Bussmann series XL Battery storage fuse links



Product description

Eaton's Bussmann® series XL 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
- Bolted and bladed fixing variants
- Indicator feature
- Compatible with Bussmann series XL fuse bases (see data sheet 10685)

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Catalogue symbol

- Knife blade fuse link:BSF-(amps)G-3XL15
- Bolted blade fuse link:BSF-(amps)G-3XL15-B

For example catalogue number **BSF-250G-3XL15** represents a **B**attery **S**torage **F**use, rated at **250** A, **G** operating class gBat, **3XL XL fuse body size,** rated at **15**00 V d.c., Knife blade

Technical data

- Rated voltage: 1500 V d.c.
- Rated current: 250 to 500 A
- Fuse body size: 3L
- 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 2021)

Packaging

- 1 in a pack

Microswitches

- For knife blade fuse links: 170H0236 or 170H0238
- For bolted fuse links: 170H0069

Fuse bases for knife blades fuse links only:

- SD3L-S-PV (up to 400 A only) see details on data sheet 10685

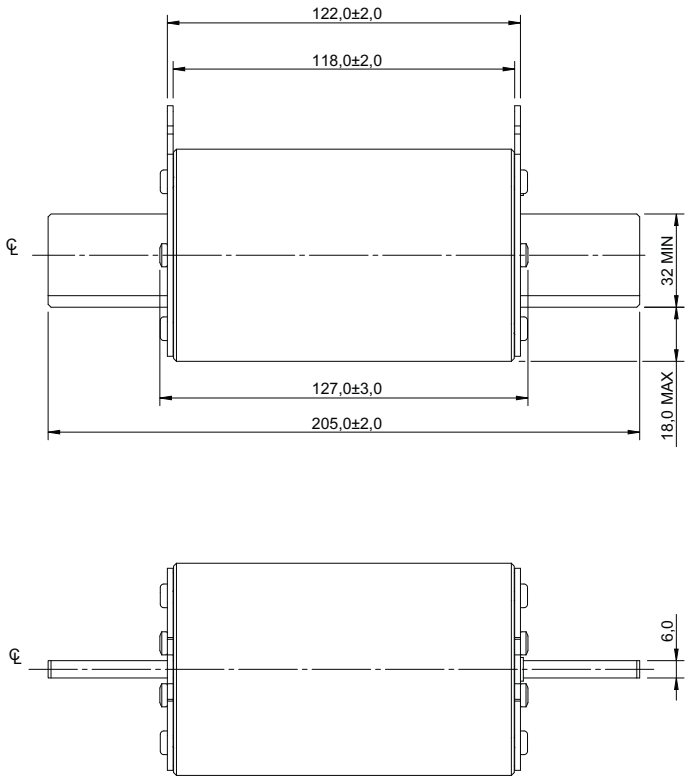
Packaging

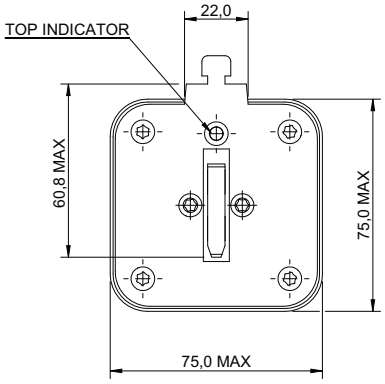
- 1 in a pack

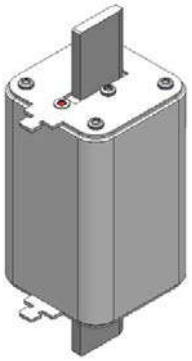
Technical data

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 @ 1500 V d.c.	Power loss at 0.7 x I_n (W)	Power loss at I_n (W)
BSF-250G-3XL15	BSF-250G-3XL15-B	3	250	1500	74,000	263,000	20	49
BSF-315G-3XL15	BSF-315G-3XL15-B	3	315	1500	150,000	533,000	21	52
BSF-355G-3XL15	BSF-355G-3XL15-B	3	355	1500	195,000	693,000	24	59
BSF-400G-3XL15	BSF-400G-3XL15-B	3	400	1500	296,000	1,060,000	24	61
BSF-450G-3XL15	BSF-450G-3XL15-B	3	450	1500	412,000	1,470,000	27	67
BSF-500G-3XL15	BSF-500G-3XL15-B	3	500	1500	532,000	1,890,000	29	73

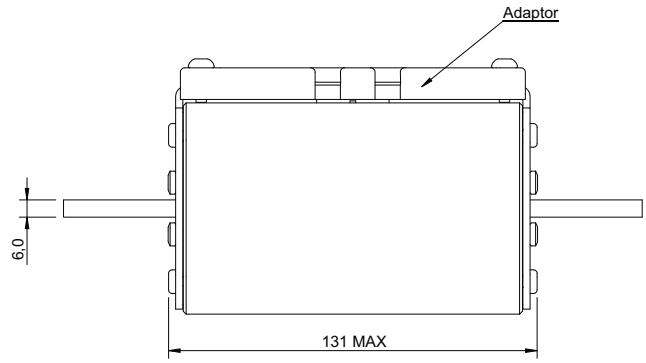
Dimensions mm - 3L Bladed

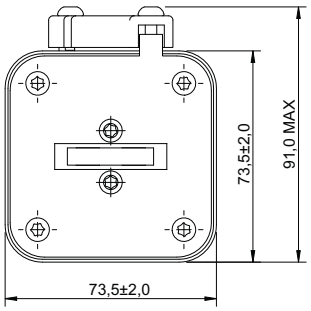


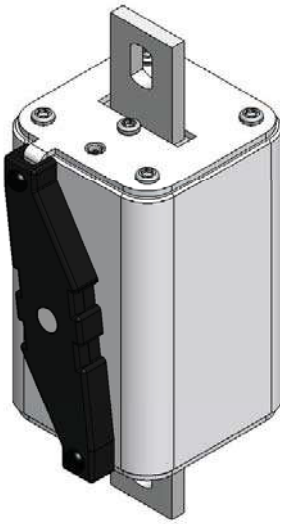


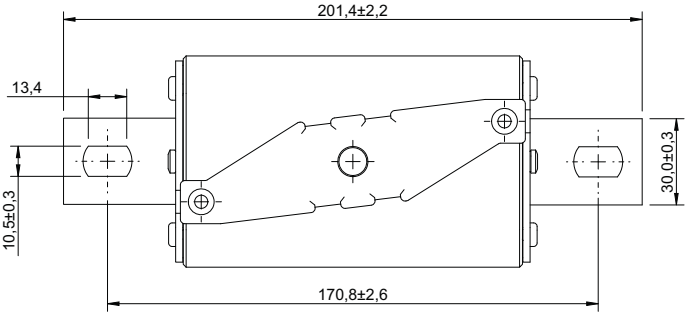


Dimensions mm - 3L Bolted

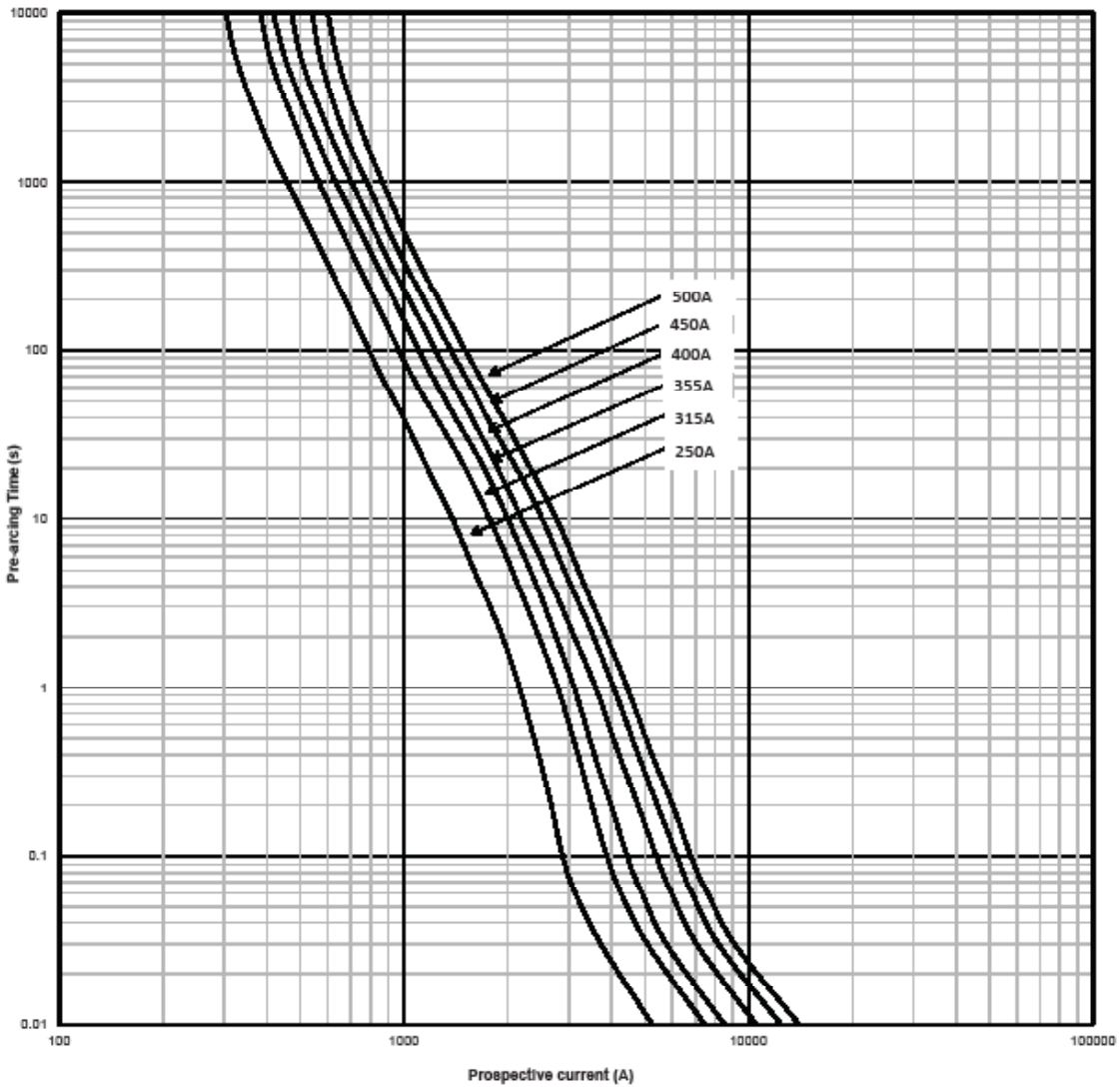




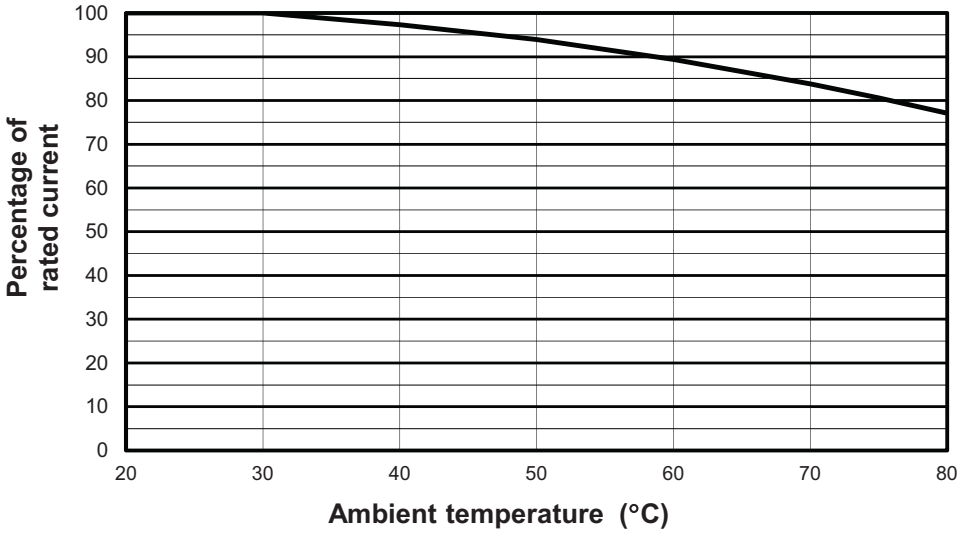




Time-current curve

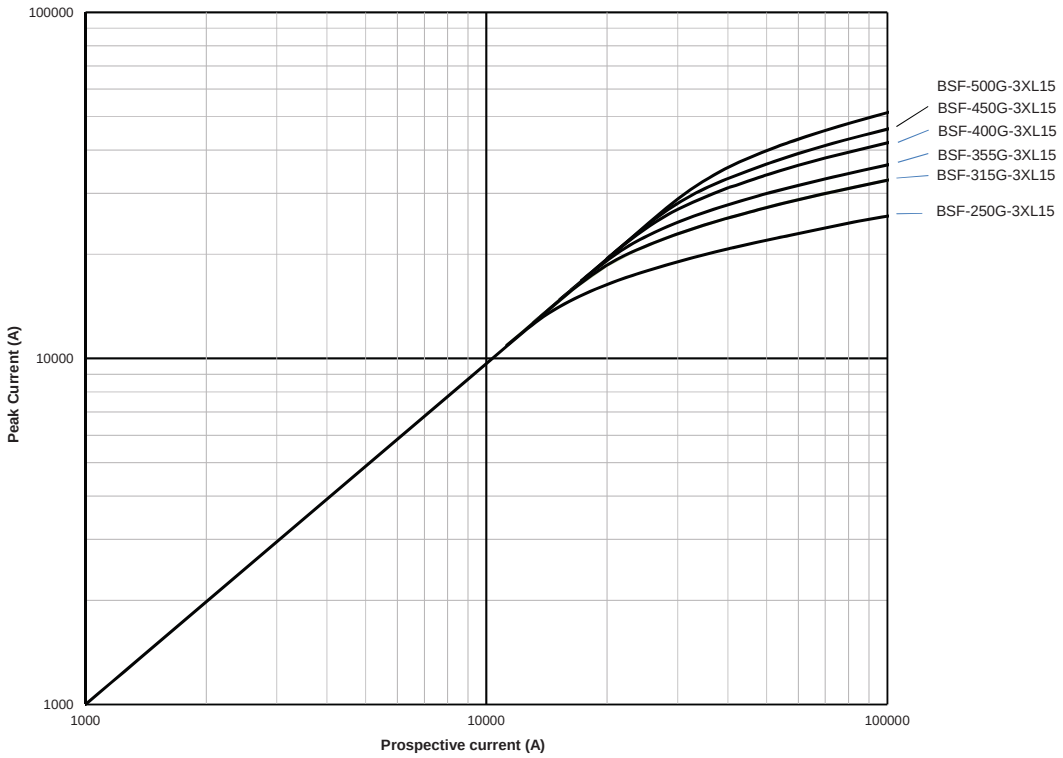


Temperature derating curve



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

Peak let-through curve



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