

XL Style Photovoltaic Fuse Links for Solar Panel Applications

50 to 630A, 1000 & 1500Vdc PV Series



Description: A range of XL package fuse links specifically designed for protecting and isolating photovoltaic array combiners and disconnects. These fuse links are capable of interrupting low overcurrents associated with faulted PV systems (reverse current, multi-array fault).

Packaging: MOQ: 1
Packaging 100% recyclable

Technical Data:
Ratings: 63 to 630A*: 1000Vdc
160A: 1200Vdc
50 to 400A: 1500Vdc

Rated Breaking Capacity:	1000Vdc	Size 01 and 3	50kA
		Size 1 and 2	33kA
	1500Vdc	Size 01 to 3	30kA

Time Constant: 1-3mS

Catalogue Symbol: 1000Vdc - Bladed: PV-(amp rating)A-(size)XL
- Bolted: PV-(amp rating)A-(size)XL-B
1500Vdc - Bladed: PV-(amp rating)A-(size)XL-15
- Bolted: PV-(amp rating)A-(size)XL-B-15

Class of Operation: gPV and UL PV fuse links

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

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

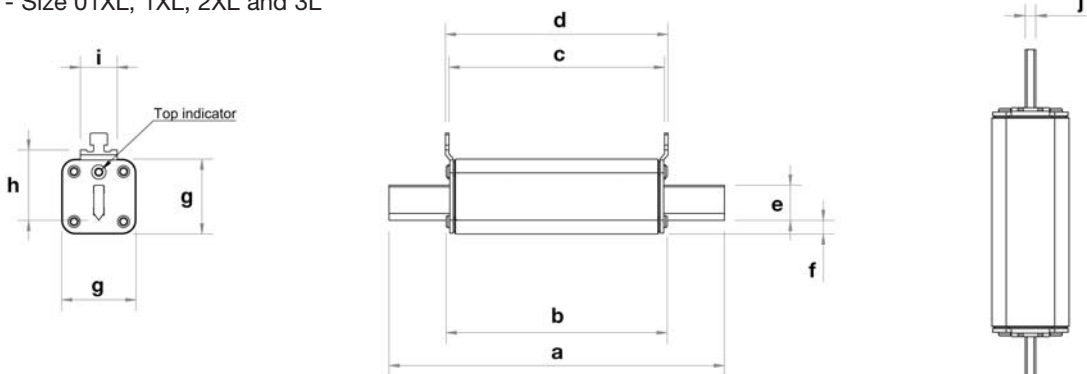
Optional Microswitches:

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

Standards/Approvals: IEC 60269-6, UL 2579 (File number E335324),
RoHS compliant, pending: CCC and CSA.

Dimensions - mm

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



Size	a	b	c	d	e	f	g	h	i	j
01XL	193.8	127.8	124.6	128.6	20	7.9	43	40.4	21.3	5.8
1XL	189.8	127.8	119.6	123.6	20	13.4	51	39.8	20	5.8
2XL	204.5	128.5	119.3	123.3	26	14.4	59.2	47.9	20	5.8
3L	204.9	127.5	118.3	122.3	32.3	18.7	73.5	60	22	6

* 630A Thermally rated to UL only.

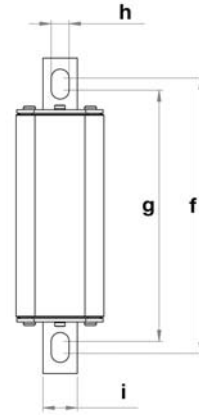
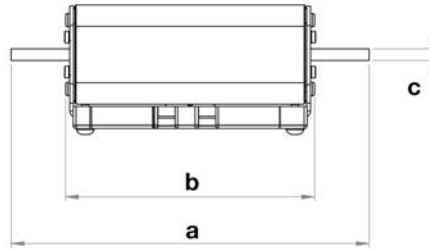
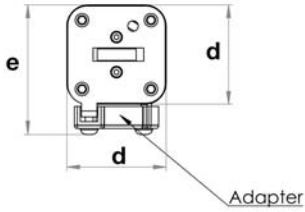
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Dimensions - mm

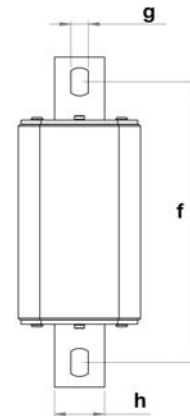
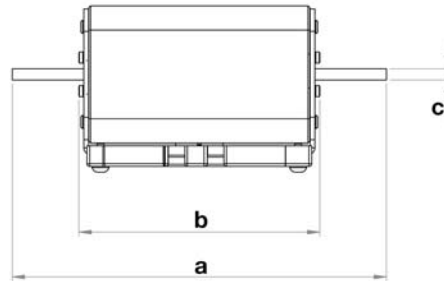
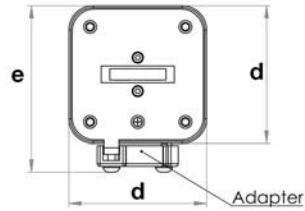
Bolted - Size 01XL, 1XL and 2XL



Size	a	b	c	d	e	f	g	h	i
01XL	187.6	127.8	6	43	58.3	164.3	150.3	10.4	20
1XL	183.6	127.8	6	51	66.3	160.3	146.3	10.4	20
2XL	191.3	128.5	6	59.2	74.5	167.8	154.8	10.5	25

Dimensions - mm

Bolted - Size 3L



Size	a	b	c	d	e	f	g	h
3L	199.7	128.5	6	73.5	88.8	169.7	10.5	30

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Technical Data - 1000Vdc

Part Number		Body Size	Rated Current (A)	Rated Voltage (Vdc)	Energy Integrals I ² t (A ² s)		Watts Loss (W)	
Bladed Version	Bolted Version				Pre-Arcing	Total at 1000Vdc	0.8 I _n	I _n
PV-63A-01XL	PV-63A-01XL-B	01	63	1000	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	1000	9400	27,260	31	60
PV-160A-2XL	PV-160A-2XL-B	2	160	1000	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	1000	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

Technical Data - 1500Vdc**

Part Number		Body Size	Rated Current (A)	Rated Voltage (Vdc)	Energy Integrals I ² t (A ² s)		Watts Loss (W)	
Bladed Version	Bolted Version				Pre-Arcing	Total at 1500Vdc**	0.8 I _n	I _n
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		63		362	2250	15	26
PV-80A-01XL-15	PV-80A-01XL-B-15		80		565	3300	19	35
PV-100A-01XL-15	PV-100A-01XL-B-15		100		1100	6600	22	40
PV-125A-01XL-15	PV-125A-01XL-B-15		125		2200	10,500	23	42
PV-160A-01XL-12	PV-160A-01XL-B-12		160	1200	5000	24,000**	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		125		1950	9360	25	52
PV-160A-1XL-15	PV-160A-1XL-B-15		160		4200	20,160	30	58
PV-200A-1XL-15	PV-200A-1XL-B-15		200		9400	45,120	31	61
PV-125A-2XL-15	PV-125A-2XL-B-15	2	125	1500	2200	15,000	25	44
PV-160A-2XL-15	PV-160A-2XL-B-15		160		5000	32,000	29	48
PV-200A-2XL-15	PV-200A-2XL-B-15		200		8800	51,000	32	57
PV-250A-2XL-15	PV-250A-2XL-B-15		250		16,600	85,000	40	70
PV-250A-3L-15	PV-250A-3L-B-15	3	250	1500	22,300	92,000	32	50
PV-315A-3L-15	PV-315A-3L-B-15		315		38,000	160,000	36	66
PV-355A-3L-15	PV-355A-3L-B-15		355		44,500	184,000	44	80
PV-400A-3L-15	PV-400A-3L-B-15		400		58,000	240,000	49	91

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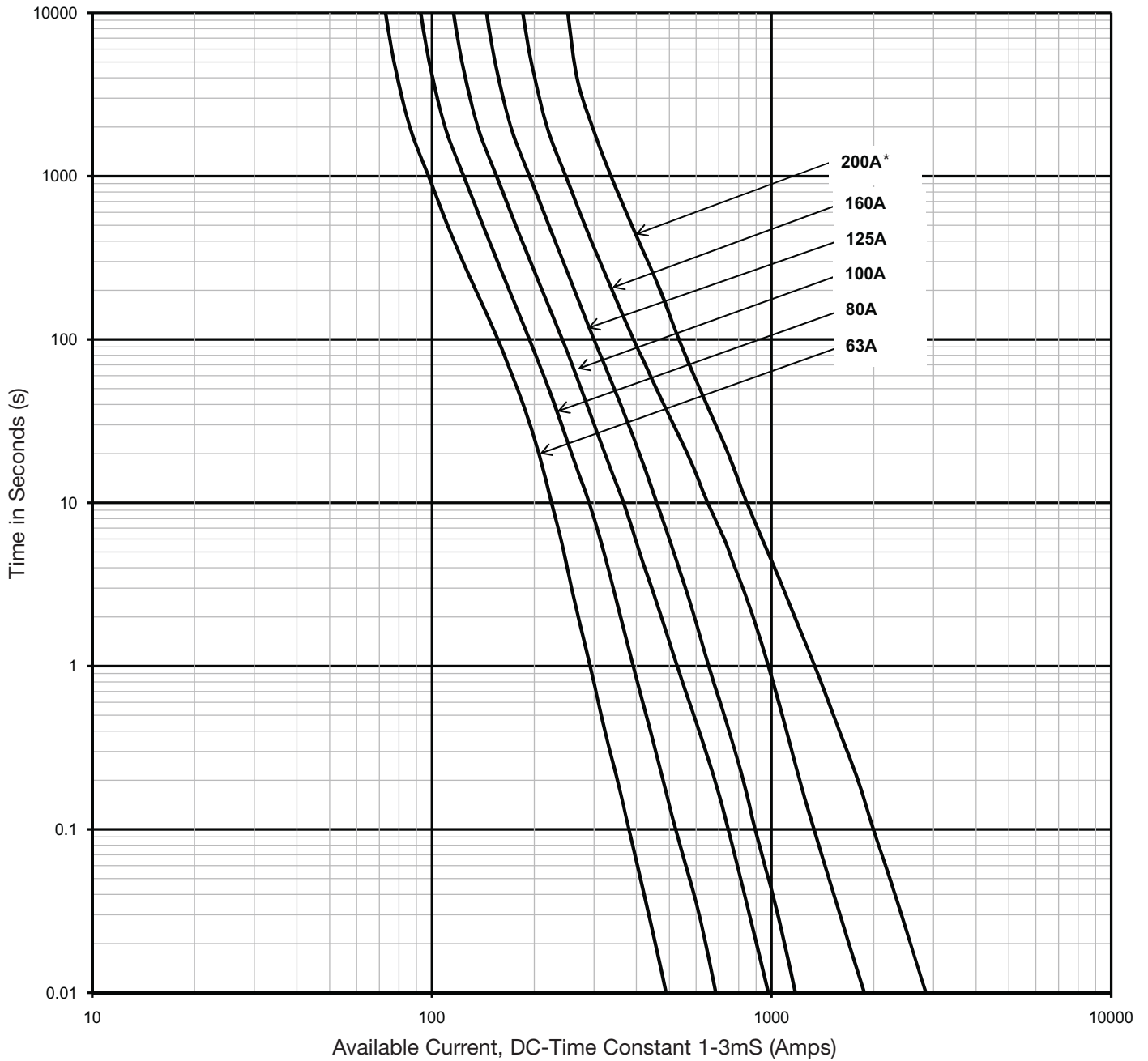
**1200Vdc for 160A.

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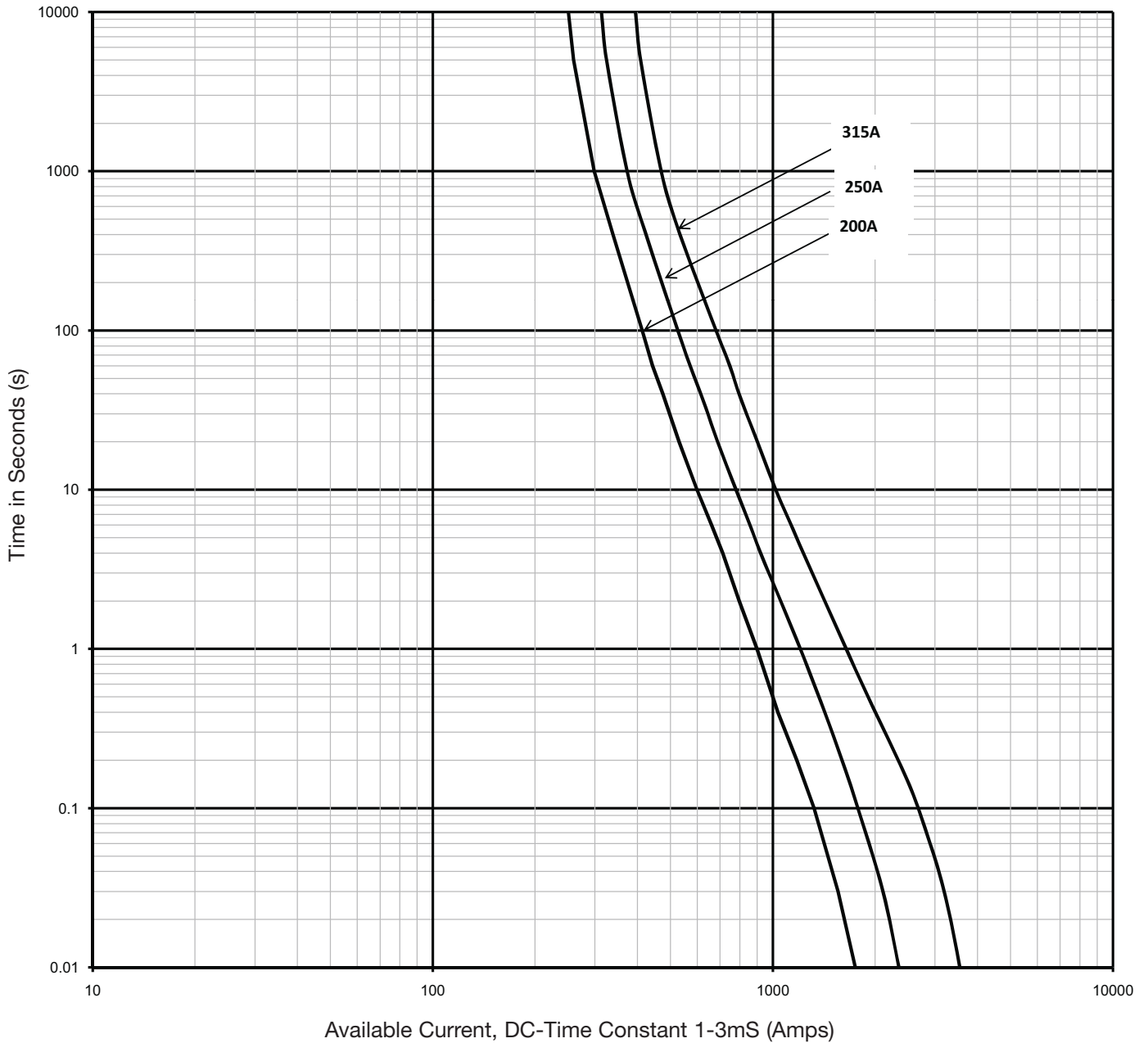
Time-Current Characteristics 01XL and 1XL 1000Vdc



* Size 1XL only.



Time-Current Characteristics 2XL 1000Vdc

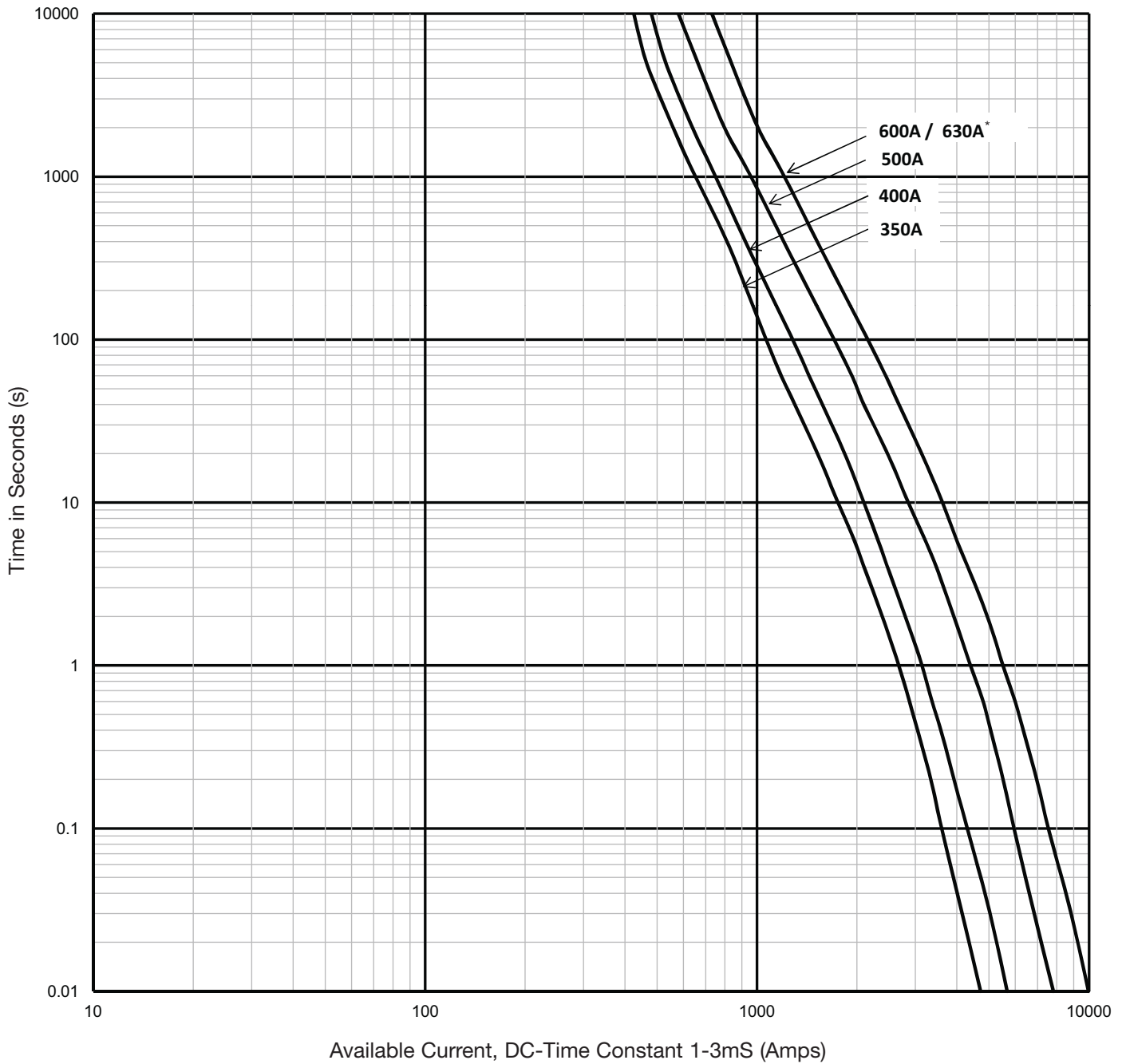


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Time-Current Characteristics 3L 1000Vdc



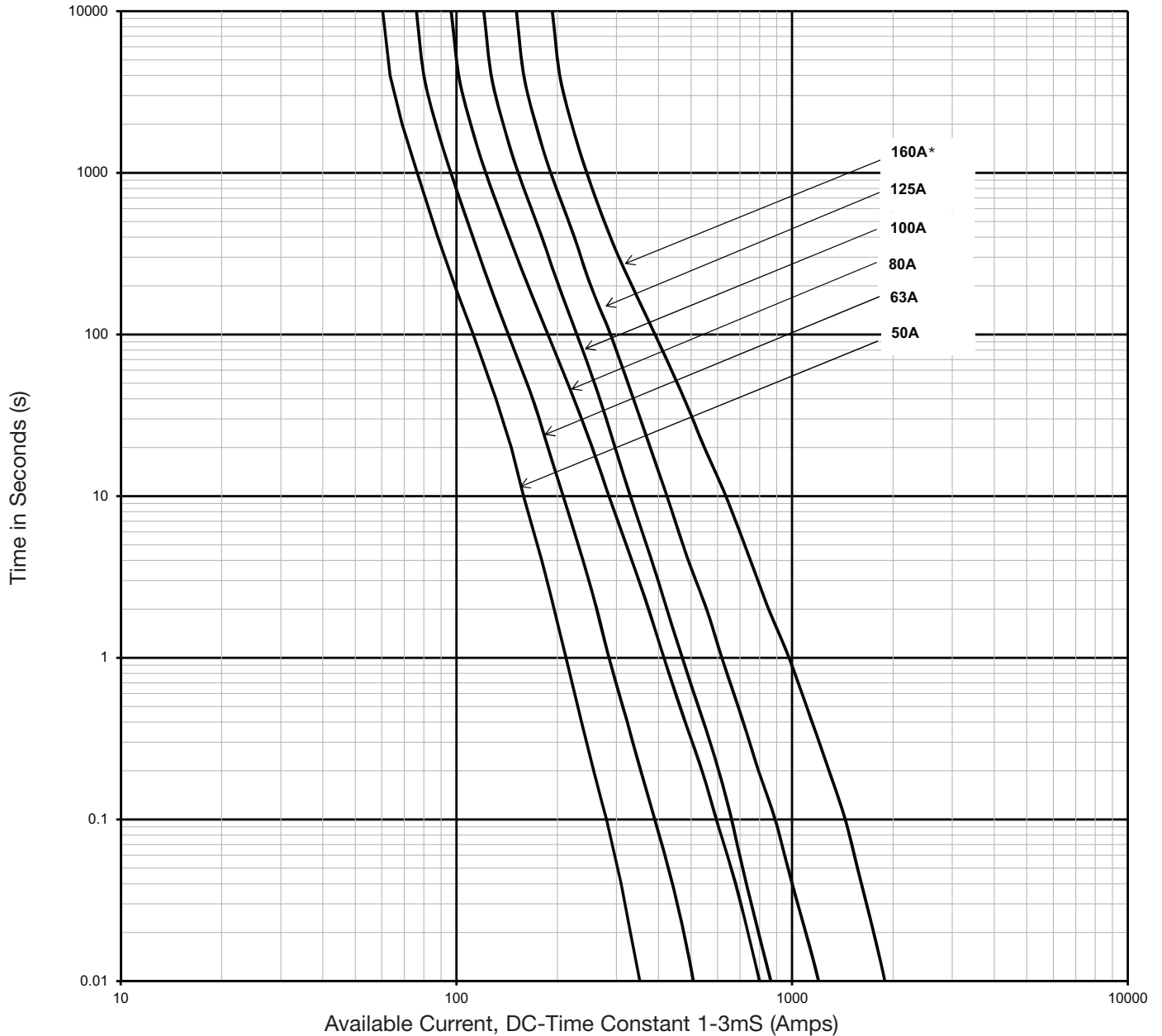
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Time-Current Characteristics 01XL 1500Vdc



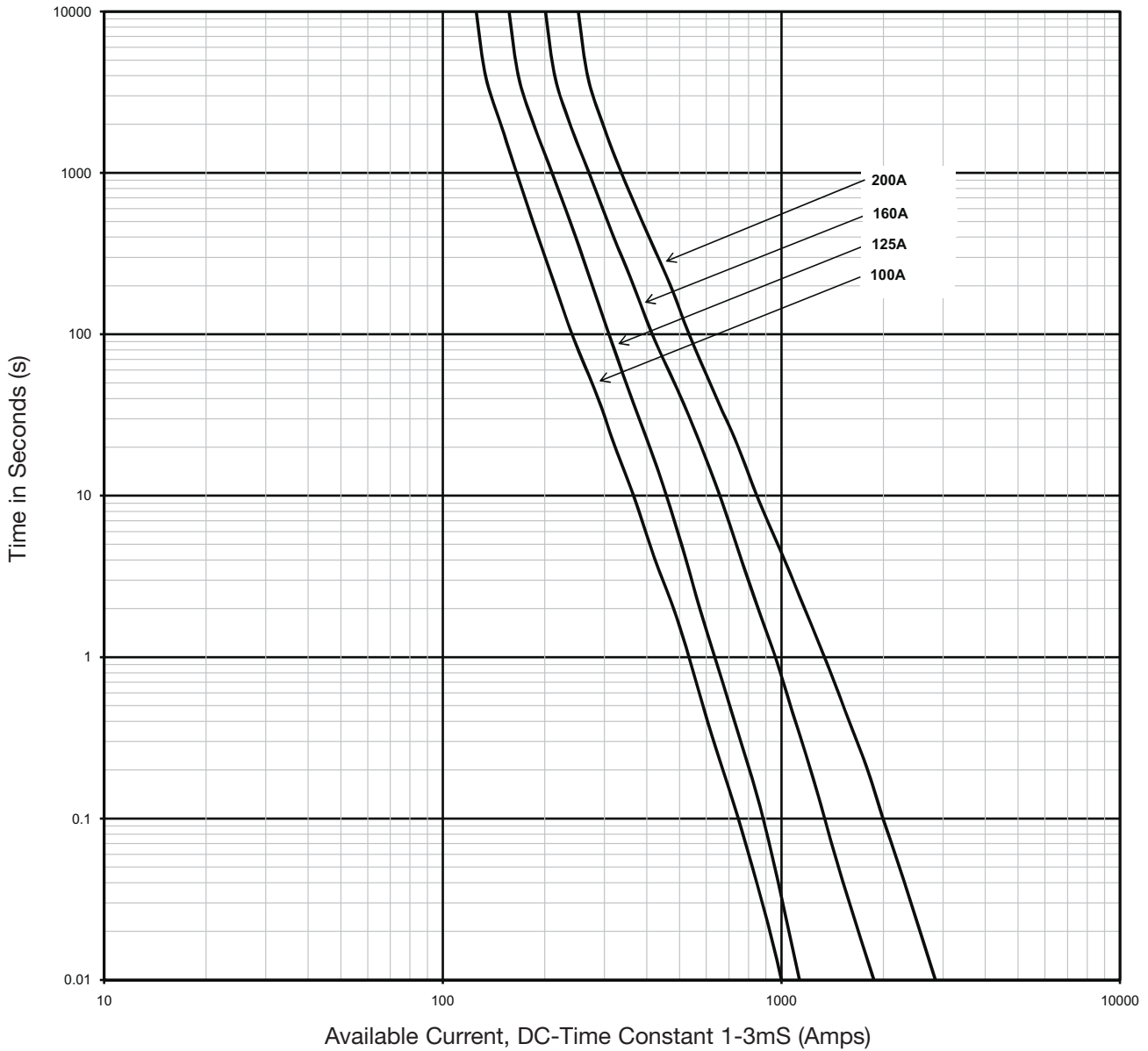
*160A 1200Vdc.

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Time-Curent Characteristics 1XL 1500Vdc

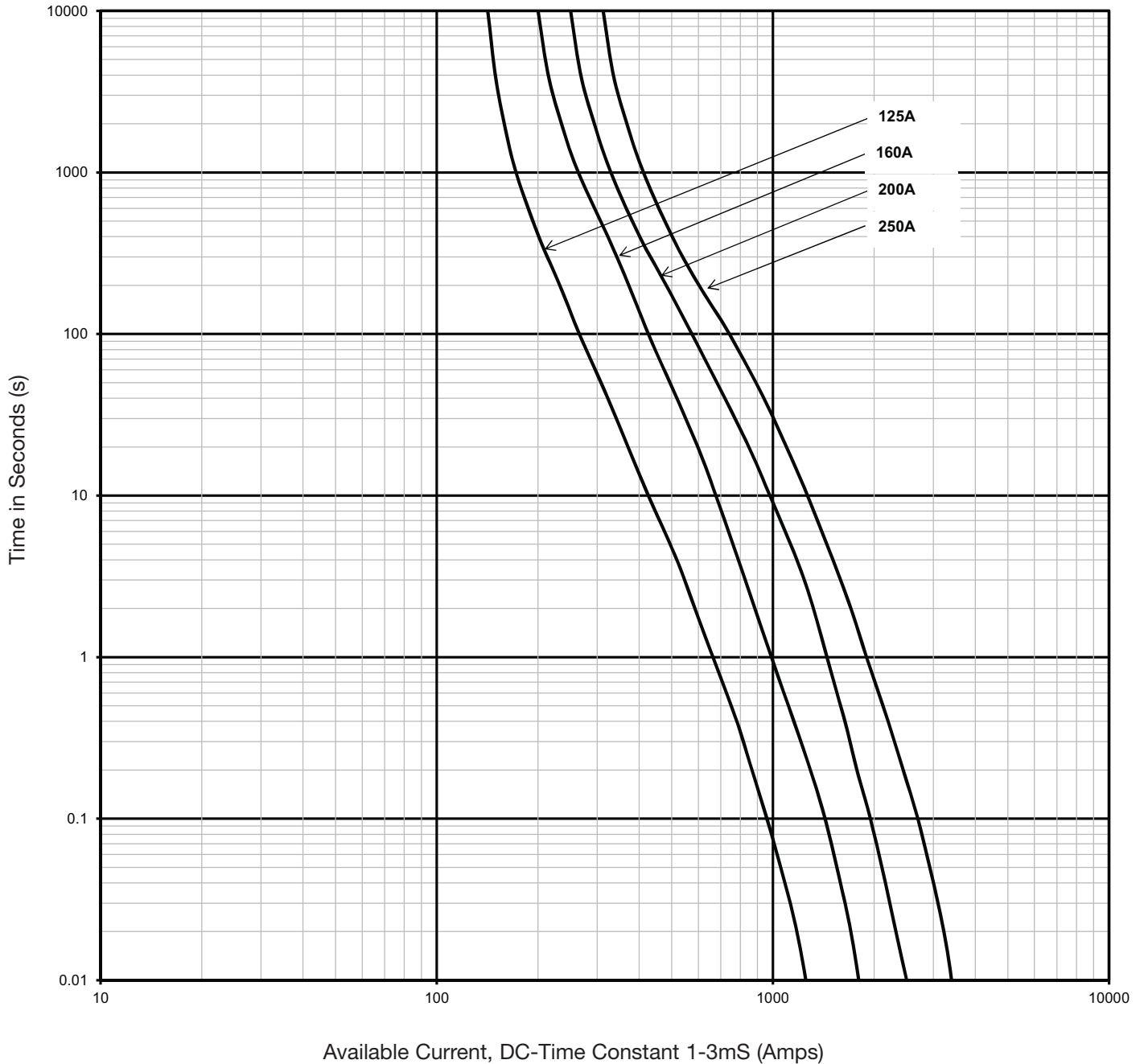


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Time-Curent Characteristics 2XL 1500Vdc

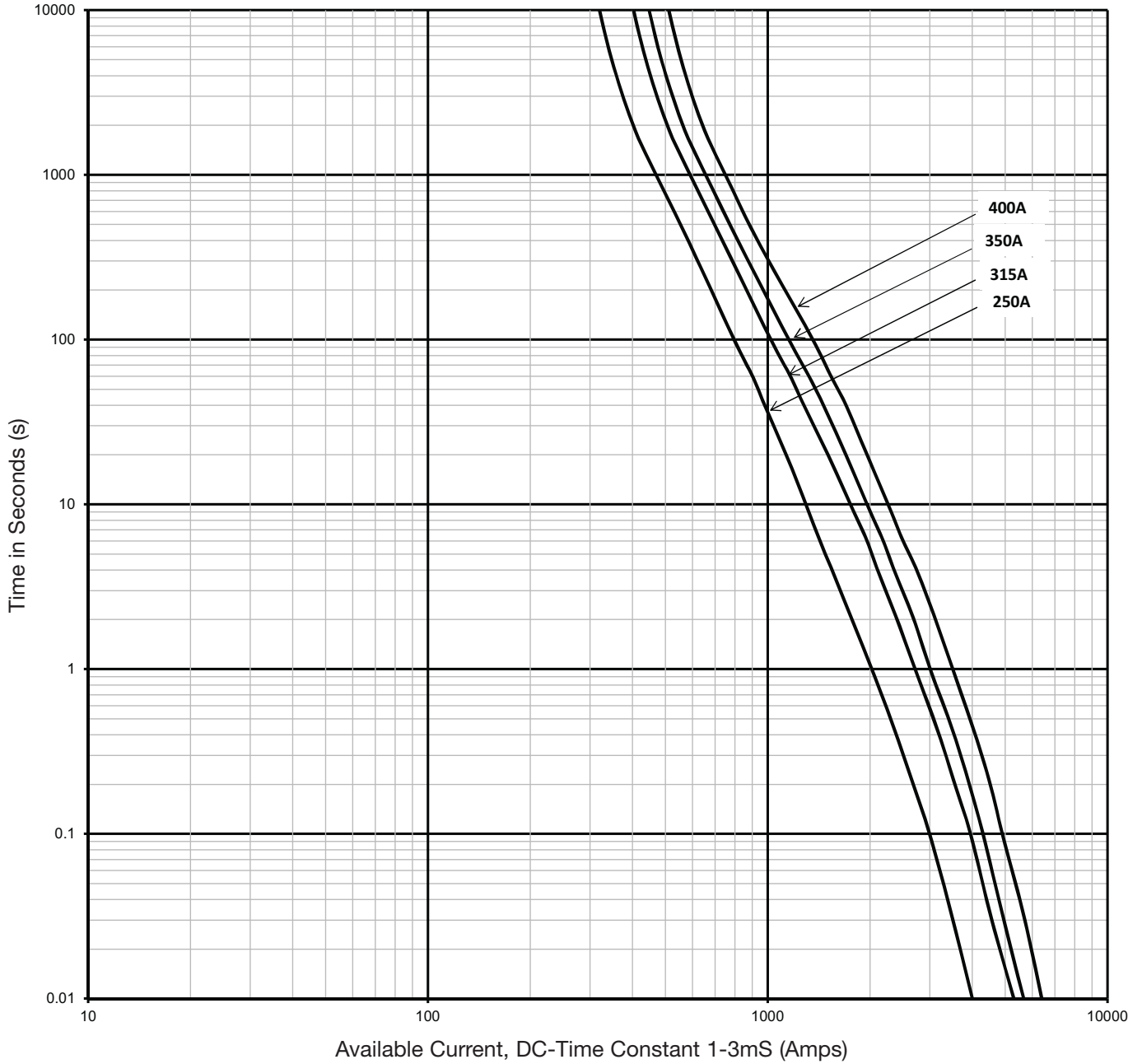


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Time-Curent Characteristics 3L 1500Vdc

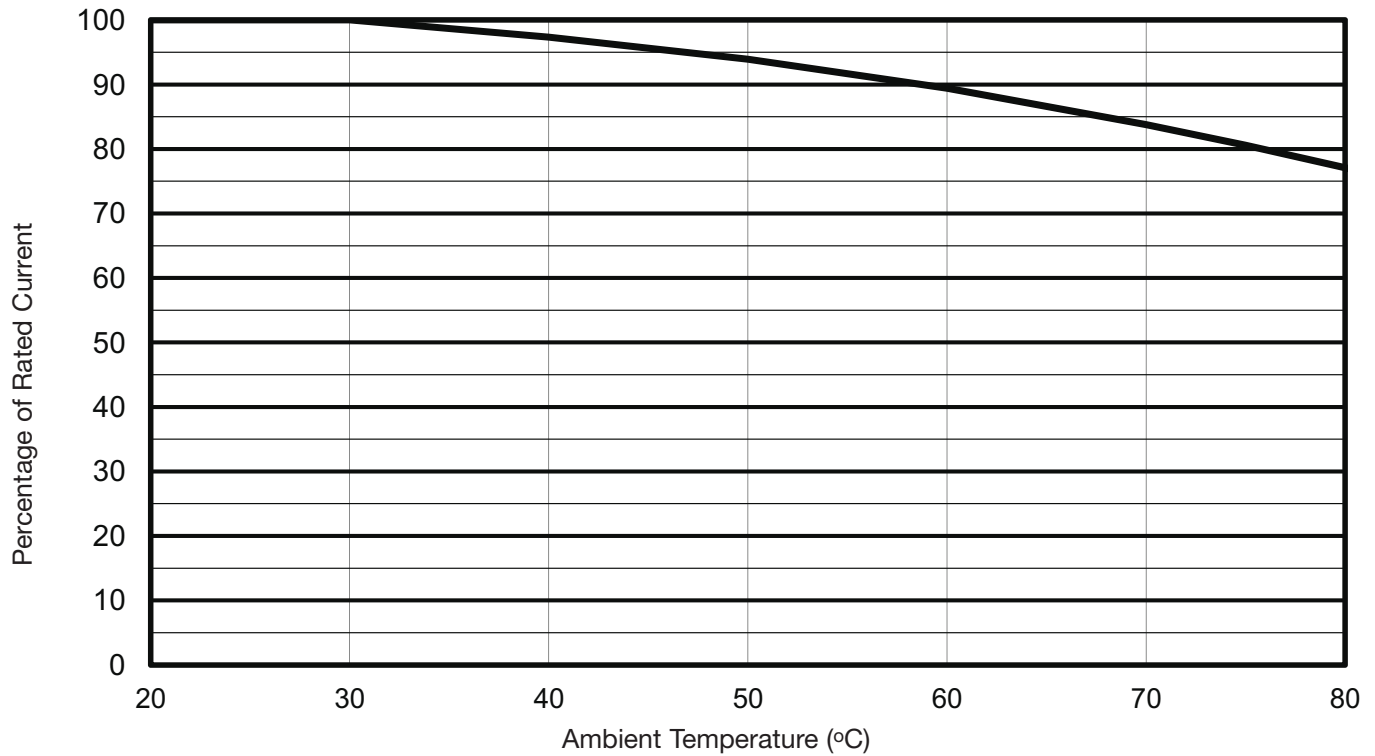


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Temperature Derating



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