Bussmann series
NH Battery storage fuse links



Bolted fuses



Bladed fuses

Product description

Eaton's Bussmann® series NH battery storage-fuses are specifically designed to protect and isolate battery array combiners and disconnects. These fuse links are capable of interrupting low overcurrents associated with faulted battery storage 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 NH bases (see data sheet 720136)

Powering Business Worldwide

Catalogue symbol

- Knife blade fuse link:BSF-(amps)G-NH(NH body size)10
- Bolted blade fuse link:BSF-(amps)G-NH(NH body size)10-B

For example catalogue number **BSF-200G-NH110** represents a **B**attery **S**torage **F**use, rated at **200** A, **G** operating class gBat, **NH** fuse type, NH fuse body size **1,** rated at **10**00 V d.c., Knife blade

Technical data

- Rated voltage: 1000 V d.c.
- Rated current: 63 to 400 A
- Fuse body size: 1, 2 or 3
- Operating class: gBat proposed for full range fuse links for protection of battery storage systems
- Breaking capacity: 100 kA
- Time constant: 4.5 ms at 100 kA
- ROHS and Reach compliant

Standards/Approvals

- IEC 60269-7 for battery storage fuse links is under preparation (expected publication in 2020)

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

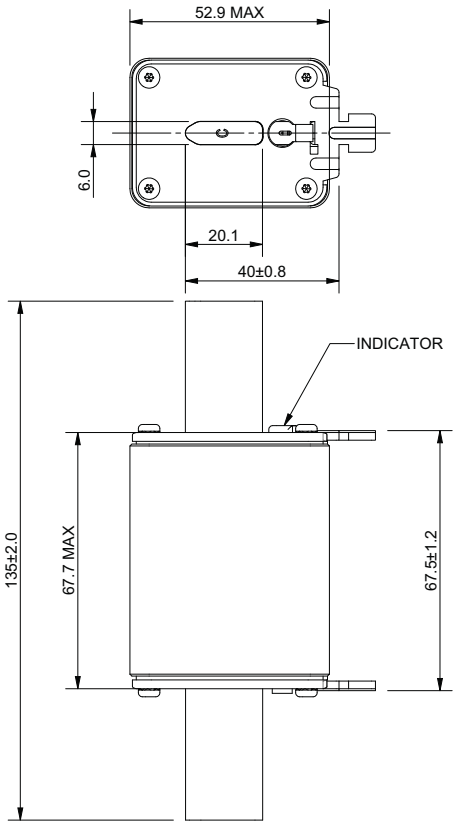
Packaging

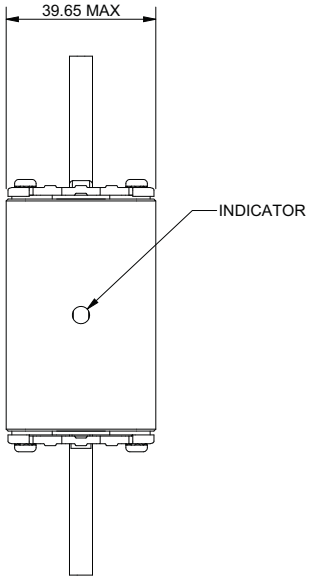
- 3 in a pack

Technical data

Catalogue number with knife blade	Catalogue number with bolted blade	Fuse body size	Rated current (Amps)	Rated voltage (V d.c.)	Pre-arcing I^2t	Total I^2t @ 1000 V d.c.	Power loss at 0.7 x I_n (W)	Power loss at I_n (W)
BSF-063G-NH110	BSF-063G-NH110-B	1	63	1000	470	4300	5	12
BSF-080G-NH110	BSF-080G-NH110-B	1	80	1000	640	5760	6	15.5
BSF-100G-NH110	BSF-100G-NH110-B	1	100	1000	1300	11,700	7	16.5
BSF-125G-NH110	BSF-125G-NH110-B	1	125	1000	2600	23,400	7	17.5
BSF-160G-NH110	BSF-160G-NH110-B	1	160	1000	5200	46,800	11	27.5
BSF-160G-NH210	BSF-160G-NH210-B	2	160	1000	4600	37,000	11	28
BSF-200G-NH210	BSF-200G-NH210-B	2	200	1000	9500	76,000	13	32
BSF-250G-NH210	BSF-250G-NH210-B	2	250	1000	17,000	136,000	15	38
BSF-315G-NH310	BSF-315G-NH310-B	3	315	1000	32,000	260,000	18	44
BSF-355G-NH310	BSF-355G-NH310-B	3	355	1000	44,500	370,000	18	46
BSF-400G-NH310	BSF-400G-NH310-B	3	400	1000	67,500	550,000	21	52

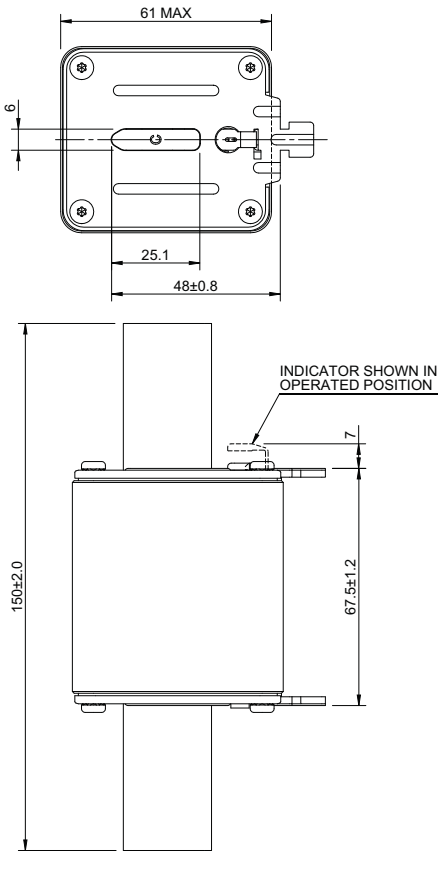
Dimensions mm - NH1 Bladed fuse links

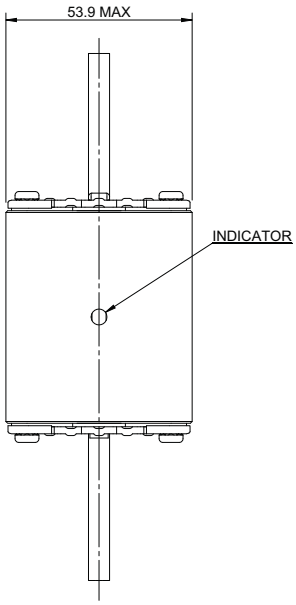


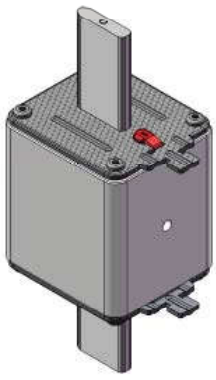




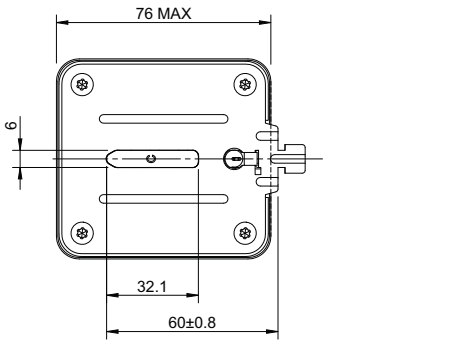
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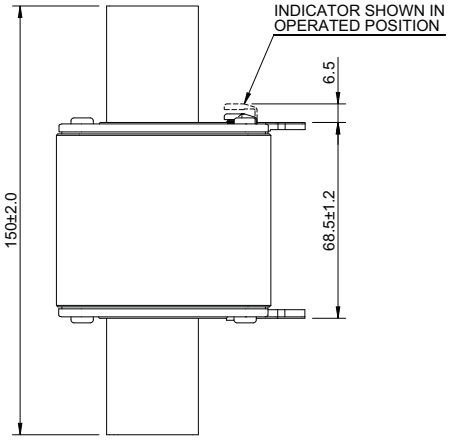


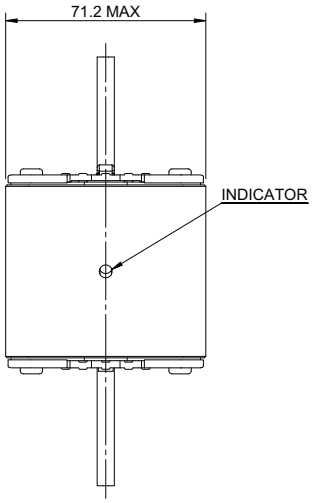


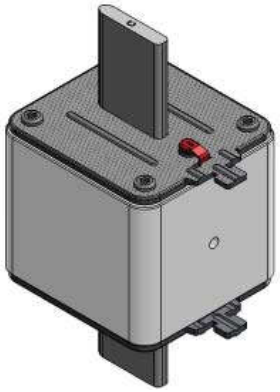


Dimensions mm - NH3 Bladed fuse links

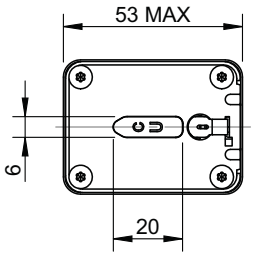


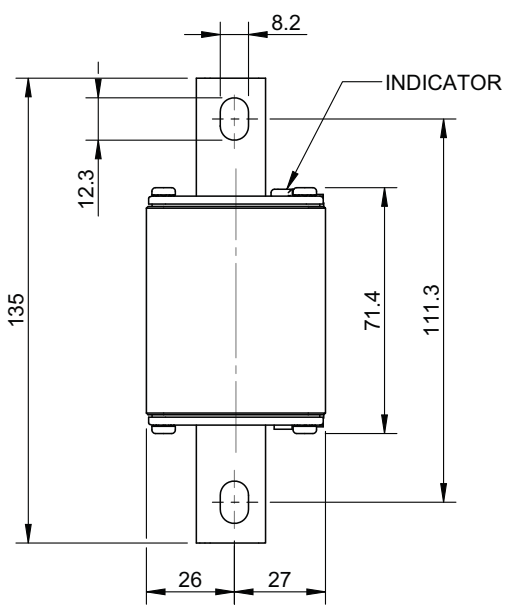


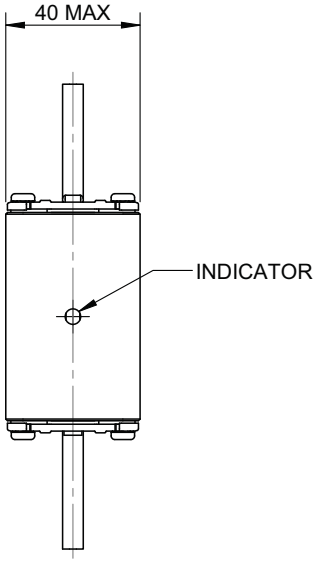


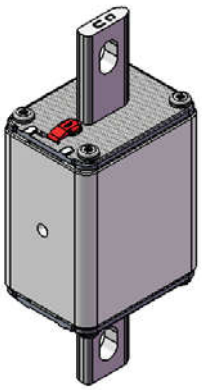


Dimensions mm - NH1 Bolted fuse links

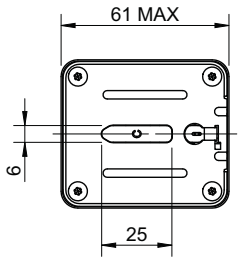


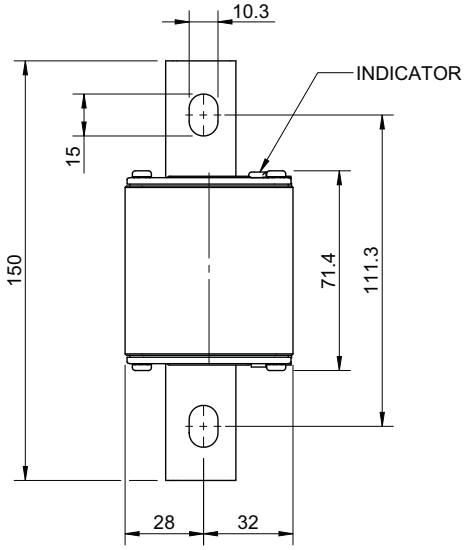


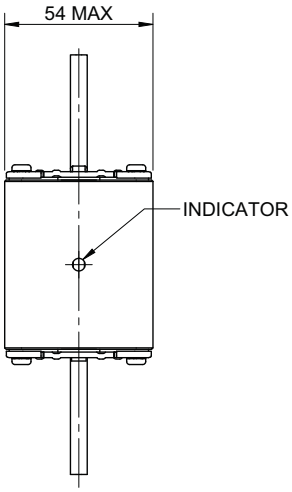


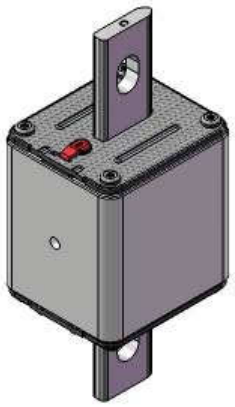


Dimensions mm - NH2 Bolted fuse links

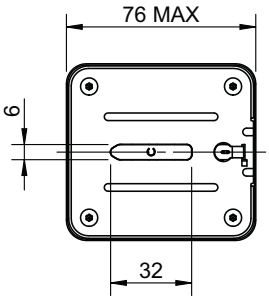


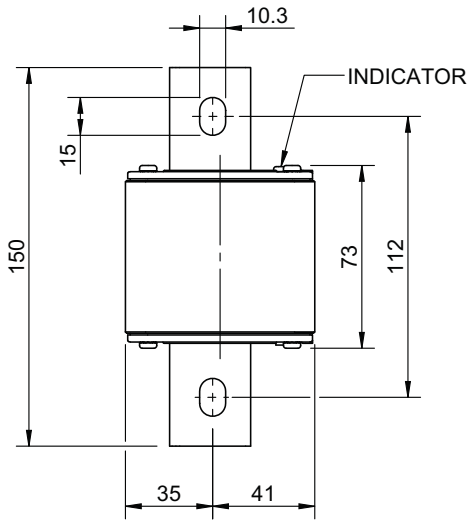


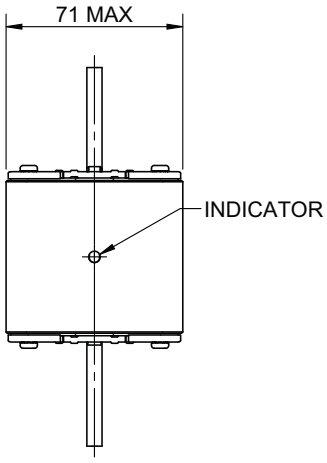


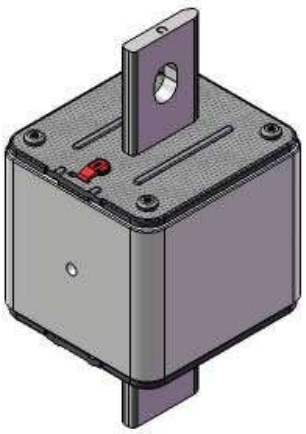


Dimensions mm - NH3 Bolted fuse links

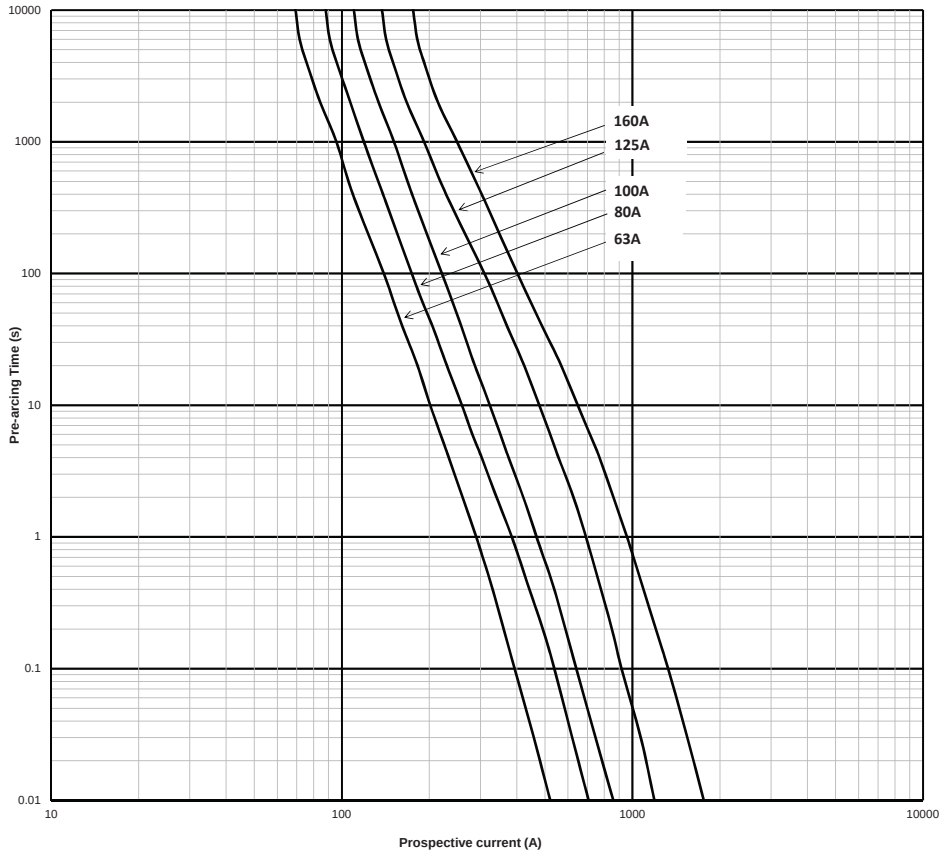




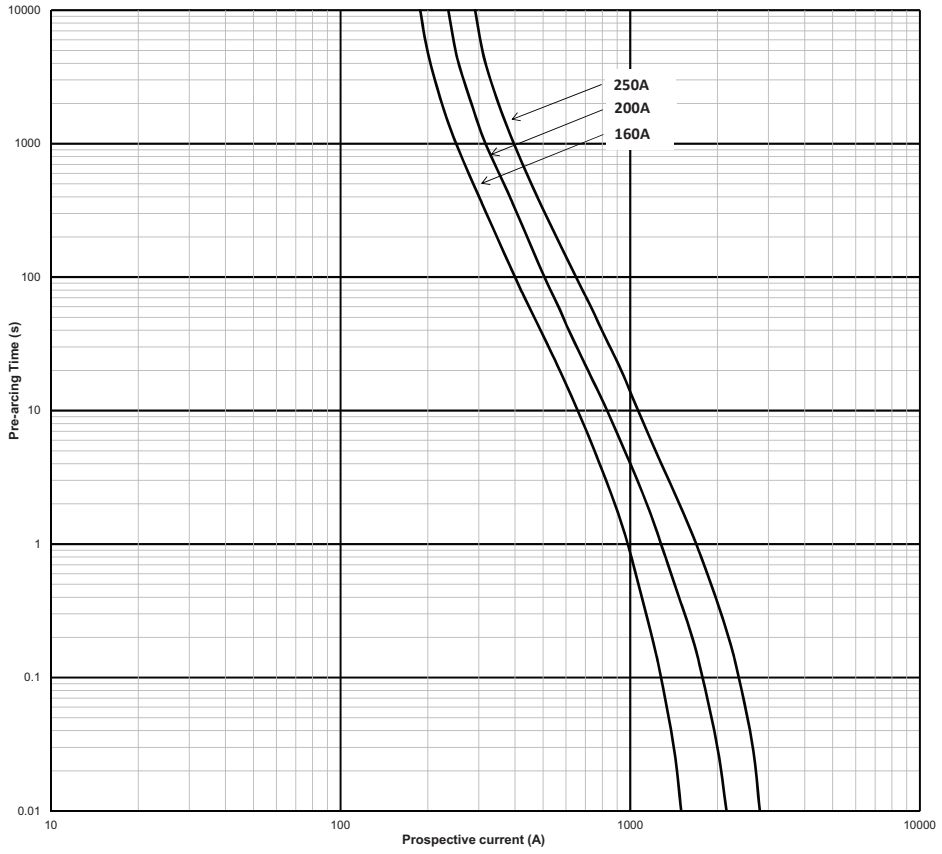




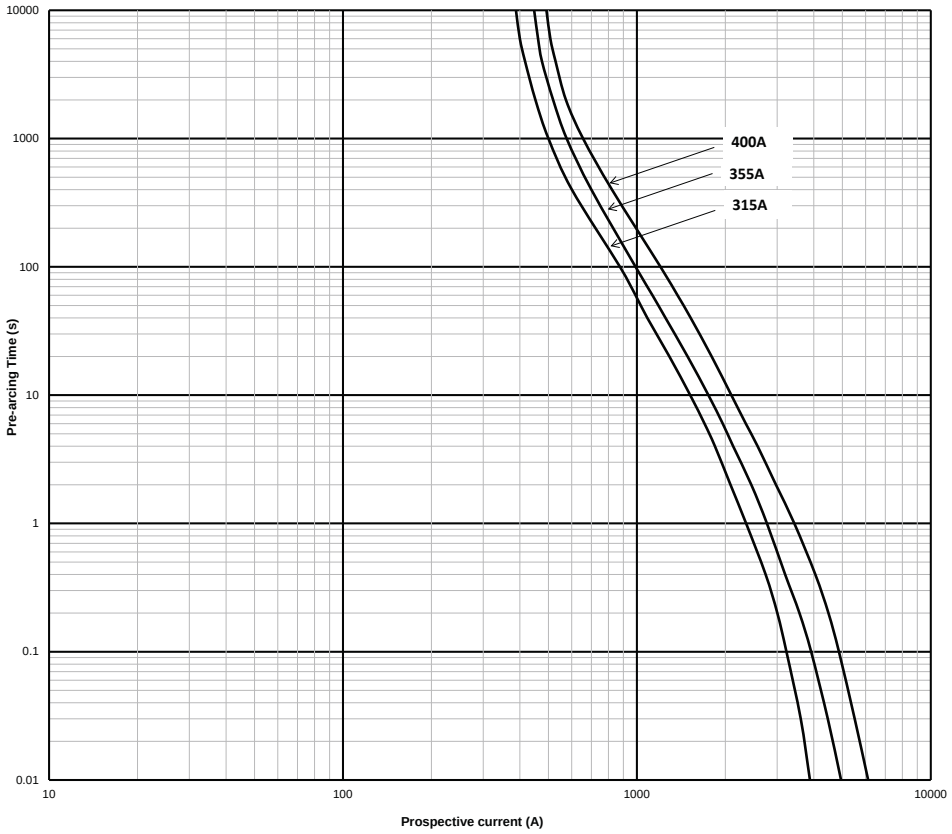
Time-current curve - NH1 fuse links



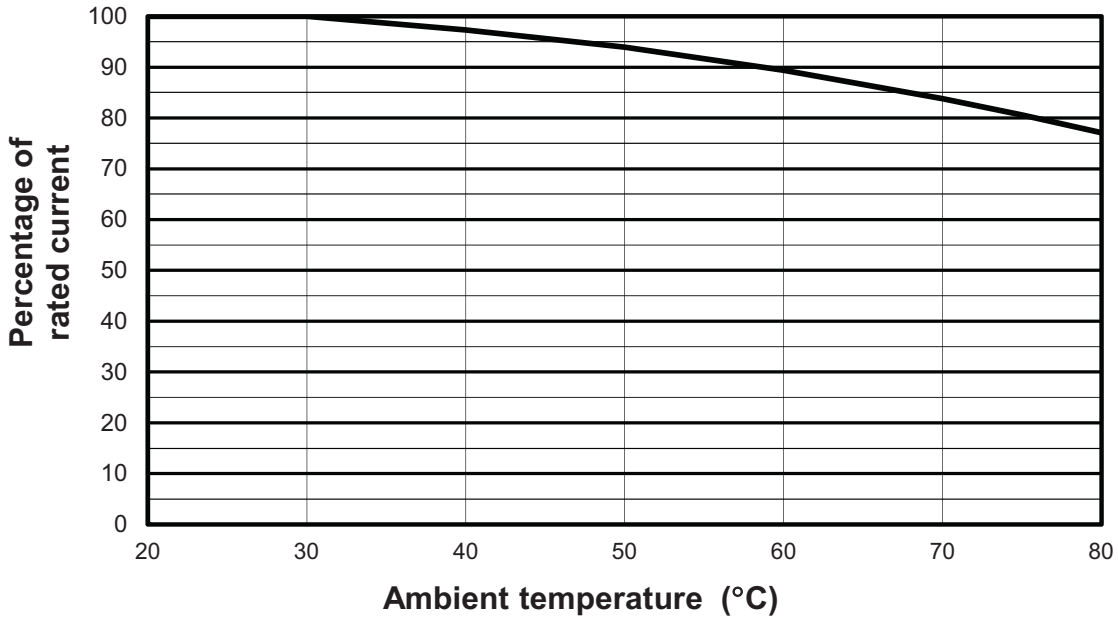
Time-current curve - NH2 fuse links



Time-current curve - NH3 fuse links

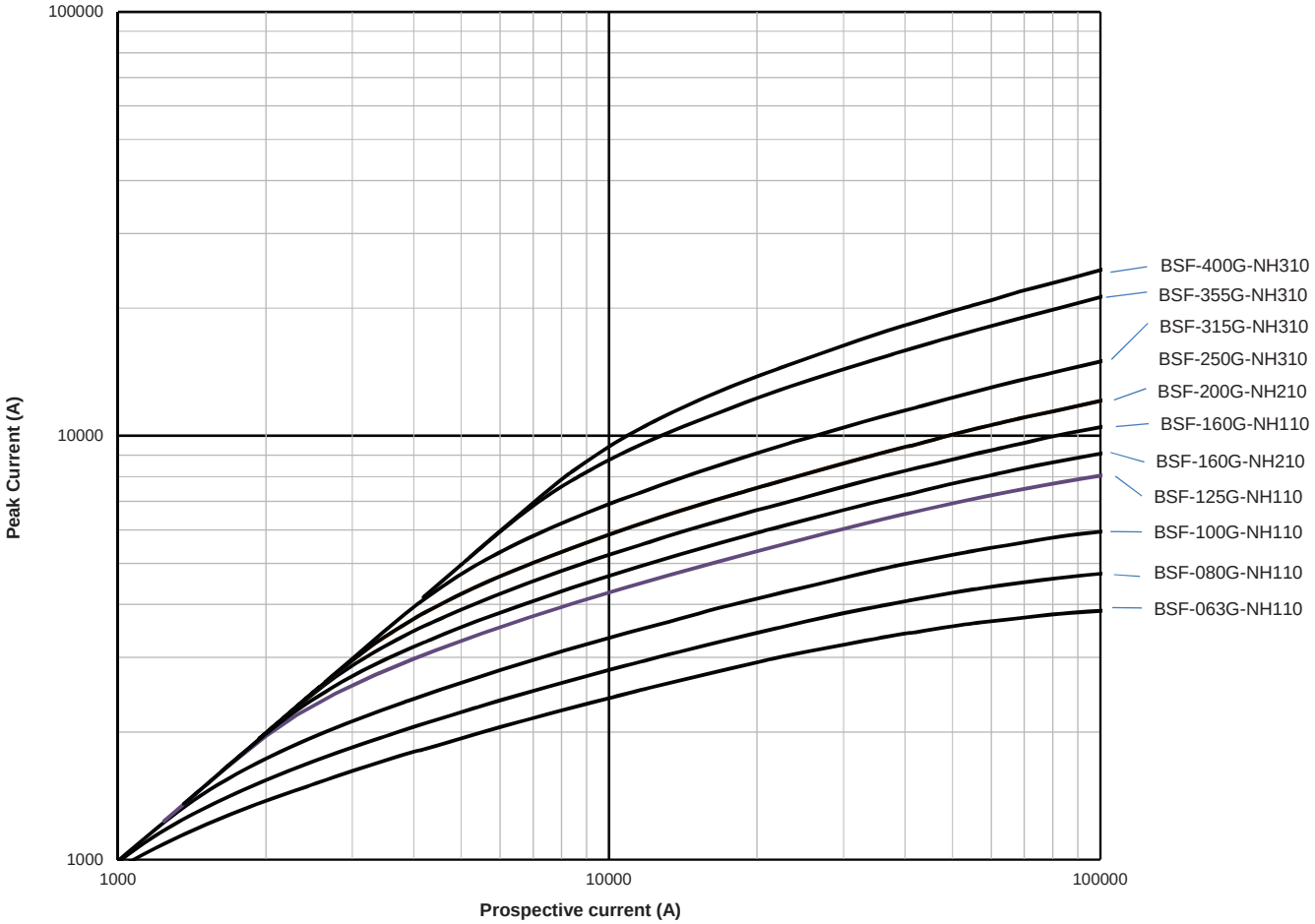


Temperature derating curve



(The ambient temperature is that local to the fuse link)

Peak let-through curve



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