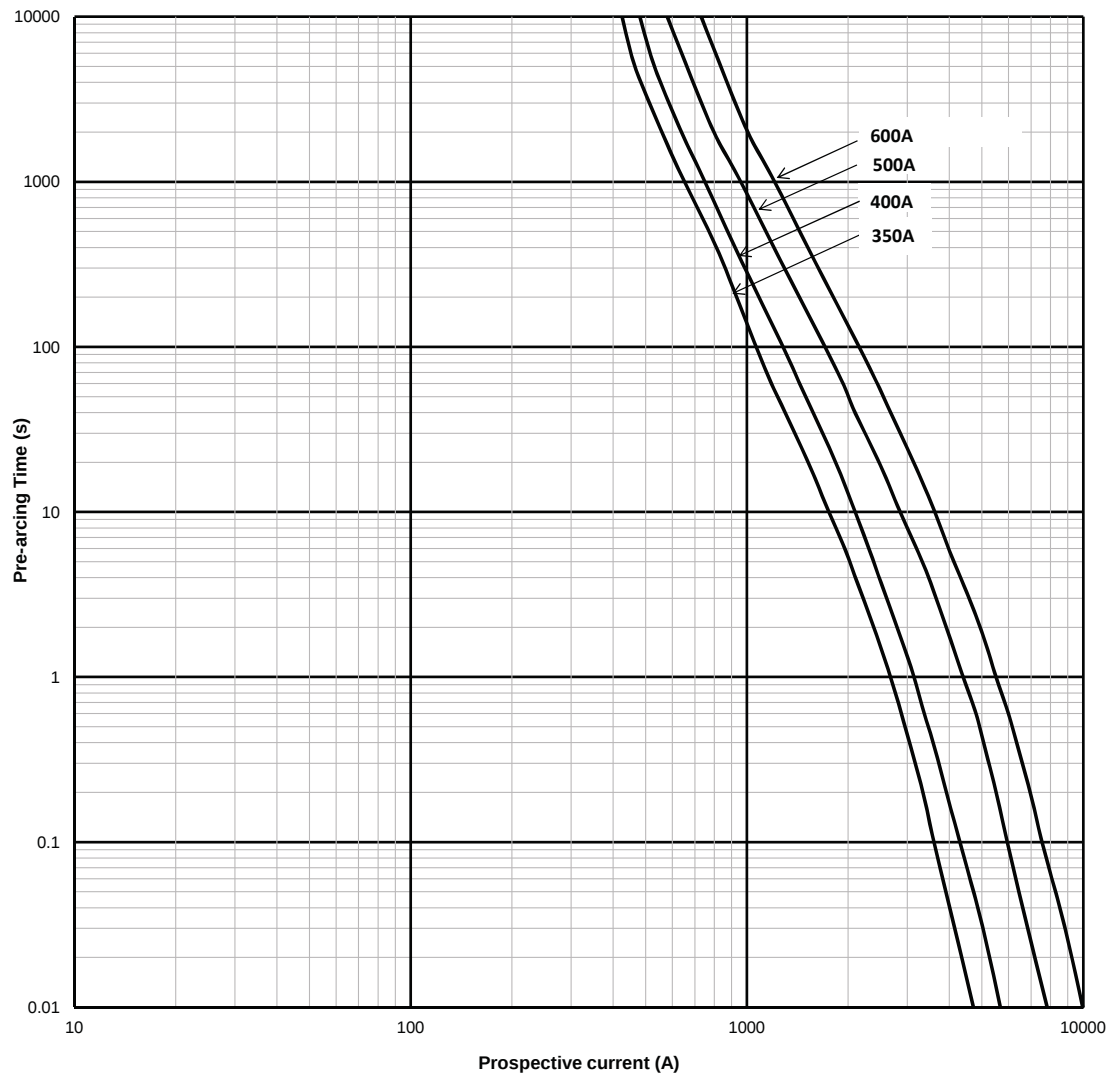
Time current curve - 1000 V d.c. - 01XL - Bladed and bolted



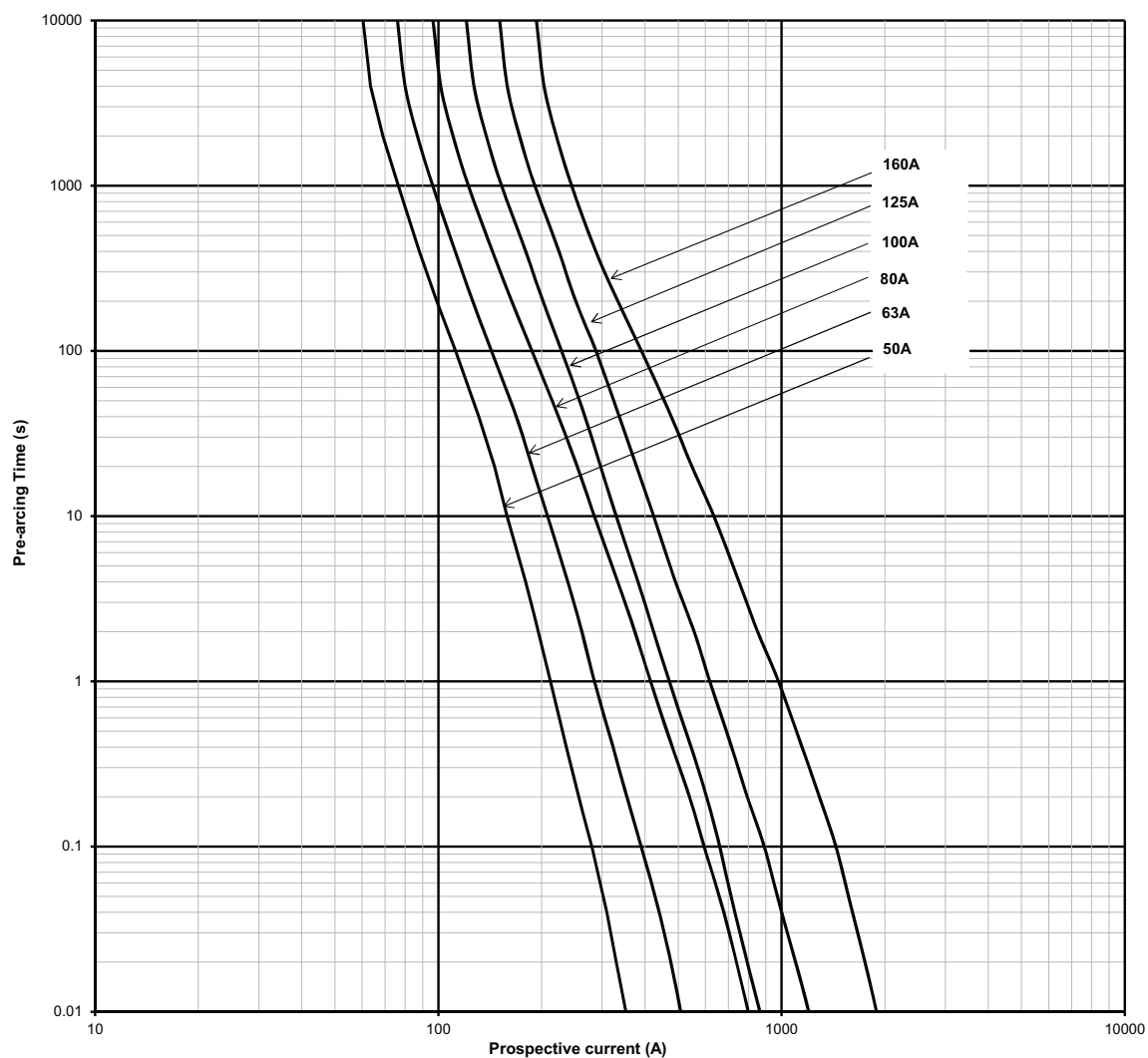
Time current curve - 1000 V d.c. - 2XL - Bladed and bolted



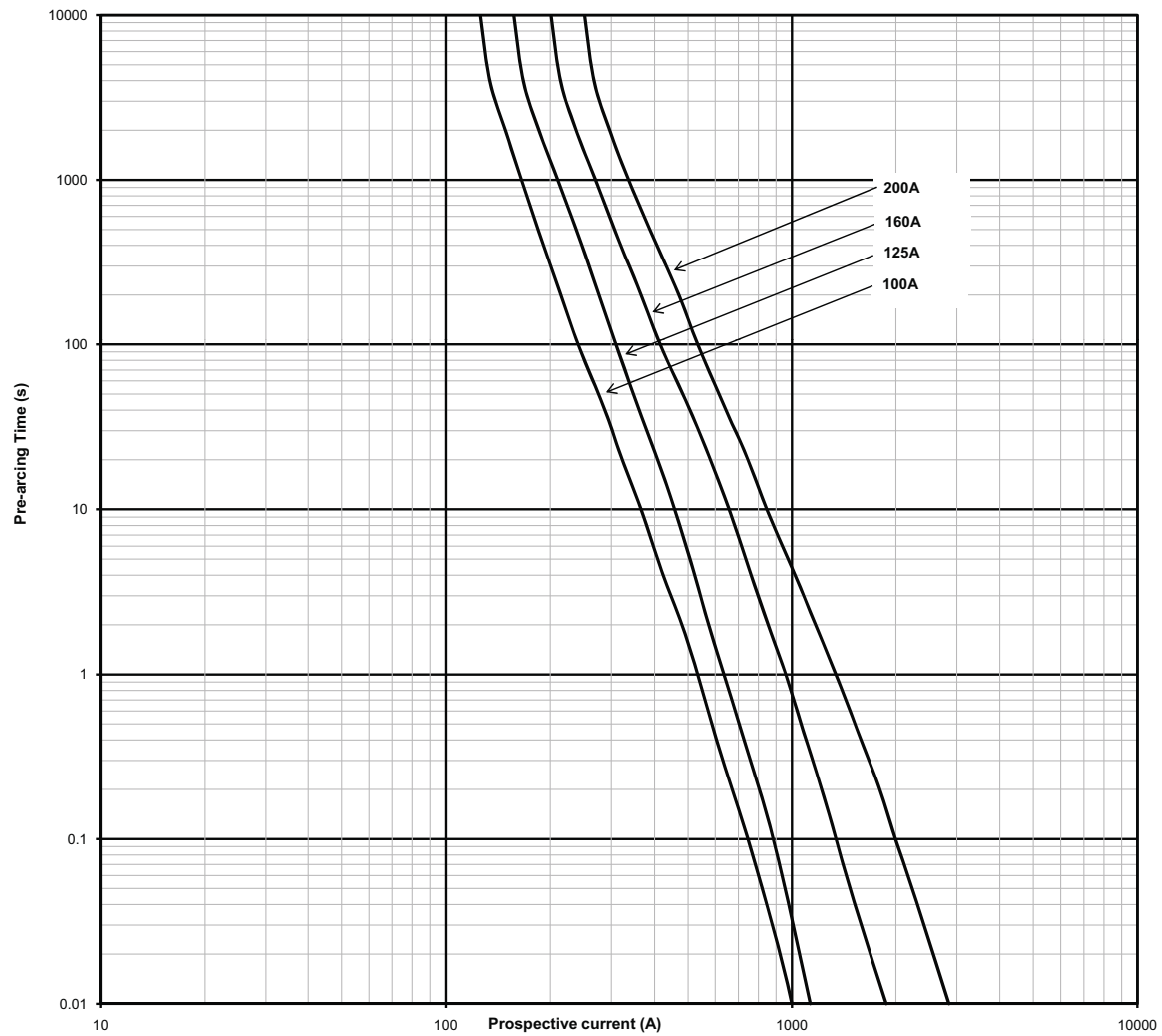
Time current curve - 1000 V d.c. - 3L - Bladed and bolted



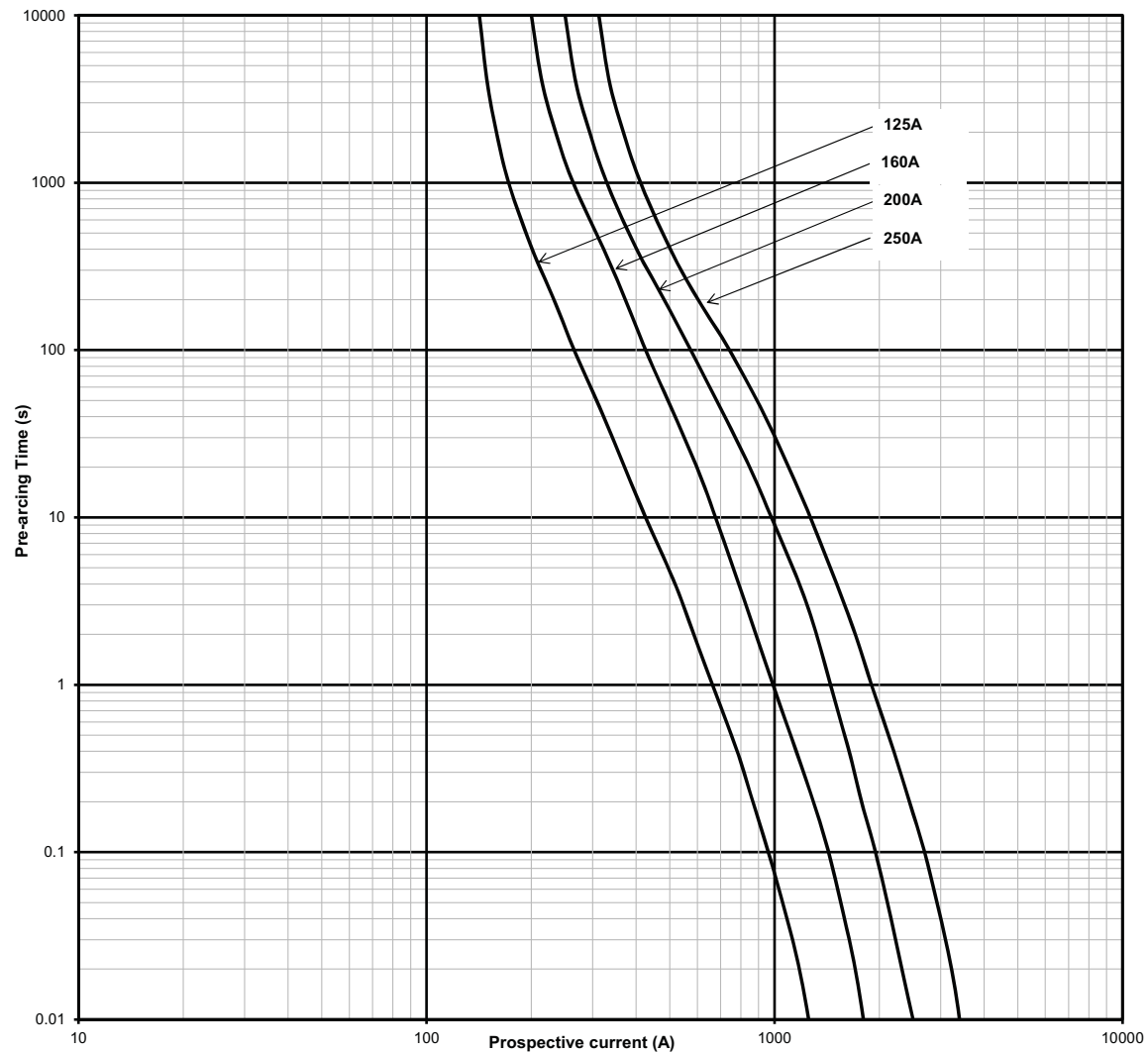
Time current curve - 1500 V d.c. - 01XL - Bladed and bolted



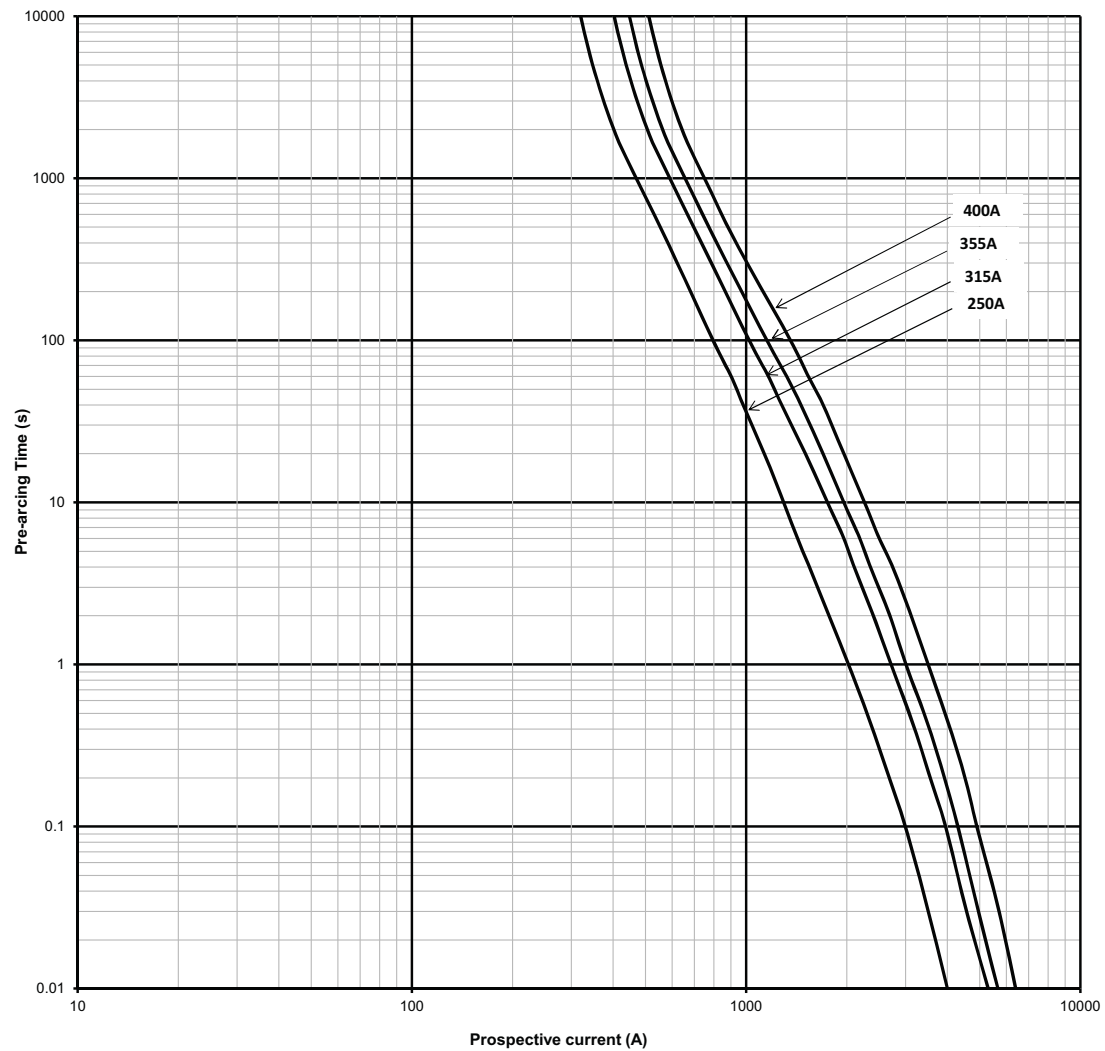
Time current curve - 1500 V d.c. - 1XL - Bladed and bolted



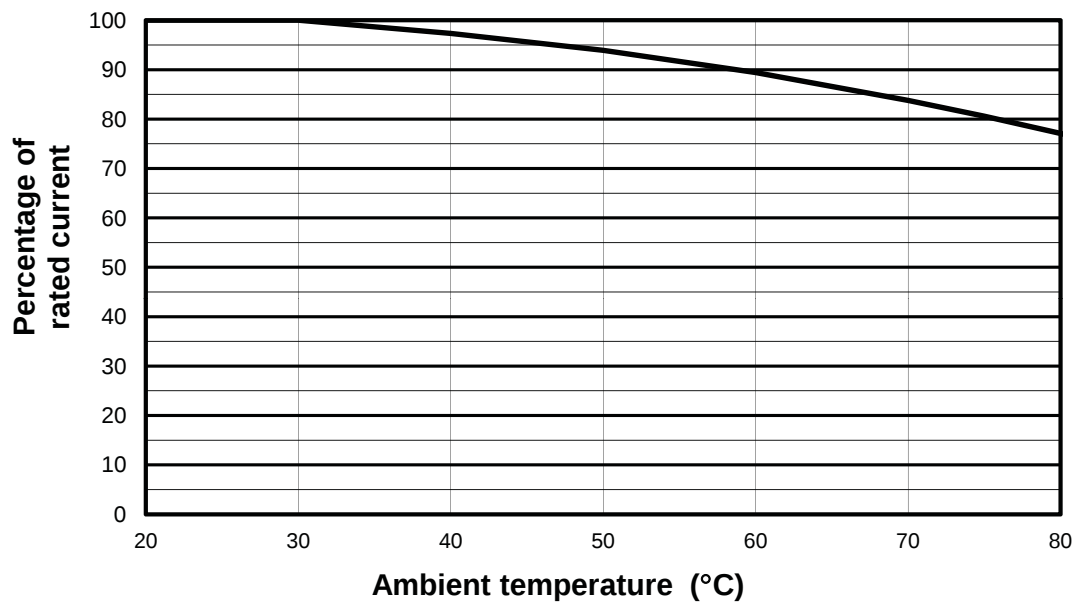
Time current curve - 1500 V d.c.- 2XL - Bladed and bolted



Time current curve - 1500 V d.c. - 3L - Bladed and bolted



Temperature derating curve



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