

BSF 250 V d.c. high speed fuse links for battery modules protection



Product description

Eaton's Bussmann series BSF-DD25 centre bolted tags 250 V d.c. fuse links are specifically designed to protect battery modules and DC rated applications

Features

- Low power dissipation to prevent abnormal temperature-rise of the battery and thermal cut-off of Battery Management System (BMS)
- Compact design ensures space saving in the battery module, allowing for controlling or monitoring circuits to be installed if required
- Excellent cyclic loading capability destined for DC applications
- Best-in-class coordination performance with contactors and upstream fuses secures reliable Battery Energy Storage (BES) service

Applications

- DC to AC Inverter protection
- DC to DC Converters
- Battery storage applications
- Electric Vehicle charging stations
- Power conversion systems
- Regenerative drives
- DC Common bus system



Powering Business Worldwide

Catalogue symbol

- BSF-(amp)A-DD25

Fuse body size

- Round body with centre bolted tags

Technical data

- Rated voltage: 250 V d.c.
- Rated current: 80 A to 315 A
- Class of operation: gR/gBat
- Breaking capacity: 100 kA
- Time constant: 10 ms and 3 ms tested (suitable for most DC applications)

Standards/Approvals

- Designed and tested to IEC 60269 Part 4 and Part 7
- CE/UKCA Compliant
- UL 248-13 Recognised
- RoHS compliant

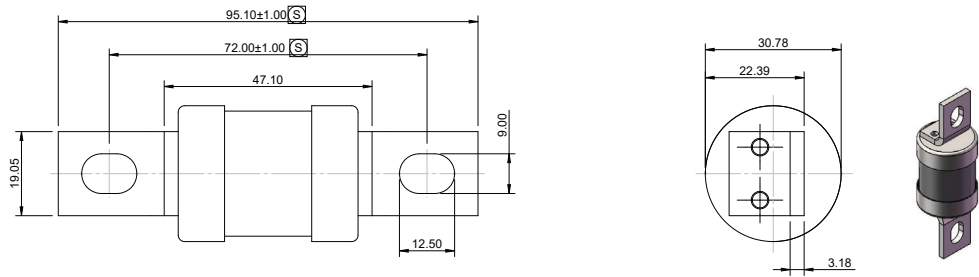
Pack quantity

- 5

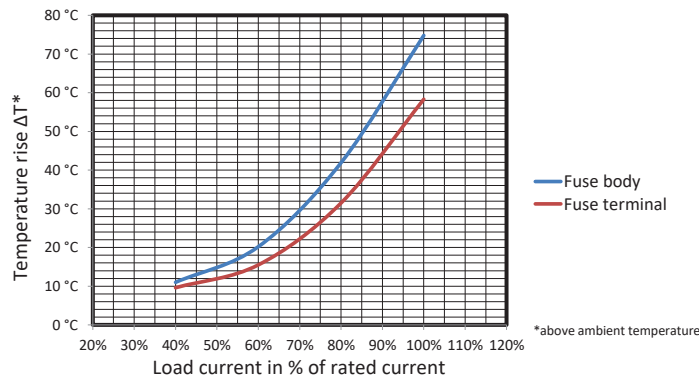
Table 1. Technical data

Catalogue number	Rated current (A)	Rated voltage (V d.c.)	Breaking capacity	Minimum Pre-arcing I ² t A ² Sec	Clearing I ² t at 250 V d.c. 100 kA 10 ms L/R	Watts loss In at 100%
BSF-080A-DD25	80	250	100 kA	7200	18,000	8
BSF-100A-DD25	100	250	100 kA	20,000	48,000	10
BSF-125A-DD25	125	250	100 kA	29,500	71,000	11
BSF-160A-DD25	160	250	100 kA	57,000	136,000	13
BSF-200A-DD25	200	250	100 kA	120,000	285,000	14
BSF-250A-DD25	250	250	100 kA	200,000	475,000	18
BSF-315A-DD25	315	250	100 kA	265,000	630,000	25

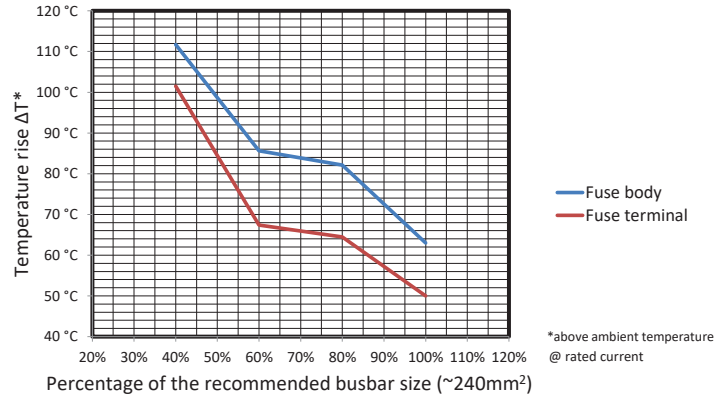
Dimensions - mm



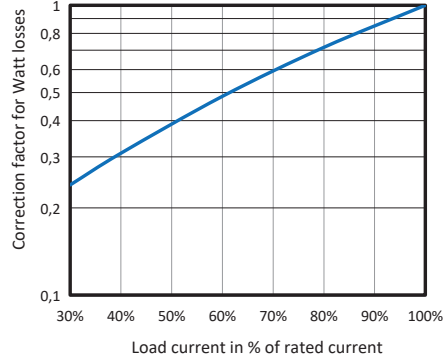
Temperature rise caused by different load currents



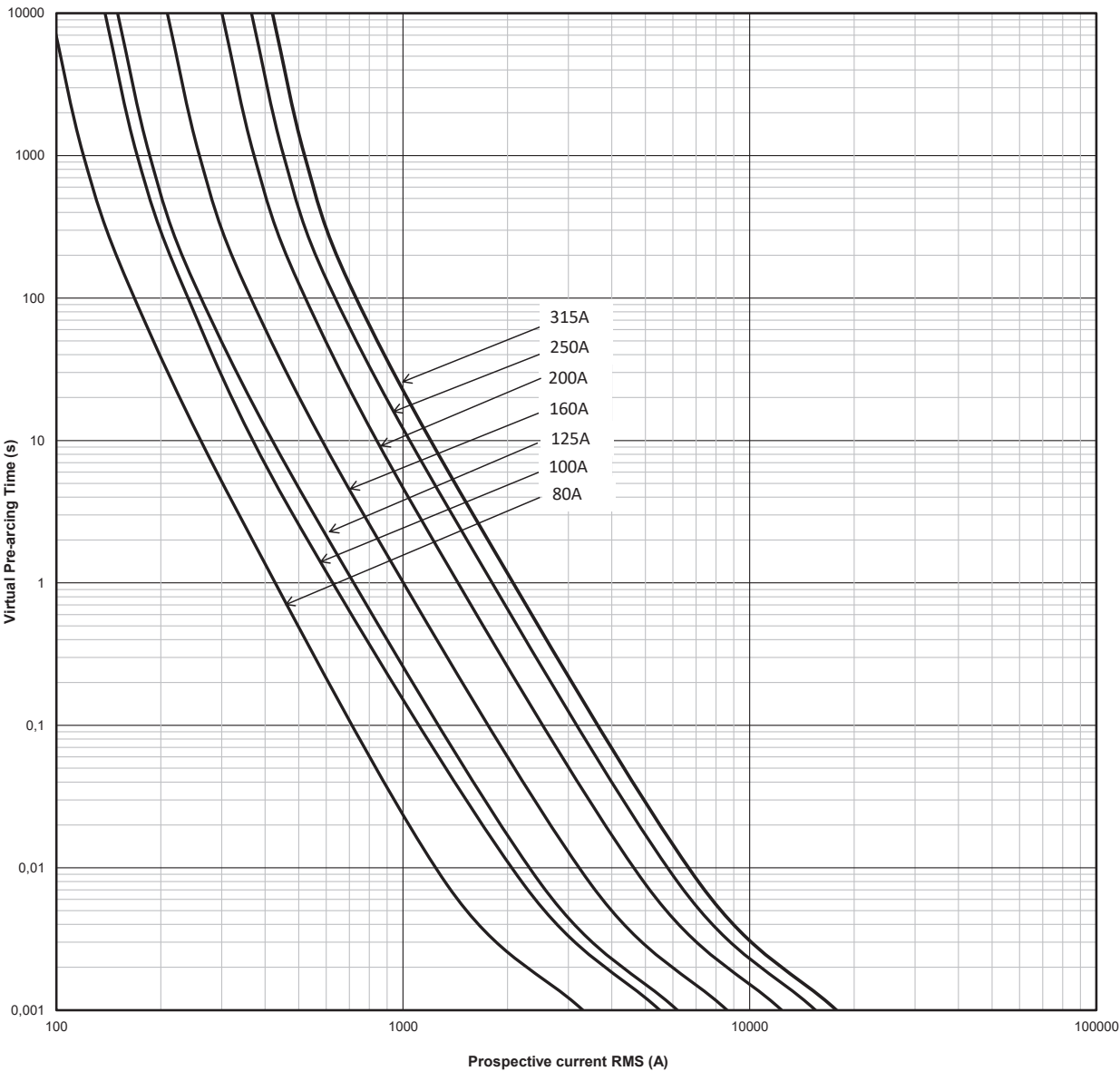
Temperature rise for various busbar sizes



Power dissipation at different load currents



Time current curve



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