

# NH photovoltaic fuse links



## Product description

Eaton's Bussmann® series NH size photovoltaic 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

- Compact design
- Low power loss
- Global accreditations
- Dual indicator feature
- Variation of fixing options
- Compatible with Bussmann series PV NH base range (see data sheet 720136)

**Catalogue symbol**

- Blade without bolt holes: PV-ratingNH(size)
- Blade with bolt holes PV-ratingNH(size)-B
- Blade with bolt holes and lugs: PV-ratingNH(size)-BL

**Fuse size**

- NH1, 2 and 3

**Technical data**

- Volts: 1000 V d.c.
- Amps: 32 to 400 A
- Breaking capacity: 50 kA
- Time constant: 1-3ms
- Class of operation: gPV and UL PV fuse links

**Standards/Agency information**

- IEC 60269-6
- UL 248-19 (file number E335324)
- CSA listed
- RoHS compliant

**Microswitches (ordered separately, only for use with bladed version)**

- 170H0236
- 170H0238

**Fuse holders (ordered separately, only for use with bladed version)**

- SD1-D-PV
- SD2-D-PV
- SD3-D-PV

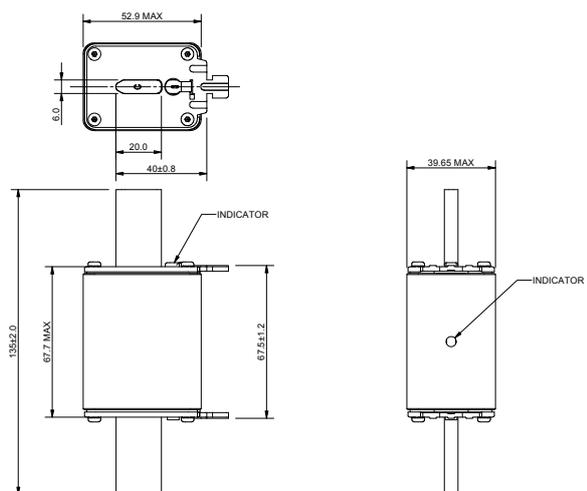
**Packaging**

- MOQ 3

**Table 1. Technical data - Blade without bolt holes**

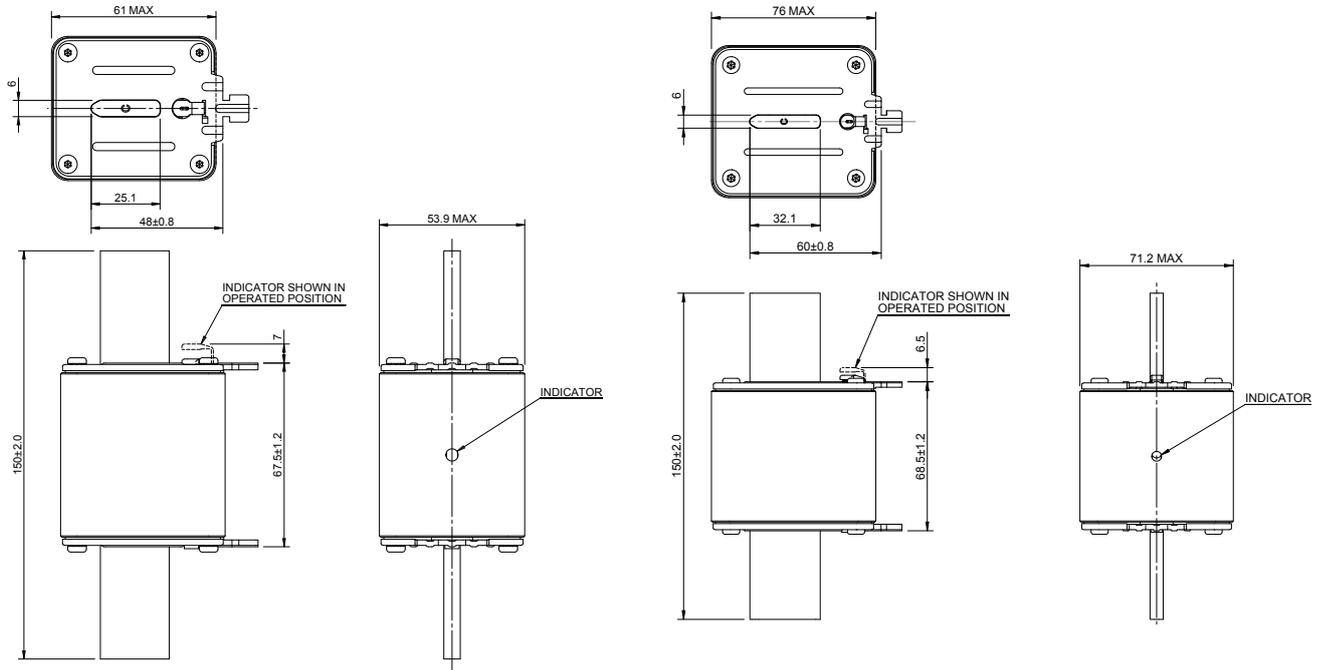
Catalogue number	Fuse size	Current rating (amps)	Energy integrals I <sup>2</sup> t (A <sup>2</sup> S)		Watts loss (W)	
			Pre-arcing	Total at 1000 V	0.8I <sub>n</sub>	I <sub>n</sub>
PV-32ANH1	NH1	32	80	720	4	8.5
PV-40ANH1	NH1	40	185	1670	5	9
PV-50ANH1	NH1	50	400	3600	6	11
PV-63ANH1	NH1	63	470	4300	6	12
PV-80ANH1	NH1	80	640	5760	8	15.5
PV-100ANH1	NH1	100	1300	11700	8	16.5
PV-110ANH1	NH1	110	2100	18900	9	18.5
PV-125ANH1	NH1	125	2600	23400	9	17.5
PV-160ANH1	NH1	160	5200	46800	14	27.5
PV-175ANH1	NH1	175	8300	74700	15	29
PV-200ANH1	NH1	200	10200	82000	13	25
PV-160ANH2	NH2	160	4600	37000	14	28
PV-200ANH2	NH2	200	9500	76000	16	32
PV-250ANH2	NH2	250	17000	136000	19	38
PV-300ANH3	NH3	300	32000	260000	24	40
PV-315ANH3	NH3	315	32000	260000	26	44
PV-350ANH3	NH3	350	44500	370000	27	45
PV-355ANH3	NH3	355	44500	370000	28	46
PV-400ANH3	NH3	400	67500	550000	30	50

**Dimensions - Blade without bolt holes - mm**



NH size 1

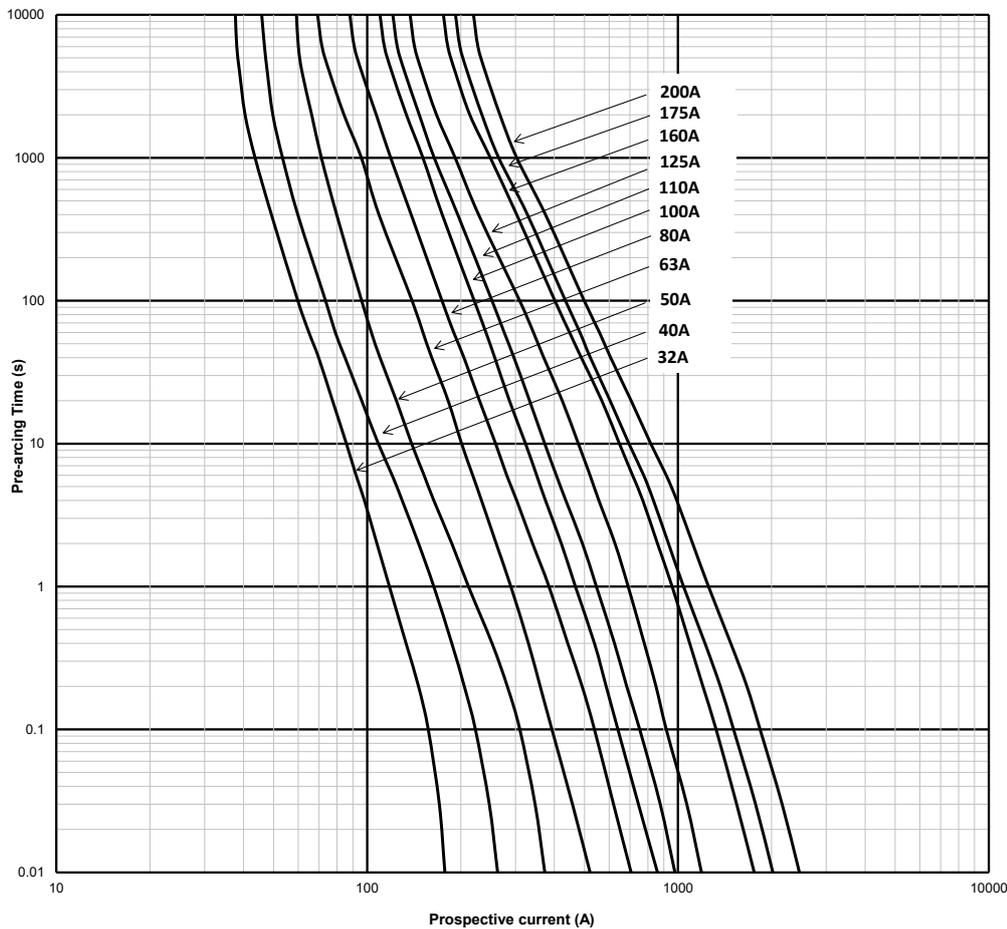
**Dimensions - Blade without bolt holes - mm**



NH size 2

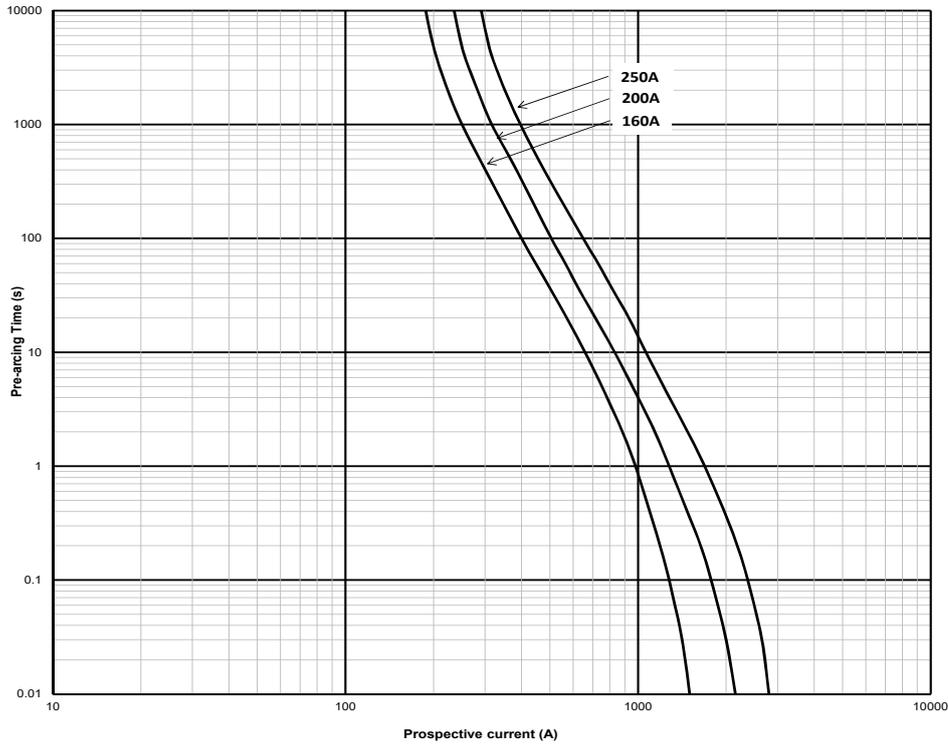
NH Size 3

**Time current-curve - Blade without bolt holes**

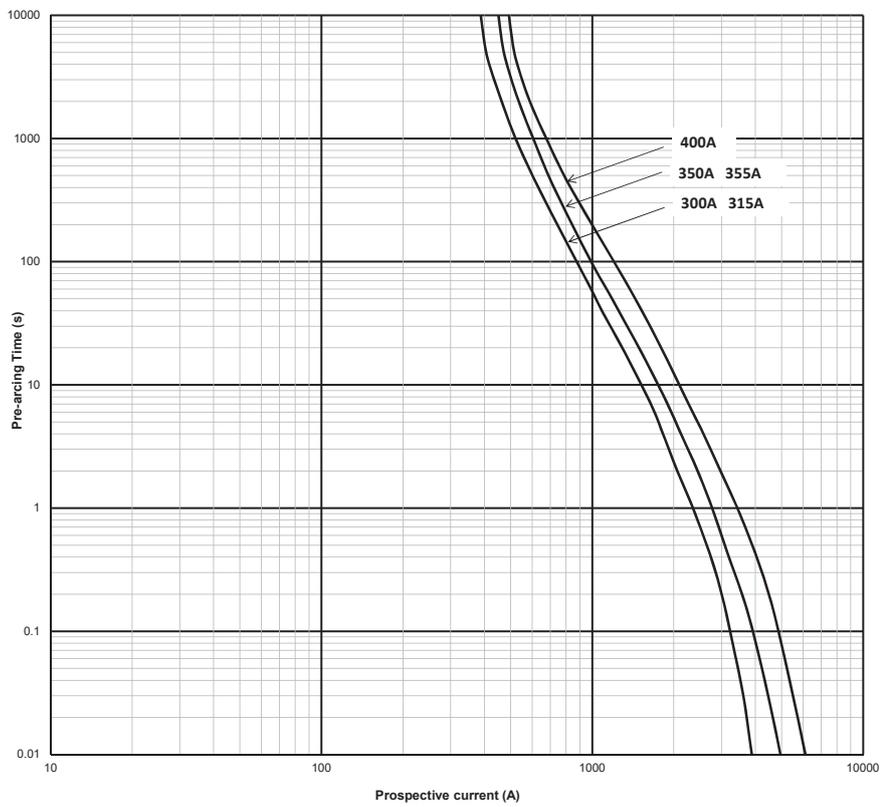


NH Size 1

**Time current-curve - Blade without bolt holes**



NH size 2

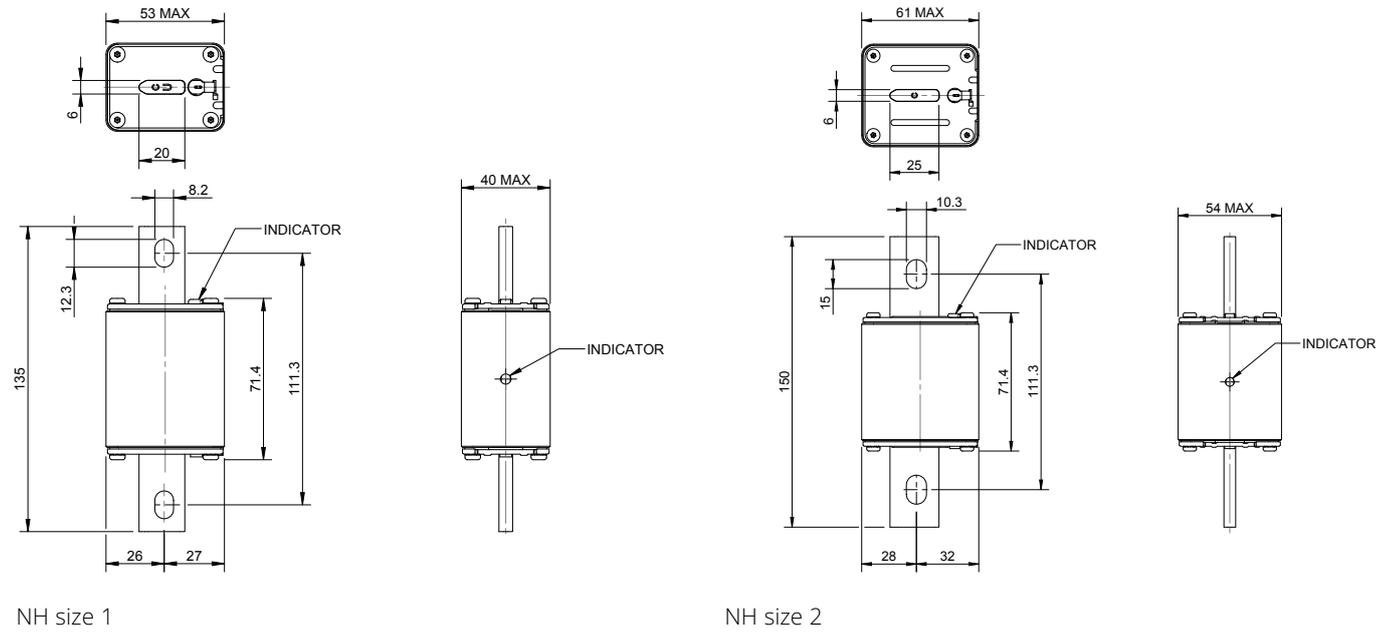


NH size 3

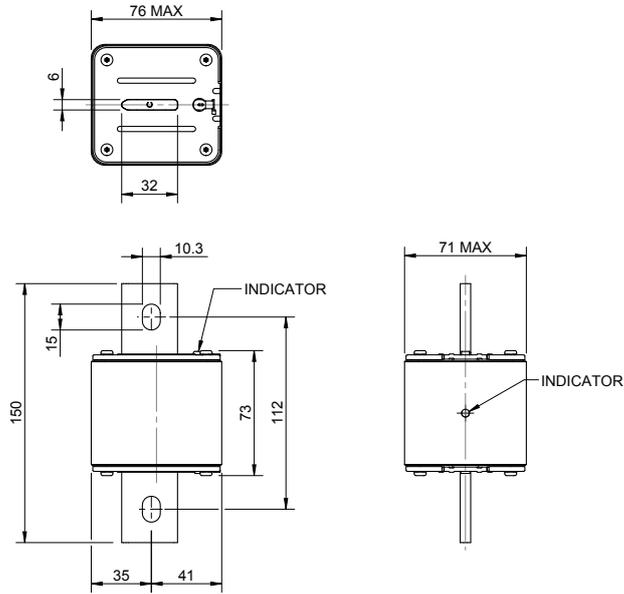
**Table 2. Technical data - Blade with bolt holes**

Catalogue numbers			Current rating (amps)	Energy integrals I <sup>2</sup> t (A <sup>2</sup> s)		Watts loss (w)	
With bolt holes	With bolt holes and lugs	Fuse size		Pre-arcing	Total at 1000 V	0.8I <sub>n</sub>	I <sub>n</sub>
PV-63ANH1-B	PV-63ANH1-BL	NH1	63	470	4300	6	12
PV-80ANH1-B	PV-80ANH1-BL	NH1	80	640	5760	8	15
PV-100ANH1-B	PV-100ANH1-BL	NH1	100	1300	11,700	8	16
PV-125ANH1-B	PV-125ANH1-BL	NH1	125	2600	23,400	9	17
PV-160ANH1-B	PV-160ANH1-BL	NH1	160	5200	46,800	14	27
PV-200ANH1-B	PV-200ANH1-BL	NH1	200	10,200	82,000	13	25
PV-250ANH2-B	PV-250ANH2-BL	NH2	250	17,000	1360,00	19	38
PV-300ANH3-B	PV-300ANH3-BL	NH3	300	32,000	260,000	24	40
PV-315ANH3-B	PV-315ANH3-BL	NH3	315	32,000	260,000	26	44
PV-355ANH3-B	PV-355ANH3-BL	NH3	355	38,000	310,000	29	48
PV-400ANH3-B	PV-400ANH3-BL	NH3	400	61,000	490,000	32	50

**Dimensions - Blade with bolt holes - mm**

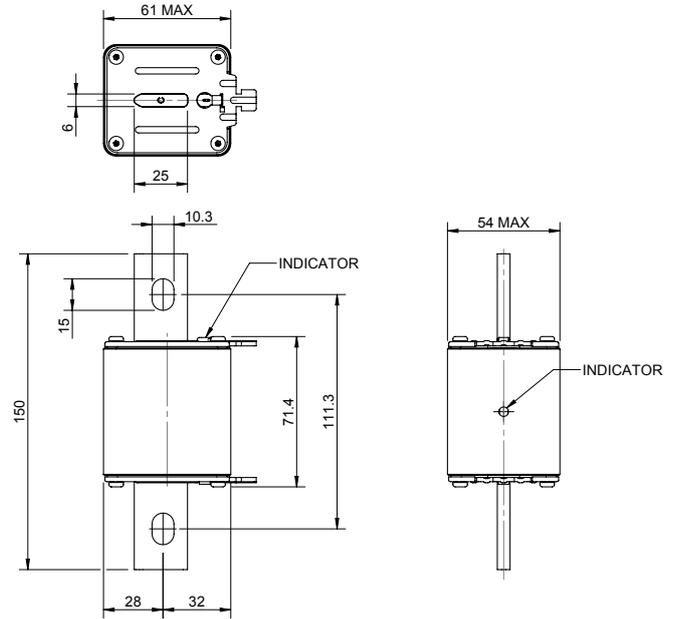


**Dimensions - Blade with bolt holes - mm**



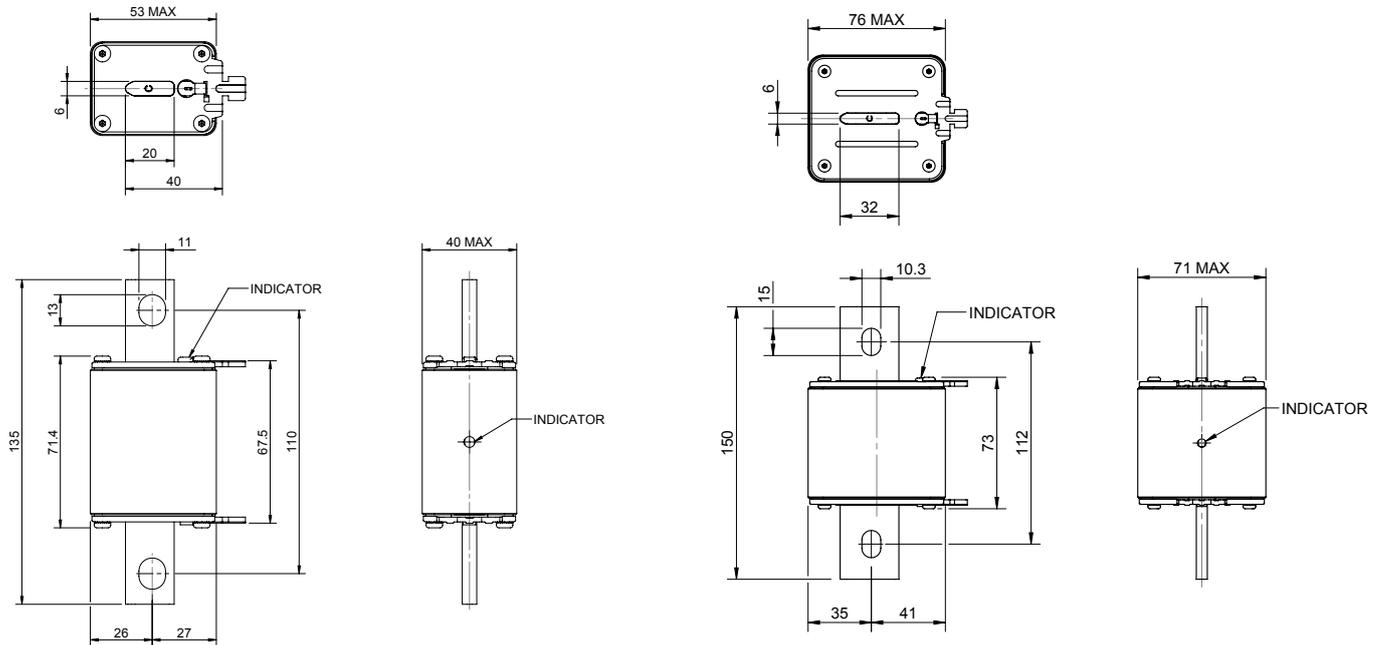
NH size 3

**Dimensions - Blade with bolt holes and lugs - mm**



NH size 2

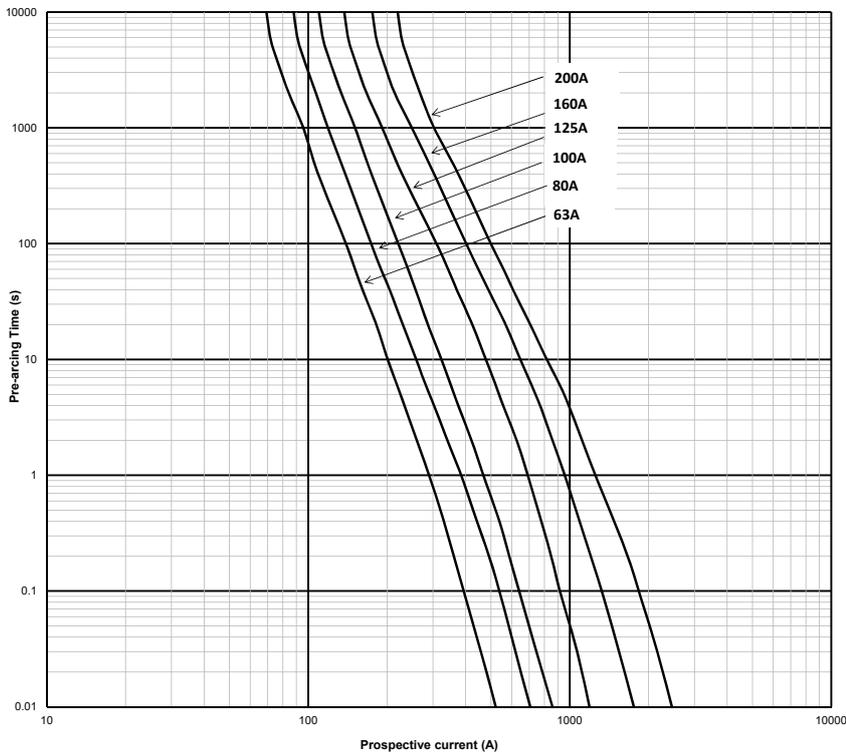
**Dimensions - Blade with bolt holes and lugs - mm**



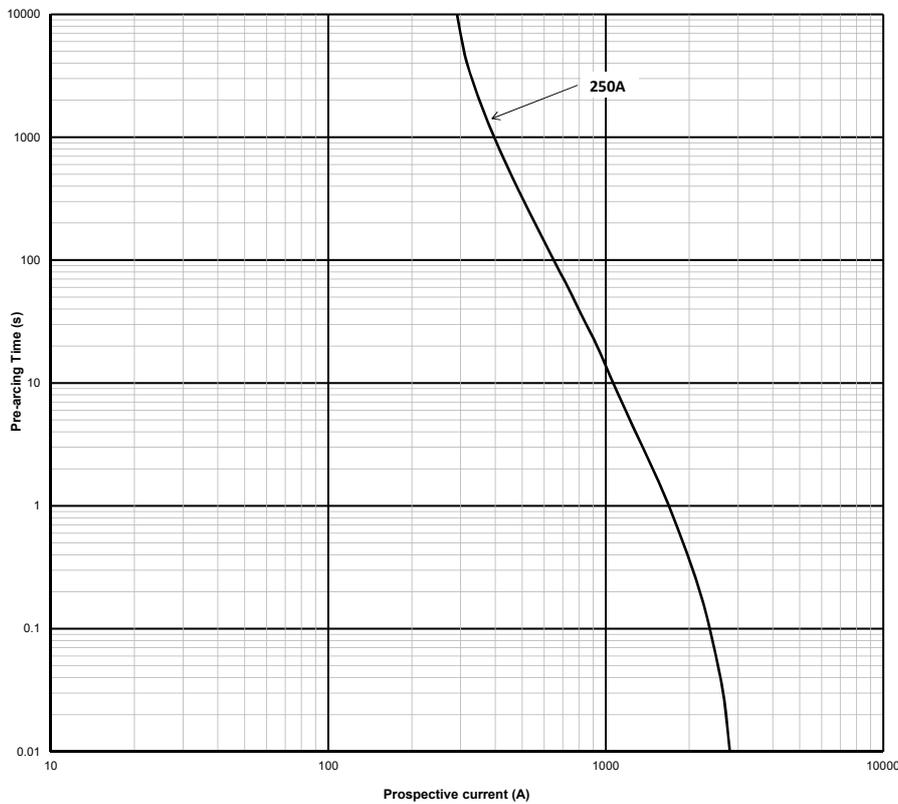
NH size 1

NH size 3

**Time current-curve - Blade with bolt holes, with or without lugs**

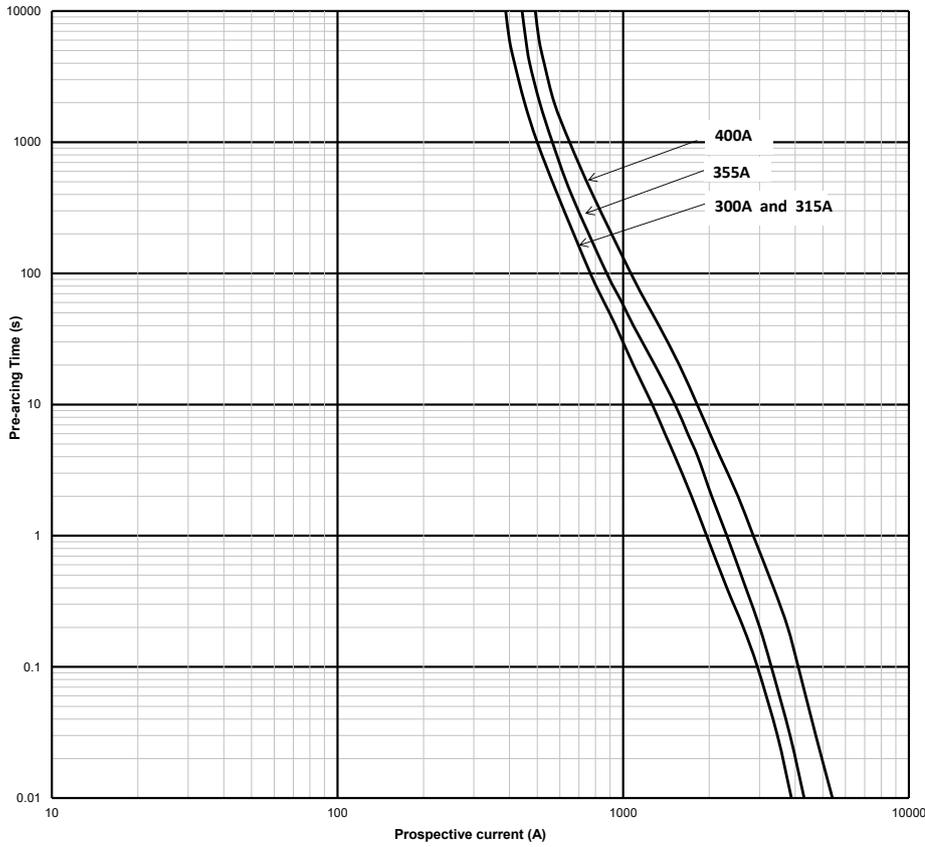


NH size 1



NH size 2

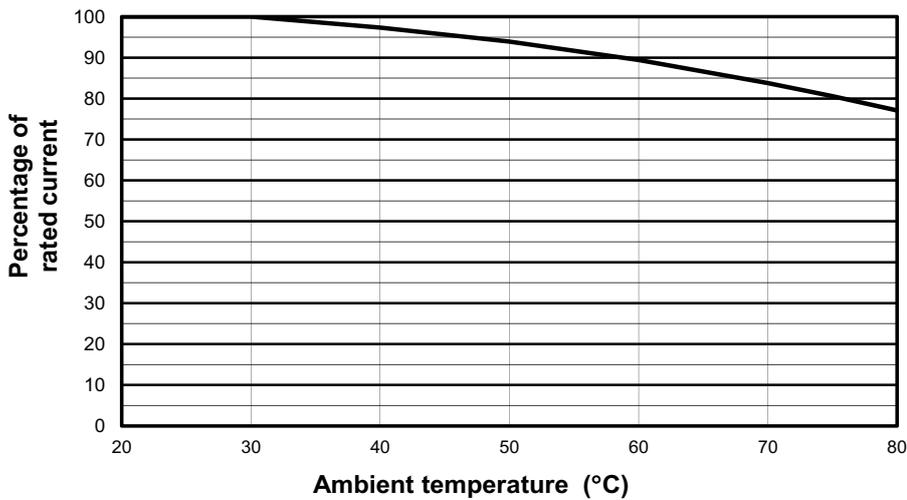
**Time current-curve - Blade with bolt holes, with or without lugs**



NH size 3

**Temperature derating for blades without bolt holes, with bolt holes (with or without lugs)**

**PV Array fuse link derating with temperature**



**Compatible NH fuse bases and microswitches**

Fuse link body size	Rated voltage	Rated current (Amps)	Catalogue numbers			Compatible NH fuse bases	Compatible microswitches
			Blade without bolt holes	Blade with bolt holes	Blade with bolt holes and lugs		
NH1	1000 V d.c. (IEC/UL)	32	PV-32ANH1	PV-32ANH1-B		SD1-D-PV	170H0236 and 170H0238
		40	PV-40ANH1	PV-40ANH1-B		SD1-D-PV	170H0236 and 170H0238
		50	PV-50ANH1	PV-50ANH1-B		SD1-D-PV	170H0236 and 170H0238
		63	PV-63ANH1	PV-63ANH1-B	PV-63ANH1-BL	SD1-D-PV	170H0236 and 170H0238
		80	PV-80ANH1	PV-80ANH1-B	PV-80ANH1-BL	SD1-D-PV	170H0236 and 170H0238
		100	PV-100ANH1	PV-100ANH1-B	PV-100ANH1-BL	SD1-D-PV	170H0236 and 170H0238
		110	PV-110ANH1			SD1-D-PV	170H0236 and 170H0238
		125	PV-125ANH1	PV-125ANH1-B	PV-125ANH1-BL	SD1-D-PV	170H0236 and 170H0238
		160	PV-160ANH1	PV-160ANH1-B	PV-160ANH1-BL	SD1-D-PV	170H0236 and 170H0238
		175	PV-175ANH1			SD1-D-PV	170H0236 and 170H0238
NH2	1000 V d.c. (IEC/UL)	160	PV-160ANH2	PV-160ANH2-B	PV-160ANH2-BL	SD2-D-PV	170H0236 and 170H0238
		200	PV-200ANH2	PV-200ANH2-B	PV-200ANH2-BL	SD2-D-PV	170H0236 and 170H0238
		250	PV-250ANH2	PV-250ANH2-B	PV-250ANH2-BL	SD2-D-PV	170H0236 and 170H0238
NH3	1000 V d.c. (IEC/UL)	300	PV-300ANH3	PV-300ANH3-B	PV-300ANH3-BL	SD3-D-PV	170H0236 and 170H0238
		315	PV-315ANH3	PV-315ANH3-B	PV-315ANH3-BL	SD3-D-PV	170H0236 and 170H0238
		350	PV-350ANH3			SD3-D-PV	170H0236 and 170H0238
		355	PV-355ANH3			SD3-D-PV	170H0236 and 170H0238
		355		PV-355ANH3-B	PV-355ANH3-BL	SD3-D-PV	170H0236 and 170H0238
		400	PV-400ANH3			SD3-D-PV	170H0236 and 170H0238
		400		PV-400ANH3-B	PV-400ANH3-BL	SD3-D-PV	170H0236 and 170H0238

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