

ABAT15AA, ABAT15AD

1 500 VDC Max., L/R ≤ 4ms, 100-500A

BATTERY FUSES

BATTERY RACK FUSES



Mersen's **ABAT** line up is the latest addition to our DC Over-Current protection (O.C.P.) portfolio developed to address Battery Electrical Storage System safety.

The **ABAT15AA & AD** fuses has been specifically designed for 1500 VDC applications with current ratings from 100 to 500 A and according to the IEC 60 269-7 fuse standard for battery protection.

Our state of the art technology allows them to clear fault currents down to 3 times the fuse rated current to perfectly coordinate with contactors, and up to 250 kA to protect from the large short circuits seen in energy storage systems.

Along with the ability to withstand heavy duty cycling and low power losses improving system reliability and efficiency, it makes them ideal for battery and battery related systems.

TECHNICAL DATA OVERVIEW

Rated DC Voltage UN	1500 VDC
Ampere Range (A)	100 ... 500 A
Speed/Characteristic	aBAT
I.R (DC)	250kA @L/R≤4ms
Minimum breaking capacity (MBC) @L/R≤2ms	3x I _n
Packing quantity	2

FEATURES & BENEFITS

- Designed for DC battery applications
- Compact design
- Low power losses
- High cycling performance
- QR code for easy identification
- Bolted and Offset blades mounting

APPLICATIONS

- Electrical Energy Storage (EES)
- Battery Racks
- Battery Strings
- Power Conversion Systems
- Hybrid Inverters
- DC Distribution Systems

STANDARDS

- IEC 60 269-7
- UL/cUL recognized component, UL file E523293



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PRODUCT RANGE



ABAT15AA250GI

ABAT15AA Offset blades

Catalog number	Rated voltage DC (IEC)	Rated current I _n	Pre-arcing I ² t	Clearing I ² t @250kA L/R= 4ms	Power dissipation at 0.8 I _n	Min. breaking capacity (MBC)	Weight
ABAT15AA100GI	1500 V	100 A	1270 A²s	40000 A²s	19 W	300 A	0.6 kg
ABAT15AA125GI	1500 V	125 A	2260 A²s	60000 A²s	24 W	375 A	0.6 kg
ABAT15AA160GI	1500 V	160 A	3730 A²s	78000 A²s	31 W	480 A	0.6 kg
ABAT15AA200GI	1500 V	200 A	6640 A²s	116000 A²s	36 W	600 A	0.6 kg
ABAT15AA250GI	1500 V	250 A	11800 A²s	182000 A²s	46 W	750 A	0.6 kg

Add M to the catalog number to order with microswitch



ABAT15AA250FI

ABAT15AA Bolted blades

Catalog number	Rated voltage DC (IEC)	Rated current I _n	Pre-arcing I ² t	Clearing I ² t @250kA L/R= 4ms	Power dissipation at 0.8 I _n	Min. breaking capacity (MBC)	Weight
ABAT15AA100FI	1500 V	100 A	1270 A²s	40000 A²s	19 W	300 A	0.6 kg
ABAT15AA125FI	1500 V	125 A	2260 A²s	60000 A²s	24 W	375 A	0.6 kg
ABAT15AA160FI	1500 V	160 A	3730 A²s	78000 A²s	31 W	480 A	0.6 kg
ABAT15AA200FI	1500 V	200 A	6640 A²s	116000 A²s	36 W	600 A	0.6 kg
ABAT15AA250FI	1500 V	250 A	11800 A²s	182000 A²s	46 W	750 A	0.6 kg

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ABAT15AD500GI

ABAT15AD Offset blades

Catalog number	Rated voltage DC (IEC)	Rated current I _n	Pre-arcing I ² t	Clearing I ² t @250kA L/R= 4ms	Power dissipation at 0.8 I _n	Min. breaking capacity (MBC)	Weight
ABAT15AD200GI	1500 V	200 A	6270 A²s	144000 A²s	39 W	600 A	1.4 kg
ABAT15AD250GI	1500 V	250 A	10370 A²s	226000 A²s	47 W	750 A	1.4 kg
ABAT15AD300GI	1500 V	300 A	18430 A²s	383000 A²s	60 W	900 A	1.4 kg
ABAT15AD350GI	1500 V	350 A	26540 A²s	499000 A²s	70 W	1050 A	1.4 kg
ABAT15AD400GI	1500 V	400 A	36130 A²s	535000 A²s	78 W	1200 A	1.4 kg
ABAT15AD450GI	1500 V	450 A	47190 A²s	590000 A²s	81 W	1350 A	1.4 kg
ABAT15AD500GI	1500 V	500 A	64230 A²s	803000 A²s	89 W	1500 A	1.4 kg

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ABAT15AD500FI

ABAT15AD Bolted blades

Catalog number	Rated voltage DC (IEC)	Rated current I _n	Pre-arcing I ² t	Clearing I ² t @250kA L/R= 4ms	Power dissipation at 0.8 I _n	Min. breaking capacity (MBC)	Weight
ABAT15AD200FI	1500 V	200 A	6270 A²s	144000 A²s	39 W	600 A	1.4 kg
ABAT15AD250FI	1500 V	250 A	10370 A²s	226000 A²s	47 W	750 A	1.4 kg
ABAT15AD300FI	1500 V	300 A	18430 A²s	383000 A²s	60 W	900 A	1.4 kg
ABAT15AD350FI	1500 V	350 A	26540 A²s	499000 A²s	70 W	1050 A	1.4 kg
ABAT15AD400FI	1500 V	400 A	36130 A²s	535000 A²s	78 W	1200 A	1.4 kg
ABAT15AD450FI	1500 V	450 A	47190 A²s	590000 A²s	81 W	1350 A	1.4 kg
ABAT15AD500FI	1500 V	500 A	64230 A²s	803000 A²s	89 W	1500 A	1.4 kg

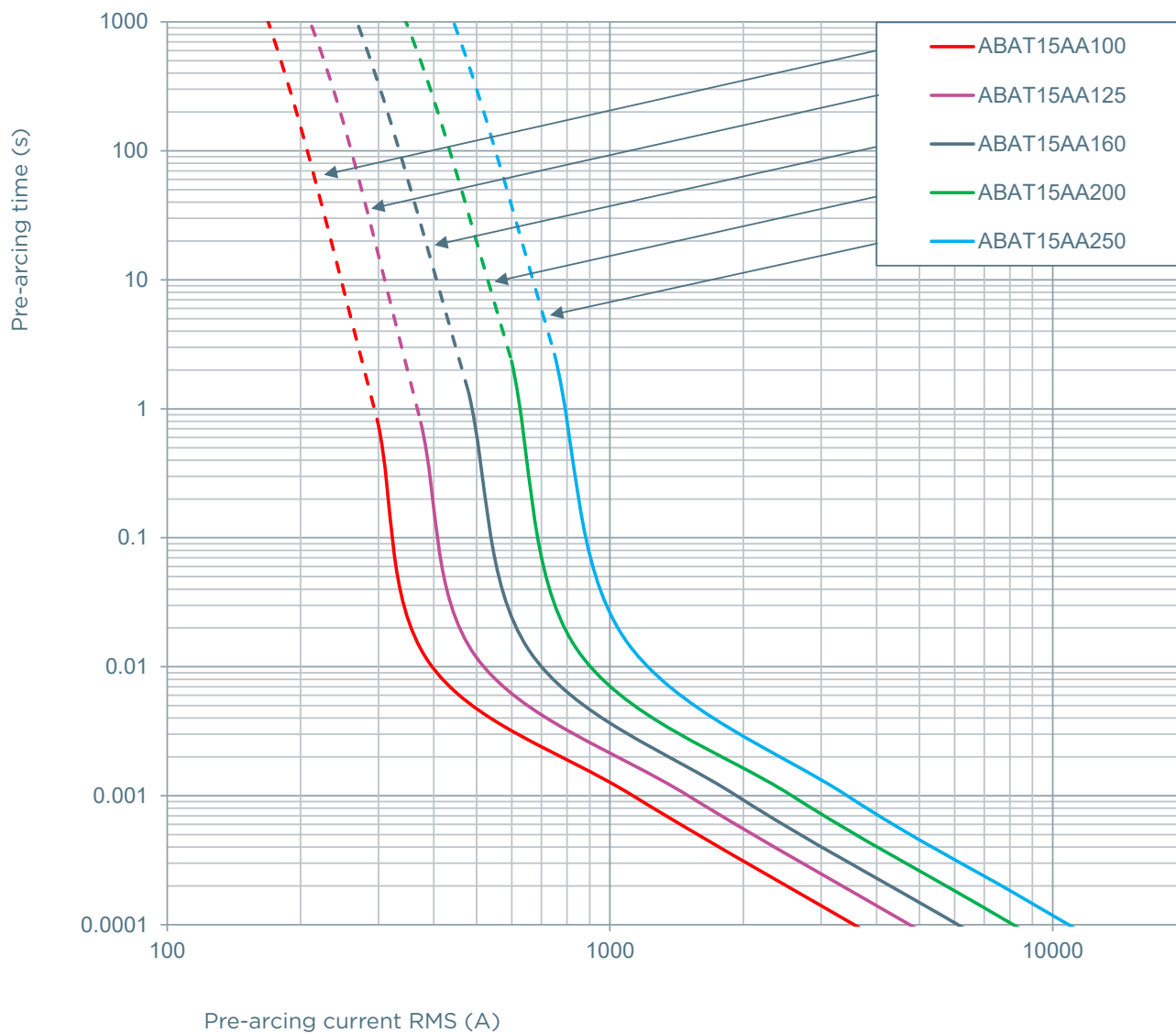
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TIME CURRENT CHARACTERISTIC CURVES

ABAT15AA - 100 to 250A

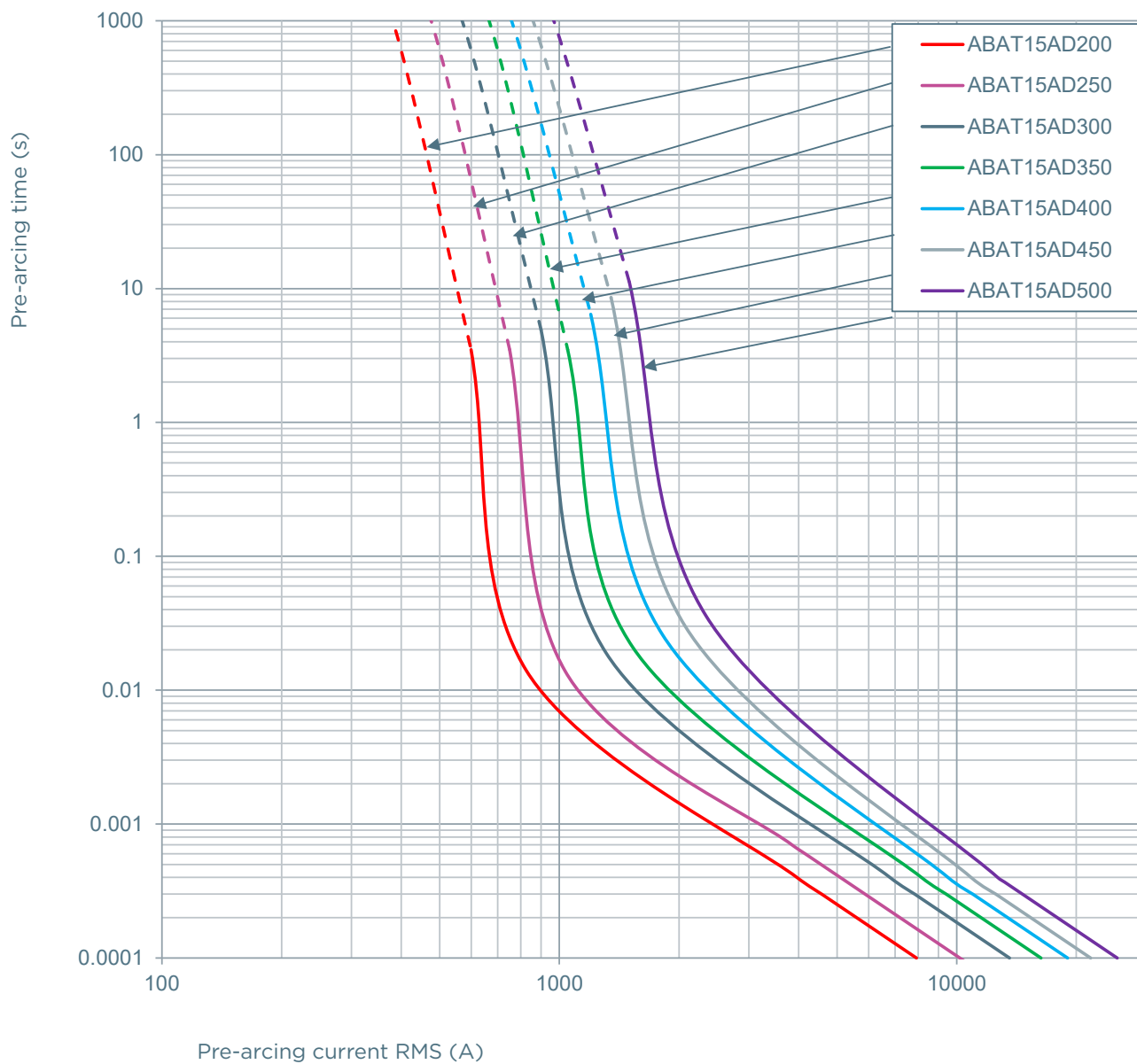


ABAT15AA, ABAT15AD

1 500 VDC Max., L/R ≤ 4ms, 100-500A

TIME CURRENT CHARACTERISTIC CURVES

ABAT15AD – 200 to 500A

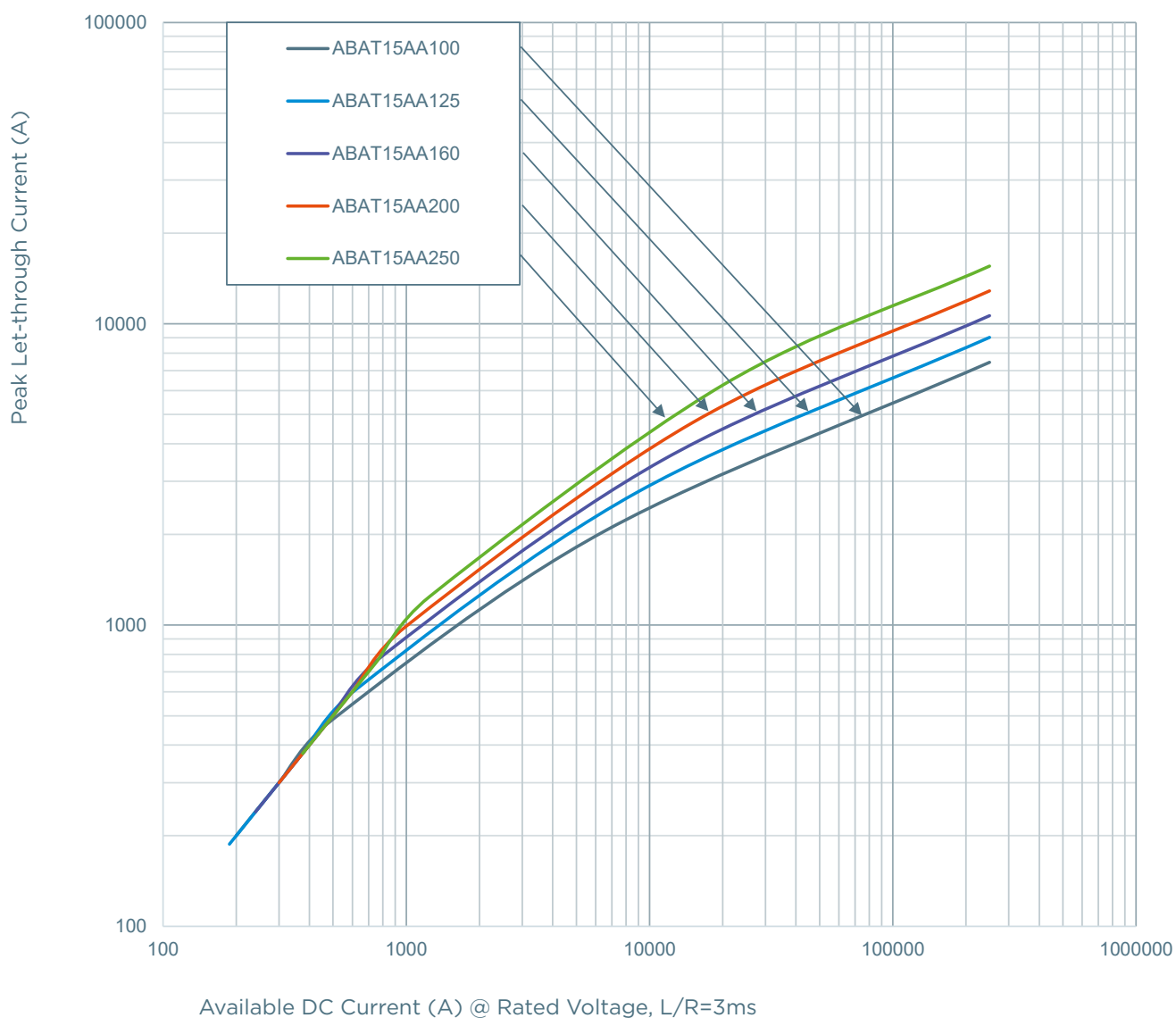


ABAT15AA, ABAT15AD

1 500 VDC Max., L/R ≤ 4ms, 100-500A

CUT-OFF CURRENT CHARACTERISTIC

ABAT15AA 100 to 250A

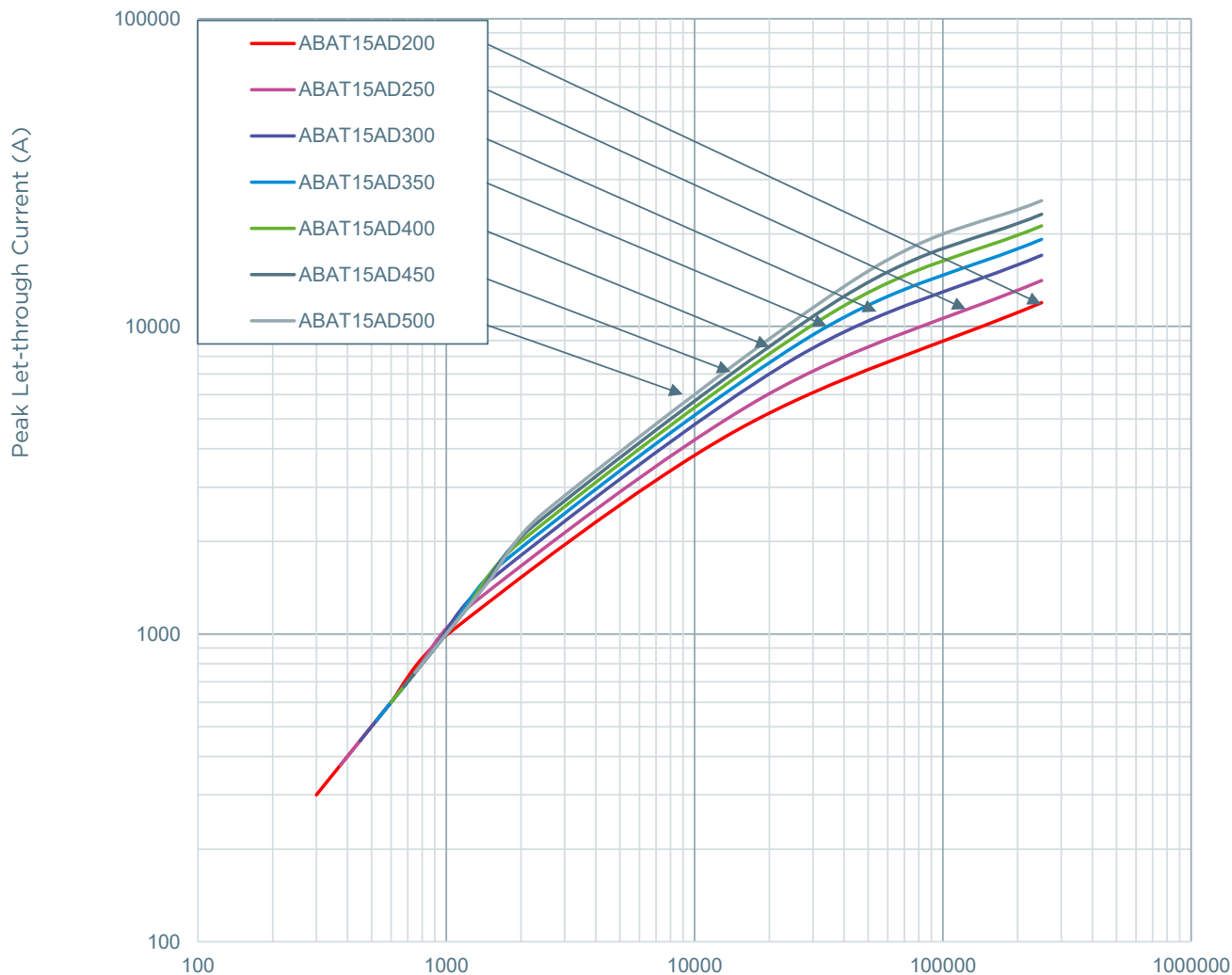


ABAT15AA, ABAT15AD

1 500 VDC Max., L/R ≤ 4ms, 100-500A

CUT-OFF CURRENT CHARACTERISTIC

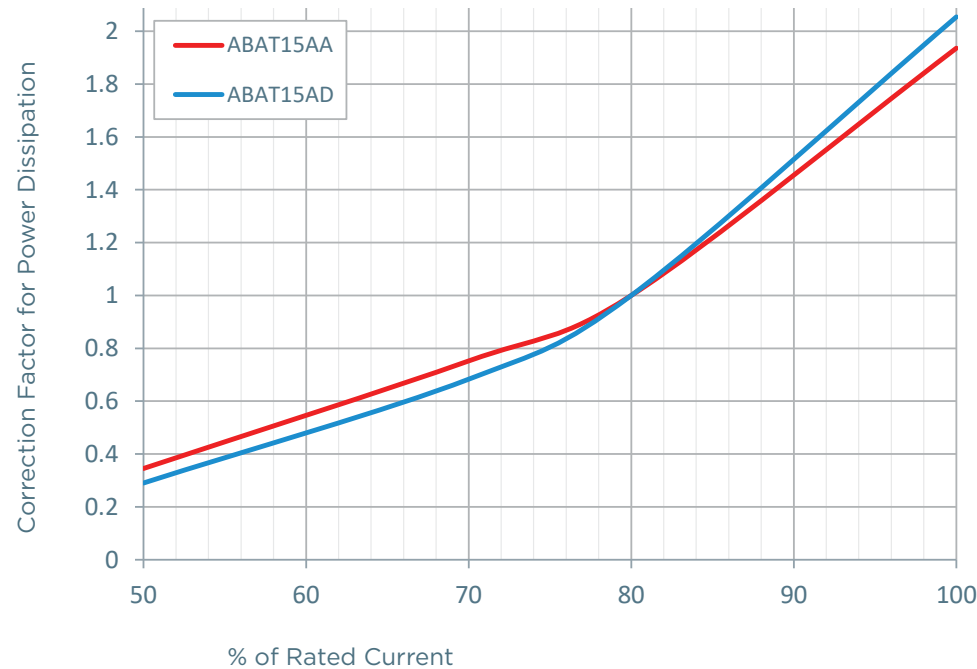
ABAT15AD 200 to 500A



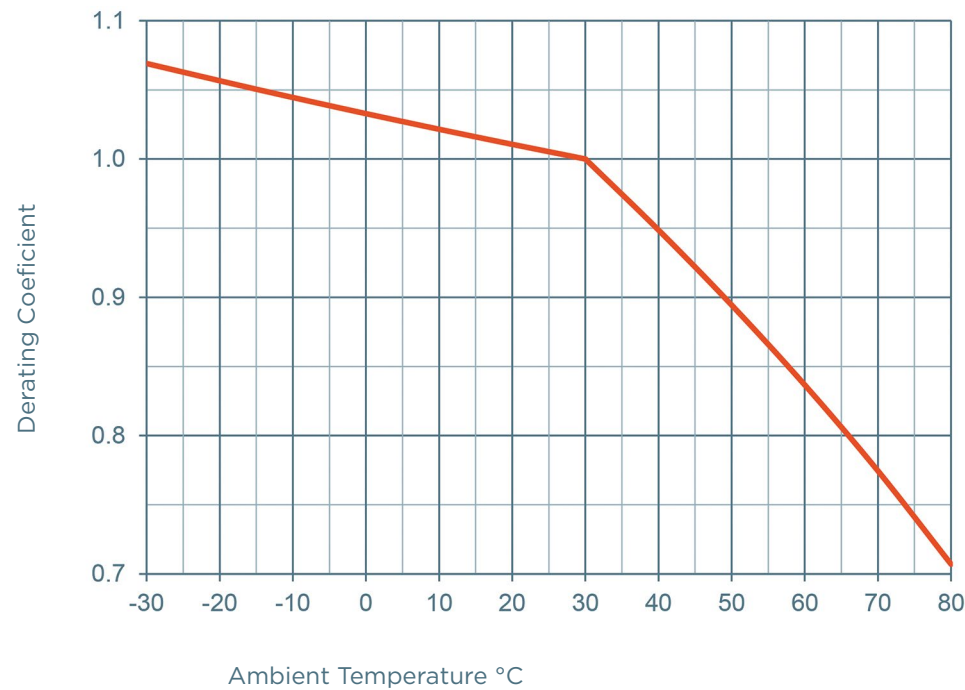
ABAT15AA, ABAT15AD

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POWER DISSIPATION



TEMPERATURE DERATING

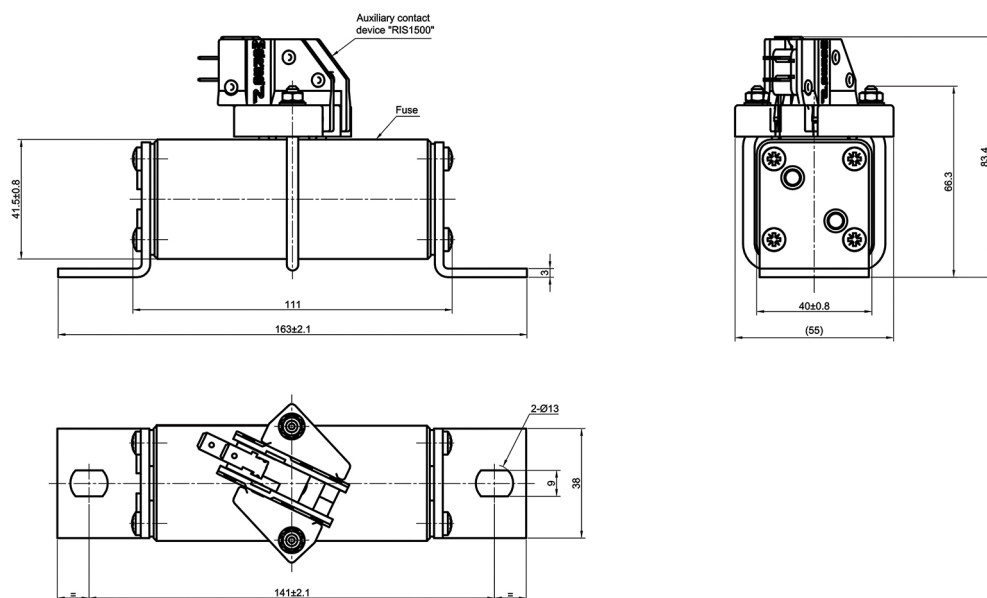


ABAT15AA, ABAT15AD

1 500 VDC Max., L/R ≤ 4ms, 100-500A

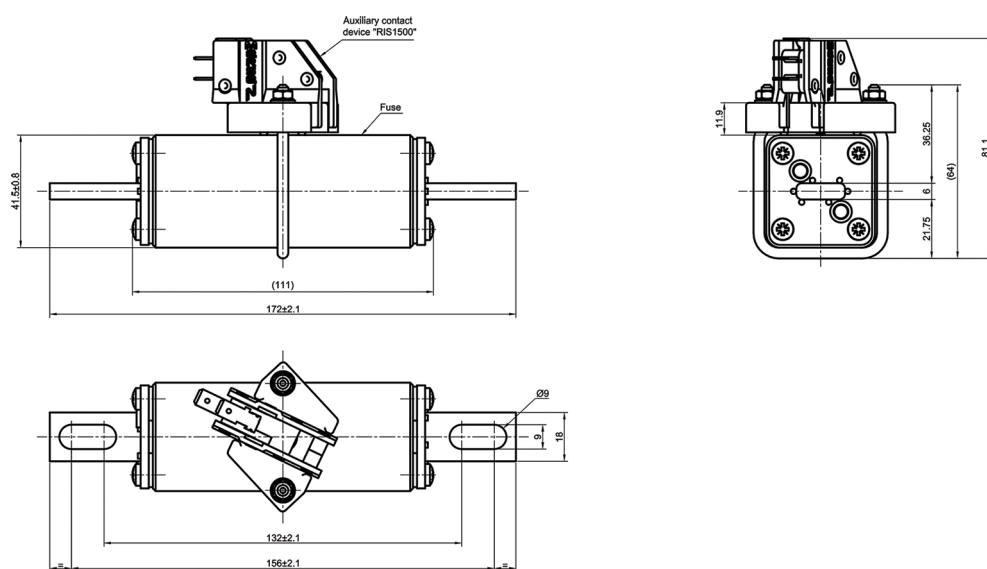
DIMENSIONS

ABAT15AA - Offset blades with optional microswitch



Dimensions in mm

ABAT15AA - Bolted blades with optional microswitch



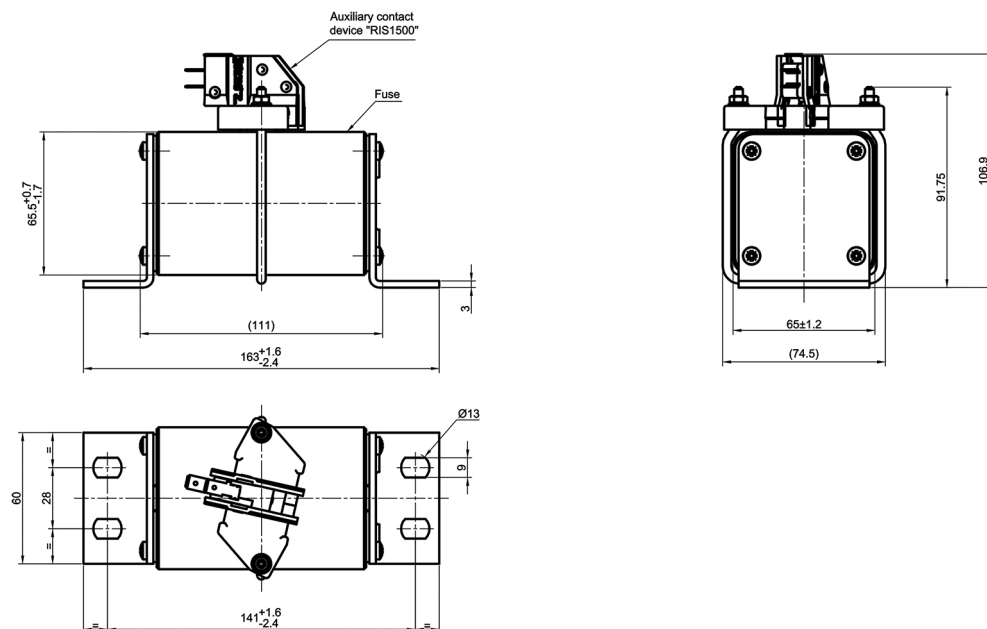
Dimensions in mm

ABAT15AA, ABAT15AD

1 500 VDC Max., L/R ≤ 4ms, 100-500A

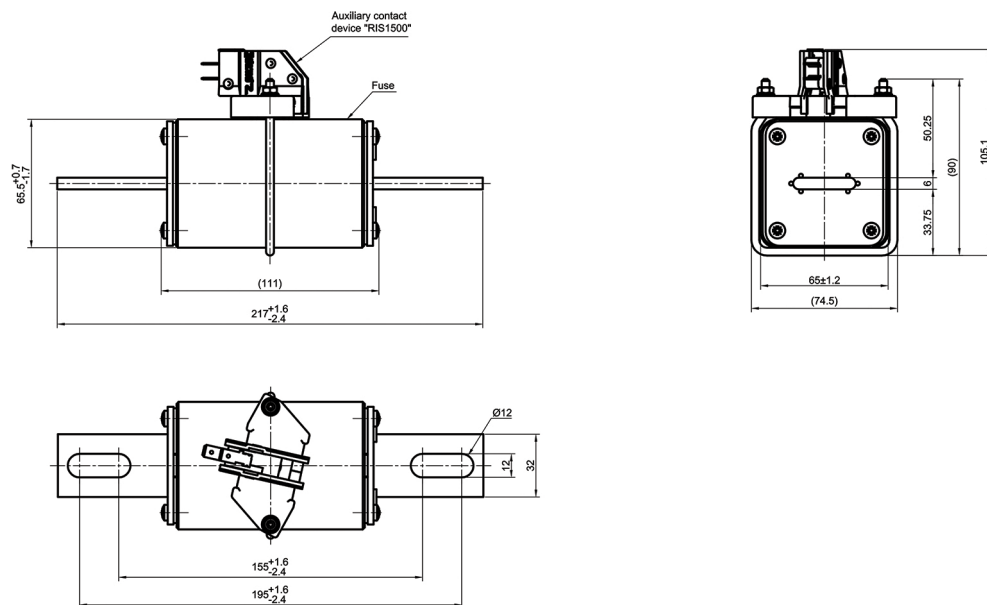
DIMENSIONS

ABAT15AD - Offset blades with optional microswitch



Dimensions in mm

ABAT15AD - Bolted blades with optional microswitch



Dimensions in mm

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