

ABAT15C 1500VDC 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. ABAT15C fuses have been designed for applications up to 1500VDC, with current ratings from 500A to 1250A.

This range is compliant with IEC 60269-7, a new standard dedicated for battery protection.

ABAT15C fuses allow them to clear high Max. Interrupting Rating and provide a limited power loss.

This range is CE (manufactured in France) and UL/CSA Recognized.

For higher current ratings, Mersen proposes different solutions, please consult us.

TECHNICAL DATA OVERVIEW

Rated DC Voltage UN	1500 VDC (L/R $\leq$ 3ms)
Ampere Range (A)	500 ... 1250 A
Speed/Characteristic	aBat
Rated breaking capacity at rated voltage, L/R $\leq$ 4ms	250kA for TTF connexion 200kA for LI connexion

FEATURES & BENEFITS

- Designed for DC applications
- Dedicated to battery protection
- Fastest of their category
- Compactness
- High Max. Interrupting Rating
- Several terminals can be provided

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

- IEC 60 269-7
(standard for battery protection)
- UL/CSA Recognized - UL/CSA 248-13
- IEC 60 269-4 VSI



ABAT15C 1500VDC max

PRODUCT RANGE



ABAT15C550-AIA

ABAT15C with flush ends TTF

Catalog number	Item number	Rated voltage DC	Rated current I _n	Pre-arcing I ² t	Clearing I ² t @1500VDC, L/R=3ms	Watt Loss @ 0,8 I _n	Watt Loss @ I _n	Minimum Breaking Capacity @Rated Voltage, L/R= 3ms	Breaking Capacity @1500VDC, L/R=3ms	Weight
ABAT15C500-AIA	B1200486	1500 V	500 A	36 kA ² s	125 kA ² s	90 W	175 W	6 kA	250 kA	1,85 kg
ABAT15C550-AIA	C1200487	1500 V	550 A	50 kA ² s	165 kA ² s	92 W	180 W	6.6 kA	250 kA	1,85 kg
ABAT15C630-AIA	D1200488	1500 V	630 A	84 kA ² s	275 kA ² s	94 W	184 W	7.56 kA	250 kA	1,85 kg
ABAT15C700-AIA	E1200489	1500 V	700 A	109 kA ² s	370 kA ² s	100 W	196 W	8.4 kA	250 kA	1,85 kg
ABAT15C800-AIA	F1200490	1500 V	800 A	157 kA ² s	530 kA ² s	108 W	210 W	9.6 kA	250 kA	1,85 kg
ABAT15C900-AIA	G1200491	1500 V	900 A	230 kA ² s	765 kA ² s	110 W	211 W	10.8 kA	250 kA	1,85 kg
ABAT15C1000-AIB	H1200492	1500 V	1000 A	360 kA ² s	1515 kA ² s	91 W	175 W	12 kA	250 kA	1,85 kg
ABAT15C1250-AIA	J1200493	1500 V	1250 A	632 kA ² s	2620 kA ² s	125 W	240 W	15 kA	250 kA	1,85 kg



ABAT15C900-LIA

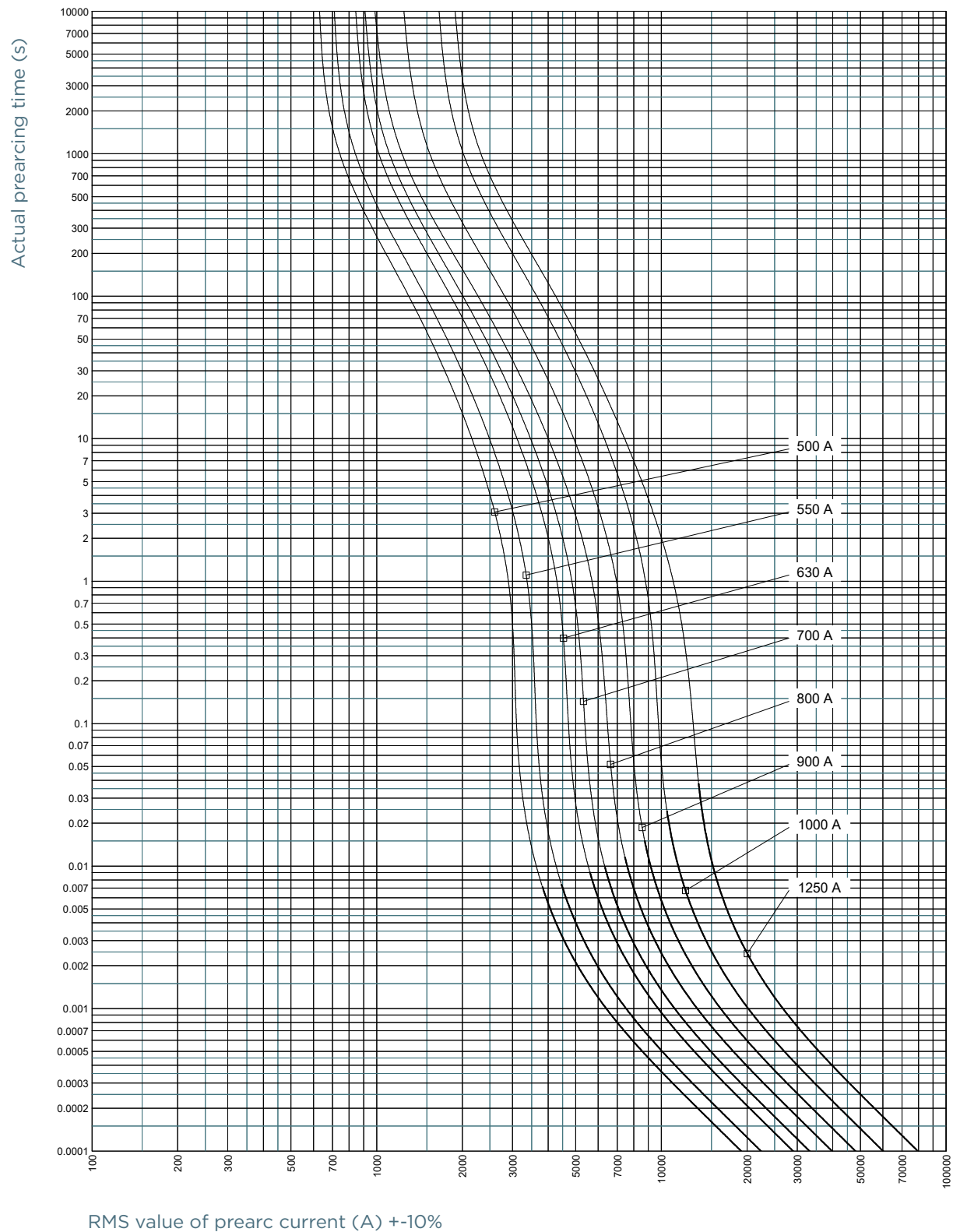
ABAT15C with blades LI

Catalog number	Item number	Rated voltage DC	Rated current I _n	Pre-arcing I ² t	Clearing I ² t @1500VDC, L/R=3ms	Watt Loss @ 0,8 I _n	Watt Loss @ I _n	Minimum Breaking Capacity @Rated Voltage, L/R= 3ms	Breaking Capacity @1500VDC, L/R=3ms	Weight
ABAT15C500-LIA	E1215715	1500 V	500 A	50 kA ² s	178 kA ² s	78 W	150 W	7.5 kA	200 kA	1,7 kg
ABAT15C550-LIA	G1215717	1500 V	550 A	70 kA ² s	249 kA ² s	82 W	158 W	8.25 kA	200 kA	1,7 kg
ABAT15C630-LIA	H1215718	1500 V	630 A	109 kA ² s	389 kA ² s	88 W	170 W	9.45 kA	200 kA	1,7 kg
ABAT15C700-LIA	M1215722	1500 V	700 A	157 kA ² s	561 kA ² s	94 W	180 W	10.5 kA	200 kA	1,7 kg
ABAT15C800-LIA	N1215723	1500 V	800 A	230 kA ² s	819 kA ² s	94 W	180 W	10.5 kA	200 kA	1,7 kg
ABAT15C900-LIA	P1209629	1500 V	900 A	336 kA ² s	1195 kA ² s	109 W	210 W	13.5 kA	200 kA	1,7 kg
ABAT15C1000-LIA	P1215724	1500 V	1000 A	466 kA ² s	1657 kA ² s	117 W	225 W	15 kA	200 kA	1,7 kg
ABAT15C1100-LIA	W1213223	1500 V	1100 A	632 kA ² s	2300 kA ² s	125 W	240 W	16.5 kA	200 kA	1,7 kg

ABAT15C 1500VDC max

TIME CURRENT CHARACTERISTIC CURVES

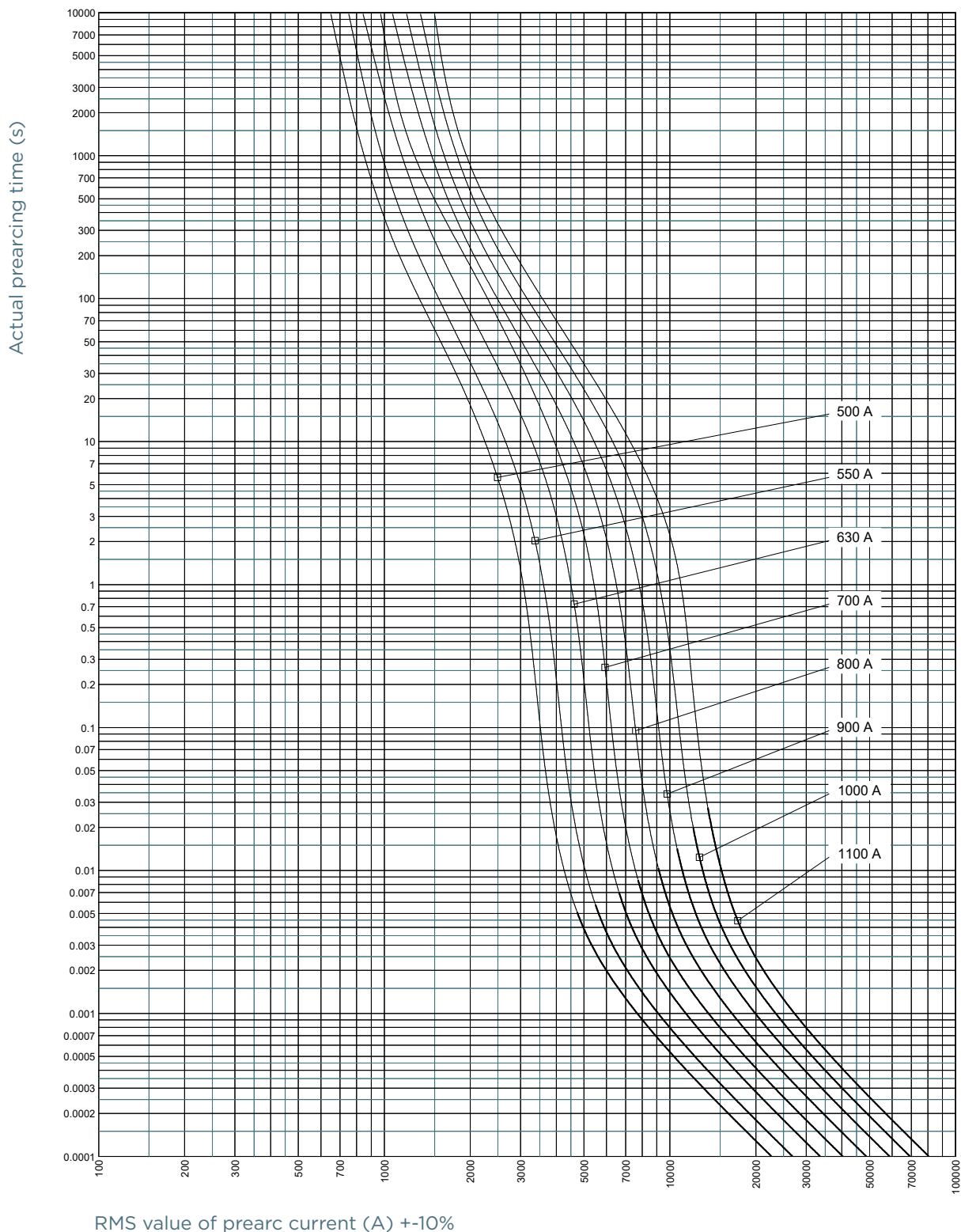
ABAT15C with flush ends TTF



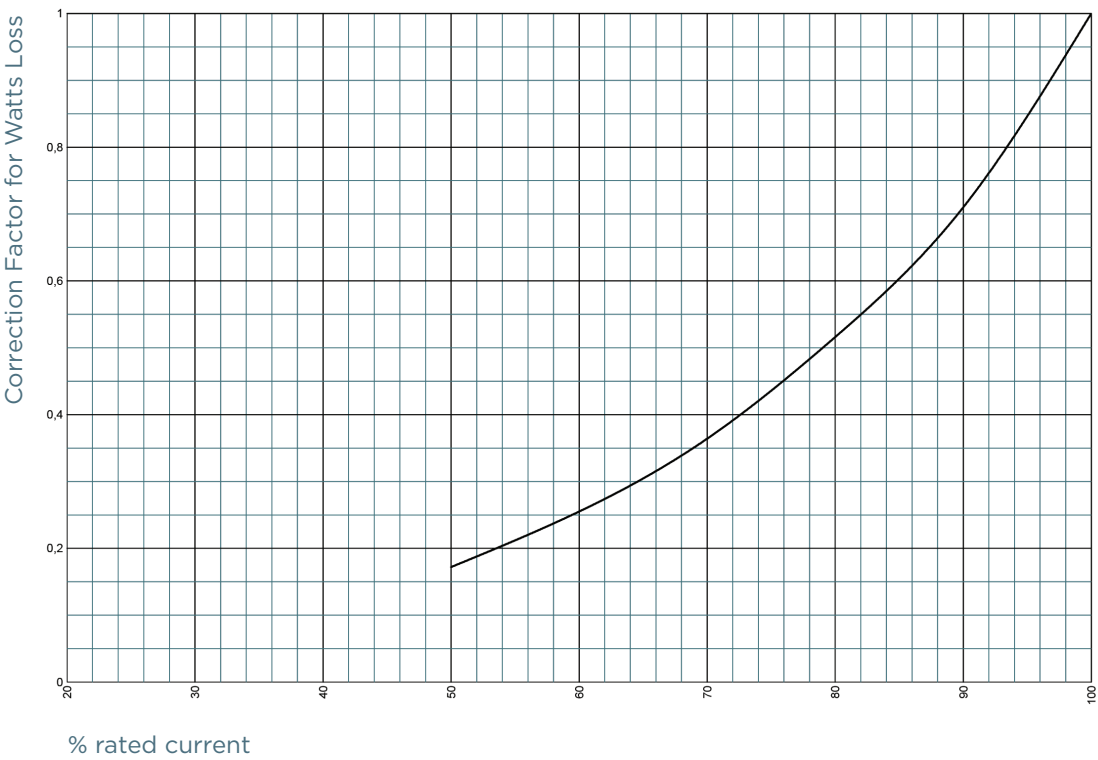
ABAT15C 1500VDC max

TIME CURRENT CHARACTERISTIC CURVES

ABAT15C with blades LI

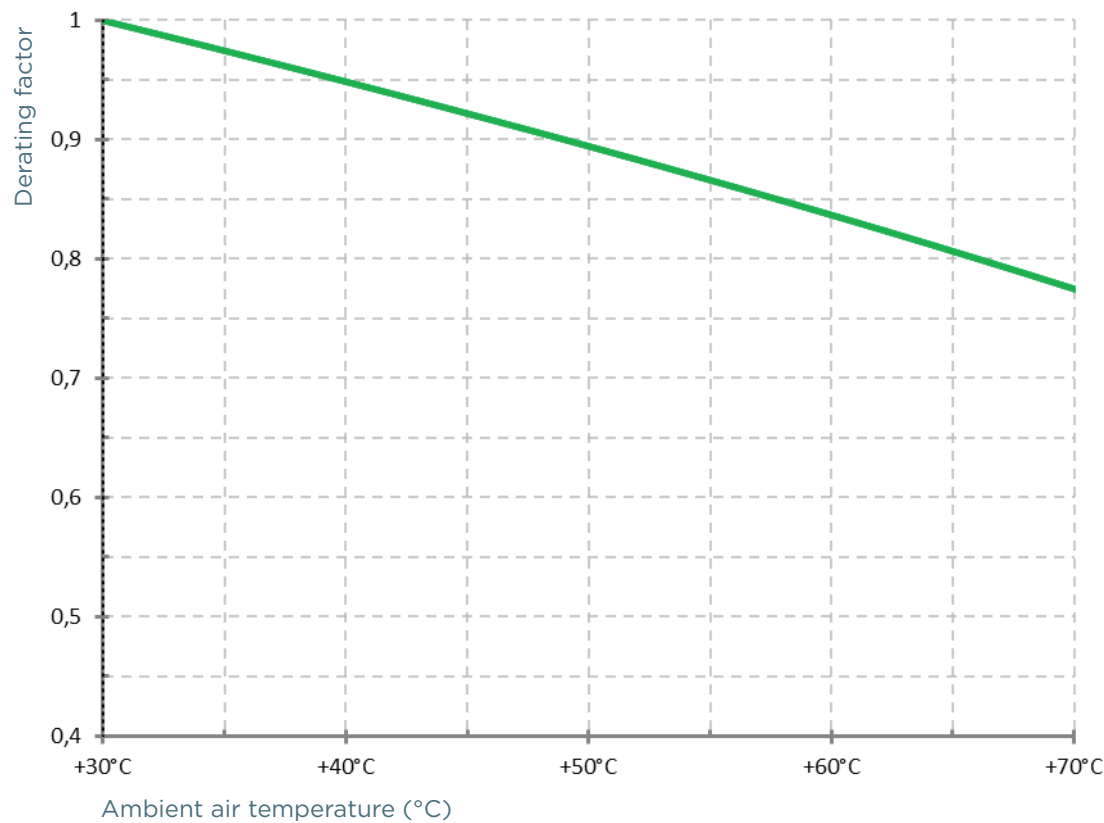


POWER DISSIPATION



TEMPERATURE DERATING

Derating factor of rated current according to ambient air temperature (°C)

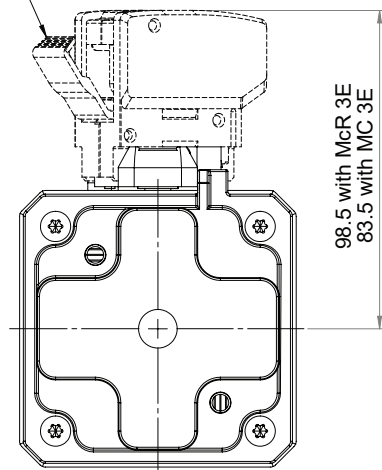


ABAT15C 1500VDC max

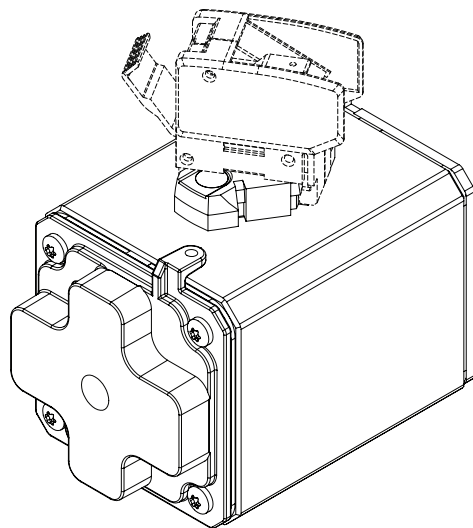
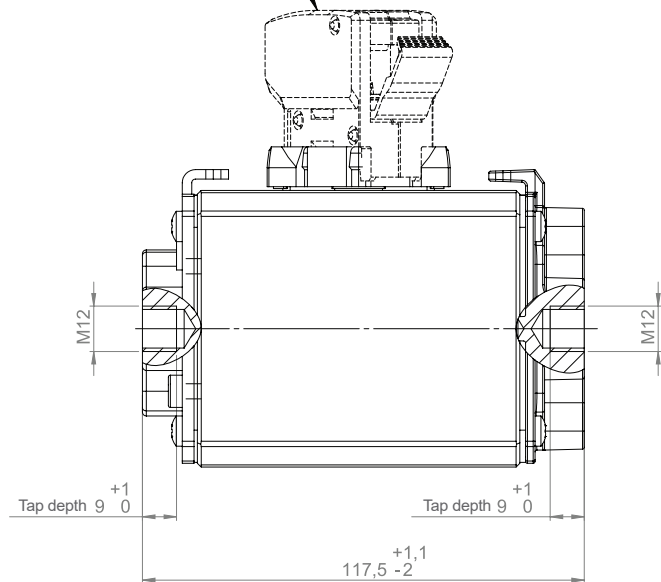
DIMENSIONS

ABAT15C with flush ends TTF

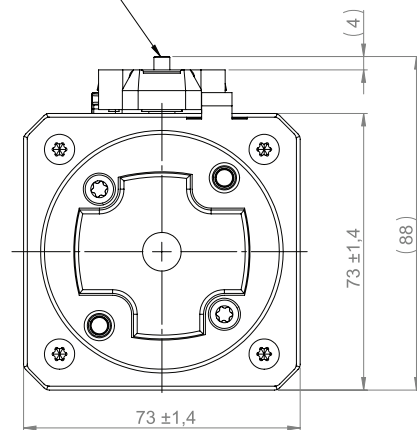
Indicator lever is visible
after fuse has operated



Option microswitch



Striker is visible
after fuse has operated



Dimensions in mm

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Industrial & Electrical Fuses](#) category:

Click to view products by [Mersen](#) manufacturer:

Other Similar products are found below :

- [A5Y10-11](#) [BP/NON-30](#) [KTN-R-10](#) [A100Z40-4ATI](#) [382000](#) [382010](#) [382015](#) [382030](#) [381455](#) [381325](#) [381360](#) [382110](#) [382115](#) [382120](#)
- [382125](#) [384510](#) [397180](#) [397270](#) [365020](#) [365025](#) [365030](#) [365035](#) [365045](#) [365050](#) [365070](#) [365075](#) [365080](#) [365225](#) [365230](#) [365245](#)
- [365255](#) [365270](#) [365280](#) [365290](#) [365370](#) [365372](#) [365380](#) [365392](#) [365395](#) [365465](#) [365467](#) [365470](#) [365472](#) [365475](#) [371025](#) [371035](#)
- [371050](#) [371060](#) [371070](#) [371380](#)