

180D gR Size 01HT fuse links



Product description

Eaton's Bussmann series 180D gR DC fuse links, size 01HT, 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

- 180D16xx, e.g 180D1608

Technical data

- Rated voltage:
 - 1000 V d.c. (IEC)
 - 1125 V d.c. (UL)
- Rated current: 50 A to 125 A
- Fuse body size: 01HT
- 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

- 170H0235

Fuse holders

- SD1XL-S-PV

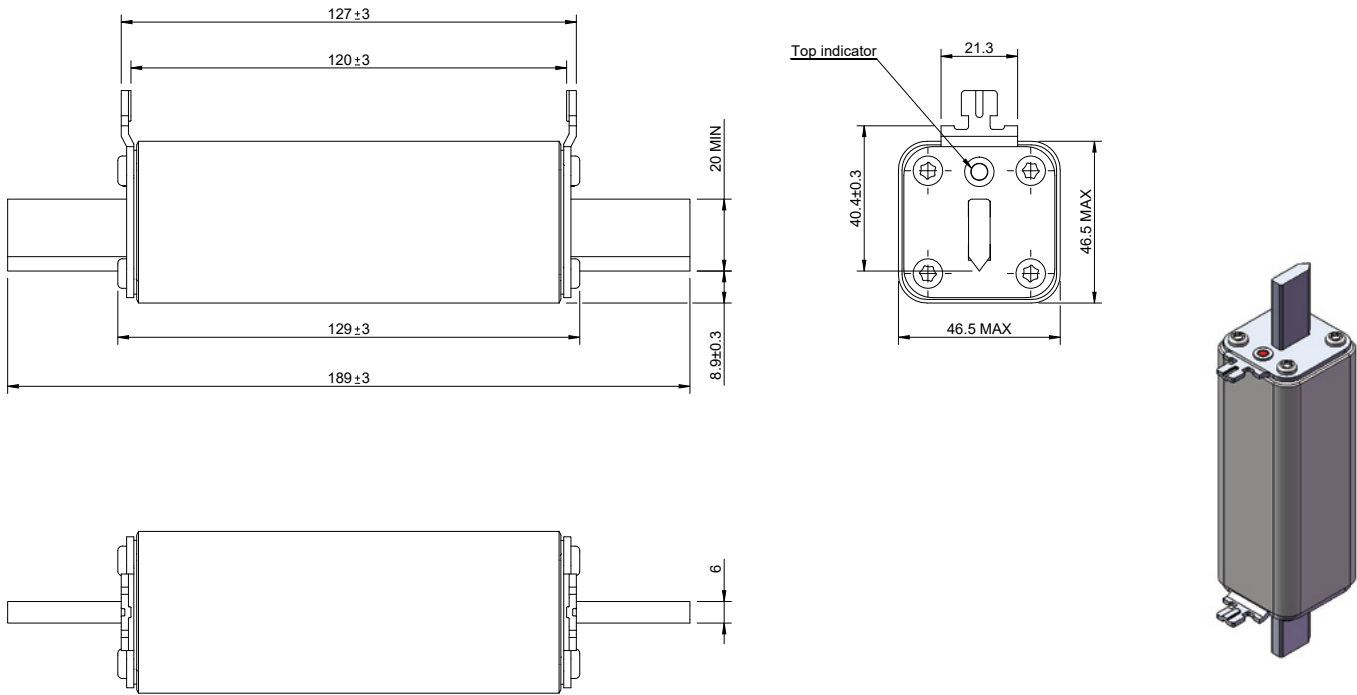
Packaging

- 1

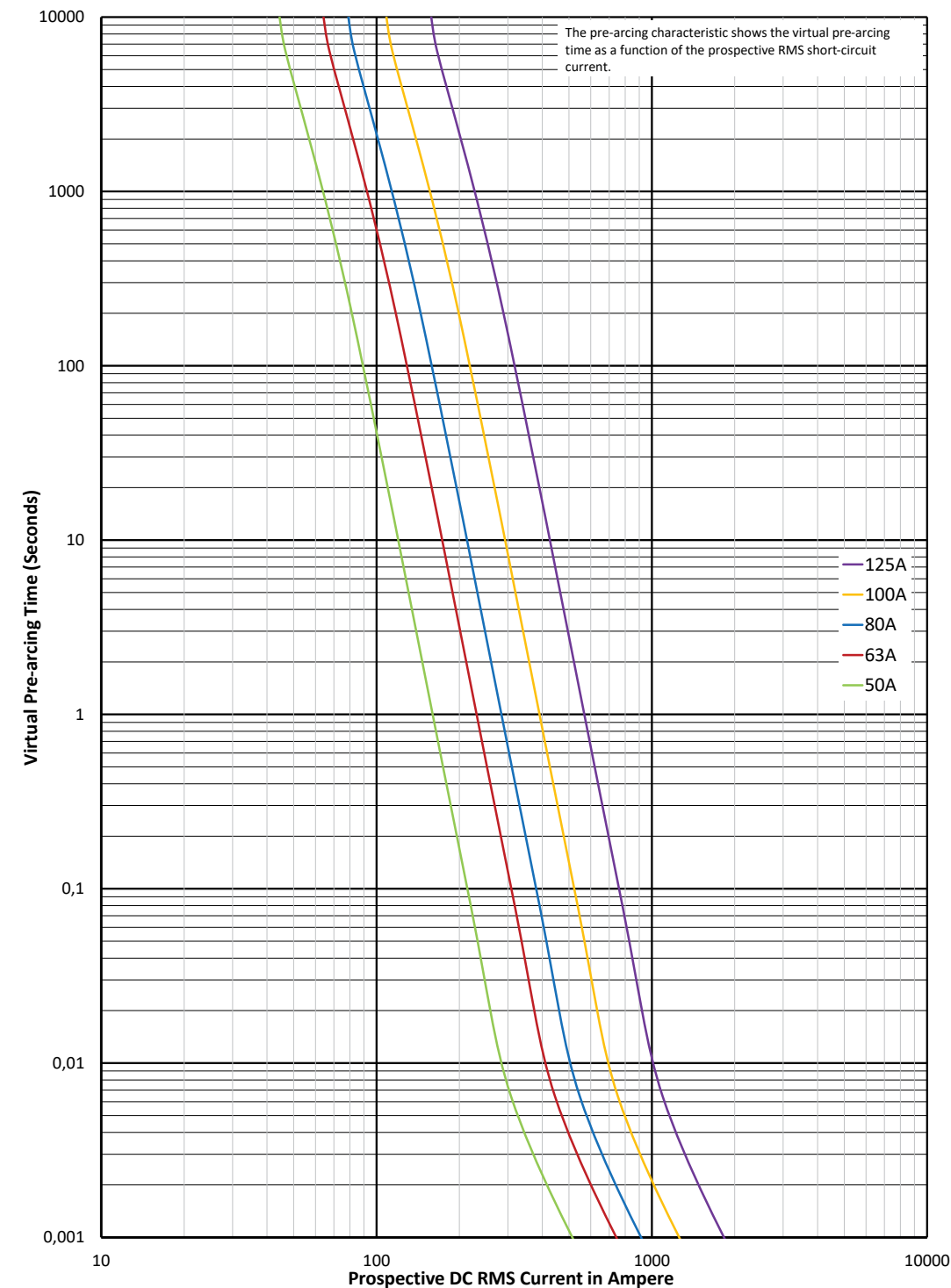
Technical data

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)
180D1608	01HT	50	1000	1125	100	100	175	1200	25
180D1609	01HT	63	1000	1125	100	126	362	2500	26
180D1610	01HT	80	1000	1125	100	160	565	3900	35
180D1611	01HT	100	1000	1125	100	200	1100	7500	40
180D1612	01HT	125	1000	1125	100	250	2200	15,000	44

Dimensions mm

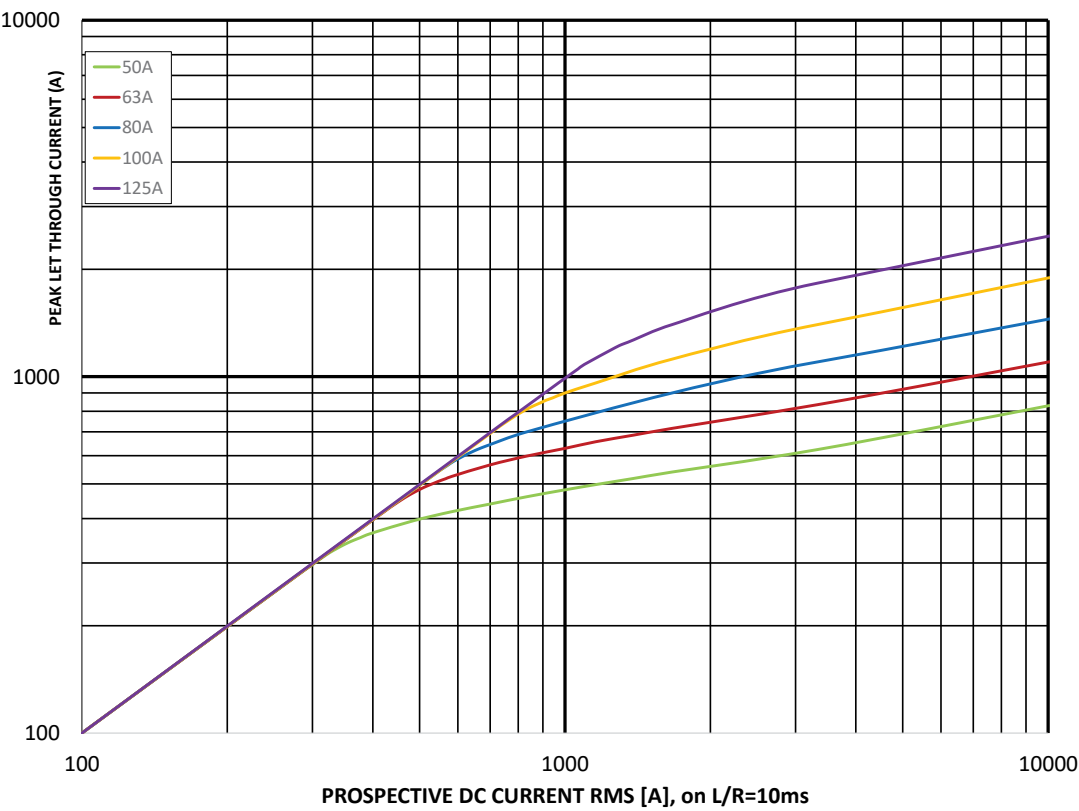


Time-current curve



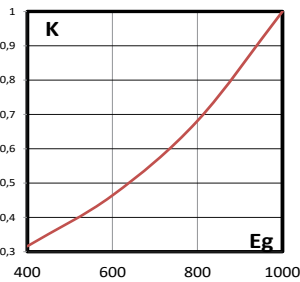
$K_b = 1 \quad N = 1,6$

Peak let-through curve



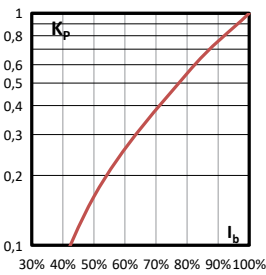
Total clearing I^2t

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.



The only controlled copy of this data sheet is the electronic read-only version located on the Eaton network drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Eaton reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Eaton also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.

Changes to the products, to the information contained in this document, and to prices are reserved; so are errors and omissions. Only order confirmations and technical documentation by Eaton is binding. Photos and pictures also do not warrant a specific layout or functionality. Their use in whatever form is subject to prior approval by Eaton. The same applies to Trademarks (especially Eaton, Moeller, and Cutler-Hammer). The Terms and Conditions of Eaton apply, as referenced on Eaton Internet pages and Eaton order confirmations.

Eaton
EMEA Headquarters
Route de la Longeraie 7
1110 Morges, Switzerland

Electrical Sector
Eaton Electrical Products Limited
Unit 1, Hawker Business Park,
Melton Road, Burton-on-the-Wolds
LE12 5TH, UK
Eaton.com

© 2023 Eaton
All Rights Reserved
PDF Only
Publication No. TD135016EN
May 2026