

Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)

SEMICONDUCTOR PROTECTION FUSES

SQUARE BODY HIGH-SPEED FUSE-LINKS AC PROTECTION



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

The 1250V 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.

They have been engineered to provide state-of-the-art protection for semiconductors: diodes, thyristors and IGBT devices. They 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	550 ... 1250 VAC
Ampere Range (A)	630 ... 3600 A
Speed/Characteristic	aR
I.R. AC (IEC)	100 kA 120 kA 200 kA
Product Size	2x72 and 2x73



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PRODUCT RANGE

Size 2x72 type TTF M10 or M12 threaded terminals with omega bar

Catalog number	Item number	Rated voltage AC (IEC)	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	Package	Weight
PC272UD13C630TF	W300721	1250 V	630 A	60 kA ² s	490 kA ² s	100 kA	160 W	1	1.70 kg
PC272UD13C700TF	X300722	1250 V	700 A	84 kA ² s	675 kA ² s	100 kA	162 W	1	1.70 kg
PC272UD13C800TF	Y300723	1250 V	800 A	130 kA ² s	1065 kA ² s	100 kA	168 W	1	1.70 kg
PC272UD13C900TF	Z300724	1250 V	900 A	176 kA ² s	1430 kA ² s	100 kA	183 W	1	1.70 kg
PC272UD13C10CTF	A300725	1250 V	1000 A	228 kA ² s	1850 kA ² s	100 kA	197 W	1	1.70 kg
PC272UD13C11CTF	B300726	1250 V	1100 A	272 kA ² s	2185 kA ² s	100 kA	231 W	1	1.70 kg
PC272UD11C13CTF	M302231	1100 V	1250 A	426 kA ² s	2950 kA ² s	100 kA	237 W	1	1.70 kg
PC272UD11C14CTF	D300728	1100 V	1400 A	568 kA ² s	3650 kA ² s	100 kA	256 W	1	1.83 kg
PC272UD10C16CTF	L302230	1000 V	1600 A	860 kA ² s	4895 kA ² s	100 kA	262 W	1	1.83 kg
PC272UD90V18CTF	E301994	900 V	1800 A	1250 kA ² s	6350 kA ² s	100 kA	275 W	1	1.83 kg
PC272UD75V20CTF	F301995	750 V	2000 A	1760 kA ² s	7570 kA ² s	100 kA	285 W	1	1.83 kg
PC272UD65V22CTF	G301996	650 V	2200 A	2410 kA ² s	8350 kA ² s	100 kA	320 W	1	1.83 kg
PC272UD65V25CTF	H301997	650 V	2500 A	3470 kA ² s	12000 kA ² s	100 kA	340 W	1	1.83 kg

Size 2x73 type TTF M10 or M12 threaded terminals with omega bar

Catalog number	Item number	Rated voltage AC (IEC)	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	Package	Weight
PC273UD13C800TF	F300730	1250 V	800 A	100 kA ² s	815 kA ² s	100 kA	195 W	1	2.53 kg
PC273UD13C900TF	G300731	1250 V	900 A	142 kA ² s	1150 kA ² s	100 kA	208 W	1	2.53 kg
PC273UD13C10CTF	H300732	1250 V	1000 A	176 kA ² s	1400 kA ² s	100 kA	231 W	1	2.53 kg
PC273UD13C11CTF	J300733	1250 V	1100 A	228 kA ² s	1860 kA ² s	100 kA	244 W	1	2.53 kg
PC273UD13C13CTF	K300734	1250 V	1250 A	336 kA ² s	2660 kA ² s	100 kA	262 W	1	2.53 kg
PC273UD11C14CTF	K302229	1100 V	1400 A	454 kA ² s	3060 kA ² s	100 kA	283 W	1	2.53 kg
PC273UD11C16CTF	J302228	1100 V	1600 A	760 kA ² s	5210 kA ² s	100 kA	286 W	1	2.53 kg
PC273UD11C18CTF	S302236	1100 V	1800 A	1000 kA ² s	6300 kA ² s	100 kA	315 W	1	2.53 kg
PC273UD10C20CTF	P300738	1000 V	2000 A	1480 kA ² s	8500 kA ² s	120 kA	319 W	1	2.53 kg
PC273UD95V22CTF	Q300739	950 V	2200 A	1780 kA ² s	9632 kA ² s	100 kA	353 W	1	2.53 kg

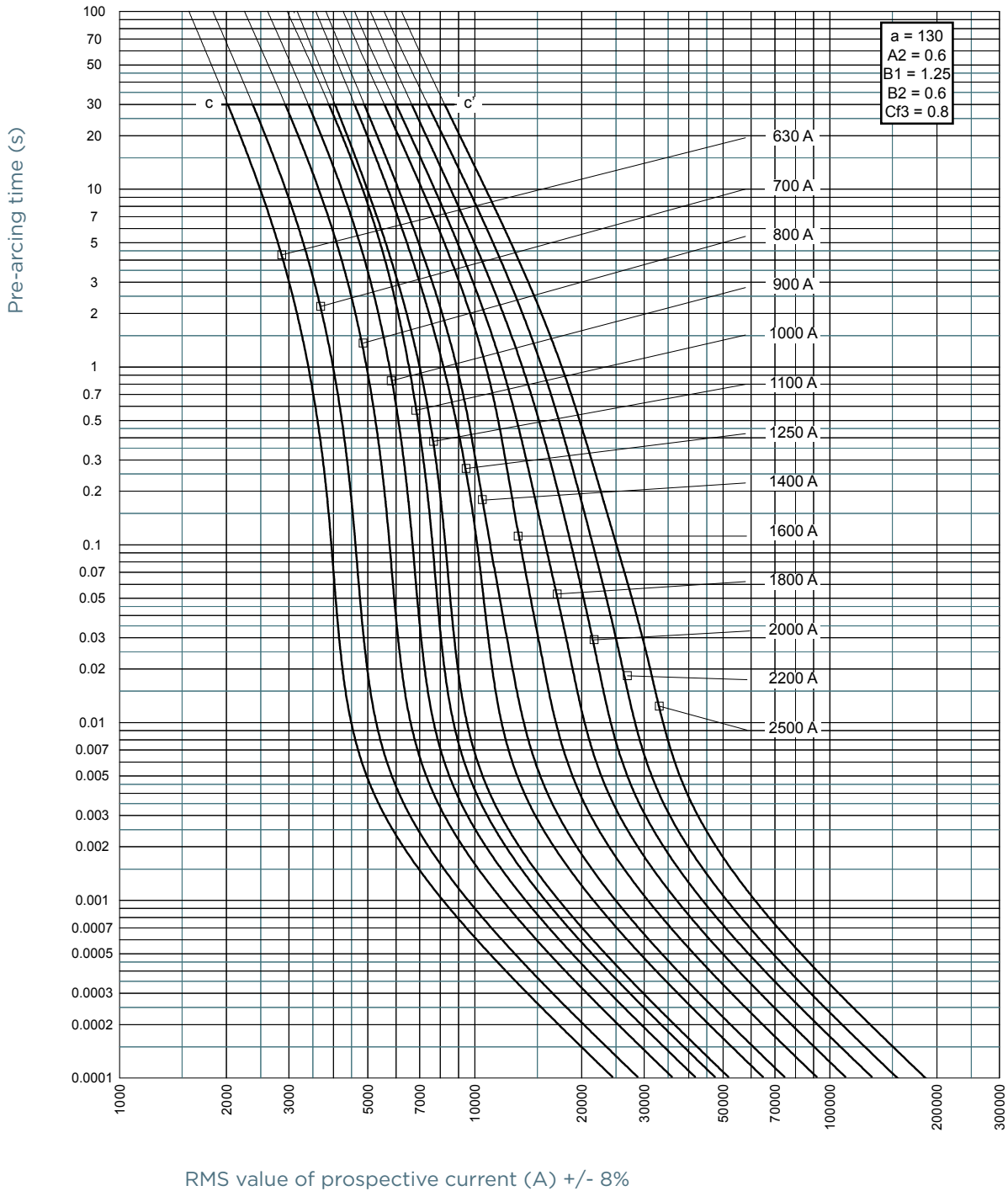
Size 2x73 type PLAF M10 threaded plates

Catalog number	Item number	Rated voltage AC (IEC)	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	Package	Weight
PC76UD95V22CP11	M301909	950 V	2200 A	1780 kA ² s	9630 kA ² s	100 kA	353 W	1	3.1 kg
PC76UD90V25CP11	R300740	900 V	2500 A	2350 kA ² s	12070 kA ² s	110 kA	390 W	1	3.1 kg
PC76UD85V28CP11	S300741	850 V	2800 A	3020 kA ² s	15000 kA ² s	100 kA	440 W	1	3.1 kg
PC76UD60V30CP11	K301999	600 V	3000 A	4980 kA ² s	15700 kA ² s	200 kA	405 W	1	3.1 kg
PC76UD60V32CP11	M302001	600 V	3200 A	5720 kA ² s	19030 kA ² s	200 kA	426 W	1	3.1 kg
PC76UD55V36CP11	N302002	550 V	3600 A	8170 kA ² s	25200 kA ² s	200 kA	430 W	1	3.1 kg

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TIME CURRENT CHARACTERISTIC CURVES

Size 2x72

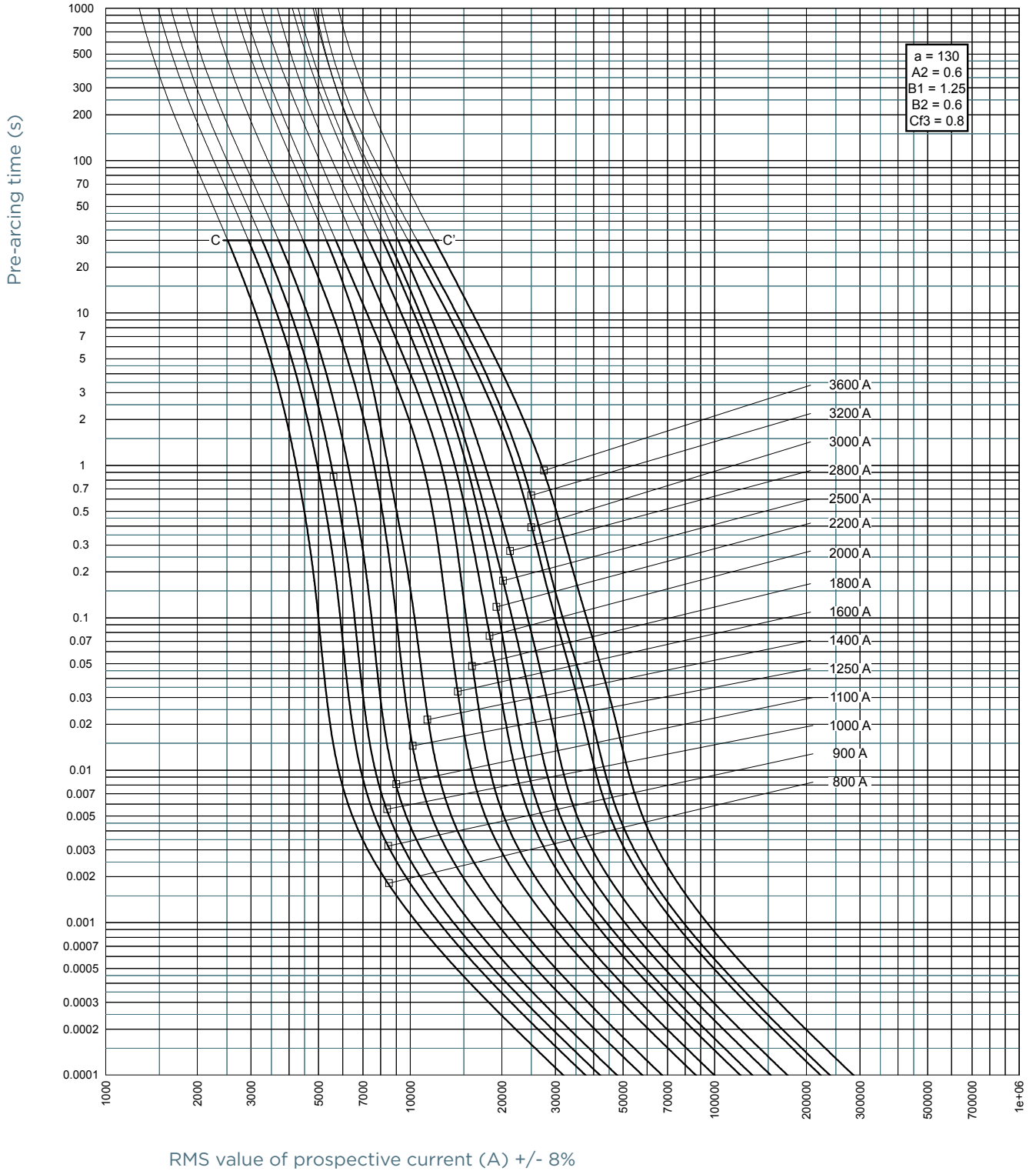


Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)

TIME CURRENT CHARACTERISTIC CURVES

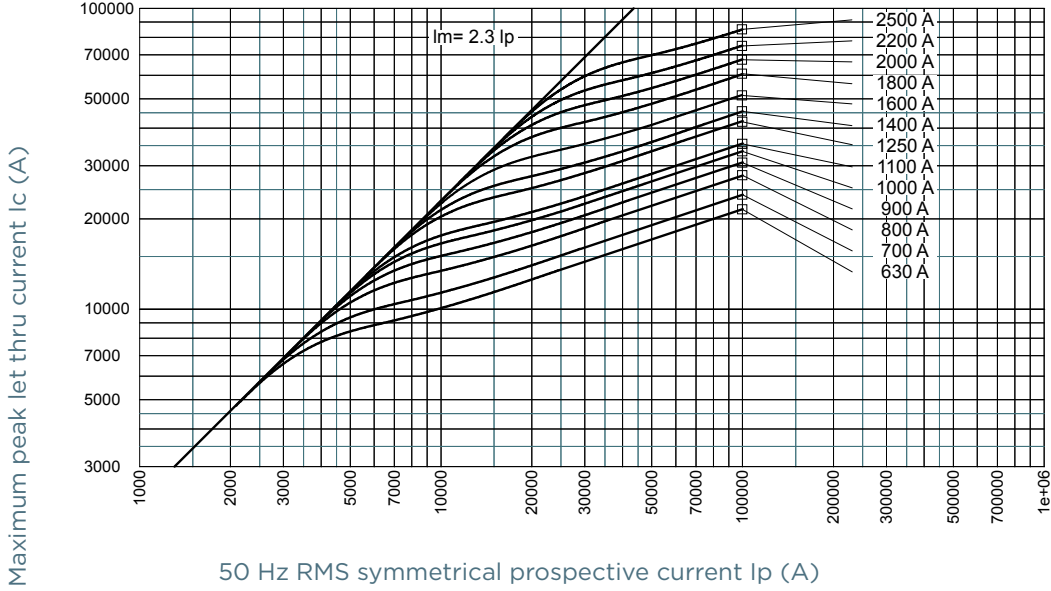
Size 2x73



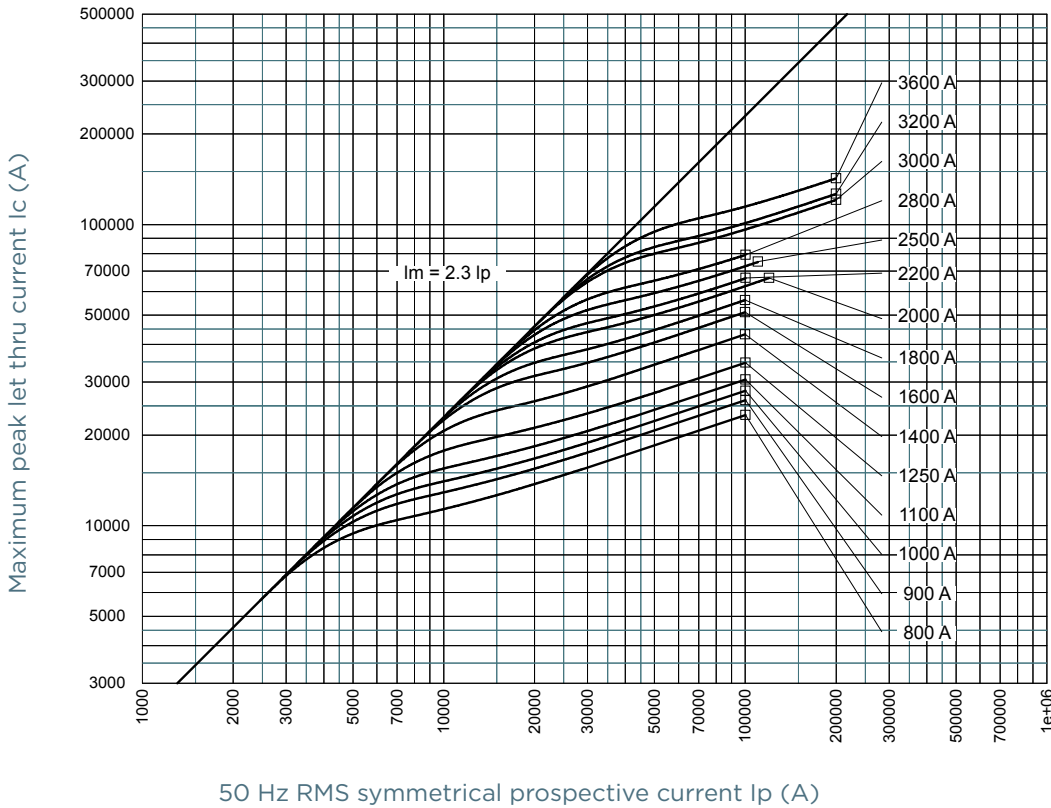
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CUT-OFF CURRENT CHARACTERISTIC

Size 2x72



Size 2x73

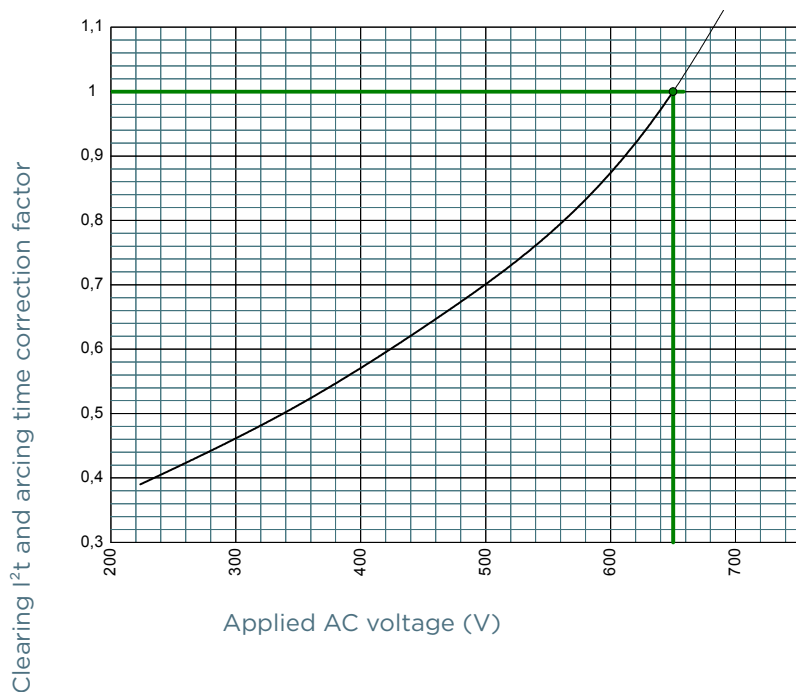


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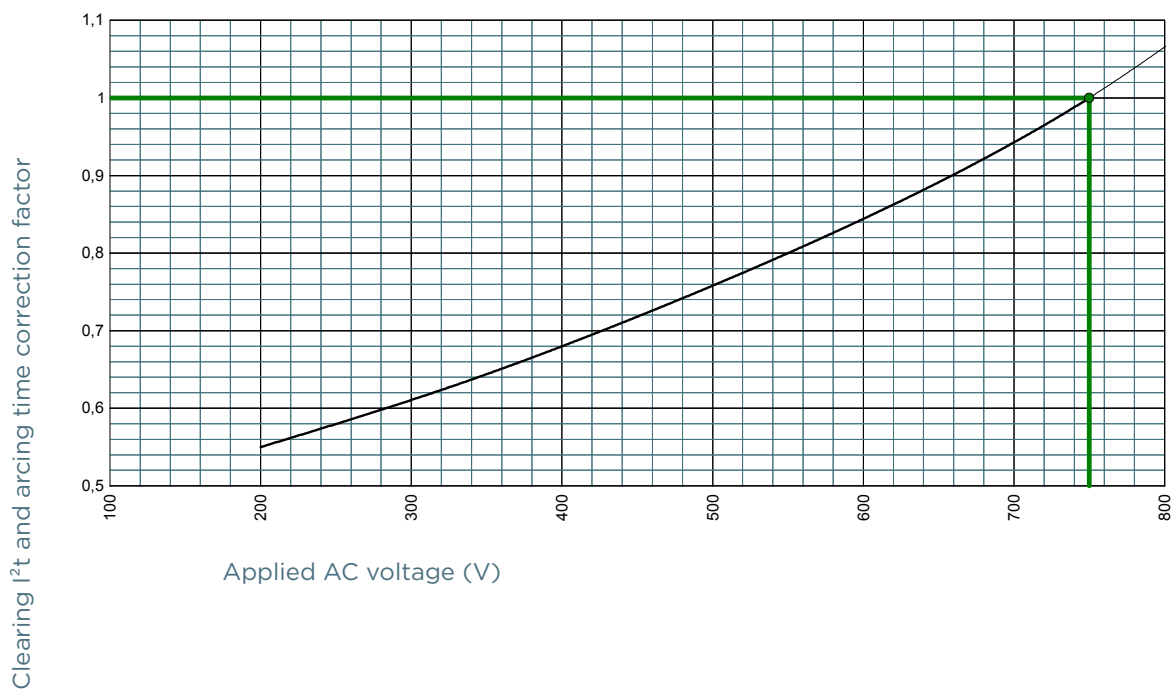
550 to 1250VAC (IEC)

I²T MULTIPLIER COEFFICIENT

size 2x72 650V



size 2x72 750V

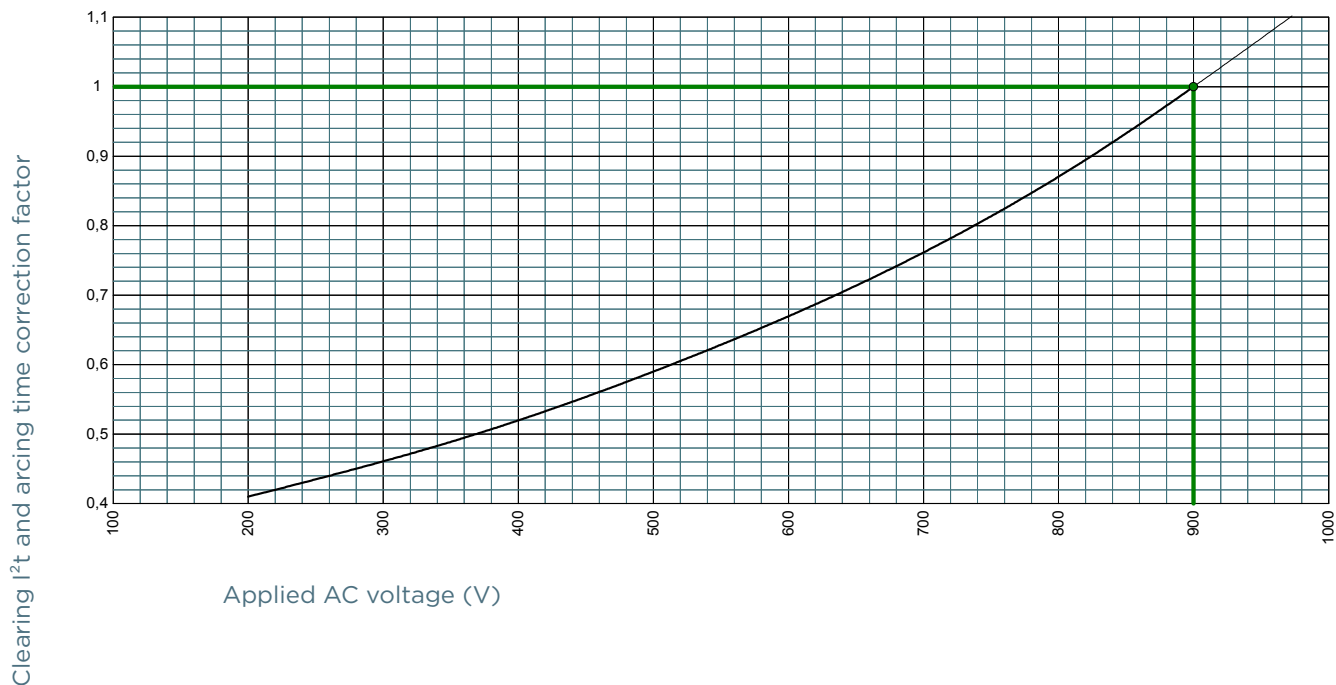


Protistor® size 2x72 and 2x73 aR

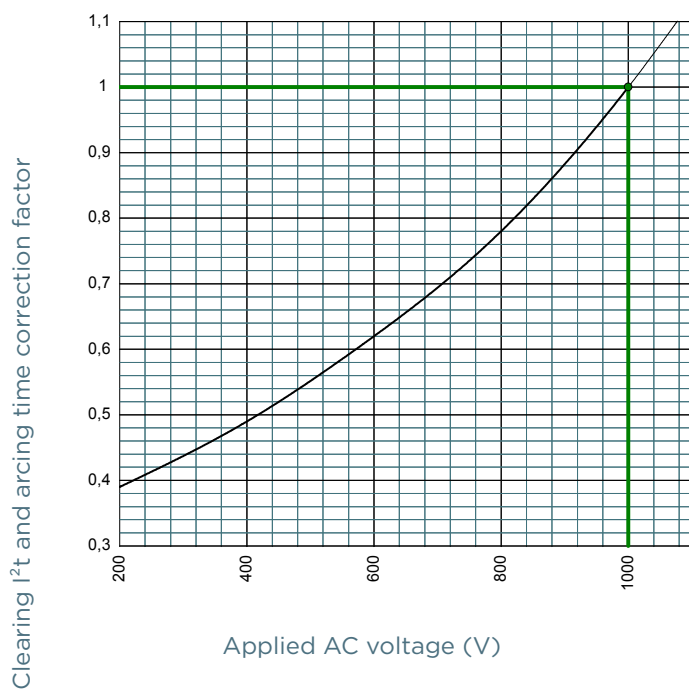
550 to 1250VAC (IEC)

I²T MULTIPLIER COEFFICIENT

size 2x72 900V



size 2x72 1000V

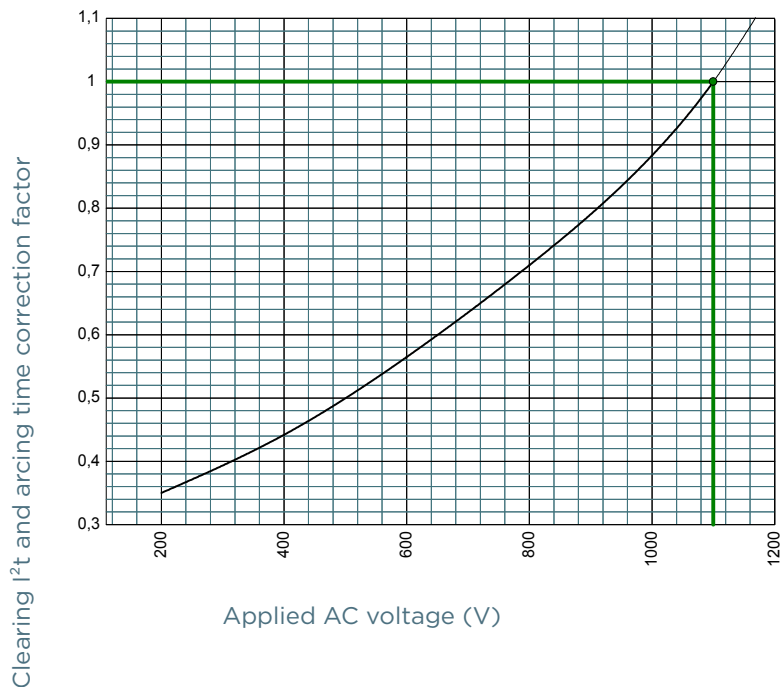


Protistor® size 2x72 and 2x73 aR

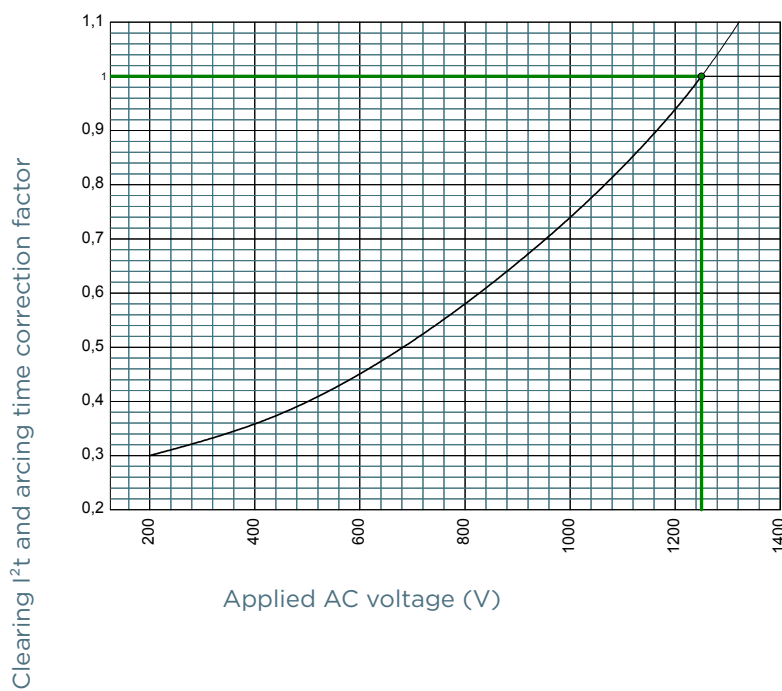
550 to 1250VAC (IEC)

I²T MULTIPLIER COEFFICIENT

size 2x72 1100V



size 2x72 1250V

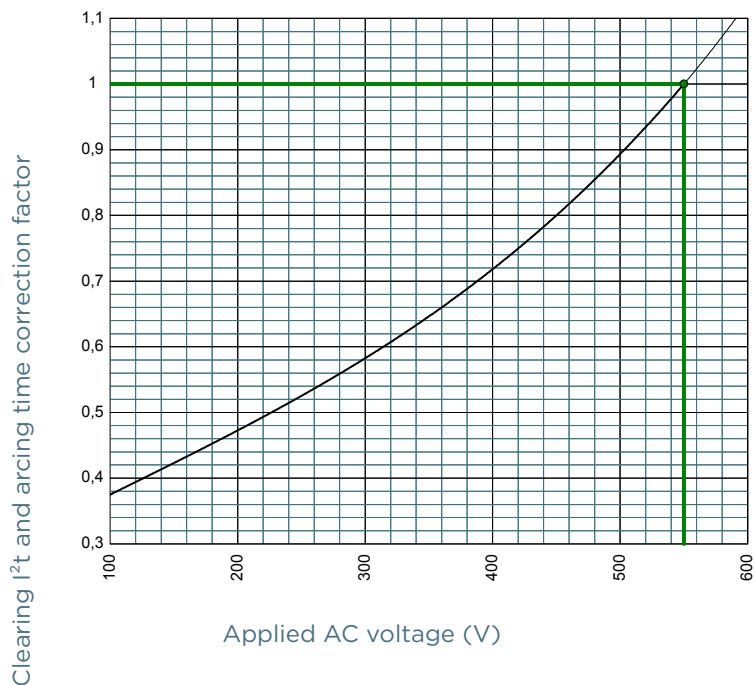


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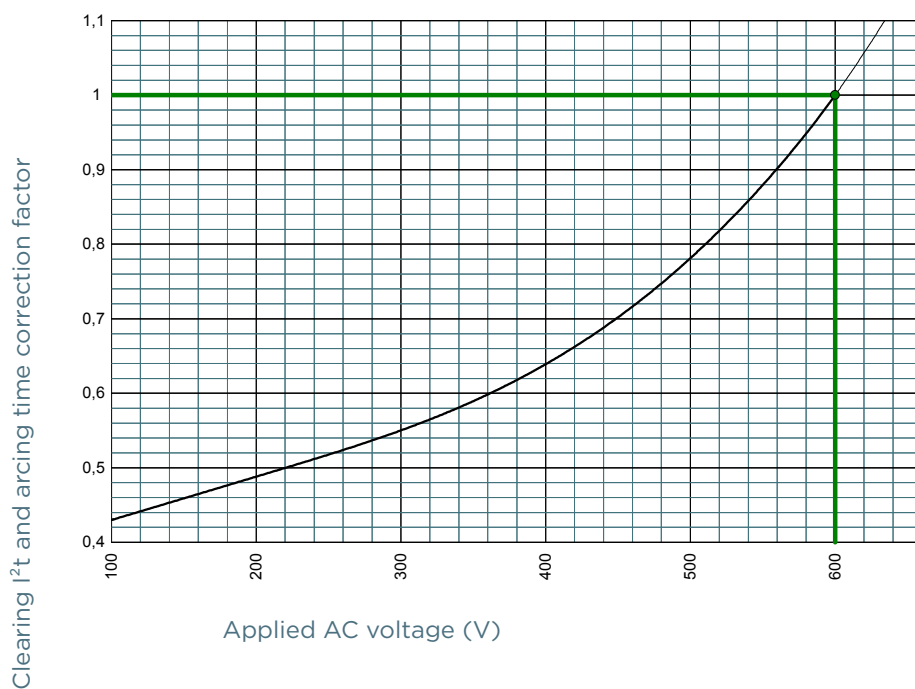
550 to 1250VAC (IEC)

I²T MULTIPLIER COEFFICIENT

size 2x73 550V



size 2x73 600V

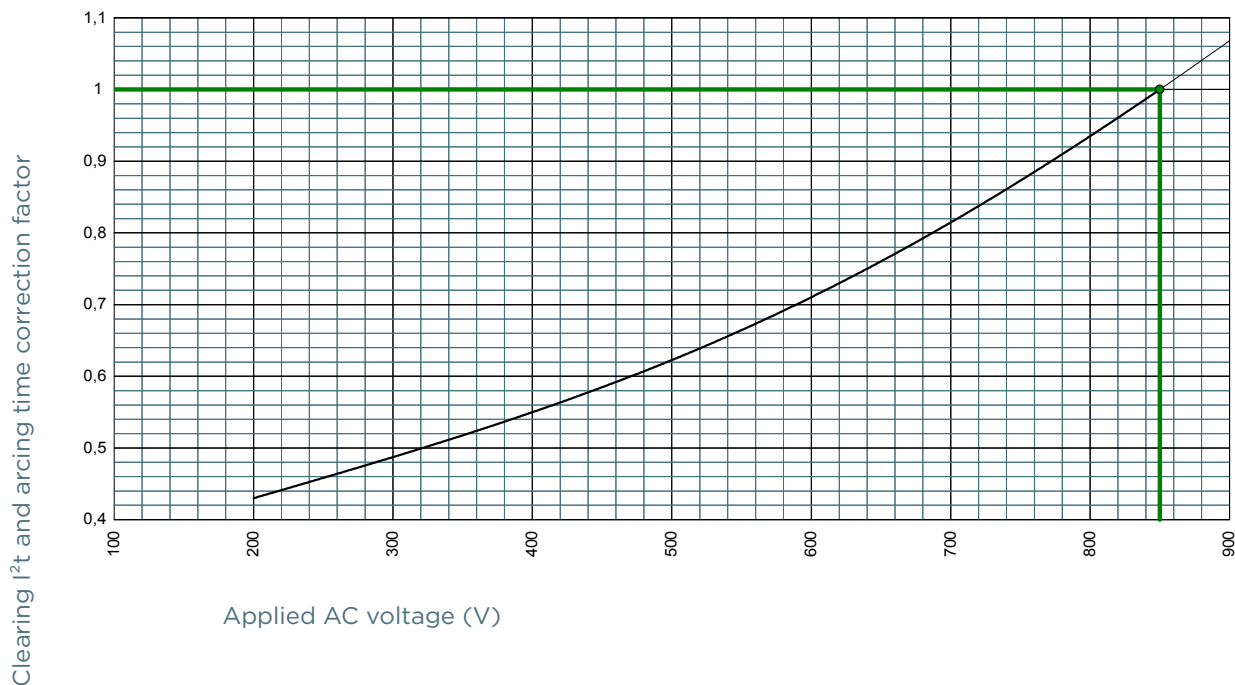


Protistor® size 2x72 and 2x73 aR

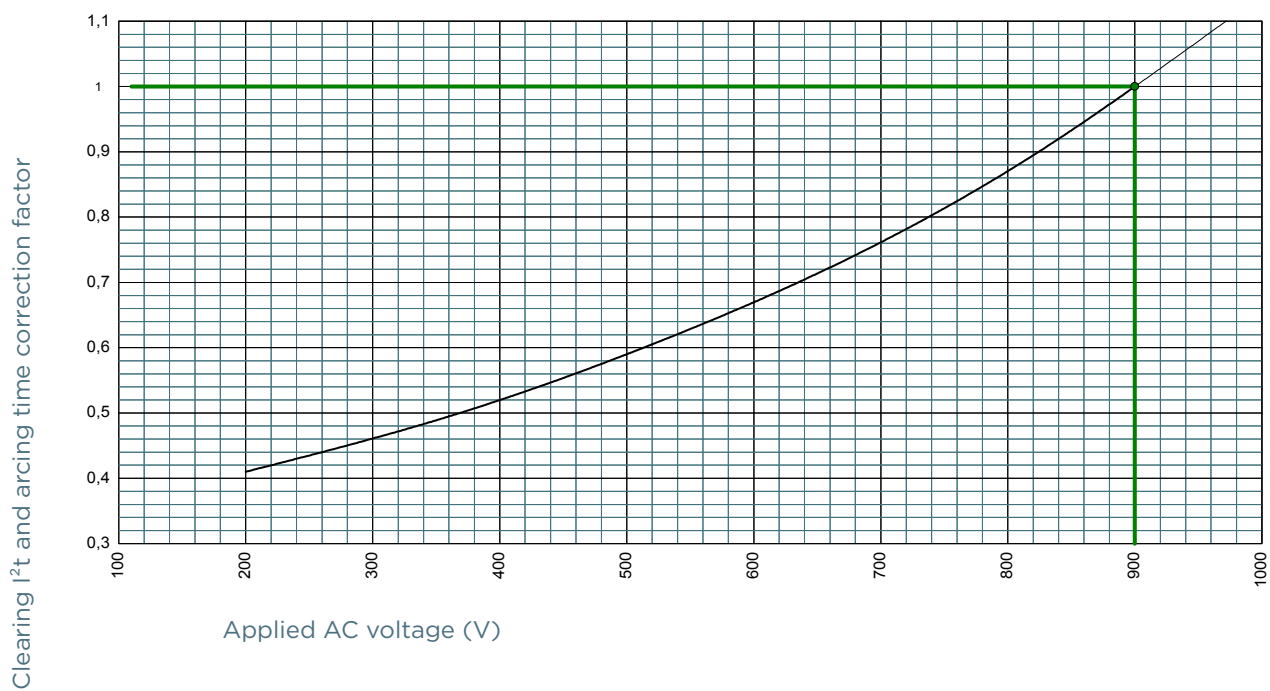
550 to 1250VAC (IEC)

I²T MULTIPLIER COEFFICIENT

size 2x73 850V

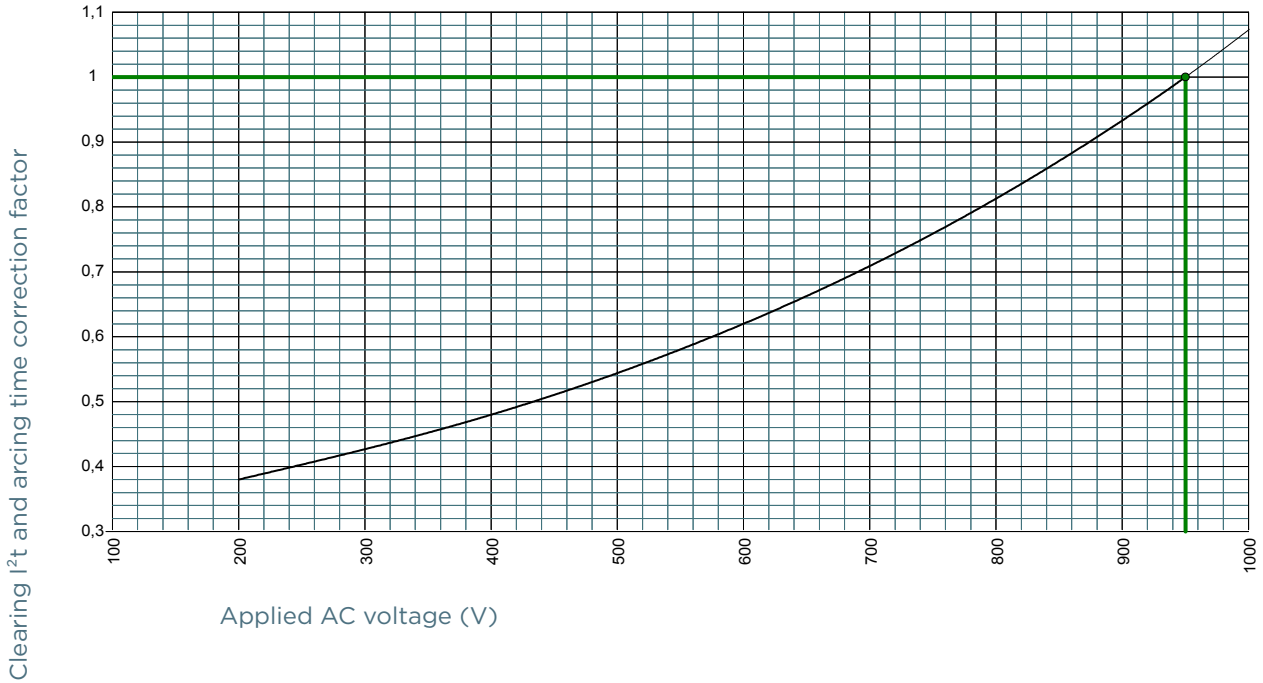


size 2x73 900V

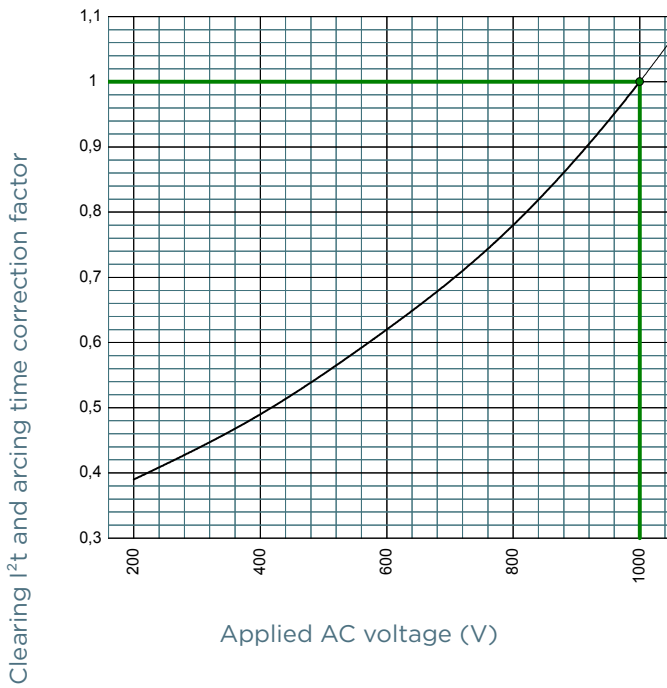


I²T MULTIPLIER COEFFICIENT

size 2x73 950V



size 2x73 1000V

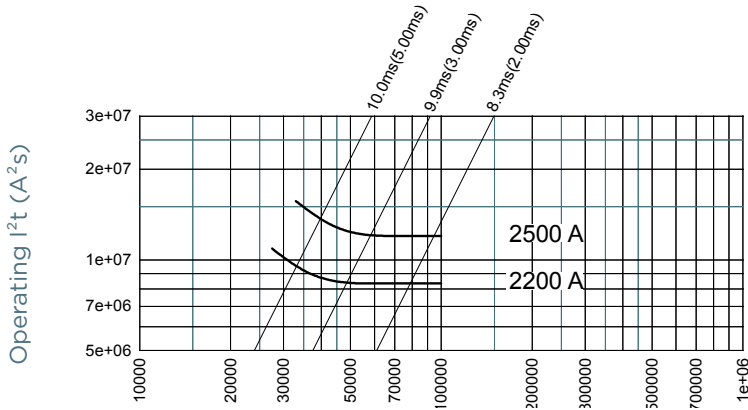


Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)

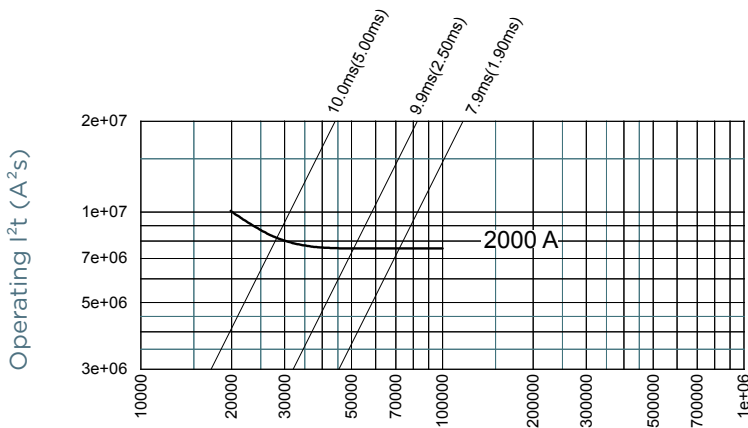
CHARACTERISTICS TOTAL I²T CURVE

size 2x072 650V



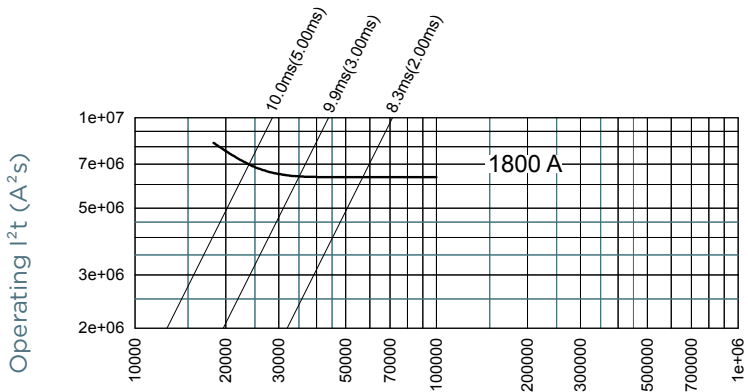
50Hz RMS symmetrical prospective current (Ip)(A)

size 2x072 750V



50Hz RMS symmetrical prospective current (Ip)(A)

size 2x072 900V



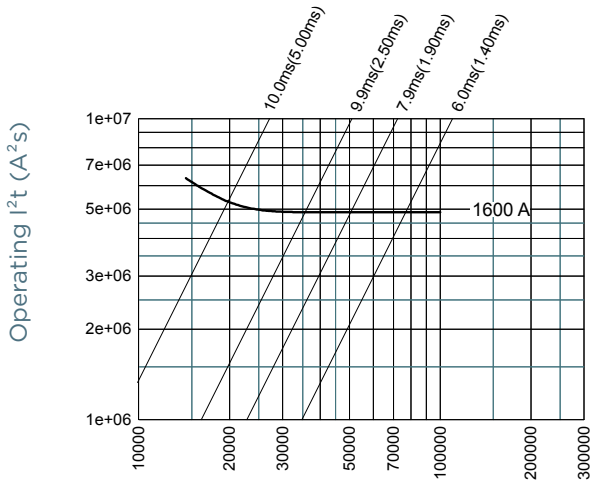
50Hz RMS symmetrical prospective current (Ip)(A)

Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)

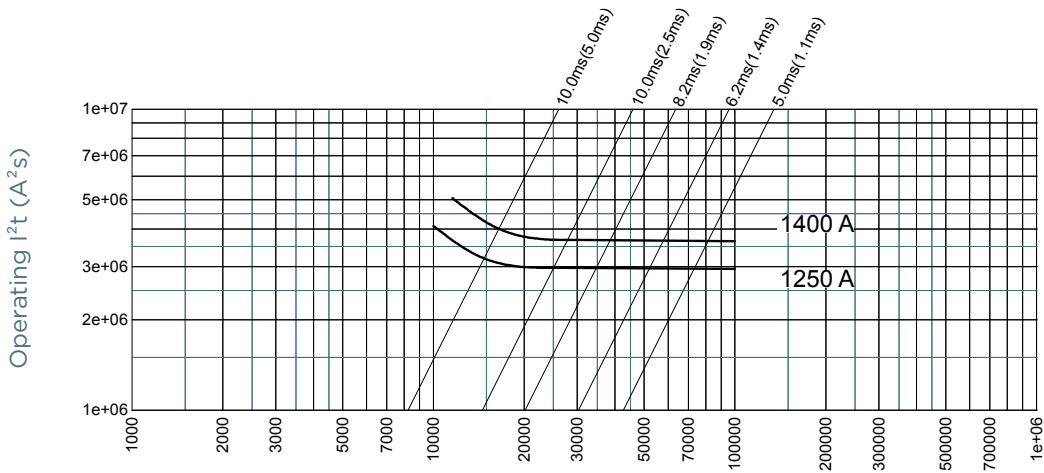
CHARACTERISTICS TOTAL I²T CURVE

size 2x072 1000V



50Hz RMS symmetrical prospective current (Ip)(A)

size 2x072 1100V



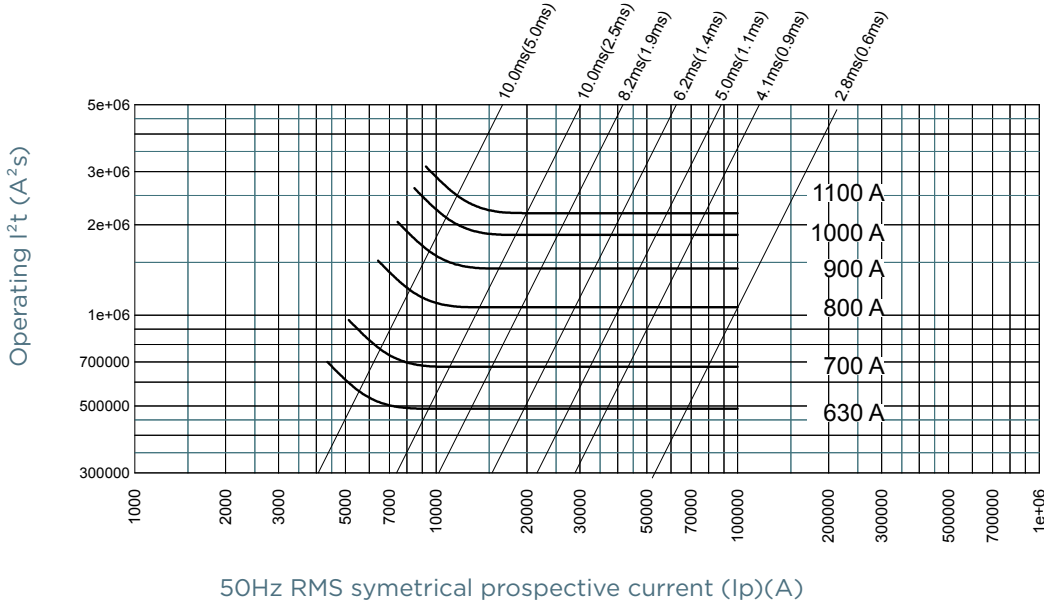
50Hz RMS symmetrical prospective current (Ip)(A)

Protistor® size 2x72 and 2x73 aR

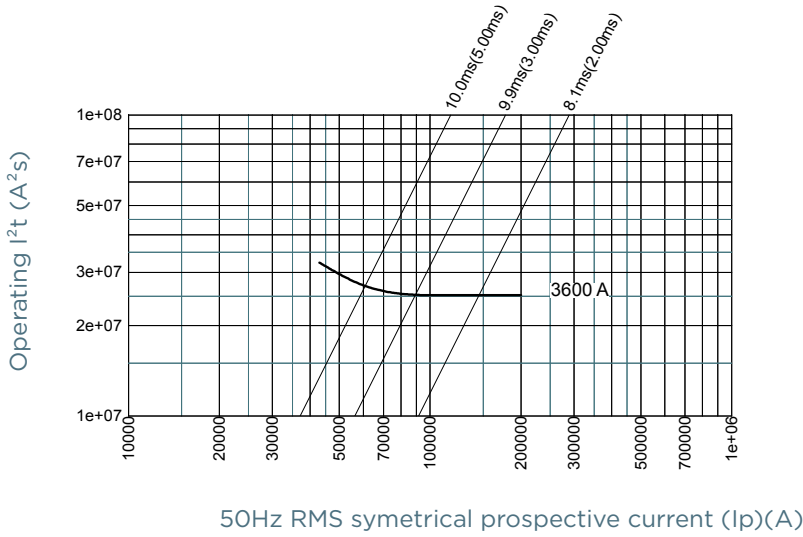
550 to 1250VAC (IEC)

CHARACTERISTICS TOTAL I²T CURVE

size 2x072 1250V



size 2x073 550V

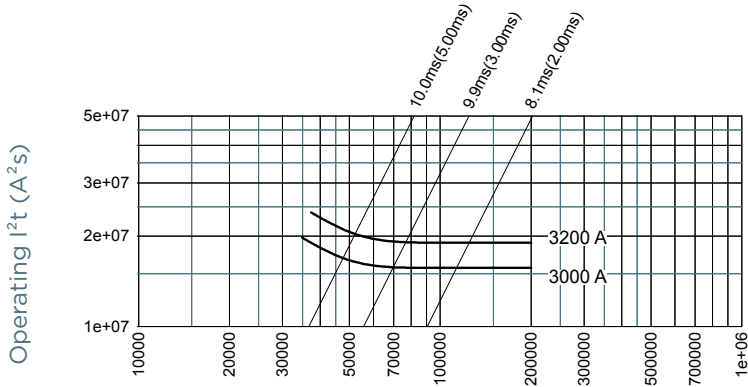


Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)

CHARACTERISTICS TOTAL I²T CURVE

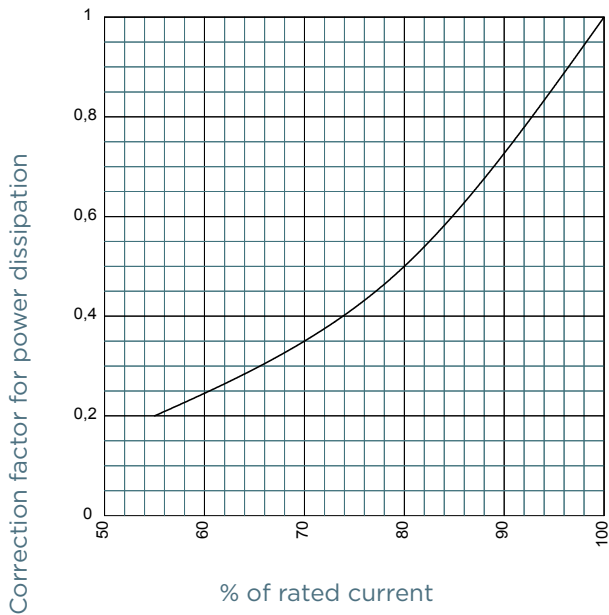
size 2x073 600V



50Hz RMS symmetrical prospective current (I_p)(A)

POWER DISSIPATION

size 2x72

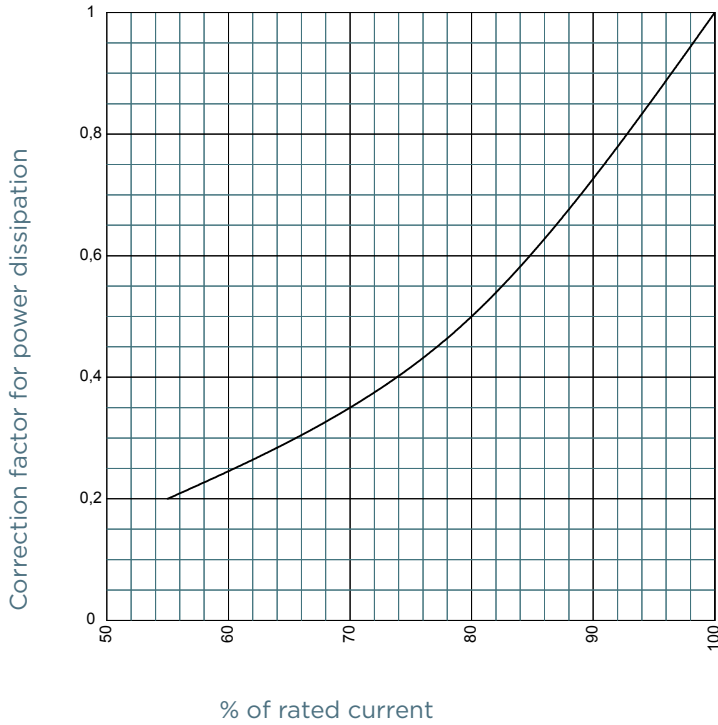


Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)

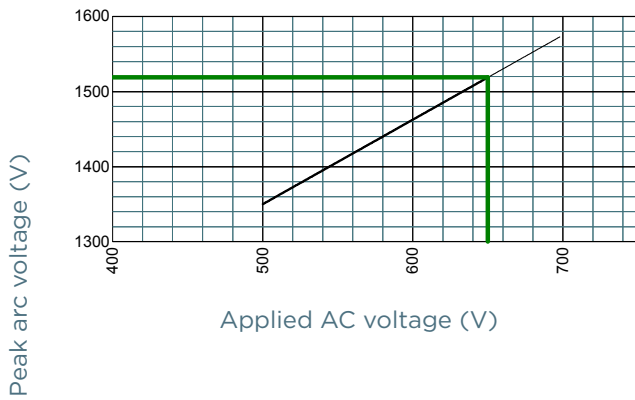
POWER DISSIPATION

size 2x73



PEAK ARC VOLTAGE

size 2x72 650V

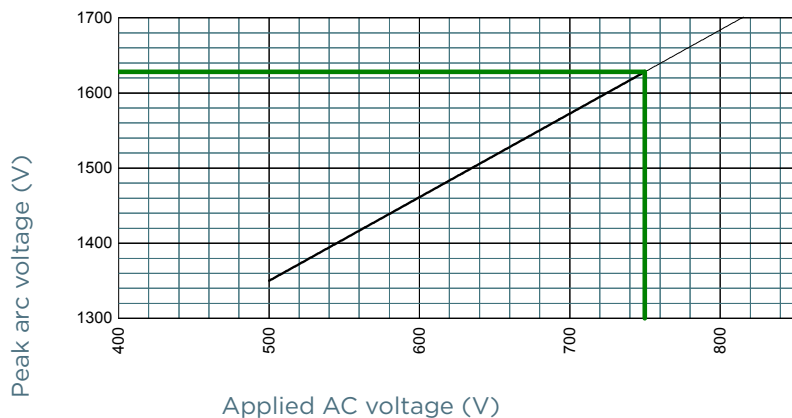


Protistor® size 2x72 and 2x73 aR

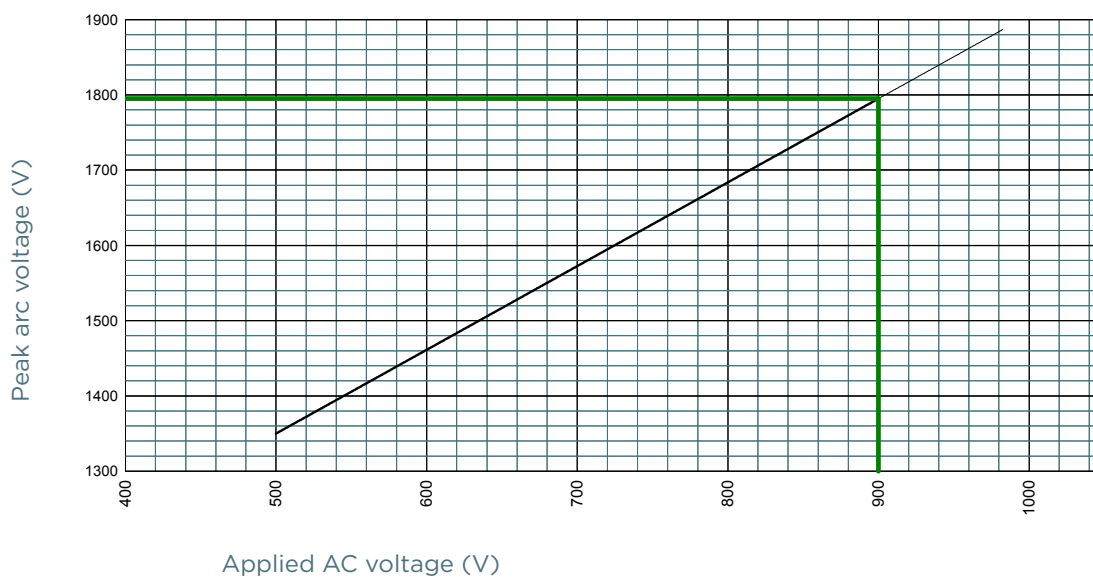
550 to 1250VAC (IEC)

PEAK ARC VOLTAGE

size 2x72 750V



size 2x72 900V

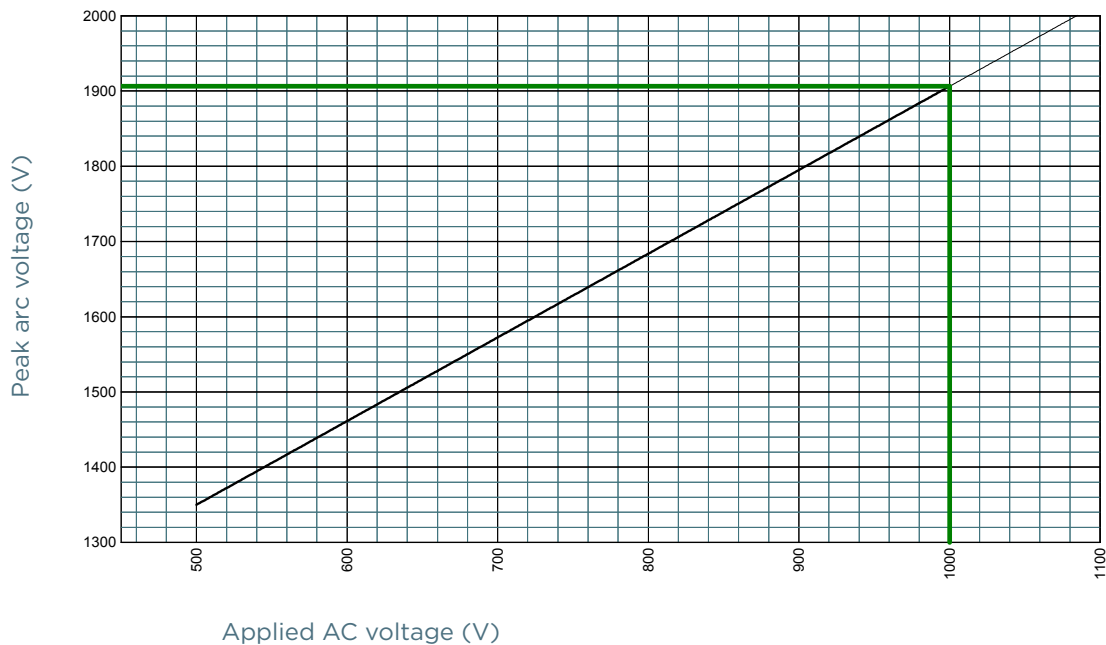


Protistor® size 2x72 and 2x73 aR

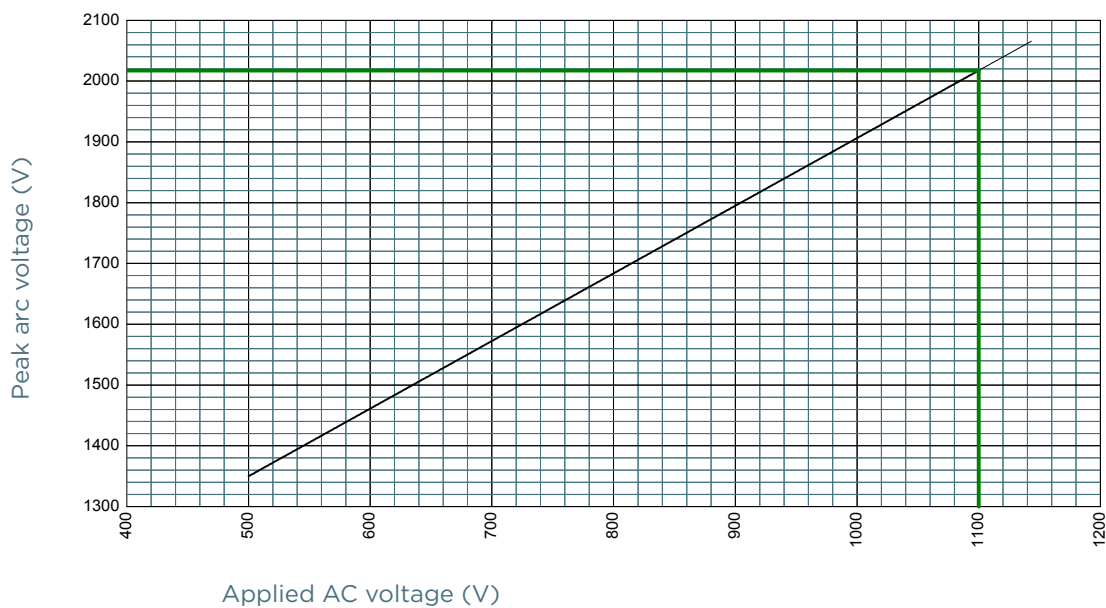
550 to 1250VAC (IEC)

PEAK ARC VOLTAGE

size 2x72 1000V



size 2x72 1100V

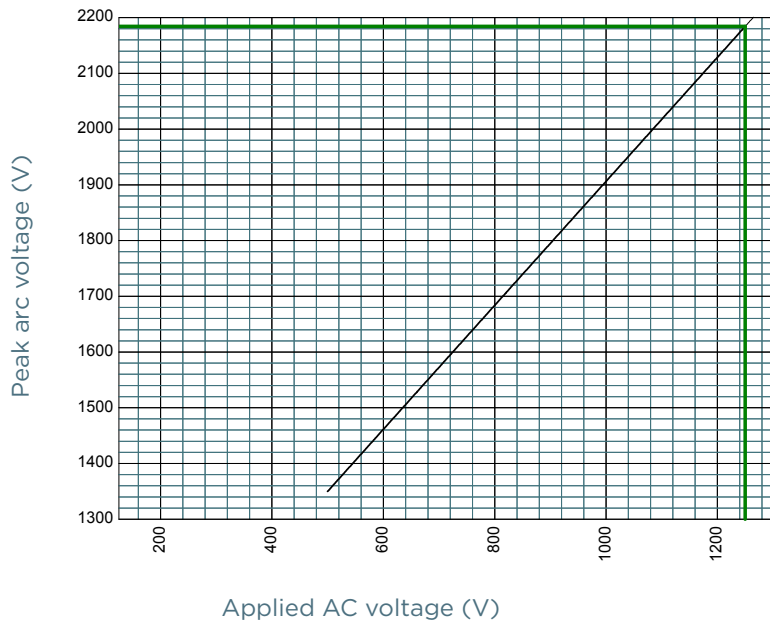


Protistor® size 2x72 and 2x73 aR

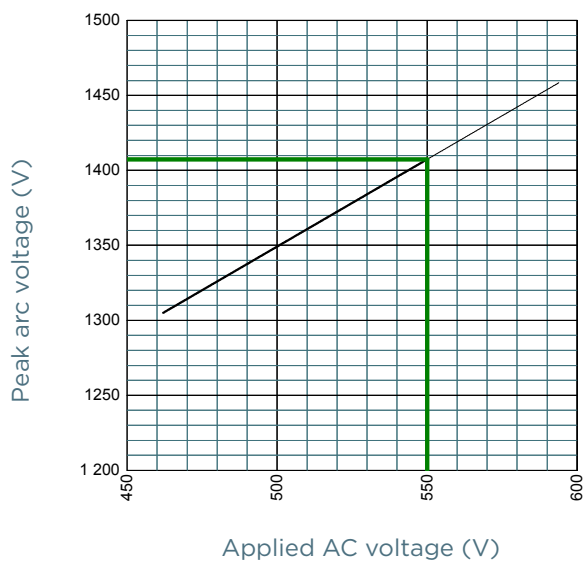
550 to 1250VAC (IEC)

PEAK ARC VOLTAGE

size 2x72 1250V



size 2x73 550V

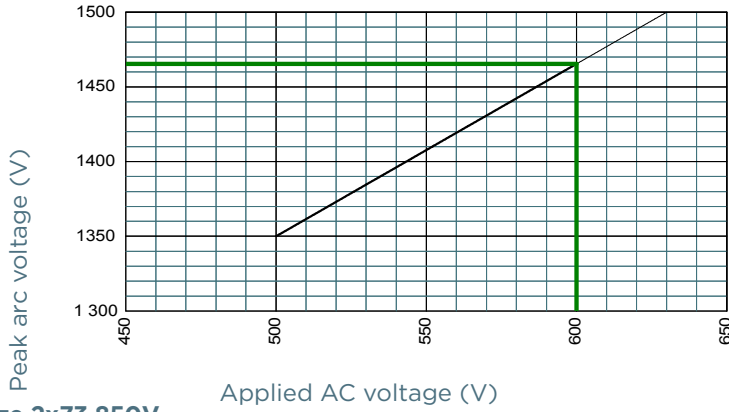


Protistor® size 2x72 and 2x73 aR

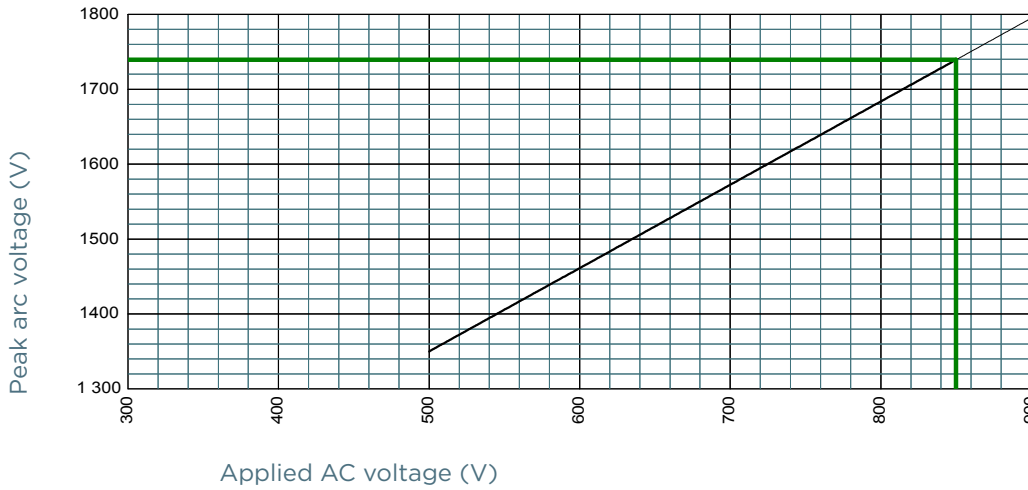
550 to 1250VAC (IEC)

PEAK ARC VOLTAGE

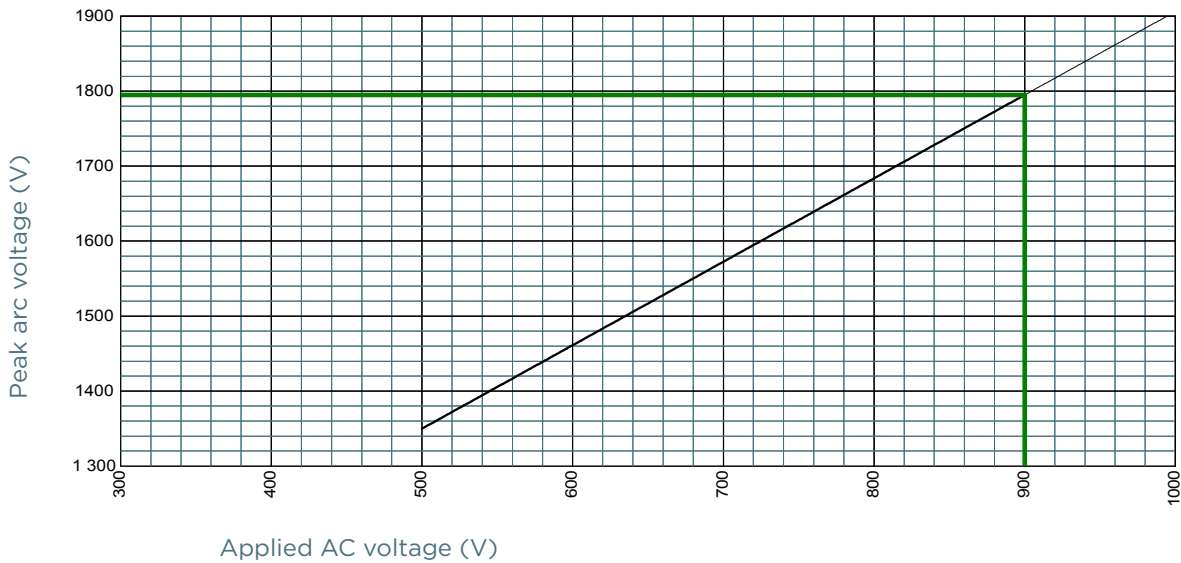
size 2x73 600V



size 2x73 850V



size 2x73 900V

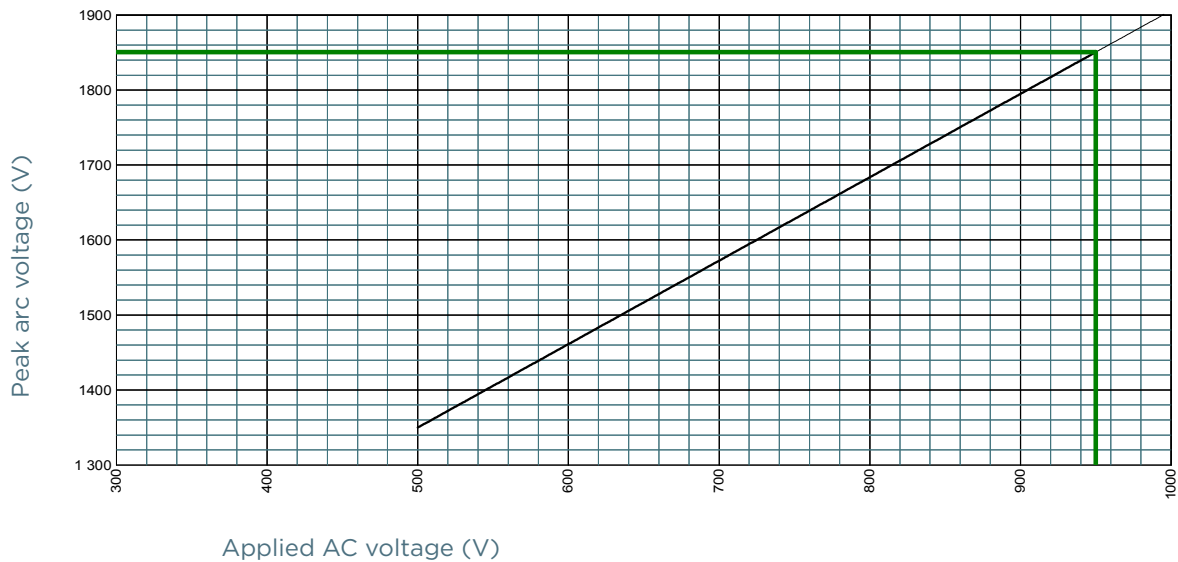


Protistor® size 2x72 and 2x73 aR

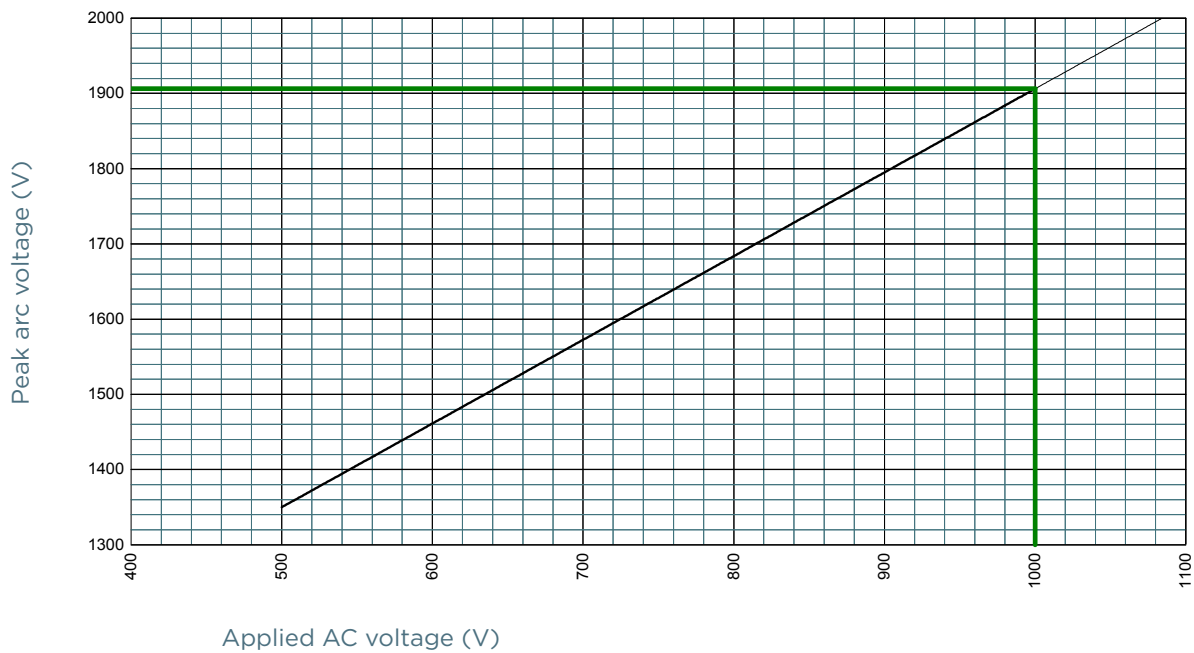
550 to 1250VAC (IEC)

PEAK ARC VOLTAGE

size 2x73 950V



size 2x73 1000V

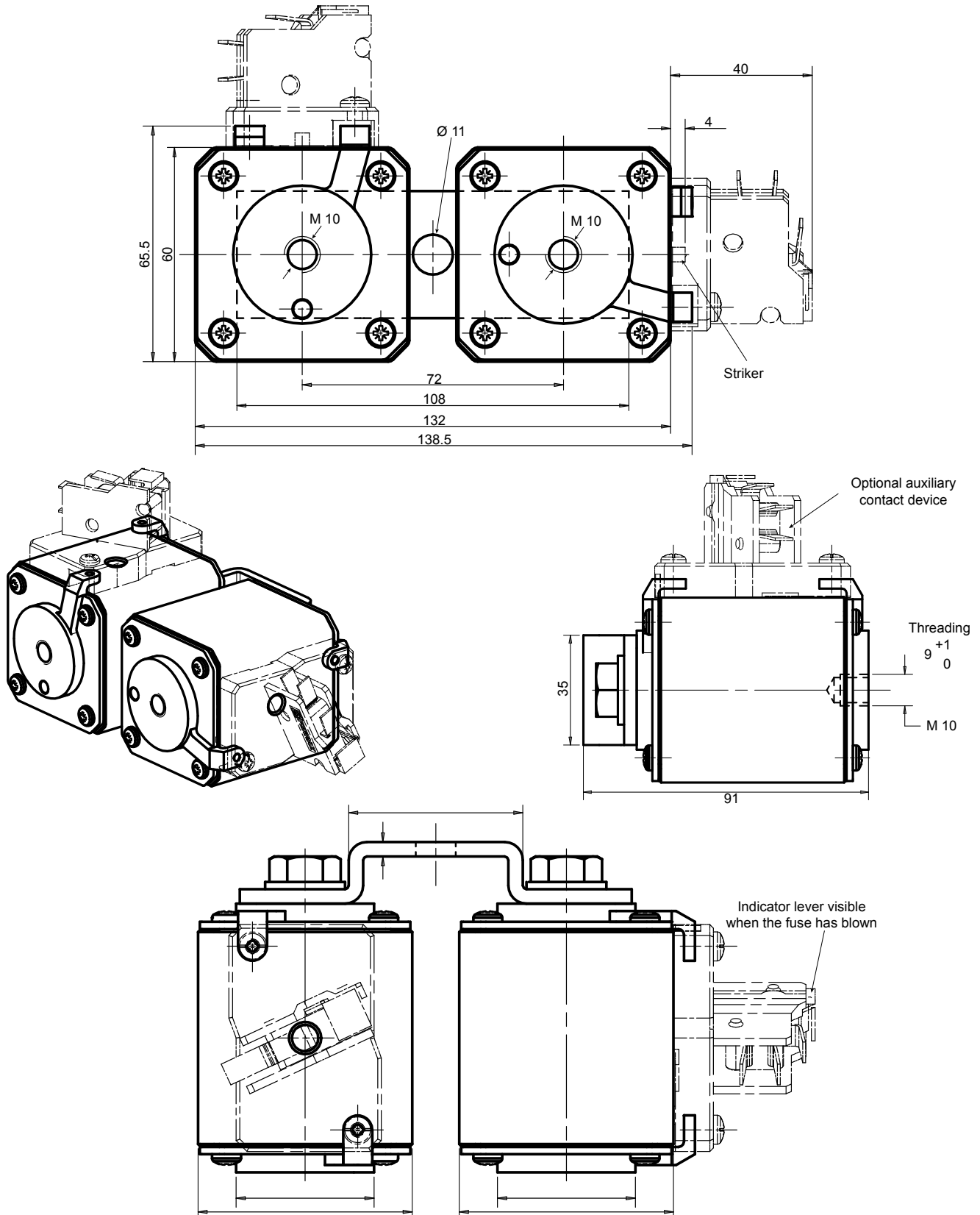


Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)

DIMENSIONS

size 2x72 TTF (108171)



Dimensions in mm

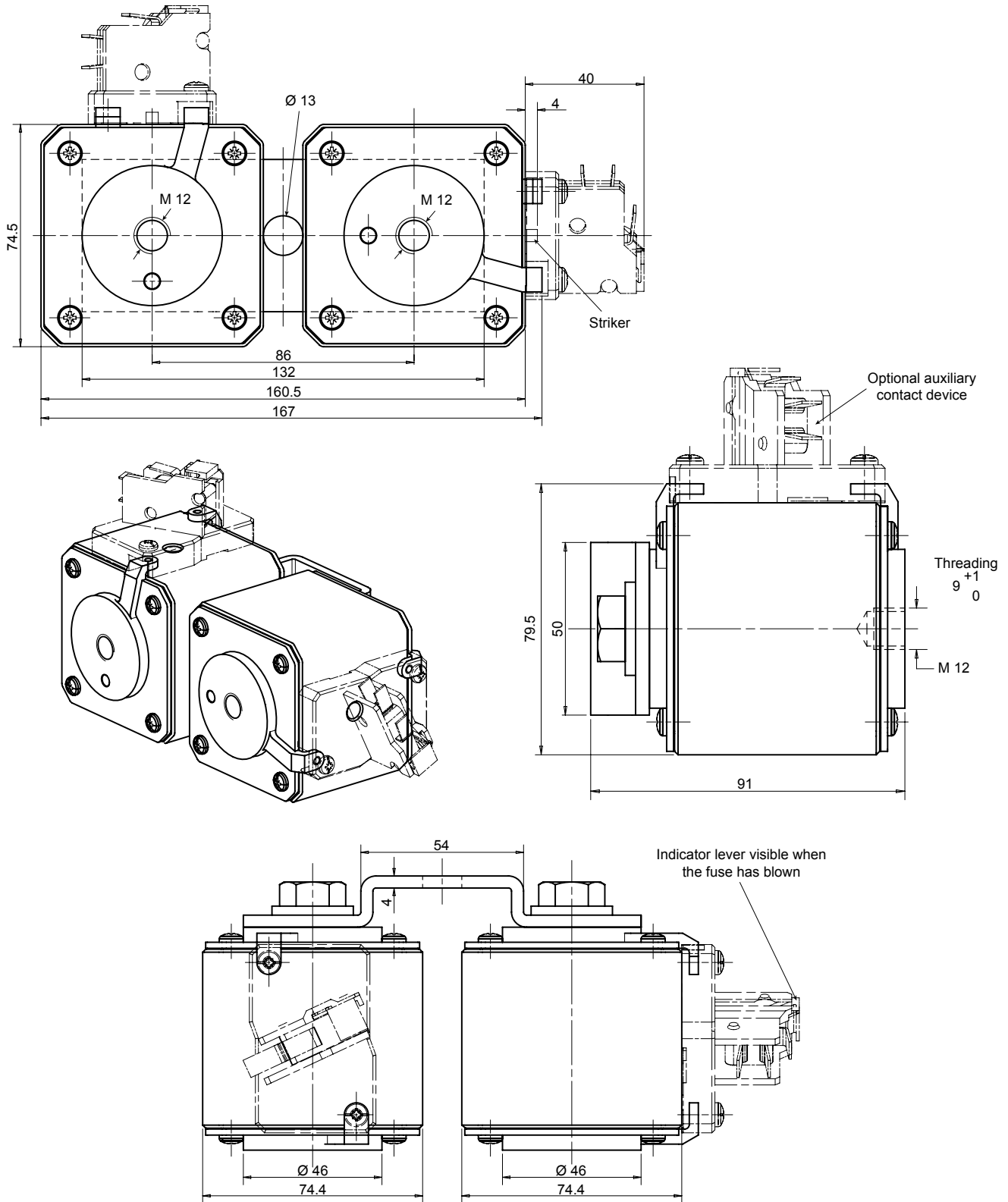
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Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)

DIMENSIONS

size 2x73 TTF (108172)



Dimensions in mm

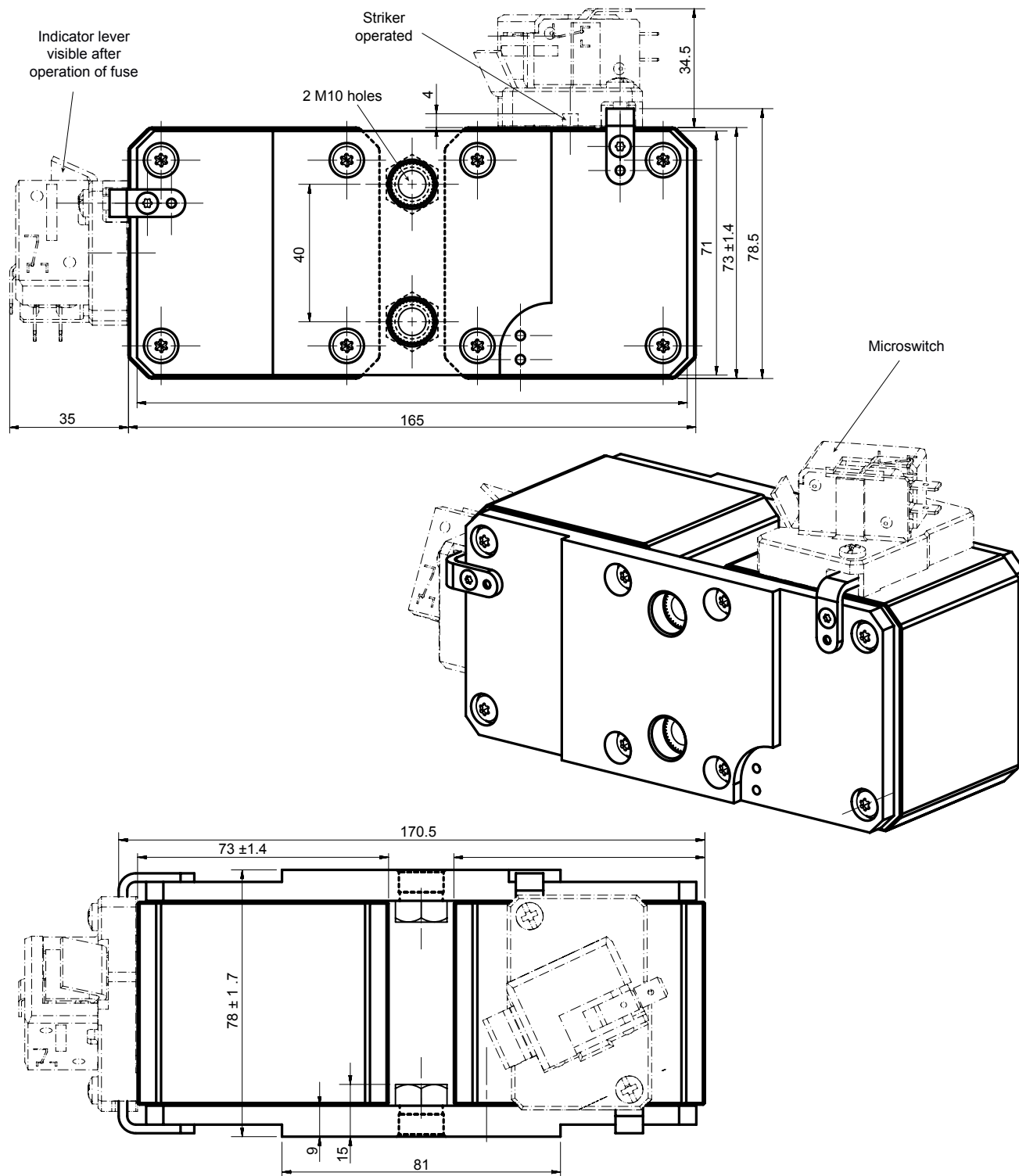
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Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)

DIMENSIONS

size 2x73 PLAF (108170)



Dimensions in mm

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Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)

APPENDIX

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Catalog number	Item number	Description 1	Page
PC272UD13C630TF	W300721	12,5URD272TTF0630	2
PC272UD13C700TF	X300722	12,5 URD 272 TTF 0700	2
PC272UD13C800TF	Y300723	12,5 URD 272 TTF 0800	2
PC272UD13C900TF	Z300724	12,5 URD 272 TTF 0900	2
PC272UD13C10CTF	A300725	12,5 URD 272 TTF 1000	2
PC272UD13C11CTF	B300726	12,5 URD 272 TTF 1100	2
PC272UD11C13CTF	M302231	11 URD 272 TTF 1250	2
PC272UD11C14CTF	D300728	11 URD 272 TTF 1400	2
PC272UD10C16CTF	L302230	10 URD 272 TTF 1600	2
PC272UD90V18CTF	E301994	9 URD 272 TTF 1800	2
PC272UD75V20CTF	F301995	7,5URD272TTF2000	2
PC272UD65V22CTF	G301996	7,5 URD 272 TTF 2200	2
PC272UD65V25CTF	H301997	6,5 URD 272 TTF 2500	2
PC273UD13C800TF	F300730	12,5 URD 273 TTF 0800	2
PC273UD13C900TF	G300731	12,5 URD 273 TTF 0900	2
PC273UD13C10CTF	H300732	12,5 URD 273 TTF 1000	2
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PC273UD11C16CTF	J302228	11 URD 273 TTF 1600	2
PC273UD11C18CTF	S302236	11 URD 273 TTF 1800	2
PC273UD10C20CTF	P300738	10 URD 273 TTF 2000	2
PC273UD95V22CTF	Q300739	9,5 URD 273 TTF 2200	2
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PC76UD60V30CP11	K301999	6 URD 273 PLAF 3000	2
PC76UD60V32CP11	M302001	6 URD 273 PLAF 3200	2
PC76UD55V36CP11	N302002	5,5 URD 273 PLAF 3600	2