

Protistor® size 72 aR

850 to 1250VAC (IEC) / 1300VAC (UL)

SEMICONDUCTOR PROTECTION FUSES

SQUARE BODY HIGH-SPEED FUSE-LINKS AC PROTECTION



These 1250/1300V Protistor® fuse-links provide maximum flexibility in equipment design and ultimate protection for today's power conversion equipment. These aR ultra-fast acting square body fuse-links are available in different body sizes, each size having multiple worldwide acceptable mounting styles.

The Protistor® have been engineered to provide state-of-the-art protection for semiconductors: diodes, thyristors and IGBT devices. Fuses are assembled with die-cut elements embedded in solidified sand, which helps control arcing characteristics for a lower I^2t and high interrupting rating level. All contact surfaces are silver plated and all hardware is non-magnetic.

All fuse-links can be equipped with a low voltage trip-indicator which can operate a field mountable microswitch.

TECHNICAL DATA OVERVIEW

Voltage Range AC	850 ... 1250 VAC
Ampere Range (A)	250 ... 1000 A
Speed/Characteristic	aR
I.R. AC (IEC)	100 kA 120 kA
Product Size	72

FEATURES & BENEFITS

- Multiple body sizes and terminals or blades combination
- aR Class according to IEC 60269-4 and VDE 636-23
- Very low I^2t for improved semiconductor protection
- Ultra fast acting
- Current limiting
- Superior cycling capability

APPLICATIONS

- Protection of inverters, motor drives, UPS systems and similar 690V or less equipments.

STANDARDS

- IEC 60269-4 Compliance
- UL/CSA Recognized E76491 : see « UL certified » status given in Product Range table
- CCC GB 13539.4 for Asian market only
- CE marking: only for voltages less than or equal to 1000VAC



Protistor® size 72 aR

850 to 1250VAC (IEC) / 1300VAC (UL)

PRODUCT RANGE



PC72UD13C630TF

Size 72 type TTF M10 threaded terminals

Catalog number	Item number	Rated voltage AC (IEC)	Rated voltage AC (UL)	Rated current I _n	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I _n	UL certified	Package	Weight
PC72UD13C315TF	Z300494	1250 V	1300 V	315 A	15.1 kA ² s	125 kA ² s	126 kA	76 W	✓	3	0.8 kg
PC72UD13C350TF	A300495	1250 V	1300 V	350 A	21 kA ² s	170 kA ² s	126 kA	77 W	✓	3	0.8 kg
PC72UD13C400TF	B300496	1250 V	1300 V	400 A	32.8 kA ² s	270 kA ² s	126 kA	80 W	✓	3	0.8 kg
PC72UD13C450TF	C300497	1250 V	1300 V	450 A	44.2 kA ² s	360 kA ² s	126 kA	89 W	✓	3	0.8 kg
PC72UD13C500TF	D300498	1250 V	1300 V	500 A	57.1 kA ² s	465 kA ² s	126 kA	98 W	✓	3	0.8 kg
PC72UD13C550TF	E300499	1250 V	1300 V	550 A	68 kA ² s	550 kA ² s	126 kA	110 W	✓	3	0.8 kg
PC72UD13C630TF	F300500	1250 V	1300 V	630 A	106.3 kA ² s	860 kA ² s	126 kA	113 W	✓	3	0.8 kg
PC72UD11C700TF	G300501	1100 V	1200 V	700 A	141.9 kA ² s	920 kA ² s	150 kA	140 W	✓	3	0.8 kg
PC72UD11C800TF	H300502	1100 V	1200 V	800 A	215.1 kA ² s	1400 kA ² s	150 kA	146 W	✓	3	0.8 kg
PC72UD10C900TF	G300869	1000 V	1100 V	900 A	312 kA ² s	1800 kA ² s	167 kA	152 W	-	3	0.8 kg
PC72UD85V1000TF	T301294	850 V	900 V	1000 A	439 kA ² s	2150 kA ² s	100 kA	136 W	-	3	0.8 kg



A120UD72TTI800

Size 72 type TTI 3/8in - 16 unified coarse threaded terminals

Catalog number	Item number	Rated voltage AC (IEC)	Rated voltage AC (UL)	Rated current I _n	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I _n	UL certified	Package	Weight
A130UD72TTI280	N301036	1250 V	1300 V	280 A	10.3 kA ² s	85 kA ² s	126 kA	72 W	✓	3	0.85 kg
A130UD72TTI315	P301037	1250 V	1300 V	315 A	15.1 kA ² s	125 kA ² s	126 kA	76 W	✓	3	0.85 kg
A130UD72TTI350	Q301038	1250 V	1300 V	350 A	21 kA ² s	170 kA ² s	126 kA	77 W	✓	3	0.85 kg
A130UD72TTI400	R301039	1250 V	1300 V	400 A	32.8 kA ² s	270 kA ² s	126 kA	80 W	✓	3	0.85 kg
A130UD72TTI450	S301040	1250 V	1300 V	450 A	44.2 kA ² s	360 kA ² s	126 kA	87 W	✓	3	0.85 kg
A130UD72TTI500	T301041	1250 V	1300 V	500 A	57.1 kA ² s	465 kA ² s	126 kA	94 W	✓	3	0.85 kg
A130UD72TTI550	V301042	1250 V	1300 V	550 A	68 kA ² s	550 kA ² s	126 kA	110 W	✓	3	0.85 kg
A130UD72TTI630	W301043	1250 V	1300 V	630 A	106.3 kA ² s	860 kA ² s	126 kA	113 W	✓	3	0.85 kg
A120UD72TTI700	X301044	1100 V	1200 V	700 A	141.9 kA ² s	920 kA ² s	150 kA	140 W	✓	3	0.85 kg
A120UD72TTI800	Y301045	1100 V	1200 V	800 A	215.1 kA ² s	1400 kA ² s	150 kA	146 W	✓	3	0.85 kg

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PRODUCT RANGE



PC72UD13C550D1A

Size 72 type DIN110 blades

Catalog number	Item number	Rated voltage AC (IEC)	Rated voltage AC (UL)	Rated current I_n	Pre-arcing I^2t	Clearing I^2t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I_n	UL certified	Package	Weight
PC72UD13C280D1A	P300554	1250 V	1300 V	280 A	10.3 kA ² s	85 kA ² s	126 kA	72 W	✓	3	0.70 kg
PC72UD13C315D1A	Q300555	1250 V	1300 V	315 A	15.1 kA ² s	125 kA ² s	126 kA	76 W	✓	3	0.70 kg
PC72UD13C350D1A	R300556	1250 V	1300 V	350 A	21 kA ² s	170 kA ² s	126 kA	77 W	✓	3	0.70 kg
PC72UD13C400D1A	S300557	1250 V	1300 V	400 A	32.8 kA ² s	270 kA ² s	126 kA	80 W	✓	3	0.70 kg
PC72UD13C450D1A	T300558	1250 V	1300 V	450 A	44.2 kA ² s	360 kA ² s	126 kA	89 W	✓	3	0.70 kg
PC72UD13C500D1A	V300559	1250 V	1300 V	500 A	57.1 kA ² s	465 kA ² s	126 kA	98 W	✓	3	0.70 kg
PC72UD13C550D1A	W300560	1250 V	1300 V	550 A	68 kA ² s	550 kA ² s	126 kA	120 W	✓	3	0.70 kg
PC72UD11C630D1A	X300561	1100 V	1200 V	630 A	106.3 kA ² s	690 kA ² s	150 kA	125 W	✓	3	0.70 kg
PC72UD10C700D1A	Y300562	1000 V	1100 V	700 A	141.9 kA ² s	815 kA ² s	167 kA	140 W	✓	3	0.70 kg
PC72UD10C800D1A	Z300563	1000 V	1100 V	800 A	215.1 kA ² s	1240 kA ² s	167 kA	146 W	✓	3	0.70 kg



A110UD72LI800

Size 72 type LI slotted blades

Catalog number	Item number	Rated voltage AC (IEC)	Rated voltage AC (UL)	Rated current I_n	Pre-arcing I^2t	Clearing I^2t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I_n	UL certified	Package	Weight
A130UD72LI280	Q300670	1250 V	1300 V	280 A	10.3 kA ² s	85 kA ² s	126 kA	72 W	✓	3	0.72 kg
A130UD72LI315	R300671	1250 V	1300 V	315 A	15.1 kA ² s	125 kA ² s	126 kA	76 W	✓	3	0.72 kg
A130UD72LI350	S300672	1250 V	1300 V	350 A	21 kA ² s	170 kA ² s	126 kA	77 W	✓	3	0.72 kg
A130UD72LI400	T300673	1250 V	1300 V	400 A	32.8 kA ² s	270 kA ² s	126 kA	80 W	✓	3	0.72 kg
A130UD72LI450	V300674	1250 V	1300 V	450 A	44.2 kA ² s	360 kA ² s	126 kA	89 W	✓	3	0.72 kg
A130UD72LI500	W300675	1250 V	1300 V	500 A	57.1 kA ² s	465 kA ² s	126 kA	98 W	✓	3	0.72 kg
A130UD72LI550	X300676	1250 V	1300 V	550 A	68 kA ² s	550 kA ² s	126 kA	120 W	✓	3	0.72 kg
A120UD72LI630	Y300677	1100 V	1200 V	630 A	106.3 kA ² s	690 kA ² s	150 kA	125 W	✓	3	0.72 kg
A110UD72LI700	Z300678	1000 V	1100 V	700 A	141.9 kA ² s	815 kA ² s	167 kA	140 W	✓	3	0.72 kg
A110UD72LI800	A300679	1000 V	1100 V	800 A	215.1 kA ² s	1240 kA ² s	167 kA	146 W	✓	3	0.72 kg



PC72UD10C800EF

Size 72 type EF style notched blade connections

Catalog number	Item number	Rated voltage AC (IEC)	Rated voltage AC (UL)	Rated current I_n	Pre-arcing I^2t	Clearing I^2t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I_n	UL certified	Package	Weight
PC72UD13C280EF	J300618	1250 V	1300 V	280 A	10.3 kA ² s	85 kA ² s	126 kA	72 W	✓	3	0.76 kg
PC72UD13C315EF	K300619	1250 V	1300 V	315 A	15.1 kA ² s	125 kA ² s	126 kA	76 W	✓	3	0.76 kg
PC72UD13C350EF	L300620	1250 V	1300 V	350 A	21 kA ² s	170 kA ² s	126 kA	77 W	✓	3	0.76 kg
PC72UD13C400EF	M300621	1250 V	1300 V	400 A	32.8 kA ² s	270 kA ² s	126 kA	80 W	✓	3	0.76 kg
PC72UD13C450EF	N300622	1250 V	1300 V	450 A	44.2 kA ² s	360 kA ² s	126 kA	89 W	✓	3	0.76 kg
PC72UD13C500EF	P300623	1250 V	1300 V	500 A	57.1 kA ² s	465 kA ² s	126 kA	98 W	✓	3	0.76 kg
PC72UD11C630EF	R300625	1100 V	1200 V	630 A	106.3 kA ² s	690 kA ² s	150 kA	125 W	✓	3	0.76 kg
PC72UD10C700EF	S300626	1000 V	1100 V	700 A	141.9 kA ² s	815 kA ² s	167 kA	140 W	✓	3	0.76 kg
PC72UD10C800EF	T300627	1000 V	1100 V	800 A	215.1 kA ² s	1240 kA ² s	167 kA	146 W	✓	3	0.76 kg

Protistor® size 72 aR

850 to 1250VAC (IEC) / 1300VAC (UL)

PRODUCT RANGE



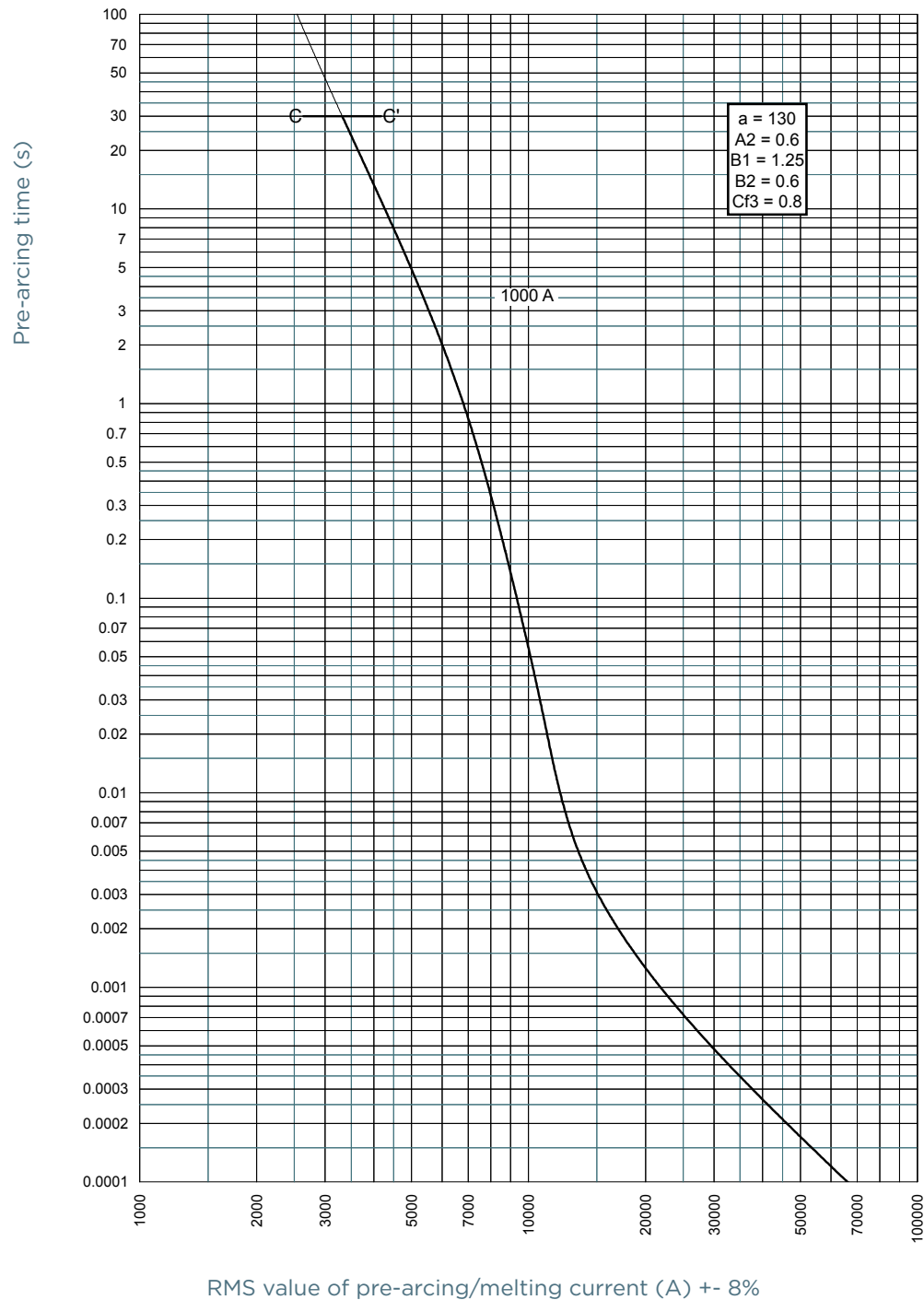
PC72UD11C630PA

Size 72 type PA plain blades

Catalog number	Item number	Rated voltage AC (IEC)	Rated voltage AC (UL)	Rated current I _n	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I _n	UL certified	Package	Weight
PC72UD13C315PA	H301836	1250 V	1300 V	315 A	15.1 kA²s	125 kA²s	126 kA	76 W	✓	3	0.78 kg
PC72UD13C400PA	B300841	1250 V	1300 V	400 A	32.8 kA²s	270 kA²s	126 kA	80 W	✓	3	0.78 kg
PC72UD13C450PA	C300842	1250 V	1300 V	450 A	44.2 kA²s	360 kA²s	126 kA	89 W	✓	3	0.78 kg
PC72UD13C500PA	P302716	1250 V	1300 V	500 A	57.1 kA²s	465 kA²s	126 kA	98 W	✓	3	0.78 kg
PC72UD11C630PA	N301220	1100 V	1200 V	630 A	106.3 kA²s	690 kA²s	150 kA	125 W	✓	3	0.78 kg
PC72UD10C800PA	M302047	1000 V	1100 V	800 A	215.1 kA²s	1240 kA²s	167 kA	146 W	✓	3	0.78 kg

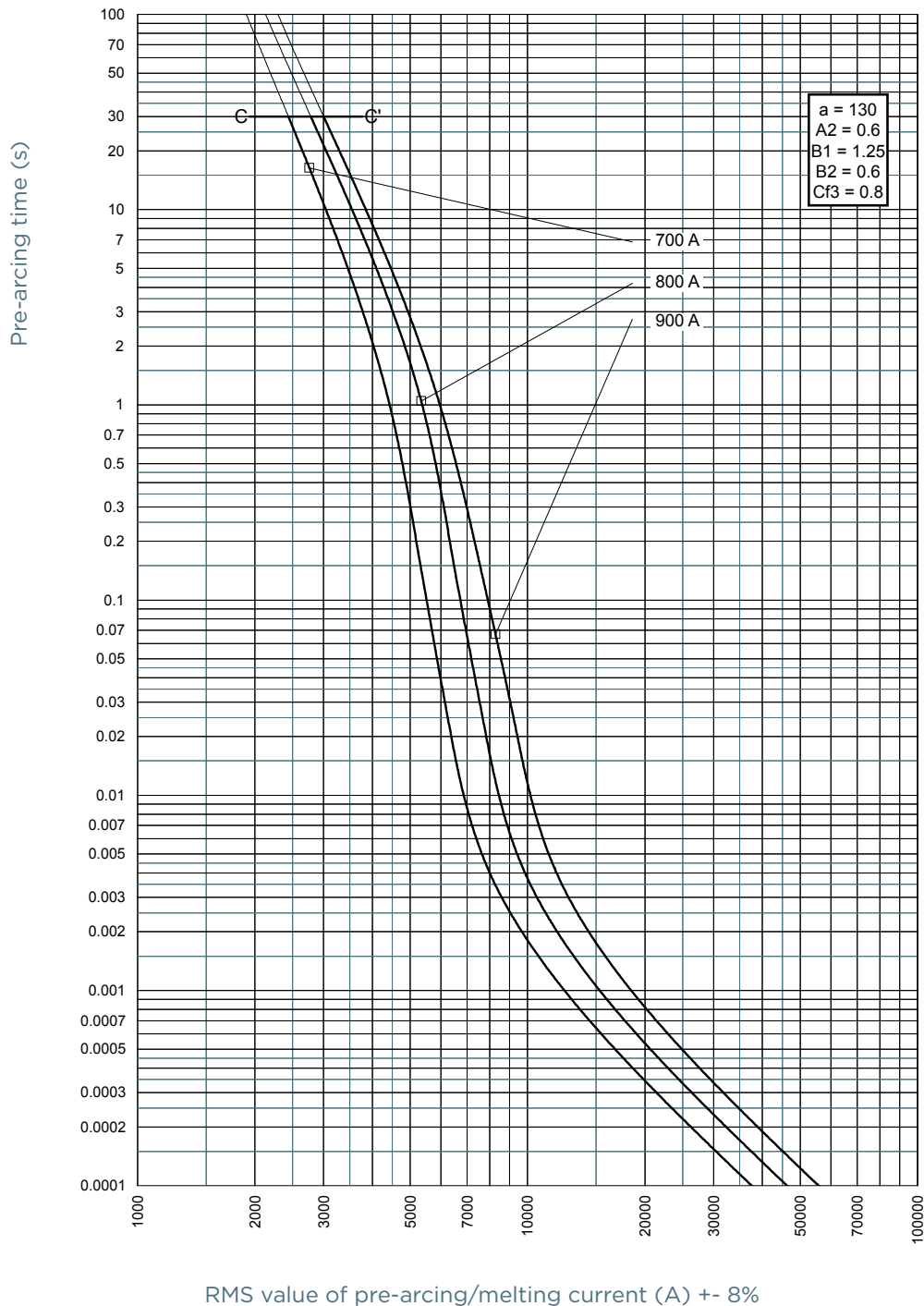
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Size 72 aR 850V



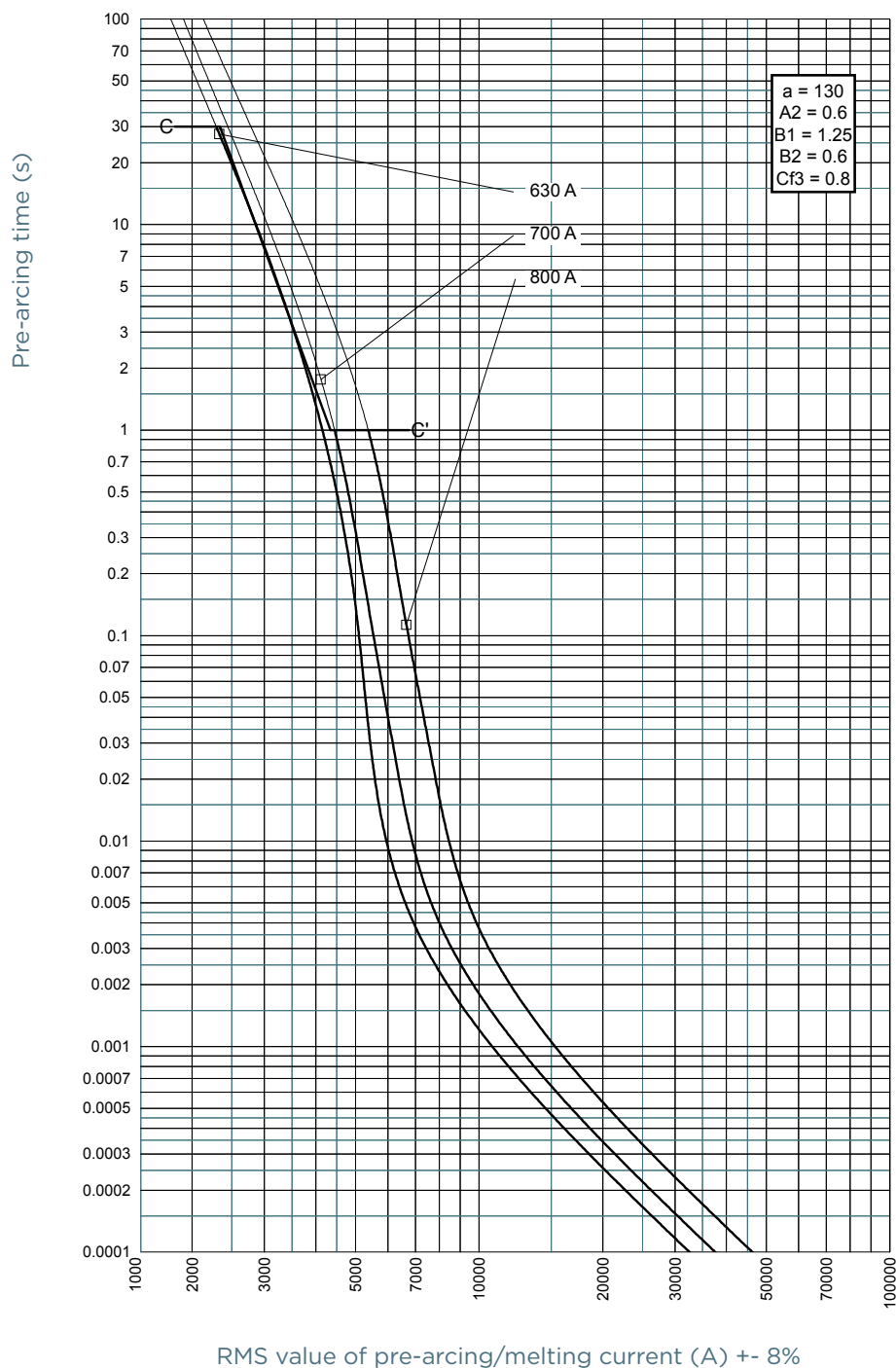
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Size 72 aR 1000V



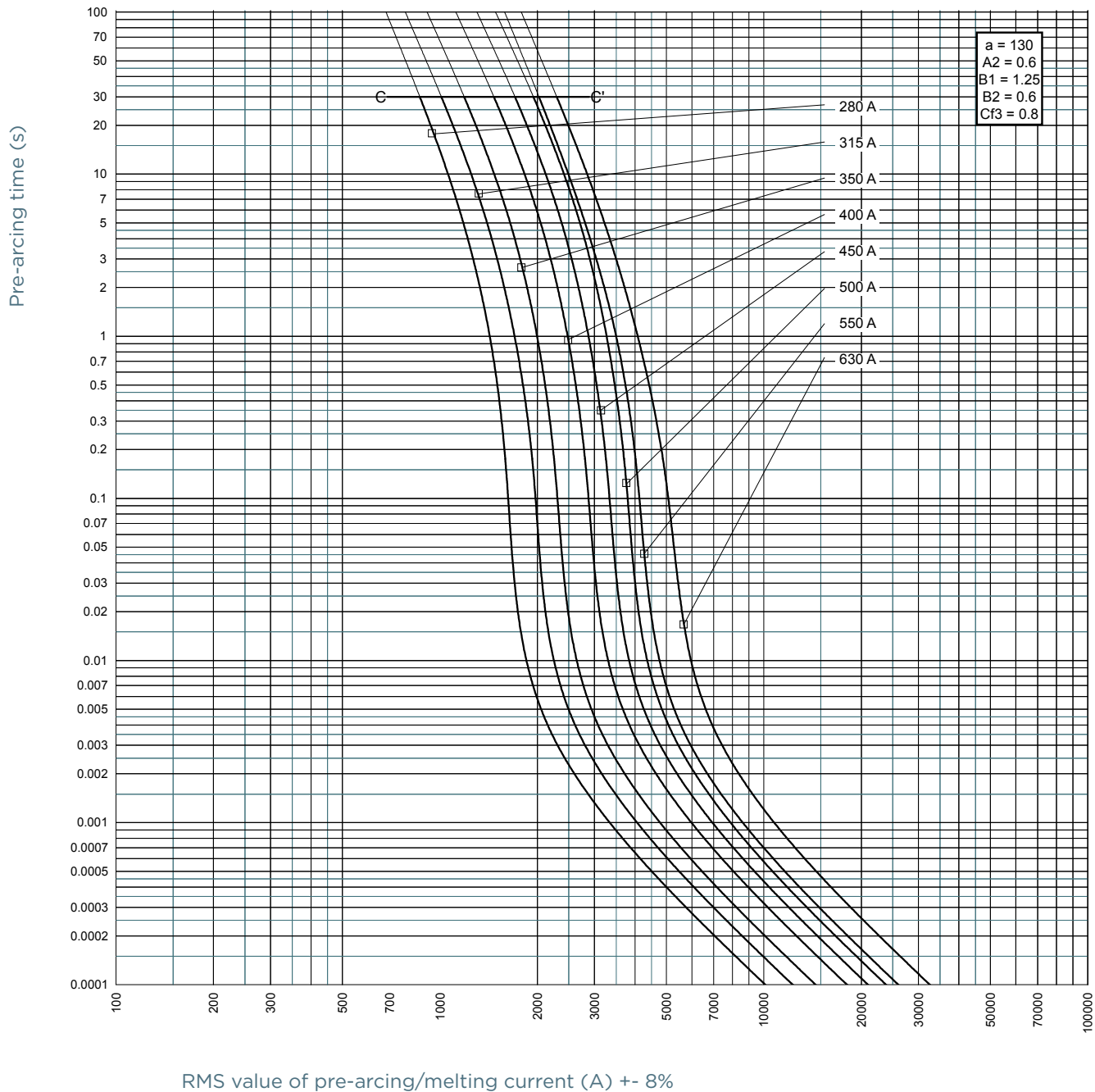
TIME CURRENT CHARACTERISTIC CURVES

Size 72 aR 1100V



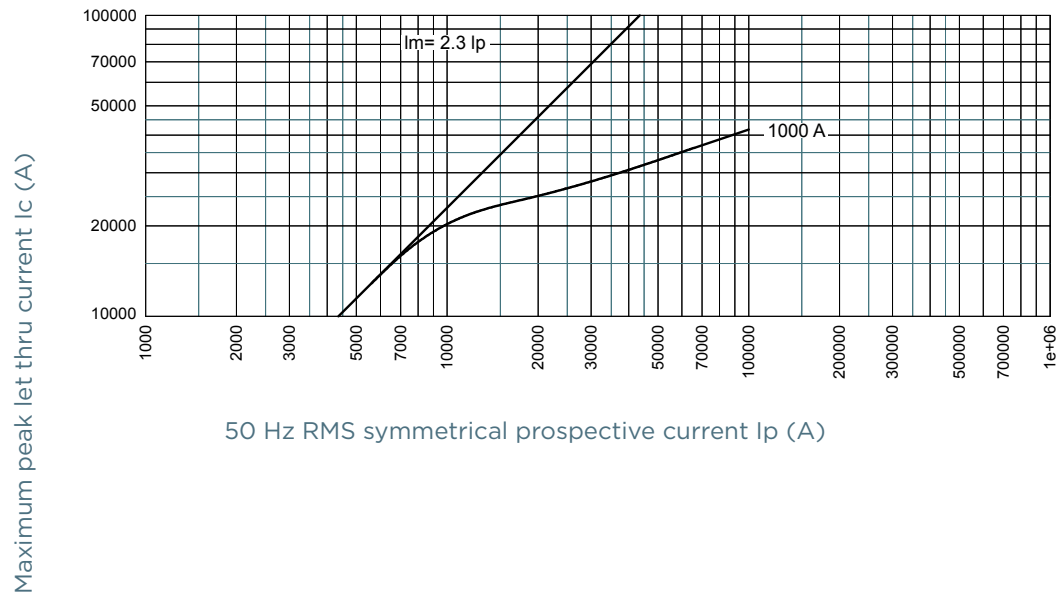
TIME CURRENT CHARACTERISTIC CURVES

Size 72 aR 1250V

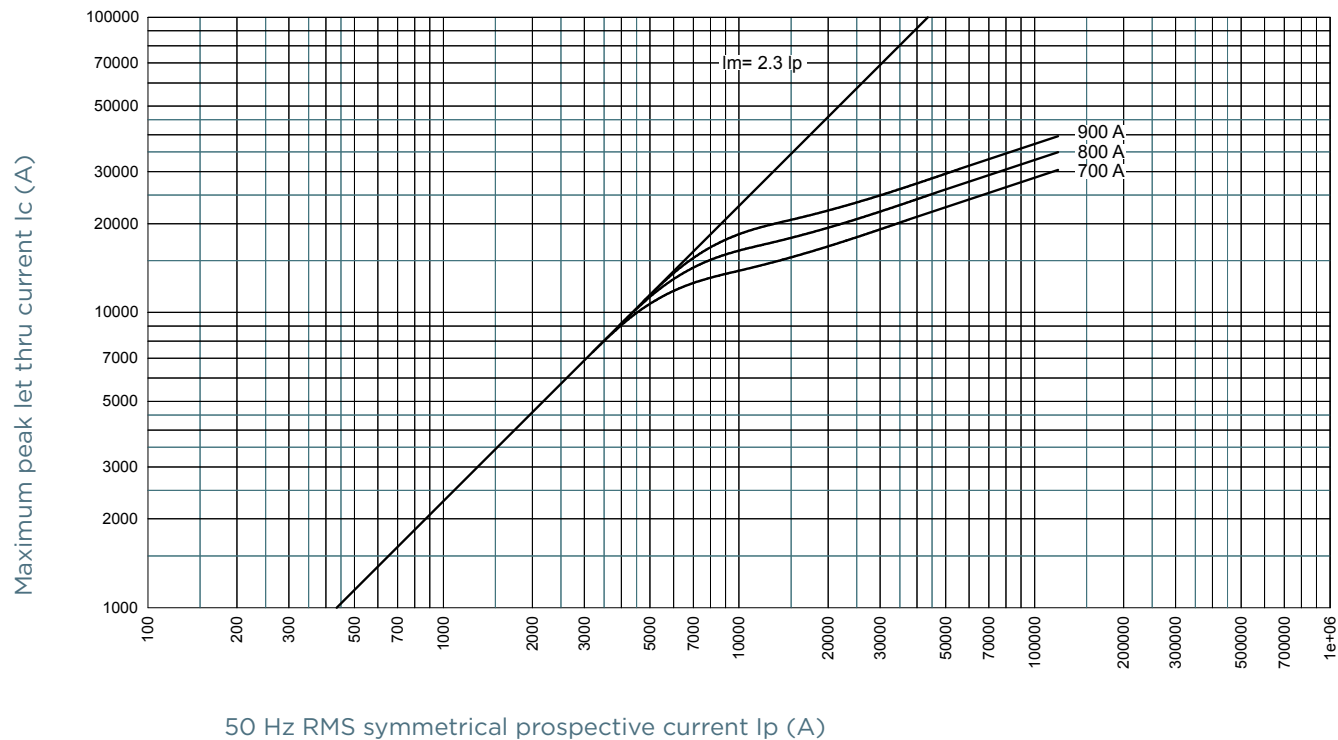


CUT-OFF CURRENT CHARACTERISTIC

Size 72 aR 850V

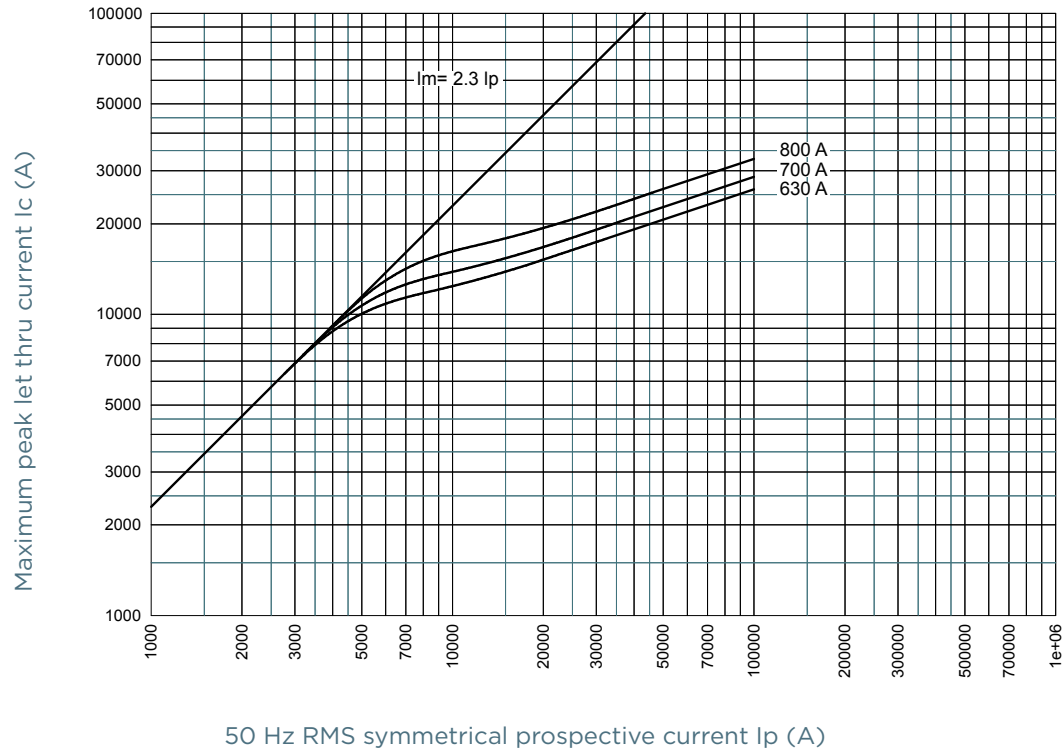


Size 72 aR 1000V

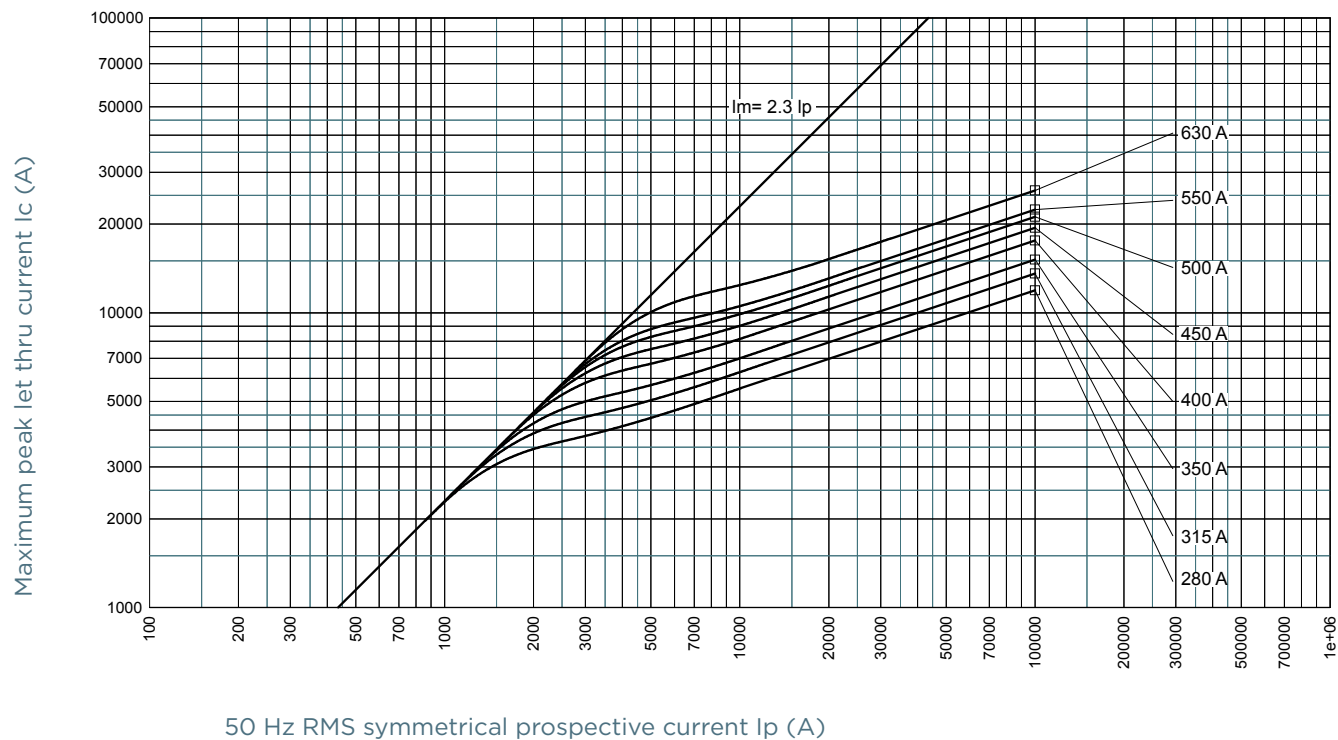


CUT-OFF CURRENT CHARACTERISTIC

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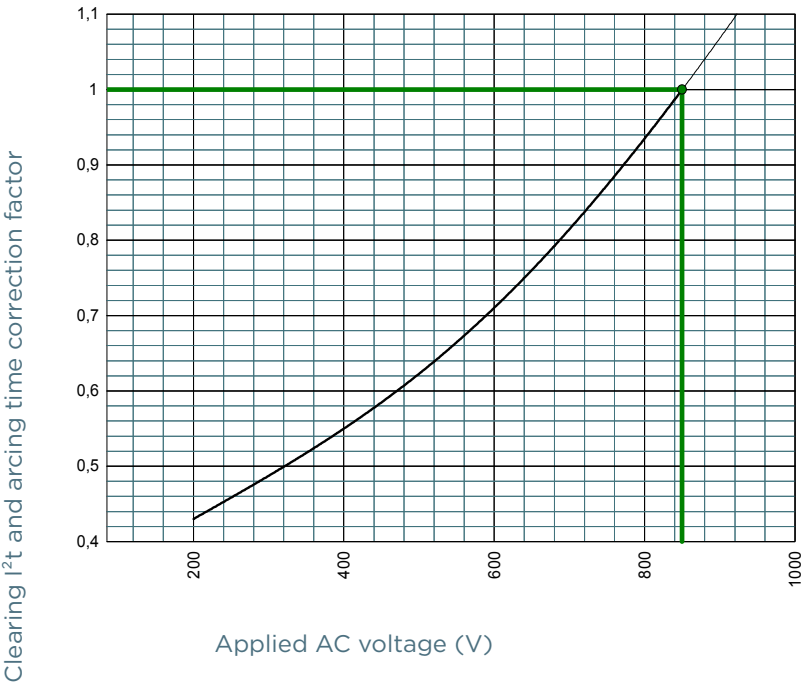


Size 72 aR 1250V

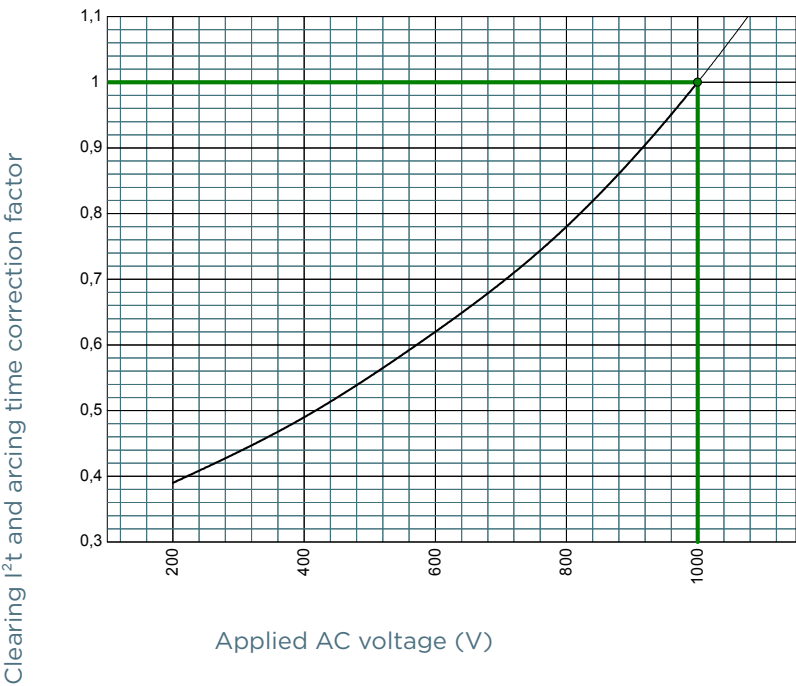


I²T MULTIPLIER COEFFICIENT

Size 72 aR 850V

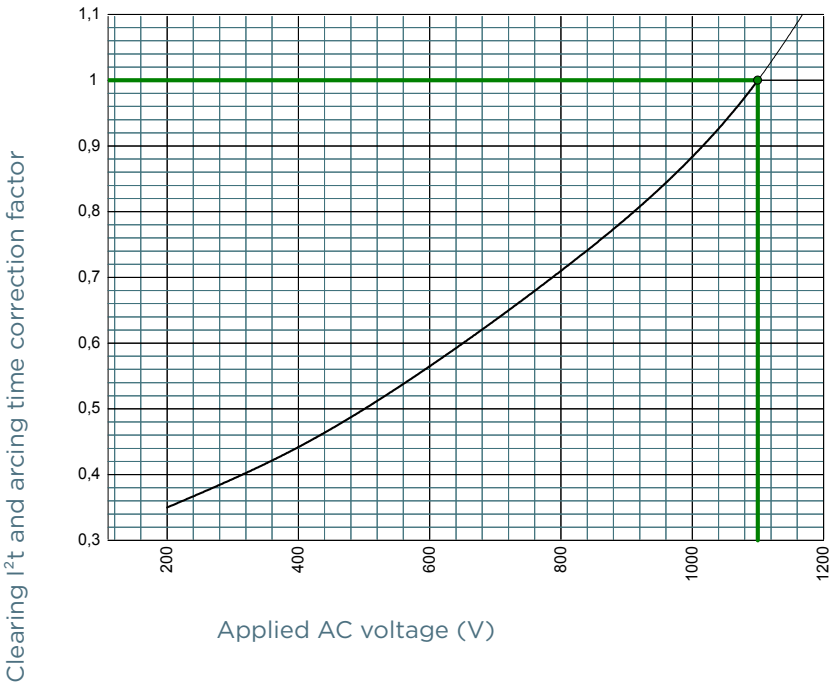


Size 72 aR 1000V

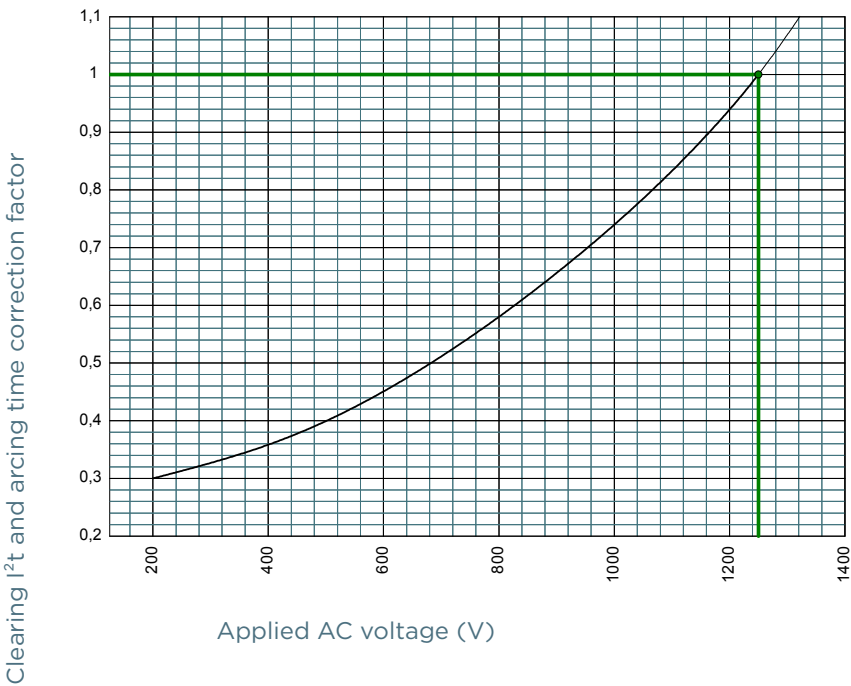


I²T MULTIPLIER COEFFICIENT

Size 72 aR 1100V

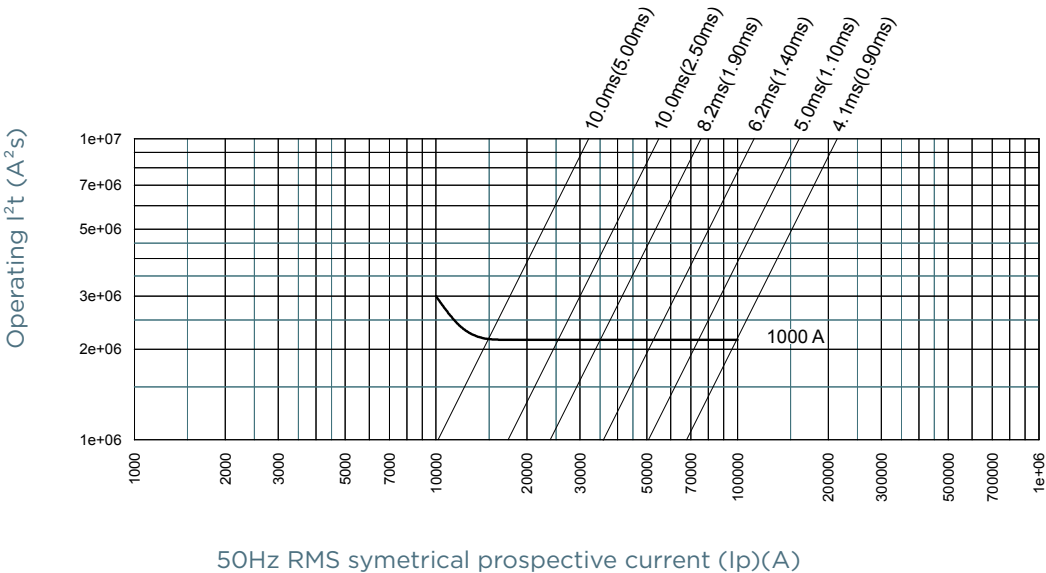


Size 72 aR 1250V

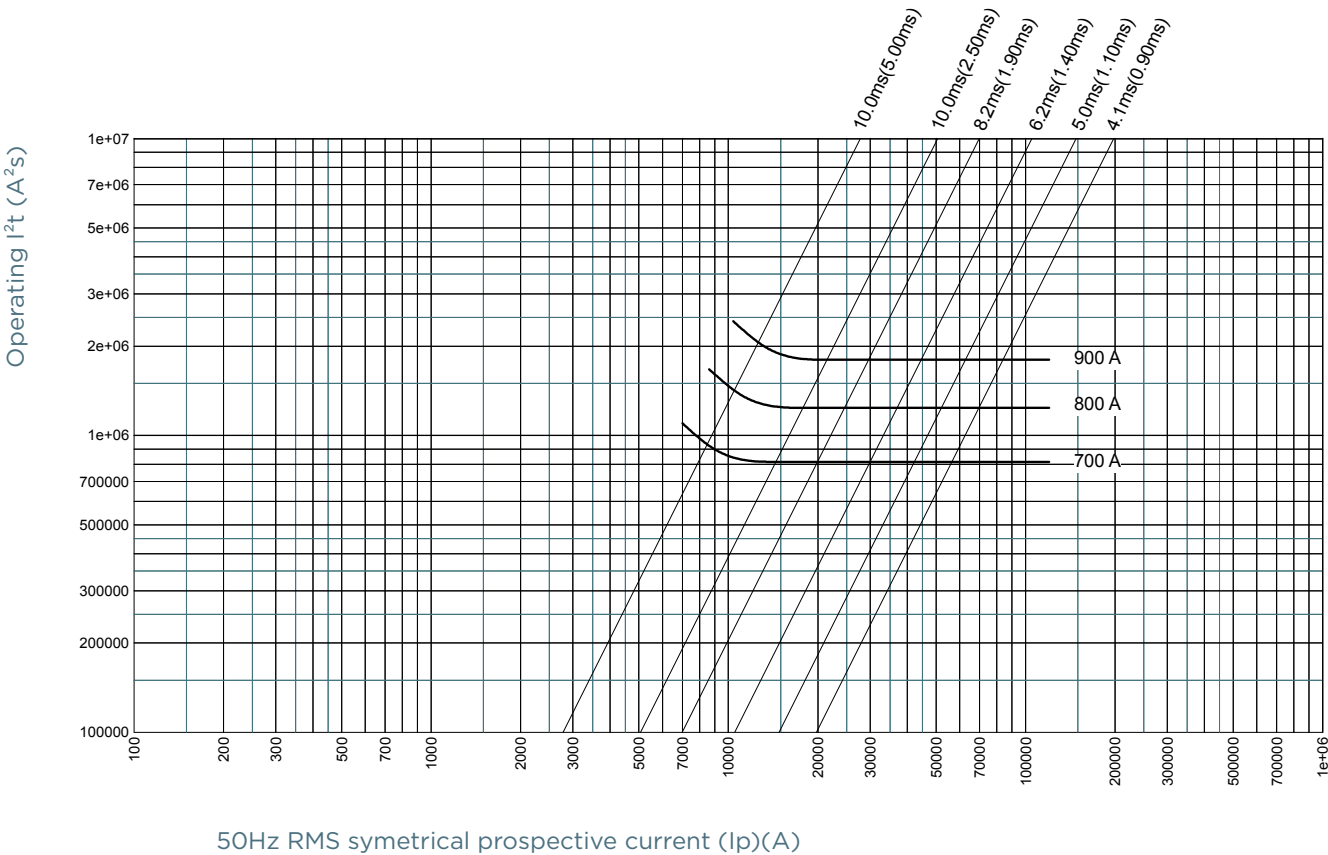


CHARACTERISTICS TOTAL I²T CURVE

Size 72 aR 850V

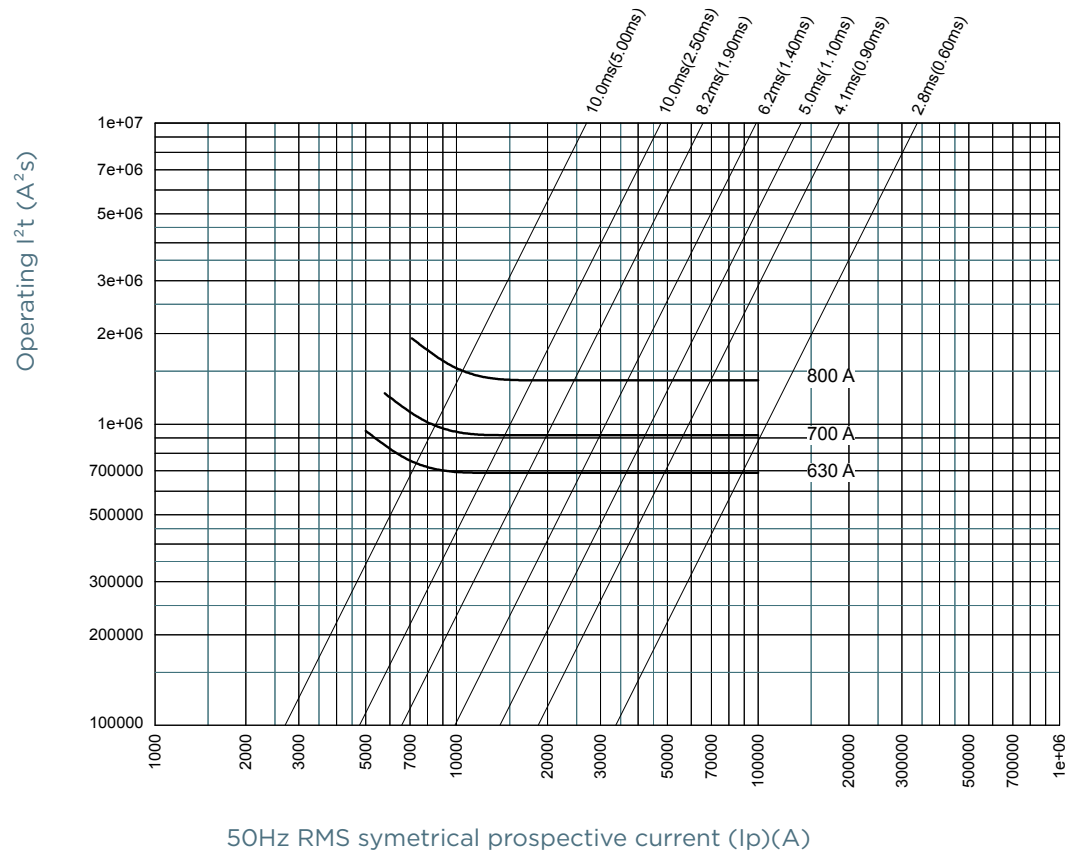


Size 72 aR 1000V



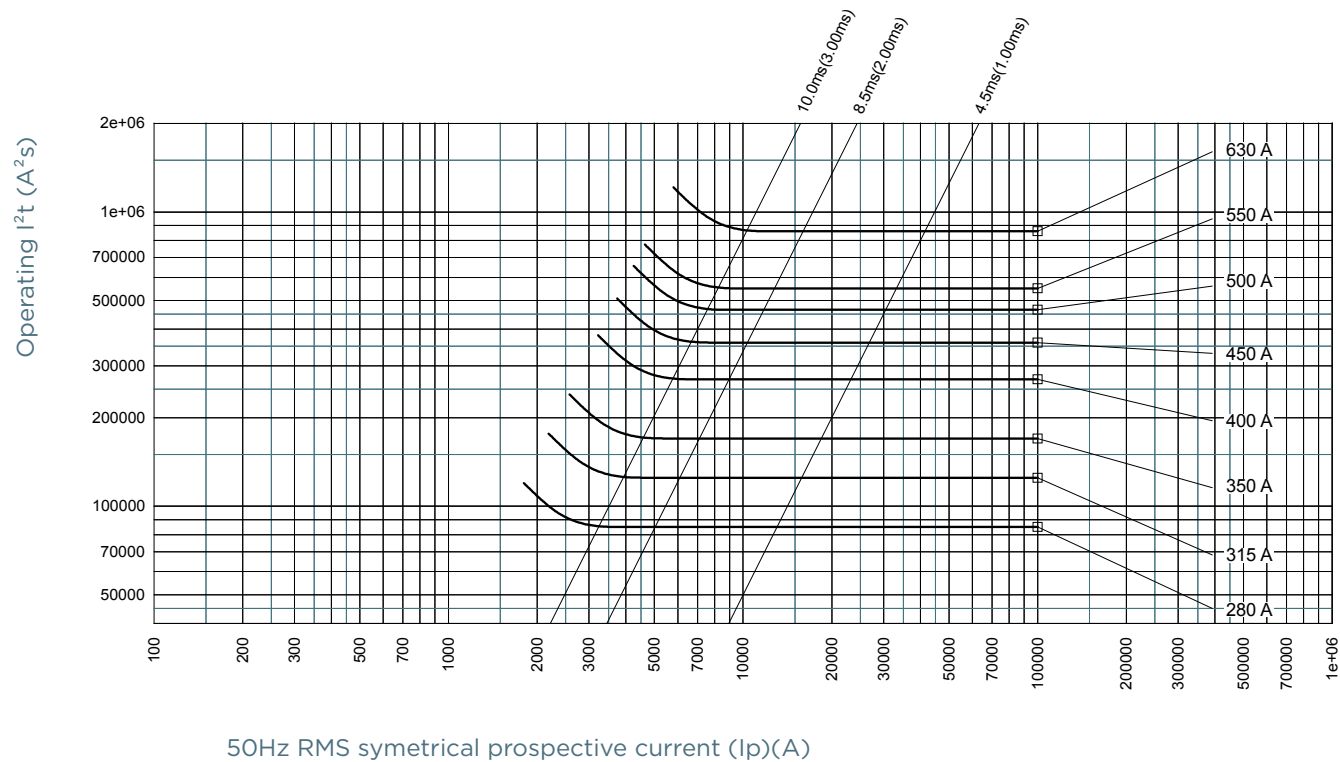
CHARACTERISTICS TOTAL I²T CURVE

Size 72 aR 1100V



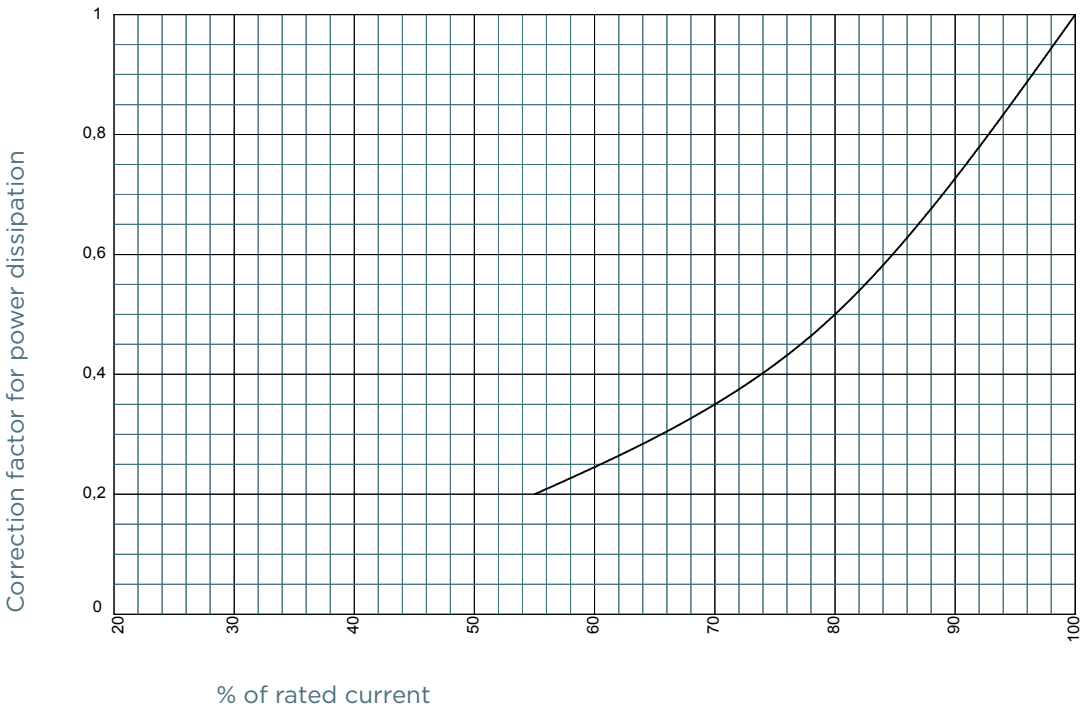
CHARACTERISTICS TOTAL I²T CURVE

Size 72 aR 1250V

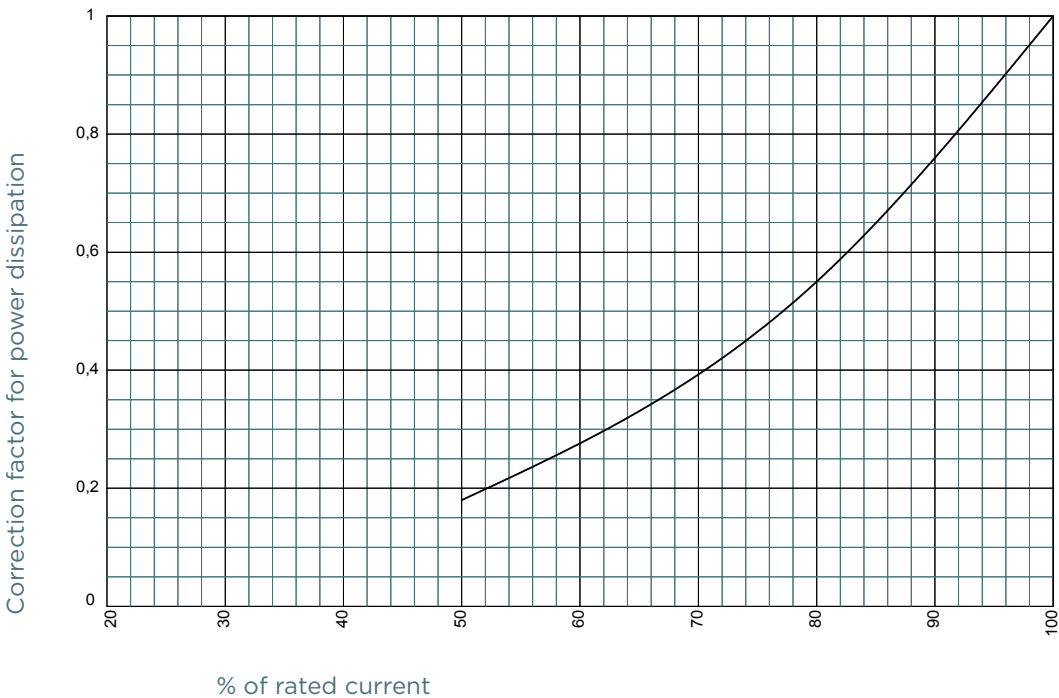


POWER DISSIPATION

Size 72 aR 850V - 1000V - 1100V

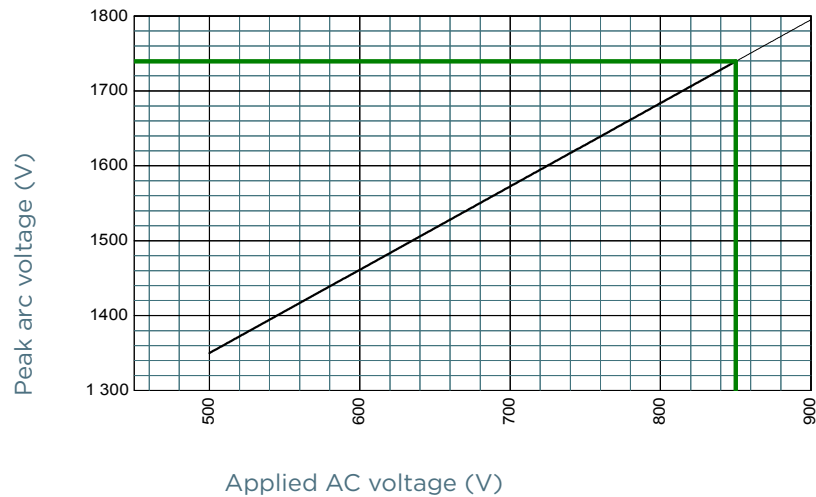


Size 72 aR 1250V

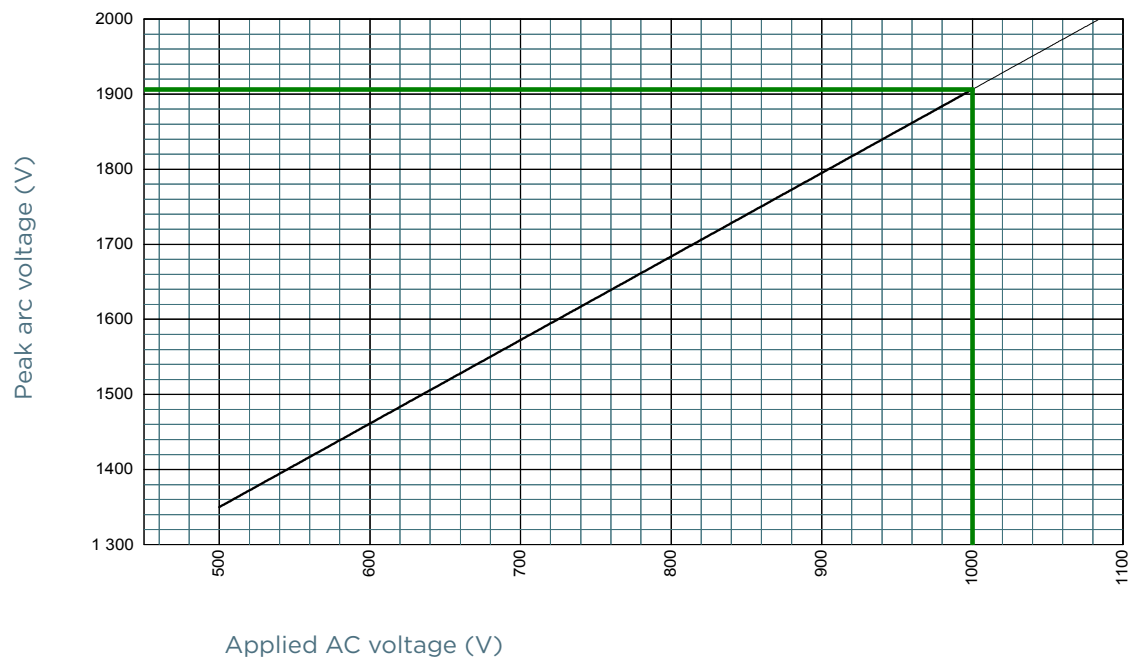


PEAK ARC VOLTAGE

Size 72 aR 850V

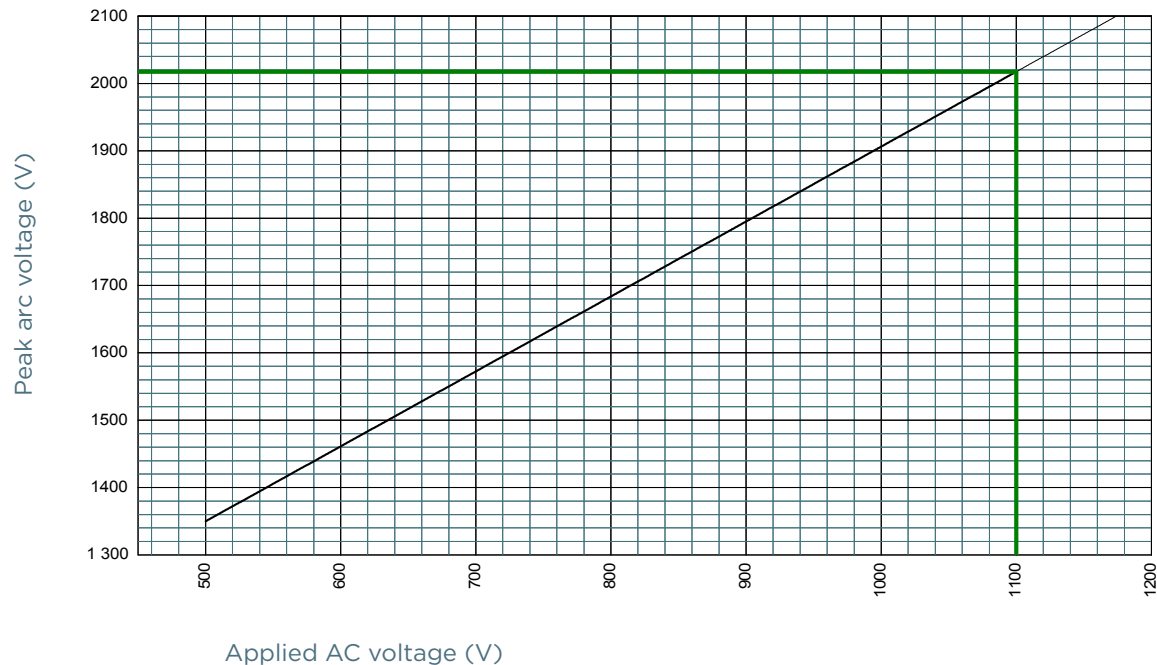


Size 72 aR 1000V

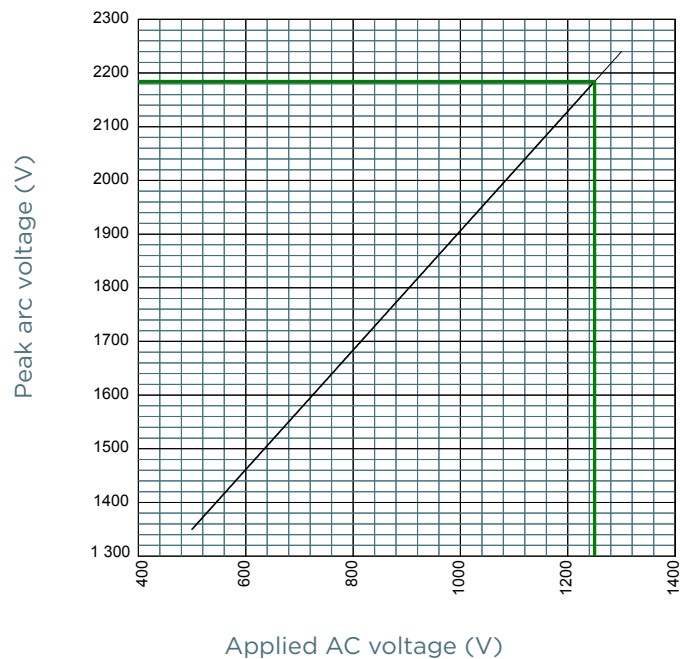


PEAK ARC VOLTAGE

Size 72 aR 1100V



Size 72 aR 1250V

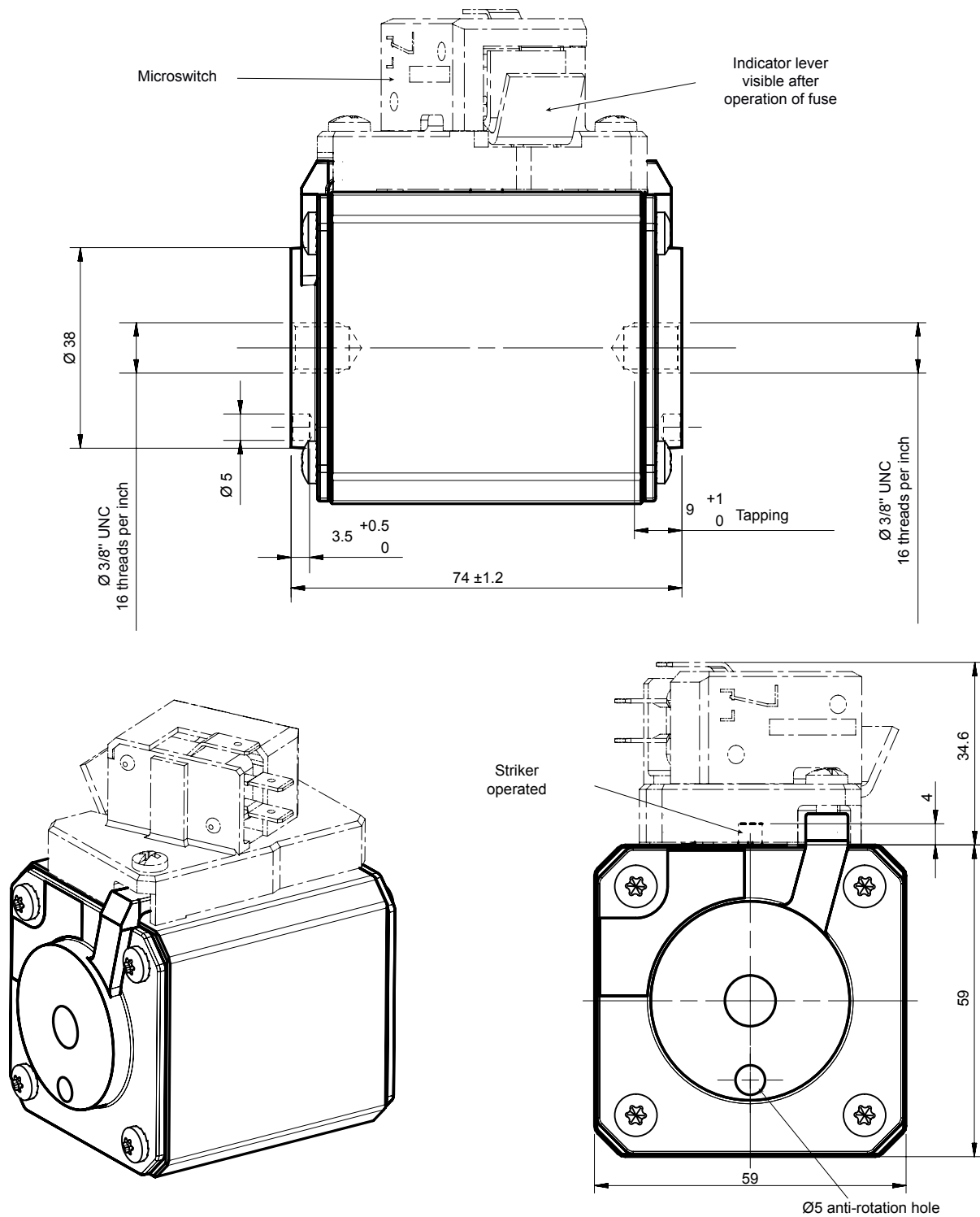


Protistor® size 72 aR

850 to 1250VAC (IEC) / 1300VAC (UL)

DIMENSIONS

Size 72 aR type TTI (109499)



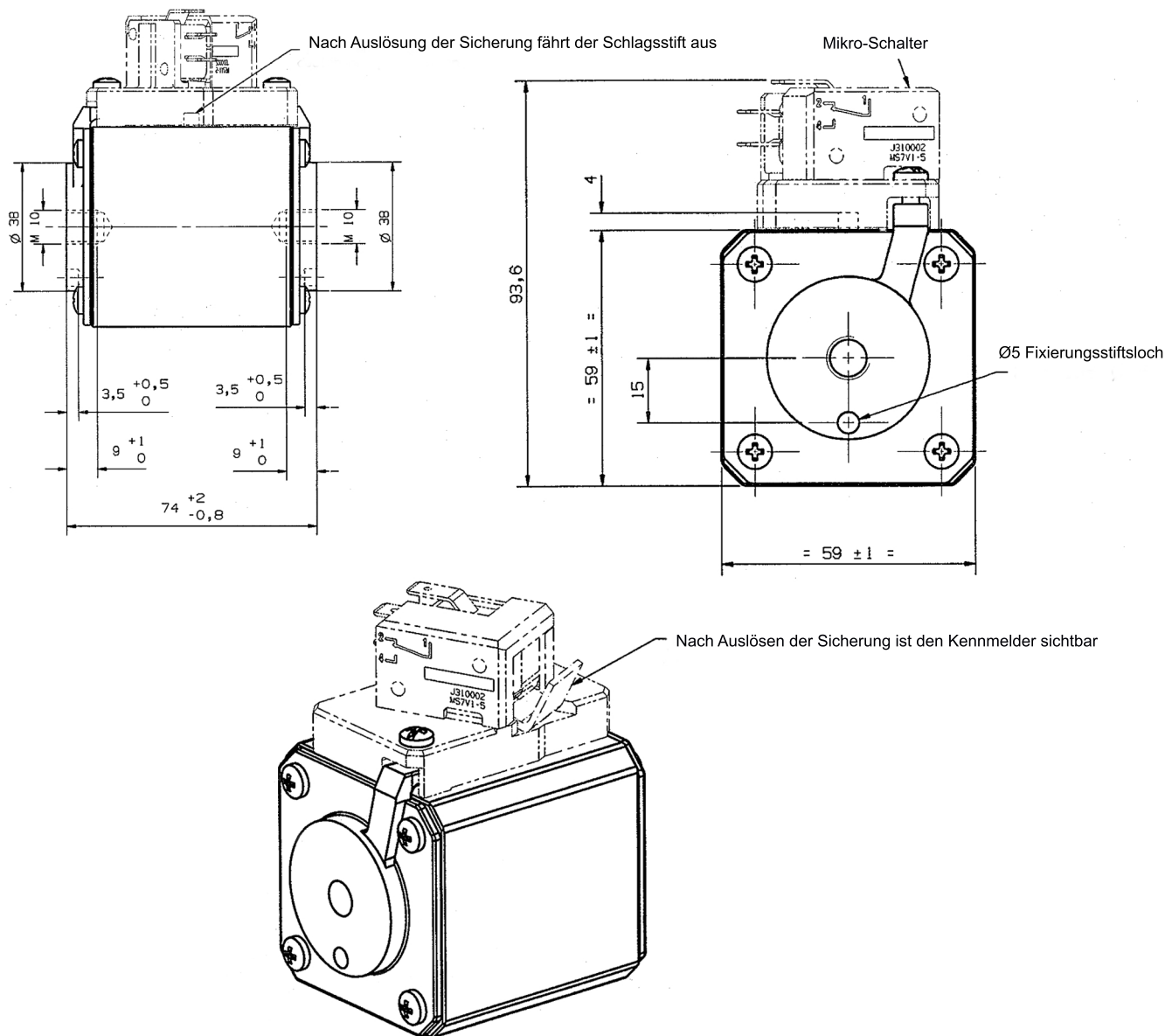
Dimensions in mm

Protistor® size 72 aR

850 to 1250VAC (IEC) / 1300VAC (UL)

DIMENSIONS

Size 72 aR type TTF (105700)



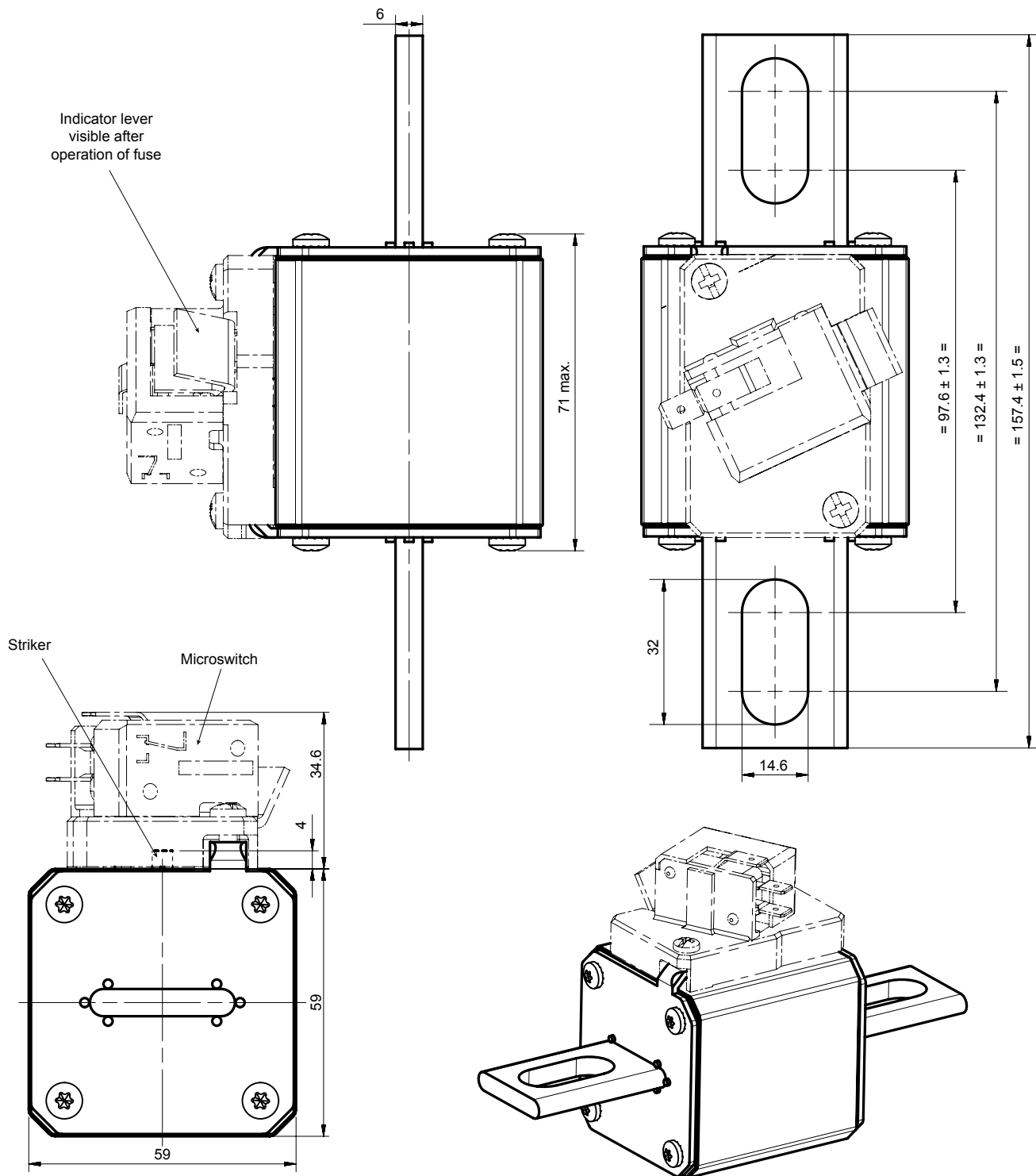
Dimensions in mm

Protistor® size 72 aR

850 to 1250VAC (IEC) / 1300VAC (UL)

DIMENSIONS

Size 72 aR type LI (105923)



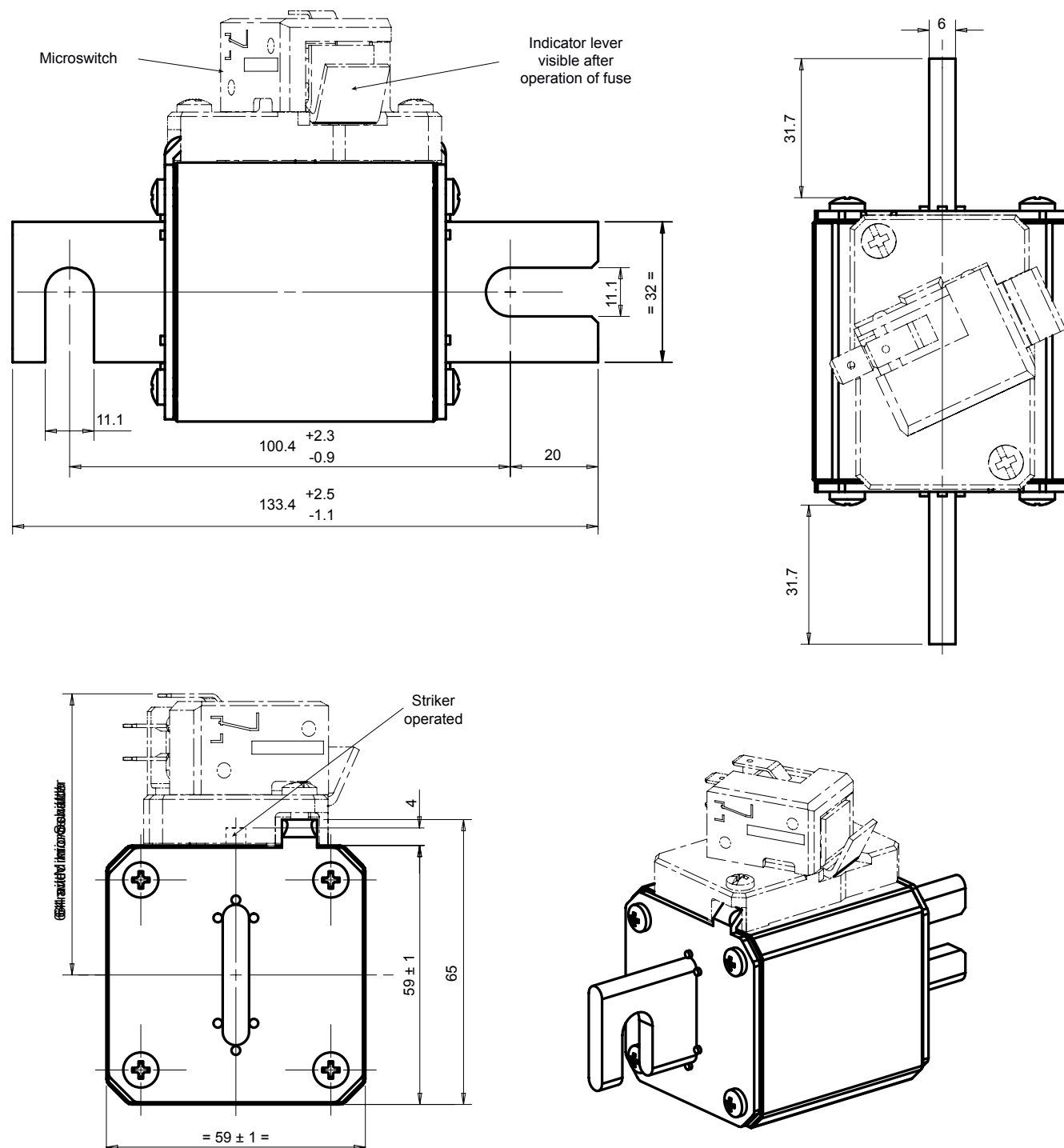
Dimensions in mm

Protistor® size 72 aR

850 to 1250VAC (IEC) / 1300VAC (UL)

DIMENSIONS

Size 72 aR type DIN 110 (105713)



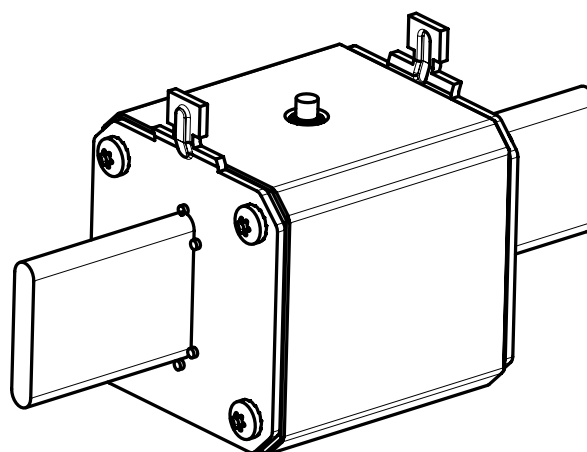
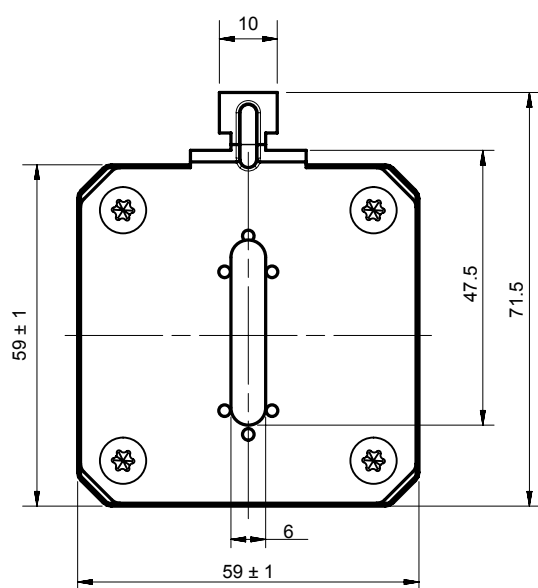
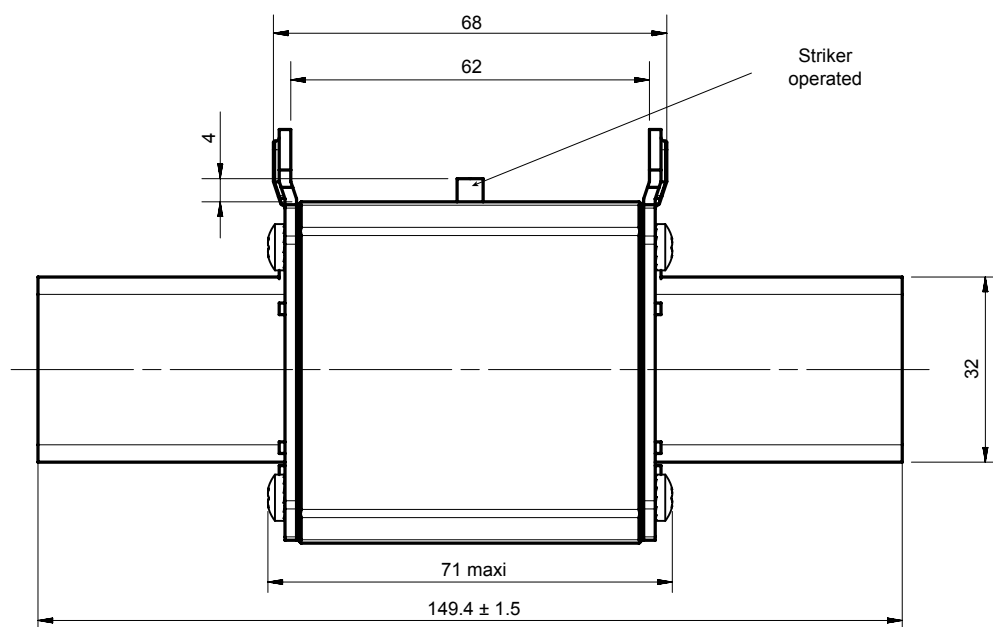
Dimensions in mm

Protistor® size 72 aR

850 to 1250VAC (IEC) / 1300VAC (UL)

DIMENSIONS

Size 72 aR type PA (107131)



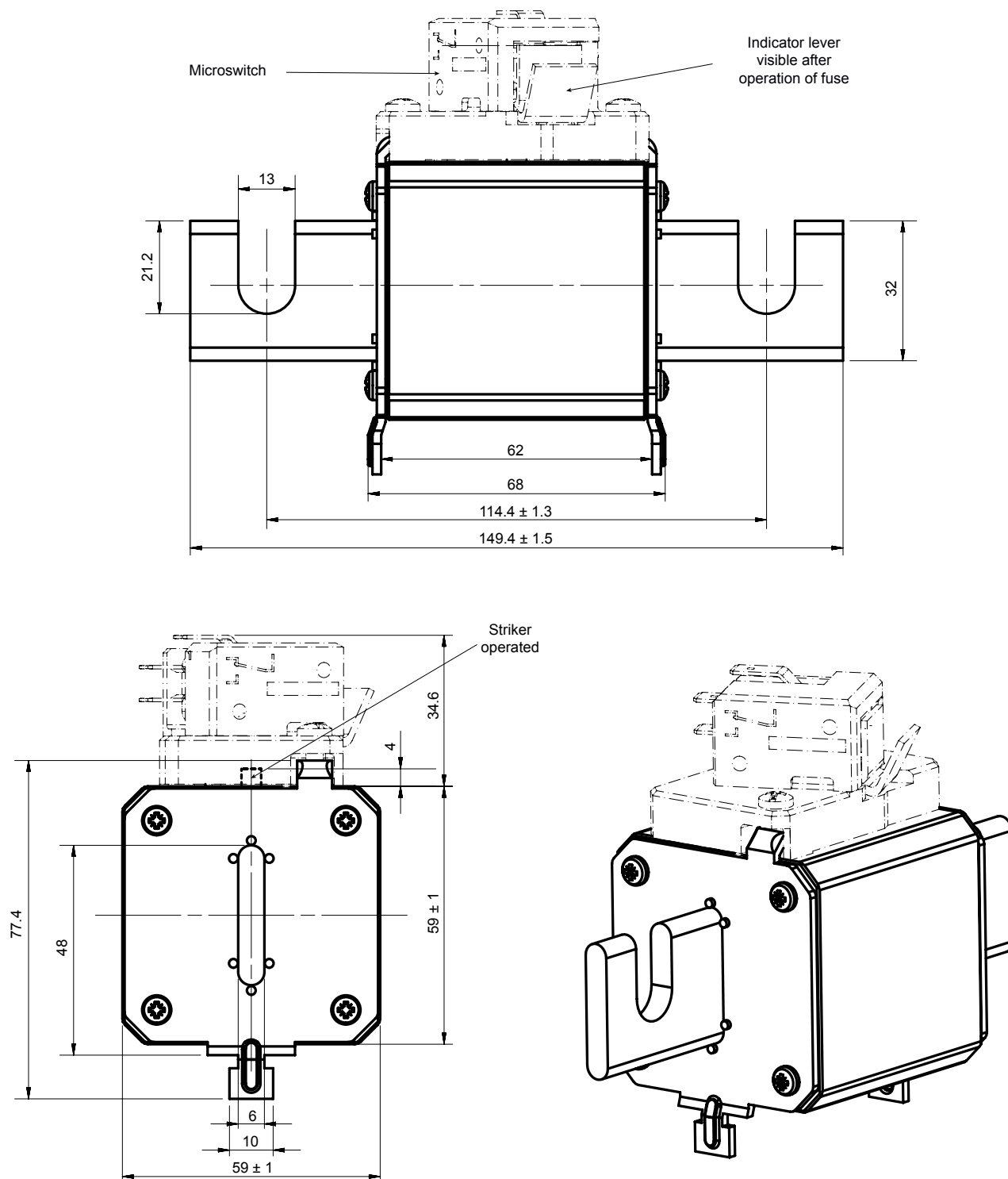
Dimensions in mm

Protistor® size 72 aR

850 to 1250VAC (IEC) / 1300VAC (UL)

DIMENSIONS

Size 72 aR type EF (105881)



Dimensions in mm

Protistor® size 72 aR

850 to 1250VAC (IEC) / 1300VAC (UL)

APPENDIX

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Catalog number	Item number	Description 1	Page
PC72UD13C315TF	Z300494	12,5 URD 72 TTF 0315	2
PC72UD13C350TF	A300495	12,5 URD 72 TTF 0350	2
PC72UD13C400TF	B300496	12,5 URD 72 TTF 0400	2
PC72UD13C450TF	C300497	12,5 URD 72 TTF 0450	2
PC72UD13C500TF	D300498	12,5 URD 72 TTF 0500	2
PC72UD13C550TF	E300499	12,5 URD 72 TTF 0550	2
PC72UD13C630TF	F300500	12,5 URD 72 TTF 0630	2
PC72UD11C700TF	G300501	11 URD 72 TTF 0700	2
PC72UD11C800TF	H300502	11 URD 72 TTF 0800	2
PC72UD10C900TF	G300869	10 URD 72 TTF 0900	2
PC72UD85V1000TF	T301294	8,5 URD 72 TTF 1000	2
A130UD72TTI280	N301036	A 130 URD 72 TTI 0280	2
A130UD72TTI315	P301037	A 130 URD 72 TTI 0315	2
A130UD72TTI350	Q301038	A 130 URD 72 TTI 0350	2
A130UD72TTI400	R301039	A 130 URD 72 TTI 0400	2
A130UD72TTI450	S301040	A 130 URD 72 TTI 0450	2
A130UD72TTI500	T301041	A 130 URD 72 TTI 0500	2
A130UD72TTI550	V301042	A 130 URD 72 TTI 0550	2
A130UD72TTI630	W301043	A 130 URD 72 TTI 0630	2
A120UD72TTI700	X301044	A 120 URD 72 TTI 0700	2
A120UD72TTI800	Y301045	A 120 URD 72 TTI 0800	2
PC72UD13C280D1A	P300554	12,5 URD 72 D11 A 0280	3
PC72UD13C315D1A	Q300555	12,5 URD 72 D11 A 0315	3
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