

180D gR Size 2HT fuse links



Product description

Eaton's Bussmann series 180D gR DC fuse links, size 2HT, are specifically designed for the protection of low overcurrent occurrences.

Features and benefits

- Excellent low overload and cable protection preventing damaged caused by overheated cables
- Low power dissipation, to prevent abnormal temperature rise, increases energy efficiency and lowers running cost
- Microswitches options available for indication of fuse operation
- Demonstrated performance in extreme temperature cycling conditions ensure your installation will be protected by the best possible and most suitable electrical circuit protection solutions.
- Eaton's Bussmann® series High-speed fuse links have leading DC performance making them the ideal choice for the protection of high-power DC applications
- Low minimum breaking current which offers easy coordination within DC applications and reduces dimensioning requirements of DC contactors to optimize space and decrease overall cost of System

Applications

- DC drives
- DC to DC Converters
- Power conversion systems
- DC to AC Inverters
- Electric Vehicle charging stations
- DC common bus protection
- DC cable protection



Powering Business Worldwide

Catalogue symbol

- 180D26xx, e.g 180D2612

Technical data

- Rated voltage:
 - 1000 V d.c. (IEC)
 - 1125 V d.c. (UL)
- Rated current: 125 A to 250 A
- Fuse body size: 2HT
- Operating class: gR
- Breaking capacity: 100 kA
- Time constant: 10 ms

Standards/Approvals

- Designed and tested to IEC 60269 part 4
- UL 248-13 Recognised
- RoHS/REACH Compliant

Microswitches

- 170H0236

Fuse holders

- SB2XL-S

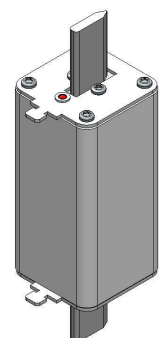
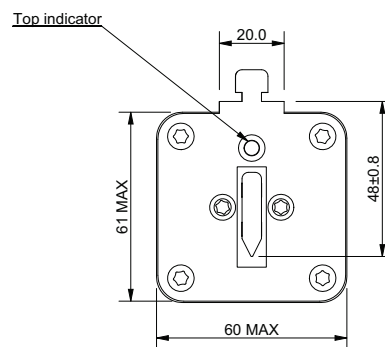
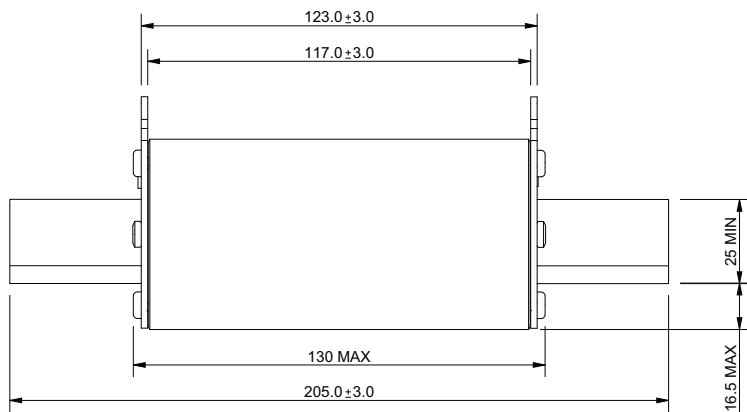
Packaging

- 1

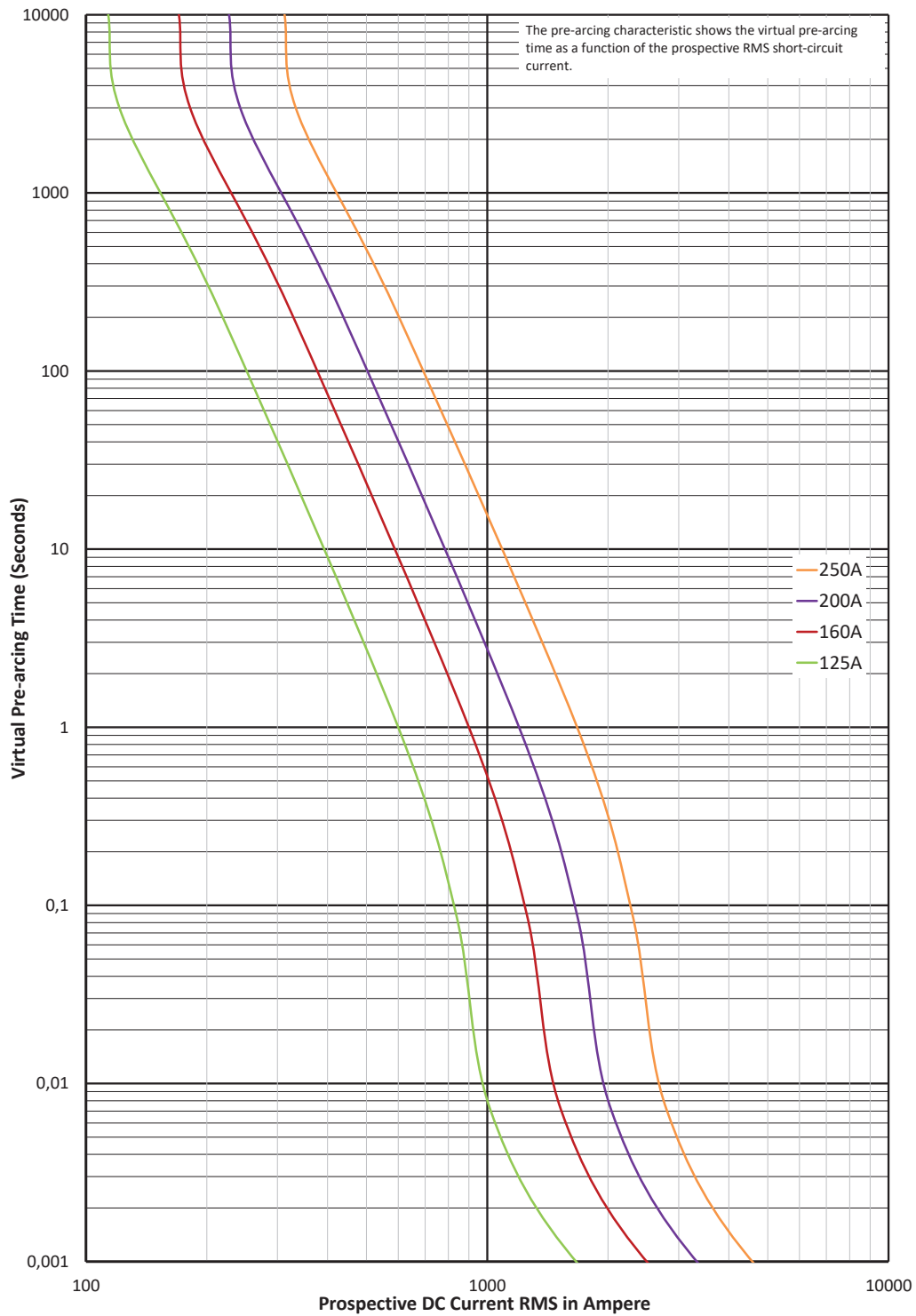
Technical data

Catalogue number	Fuse body size	Rated current (Amps)	Rated voltage (V d.c.) IEC	Rated voltage (V d.c.) UL	Breaking capacity (kA at 10ms)	Minimum Breaking Current (A) @1000 V d.c.	Minimum Pre-arcing integral (from cold) A²S	Maximum Clearing Integral A²s @ 1000 V d.c. 10ms L/R	Power loss at I _n (W)
180D2612	2	125	1000	1125	100	250	2200	13,500	44
180D2613	2	160	1000	1125	100	320	5000	30,500	48
180D2614	2	200	1000	1125	100	400	8800	54,000	57
180D2615	2	250	1000	1125	100	500	16,600	101,000	70

Dimensions mm

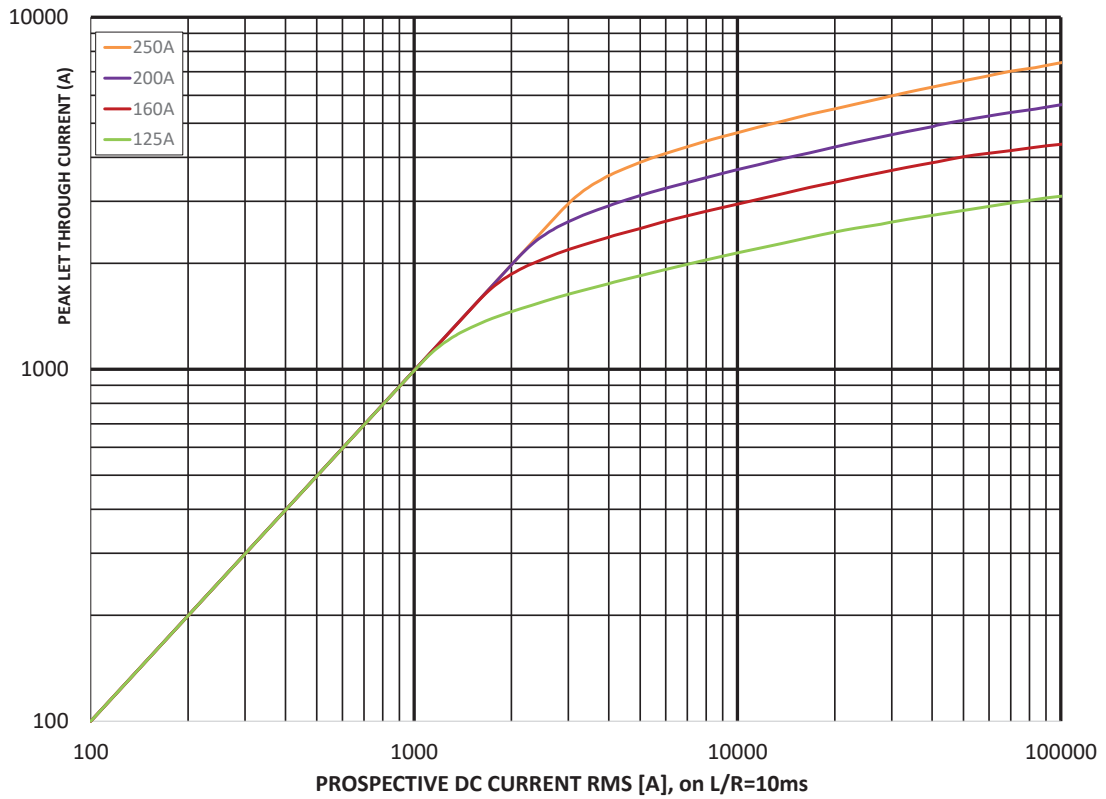


Time-current curve



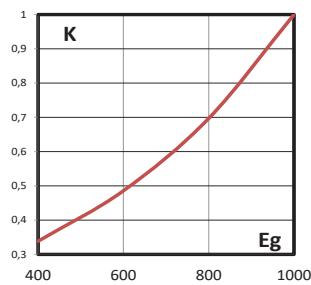
$K_b = 1$ $N = 1,6$

Peak let-through curve



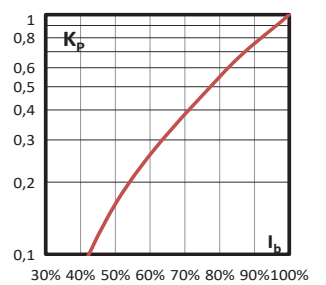
Total clearing I^2t

The total clearing I^2t at rated voltage and tested DC time constant are given in electrical characteristics. For other voltages the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltages, E.



Watts losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the watts losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in percent of the rated current.



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