

# ABAT12E 1200VDC max

## DC PROTECTION FUSES

### SQUARE BODY HIGH SPEED FUSE LINKS DC PROTECTION



Mersen DC offers provide a very high performant protection for DC applications in particular battery container or inverter protection.

ABAT12E fuses have been designed for 1200VDC applications, with current ratings from 800A to 1800A.

ABAT12E fuses allow them to clear high Max. Interrupting Rating and provide a limited power loss.

This range is UL recognized.

## TECHNICAL DATA OVERVIEW

Rated DC Voltage UN	1200 VDC (L/R≤3ms)
Ampere Range (A)	800 ... 1800 A
Speed/Characteristic	aBat
I.R (DC) @1200VDC, L/R≤3ms	130kA

## FEATURES & BENEFITS

- Designed for DC applications
- Dedicated to battery protection
- High Max. Interrupting Rating

## APPLICATIONS

- Protection of inverters
- Battery container protection
- Battery rack / string protection
- Power Conversion System (PCS) protection
- Protection of Battery Connection Panel (BCP)
- DC Systems protection

## STANDARDS

- UL Recognized - UL 248-13
- CSA C22.2



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## PRODUCT RANGE



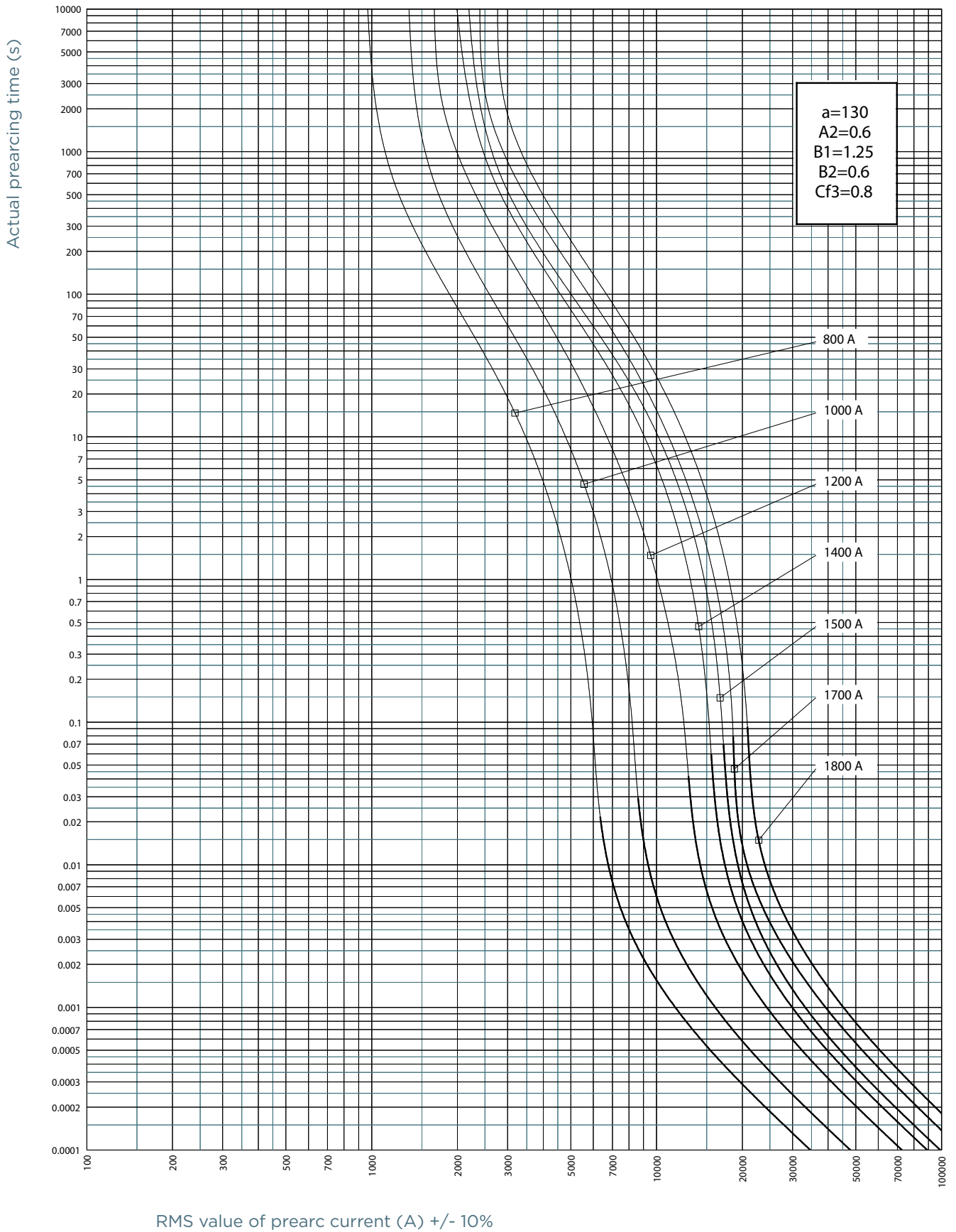
ABAT12E800-BIA

### ABAT12E with Flush ends TTQF

Catalog number	Item number	Rated voltage DC	Rated current I <sub>n</sub>	Pre-arcing I <sup>2</sup> t	Clearing I <sup>2</sup> t at Rated Voltage	Max. Interrupting Rating IR @1200VDC, L/R=3ms	Watt Loss @ 0,8 I <sub>n</sub>
ABAT12E800-BIA	P1202982	1200 V	800 A	121 kA <sup>2</sup> s	340 kA <sup>2</sup> s	130 kA	138 W
ABAT12E1000-BIA	Q1202983	1200 V	1000 A	231 kA <sup>2</sup> s	720 kA <sup>2</sup> s	130 kA	143 W
ABAT12E1200-BIA	R1202984	1200 V	1200 A	532 kA <sup>2</sup> s	1650 kA <sup>2</sup> s	130 kA	149 W
ABAT12E1400-BIA	S1202985	1200 V	1400 A	800 kA <sup>2</sup> s	2485 kA <sup>2</sup> s	130 kA	154 W
ABAT12E1500-BIA	S1203008	1200 V	1500 A	988 kA <sup>2</sup> s	2970 kA <sup>2</sup> s	130 kA	156 W
ABAT12E1700-BIA	T1203009	1200 V	1700 A	1403 kA <sup>2</sup> s	4225 kA <sup>2</sup> s	130 kA	162 W
ABAT12E1800-BIA	V1202987	1200 V	1800 A	1868 kA <sup>2</sup> s	5625 kA <sup>2</sup> s	130 kA	164 W

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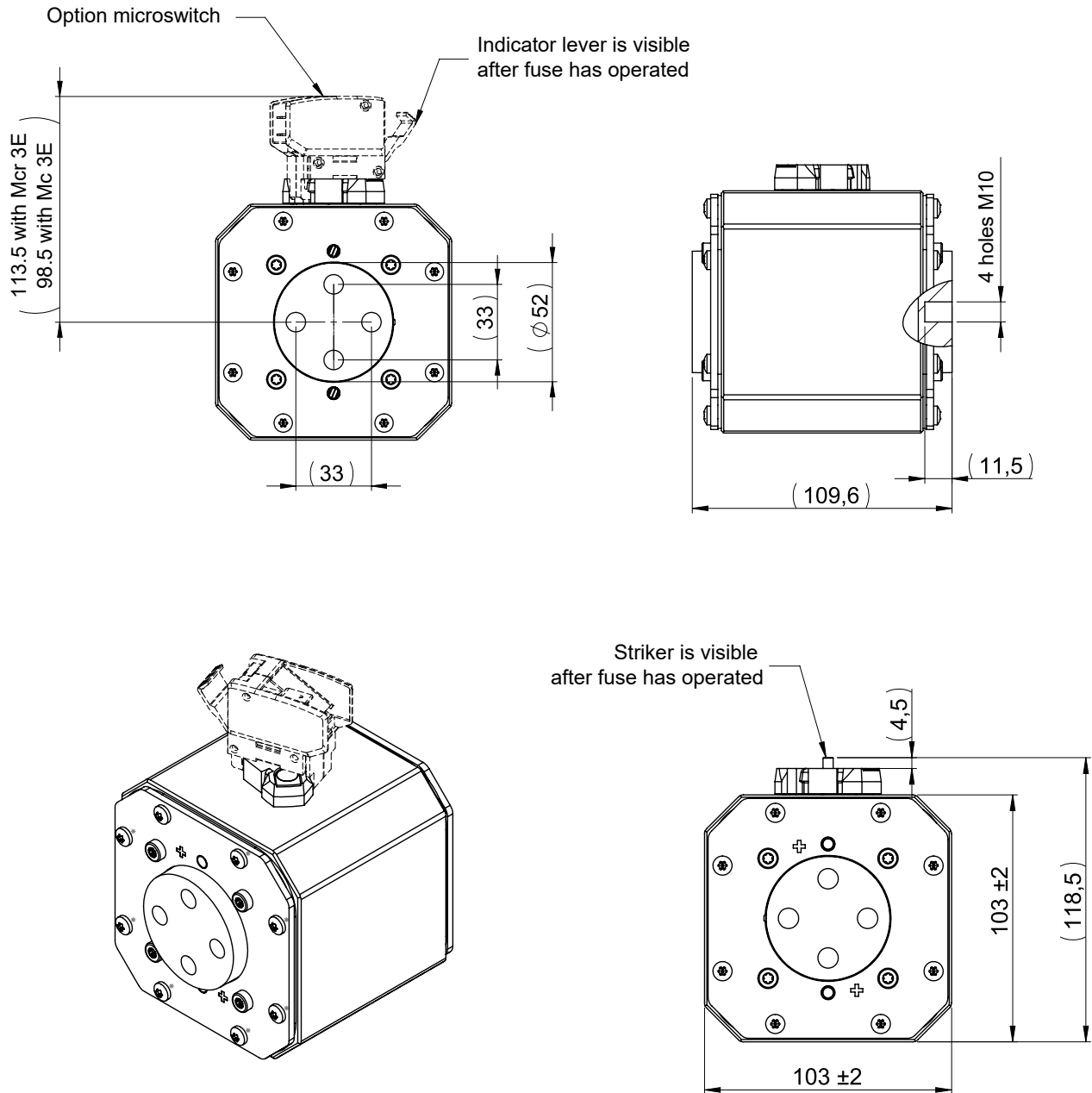
## TIME CURRENT CHARACTERISTIC CURVES



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## DIMENSIONS

### ABAT12E - with flush ends TTQF



Dimensions in mm

## ACCESSORIES

### Microswitches

Catalog number	Item number	Rated voltage AC (IEC)	Rated voltage DC (IEC)	Rated current I <sub>n</sub>	AC voltage withstand test <sup>1</sup>	Impulse withstand voltage U <sub>imp</sub> 1.2/50μs <sup>2</sup>	Rated impulse withstand voltage U <sub>imp</sub>	Indication System	Breaking capacity, Non inductive circuit, 30V / 110V / 250V	Breaking capacity, Inductive circuit: L/R=25ms, 30V / 110V / 250V	Package	Weight
<b>Insulation Voltage 2200VAC/VDC</b>												
MCR3E1-5N	G310023	2200 V	2200 V	3 A	20 kV	30 kV	30 kV	standard	5A / 0,5A / -	- / 1,6A / 0,3A	1	60 g
<sup>1</sup> Between power circuit and microswitch terminals as per IEC 60 and 694 and NFC 64010 (50/60 Hz 1 min duration in dry air) <sup>2</sup> Between power circuit and microswitch terminals U <sub>imp</sub> : impulse voltage as per IEC 60947-1												