

Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)

Square Body High-Speed Fuse-Links AC Protection

The 1250V Protistor® fuse-links provide maximum flexibility in equipment design and ultimate protection for today's power conversion equipment. These 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, GTO's and IGBT devices. Fuses are assembled with pure silver, die-cut elements embedded in solidified sand, which helps control arcing characteristics for a lower I²t 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.

Features Benefits

- Multiple body sizes and terminals or blades combination
- aR Class according to IEC 60269-4 and VDE 636-23
- Very low I²t 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.

Technical data overview

| | |
|----------------------|----------------------------|
| Voltage Range AC | 550 ... 1250 VAC |
| Ampere Range (A) | 630 ... 3600 A |
| Speed/Characteristic | aR |
| I.R. AC (kA) | 100 kA 120 kA 200 kA |
| Product Size | 2x72 and 2x73 |

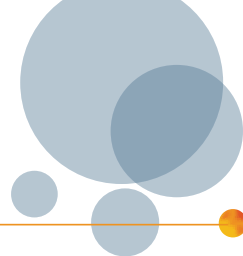
Standards

IEC 60269-4 Compliance



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Product range

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

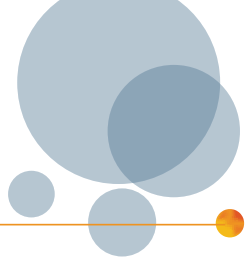
| Catalog number | Reference number | Rated voltage AC (IEC) | Rated current I _n | Pre-arcing I ² t | Clearing I ² t at Rated Voltage | Rated breaking capacity AC | Power dissipation at I _n | Weight | Package |
|-----------------|------------------|------------------------|------------------------------|-----------------------------|--|----------------------------|-------------------------------------|--------|---------|
| PC272UD13C630TF | W300721 | 1250 V | 630 A | 60 kA ² s | 490 kA ² s | 100 kA | 160 W | 1900 g | 1 |
| PC272UD13C700TF | X300722 | 1250 V | 700 A | 84 kA ² s | 675 kA ² s | 100 kA | 162 W | 1900 g | 1 |
| PC272UD13C800TF | Y300723 | 1250 V | 800 A | 130 kA ² s | 1065 kA ² s | 100 kA | 168 W | 1900 g | 1 |
| PC272UD13C900TF | Z300724 | 1250 V | 900 A | 176 kA ² s | 1430 kA ² s | 100 kA | 183 W | 1900 g | 1 |
| PC272UD13C10CTF | A300725 | 1250 V | 1000 A | 228 kA ² s | 1850 kA ² s | 100 kA | 197 W | 1900 g | 1 |
| PC272UD13C11CTF | B300726 | 1250 V | 1100 A | 272 kA ² s | 2185 kA ² s | 100 kA | 231 W | 1900 g | 1 |
| PC272UD11C13CTF | M302231 | 1100 V | 1250 A | 426 kA ² s | 2950 kA ² s | 100 kA | 237 W | 1900 g | 1 |
| PC272UD11C14CTF | D300728 | 1100 V | 1400 A | 568 kA ² s | 3650 kA ² s | 100 kA | 256 W | 1900 g | 1 |
| PC272UD10C16CTF | L302230 | 1000 V | 1600 A | 860 kA ² s | 4895 kA ² s | 100 kA | 262 W | 1900 g | 1 |
| PC272UD90V18CTF | E301994 | 900 V | 1800 A | 1250 kA ² s | 6350 kA ² s | 100 kA | 275 W | 1900 g | 1 |
| PC272UD75V20CTF | F301995 | 750 V | 2000 A | 1760 kA ² s | 7570 kA ² s | 100 kA | 285 W | 1900 g | 1 |
| PC272UD65V22CTF | G301996 | 650 V | 2200 A | 2410 kA ² s | 8350 kA ² s | 100 kA | 320 W | 1900 g | 1 |
| PC272UD65V25CTF | H301997 | 650 V | 2500 A | 3470 kA ² s | 12000 kA ² s | 100 kA | 340 W | 1900 g | 1 |

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

| Catalog number | Reference 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 | Weight | Package |
|-----------------|------------------|------------------------|------------------------------|-----------------------------|--|----------------------------|-------------------------------------|--------|---------|
| PC273UD13C800TF | F300730 | 1250 V | 800 A | 100 kA ² s | 815 kA ² s | 100 kA | 195 W | 2600 g | 1 |
| PC273UD13C900TF | G300731 | 1250 V | 900 A | 142 kA ² s | 1150 kA ² s | 100 kA | 208 W | 2600 g | 1 |
| PC273UD13C10CTF | H300732 | 1250 V | 1000 A | 176 kA ² s | 1400 kA ² s | 100 kA | 231 W | 2600 g | 1 |
| PC273UD13C11CTF | J300733 | 1250 V | 1100 A | 228 kA ² s | 1860 kA ² s | 100 kA | 244 W | 2600 g | 1 |
| PC273UD13C13CTF | K300734 | 1250 V | 1250 A | 336 kA ² s | 2660 kA ² s | 100 kA | 262 W | 2600 g | 1 |
| PC273UD11C14CTF | K302229 | 1100 V | 1400 A | 454 kA ² s | 3060 kA ² s | 100 kA | 283 W | 2600 g | 1 |
| PC273UD11C16CTF | J302228 | 1100 V | 1600 A | 760 kA ² s | 5210 kA ² s | 100 kA | 286 W | 2600 g | 1 |
| PC273UD11C18CTF | S302236 | 1100 V | 1800 A | 1000 kA ² s | 6300 kA ² s | 100 kA | 315 W | 2600 g | 1 |
| PC273UD10C20CTF | P300738 | 1000 V | 2000 A | 1480 kA ² s | 8500 kA ² s | 120 kA | 319 W | 2600 g | 1 |
| PC273UD95V22CTF | Q300739 | 950 V | 2200 A | 1780 kA ² s | 9632 kA ² s | 100 kA | 353 W | 2600 g | 1 |

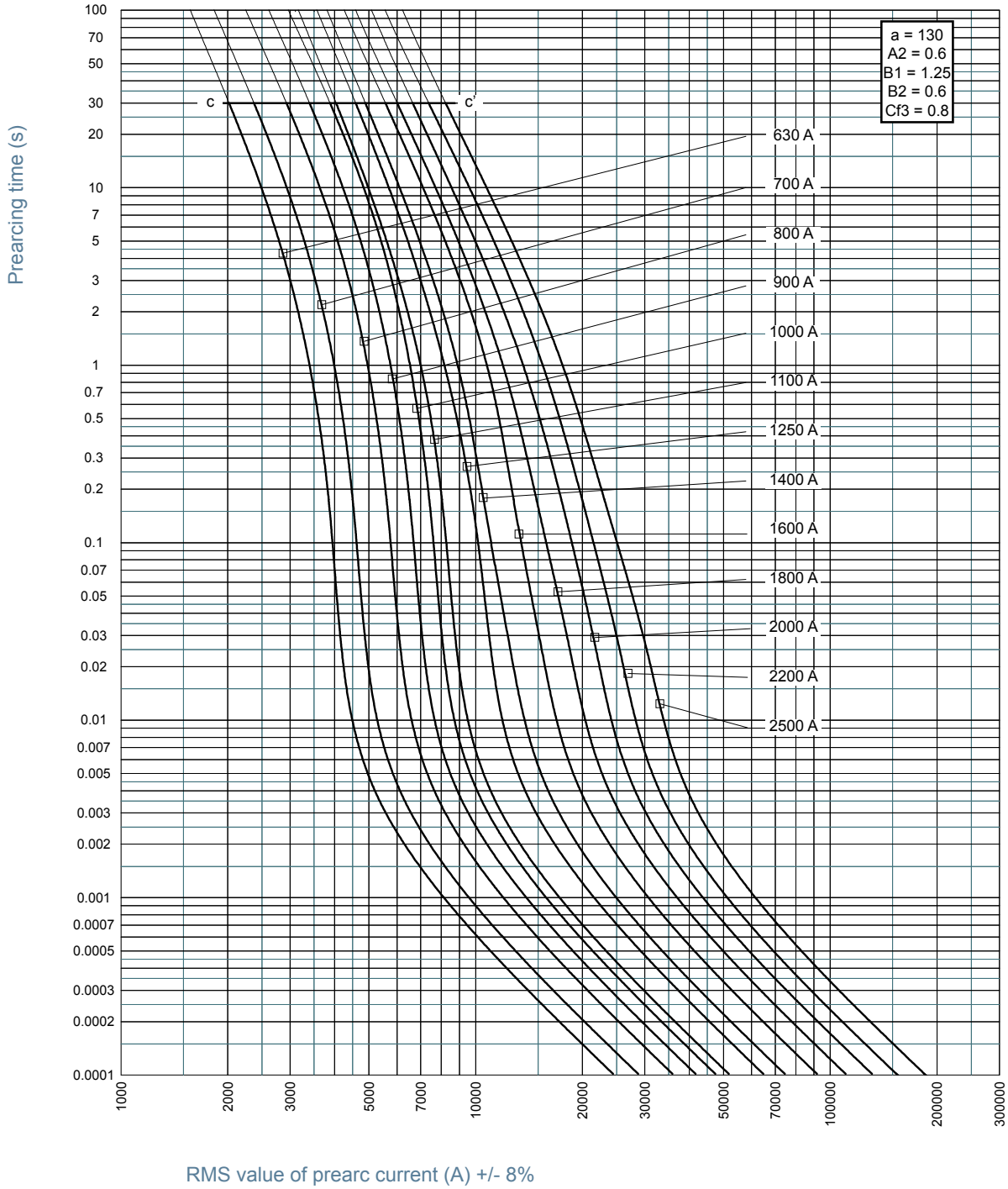
Size 2x73 type PLAF M10 threaded plates

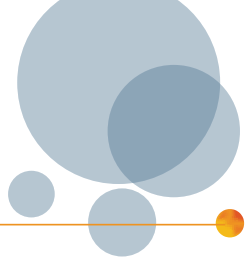
| Catalog number | Reference number | Rated voltage AC (IEC) | Rated current I _n | Pre-arcing I ² t | Clearing I ² t at Rated Voltage | Rated breaking capacity AC | Power dissipation at I _n | Weight | Package |
|-----------------|------------------|------------------------|------------------------------|-----------------------------|--|----------------------------|-------------------------------------|--------|---------|
| PC76UD95V22CP11 | M301909 | 950 V | 2200 A | 1780 kA ² s | 9630 kA ² s | 100 kA | 353 W | 3100 g | 1 |
| PC76UD90V25CP11 | R300740 | 900 V | 2500 A | 2350 kA ² s | 12070 kA ² s | 110 kA | 390 W | 3100 g | 1 |
| PC76UD85V28CP11 | S300741 | 850 V | 2800 A | 3020 kA ² s | 15000 kA ² s | 100 kA | 440 W | 3100 g | 1 |
| PC76UD60V30CP11 | K301999 | 600 V | 3000 A | 4980 kA ² s | 15700 kA ² s | 200 kA | 405 W | 3100 g | 1 |
| PC76UD60V32CP11 | M302001 | 600 V | 3200 A | 5720 kA ² s | 19030 kA ² s | 200 kA | 426 W | 3100 g | 1 |
| PC76UD55V36CP11 | N302002 | 550 V | 3600 A | 8170 kA ² s | 25200 kA ² s | 200 kA | 430 W | 3100 g | 1 |



Time current characteristic curves

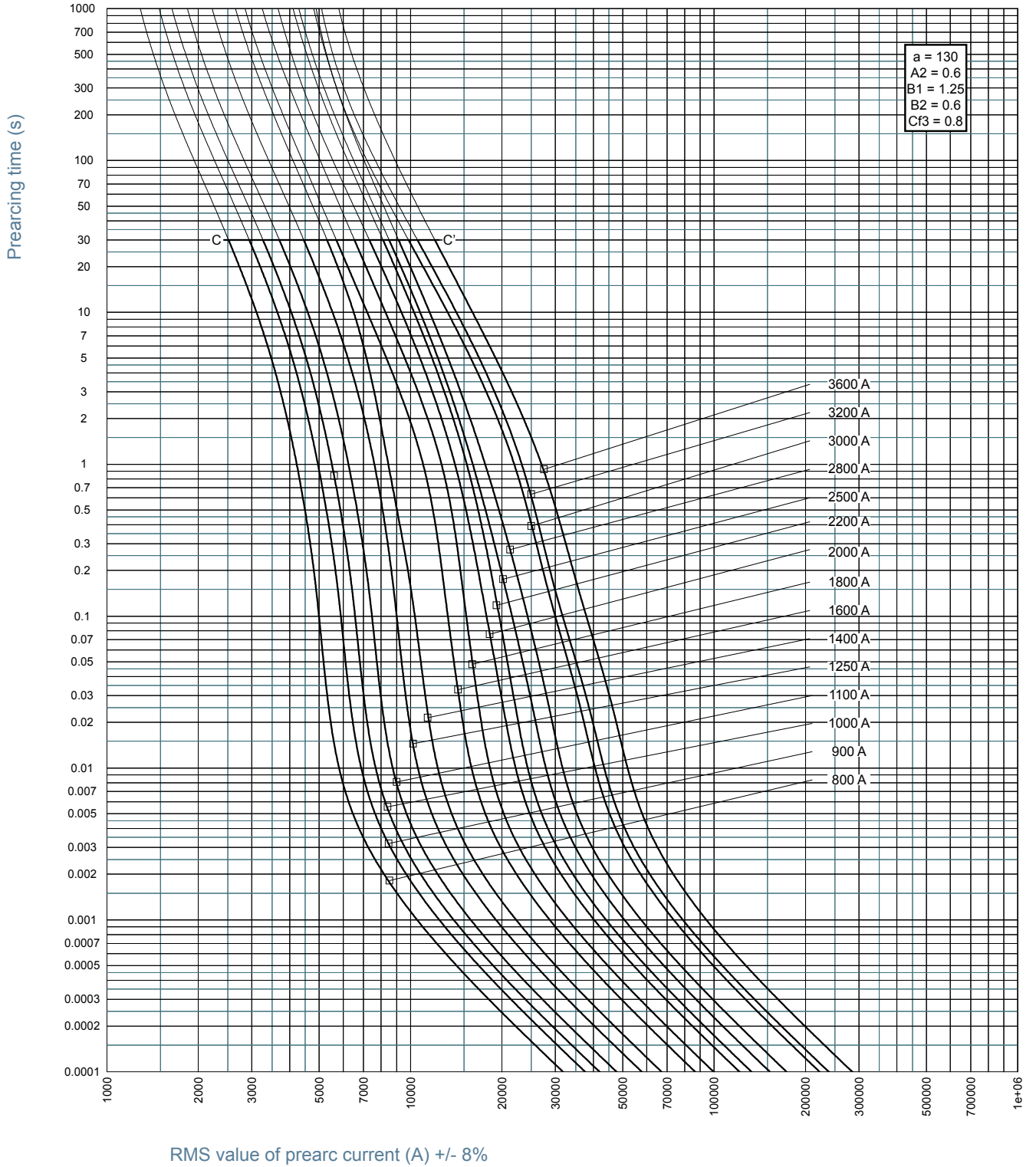
size 2x72

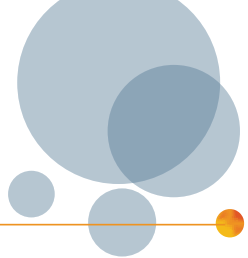




Time current characteristic curves

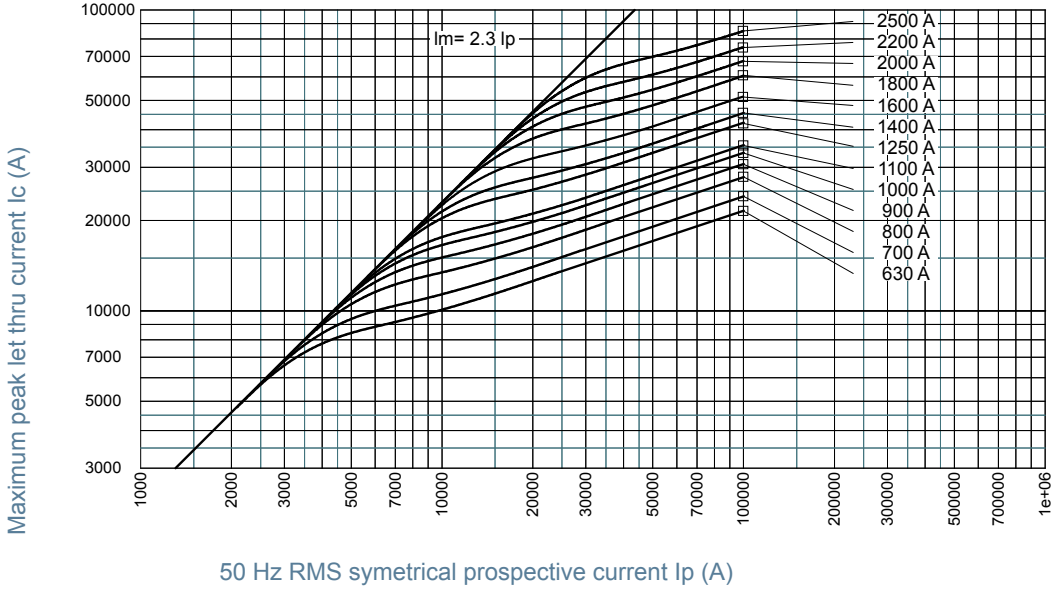
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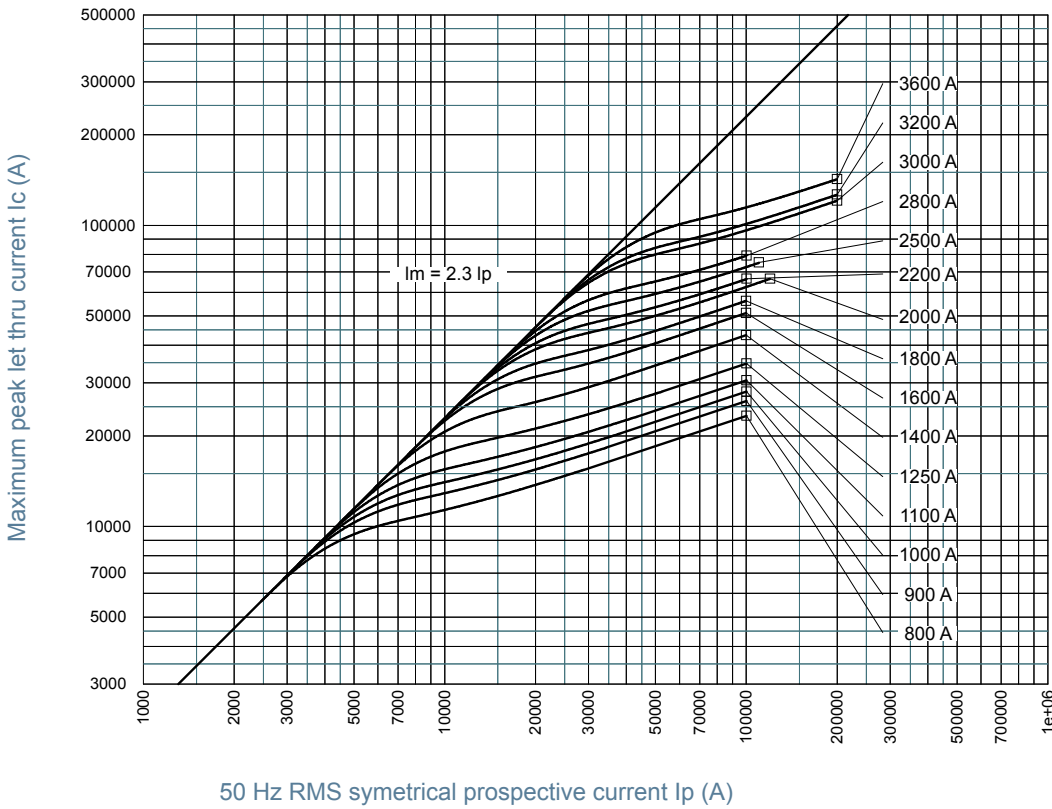


Current limiting diagram

Size 2x72

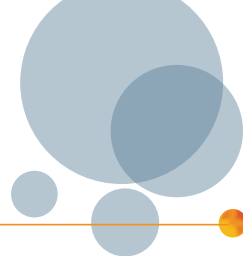


Size 2x73



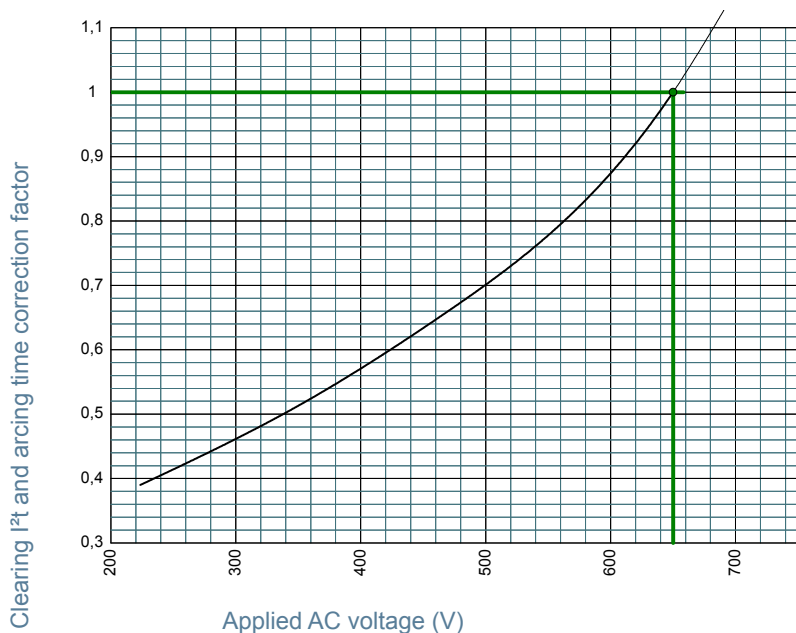
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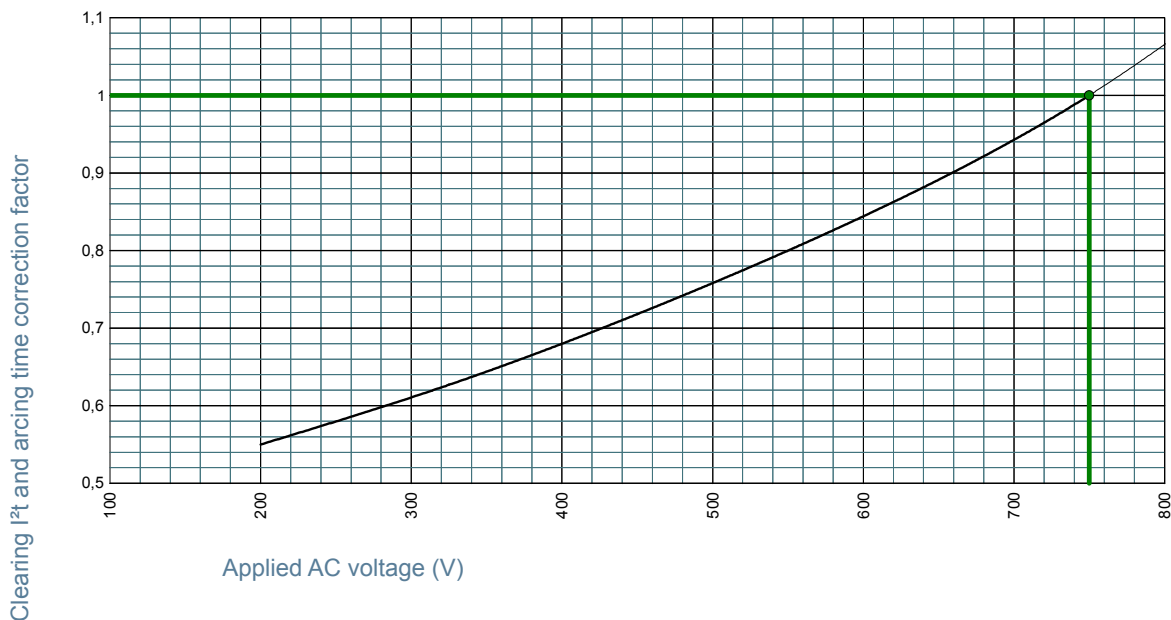


I²t Multiplier coefficient

size 2x072 650V

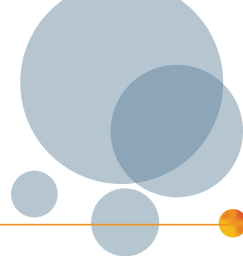


size 2x072 750V



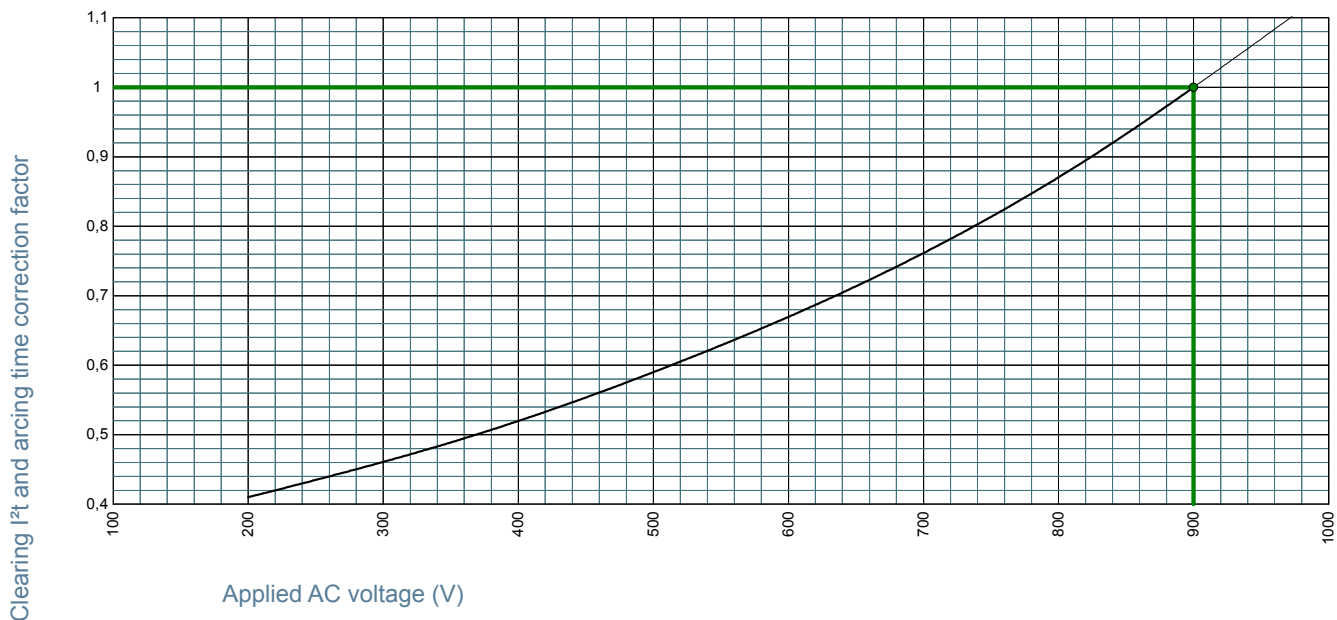
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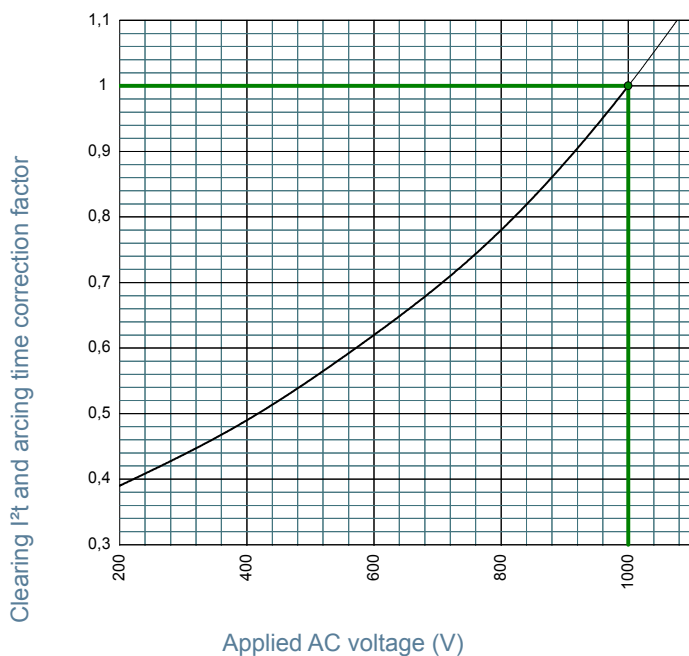


I²t Multiplier coefficient

size 2x072 900V

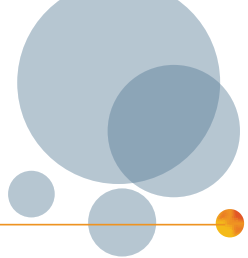


size 2x072 1000V



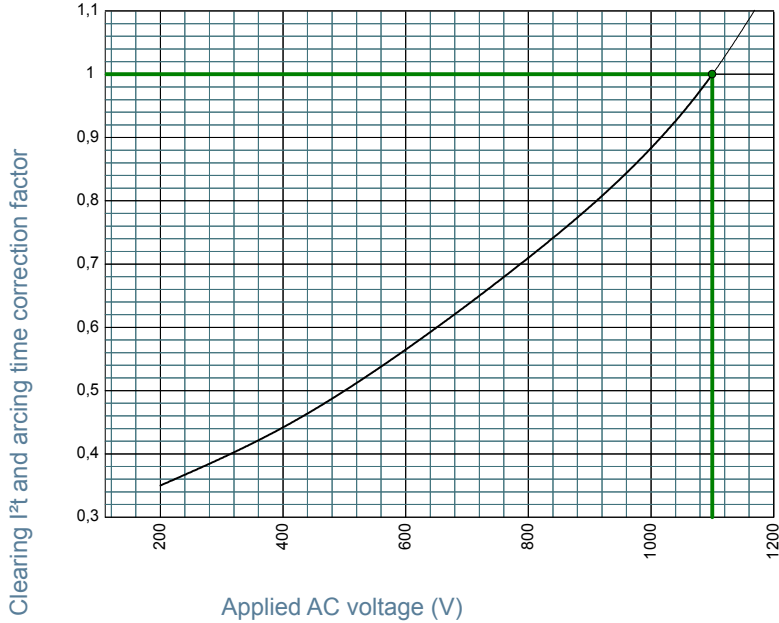
Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)

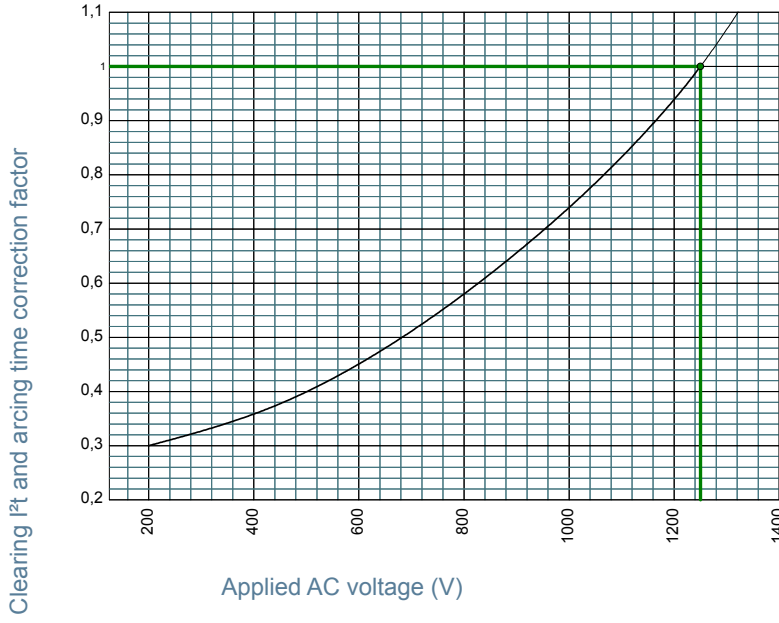


I²t Multiplier coefficient

size 2x072 1100V

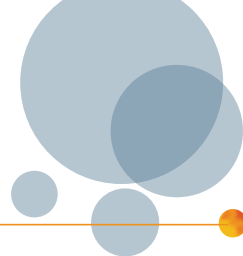


size 2x072 1250V



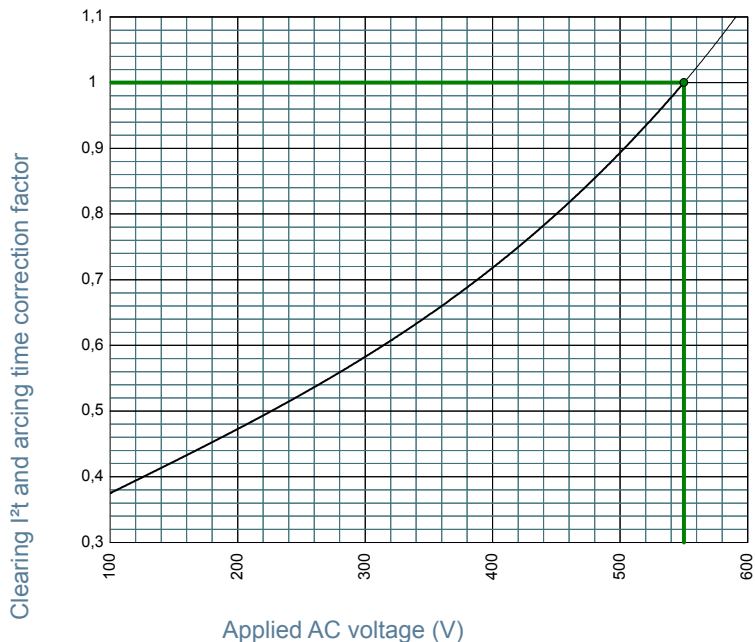
Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)

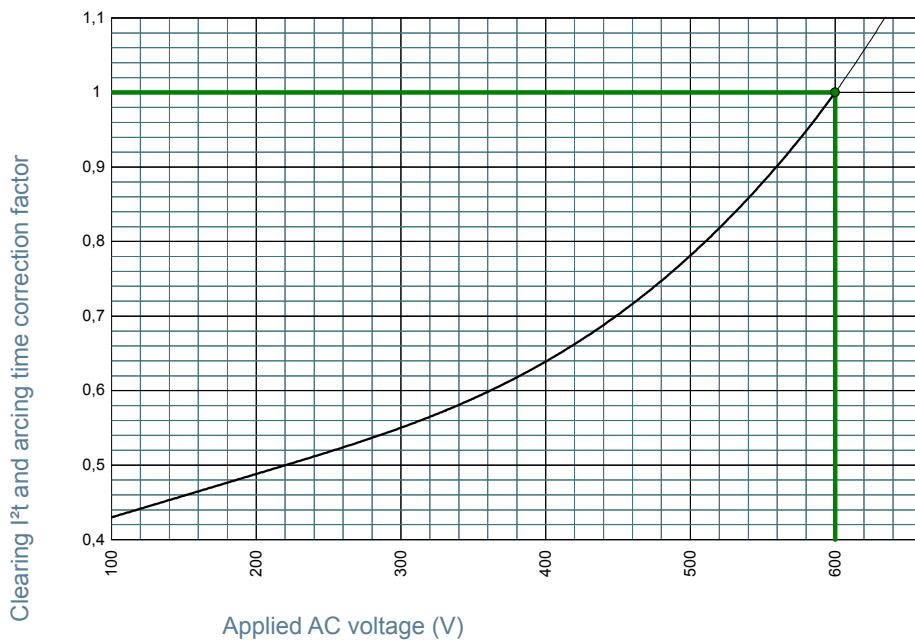


I²t Multiplier coefficient

size 2x073 550V

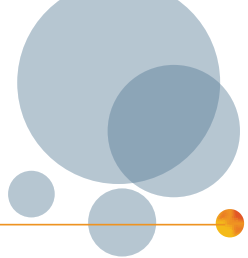


size 2x073 600V



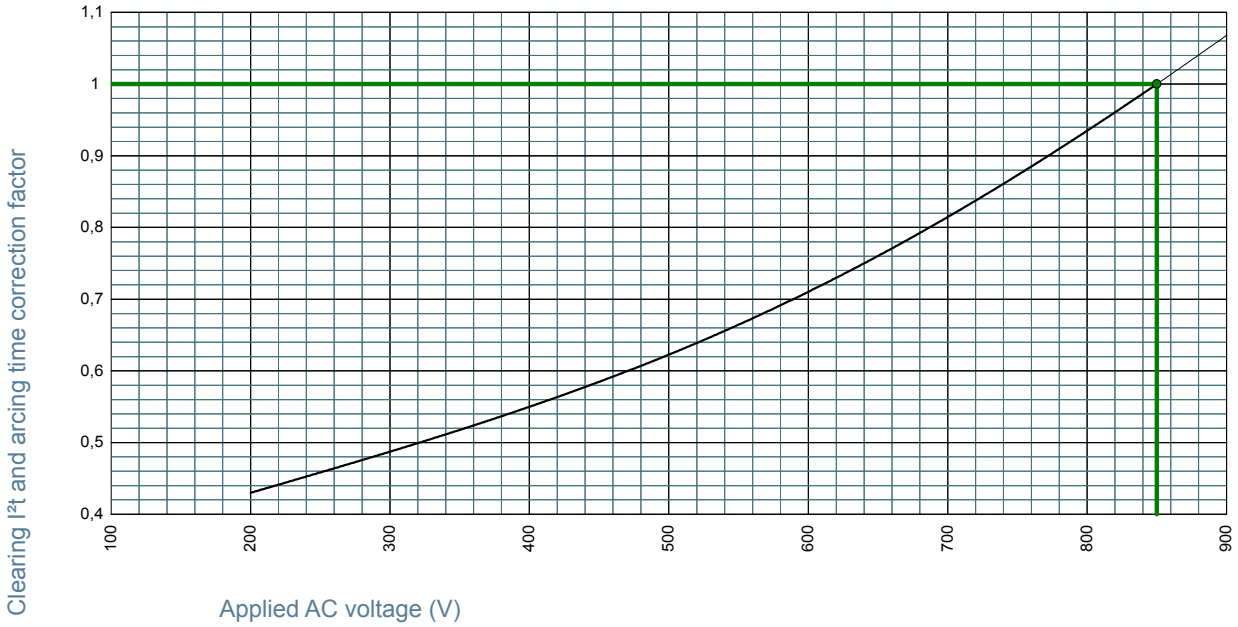
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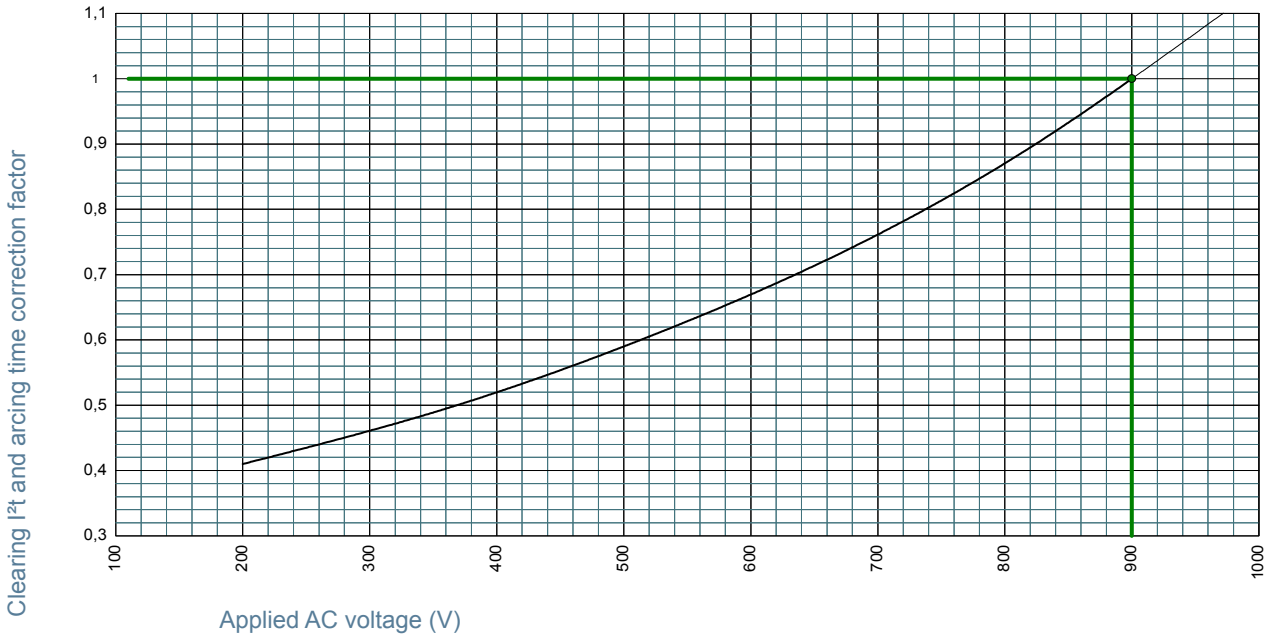


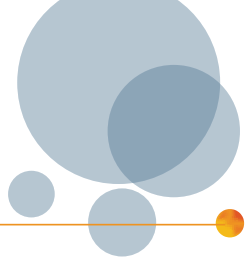
I²t Multiplier coefficient

size 2x073 850V



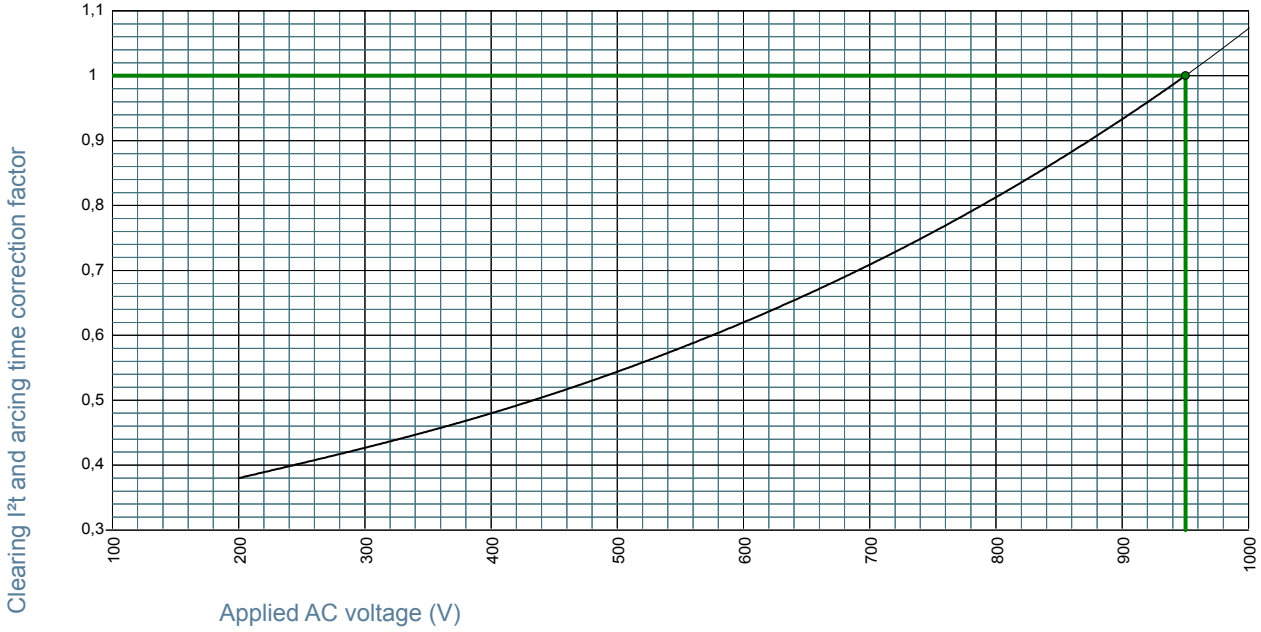
size 2x073 900V



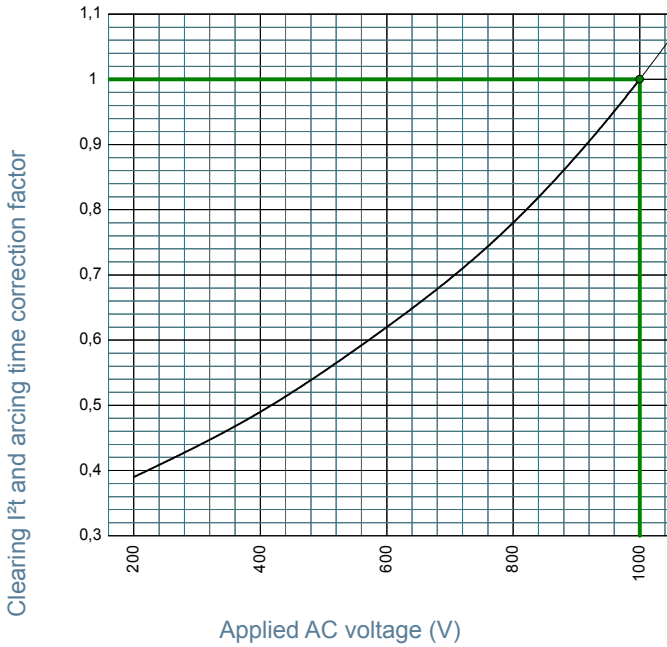


I²t Multiplier coefficient

size 2x073 950V

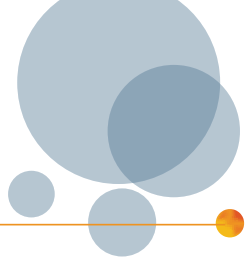


size 2x073 1000V



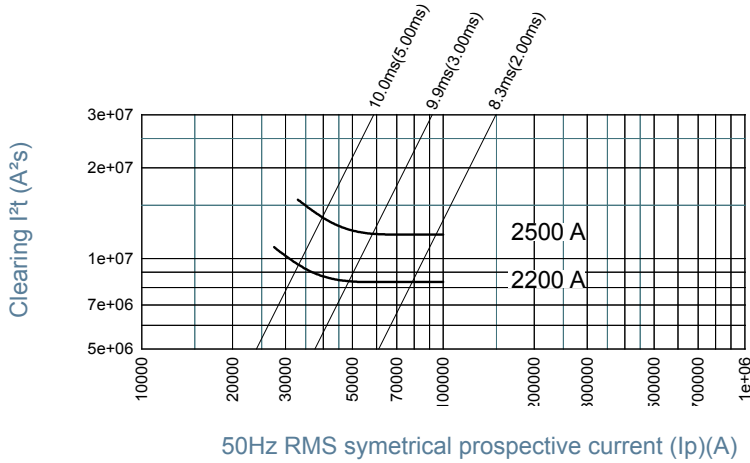
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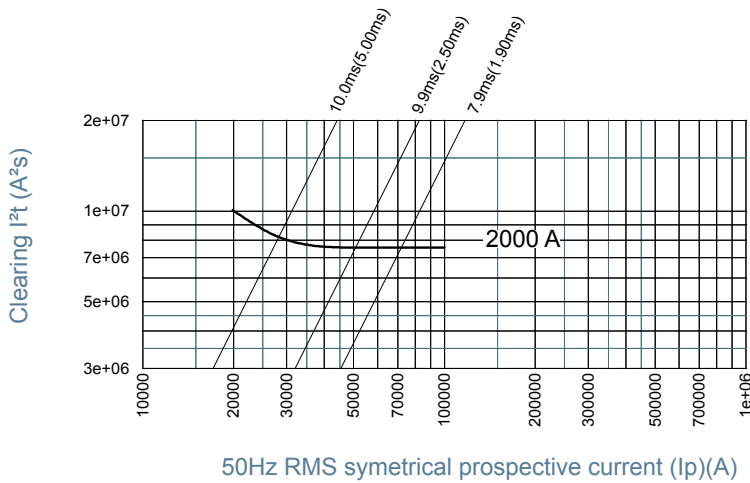


Characteristics total I²t curve

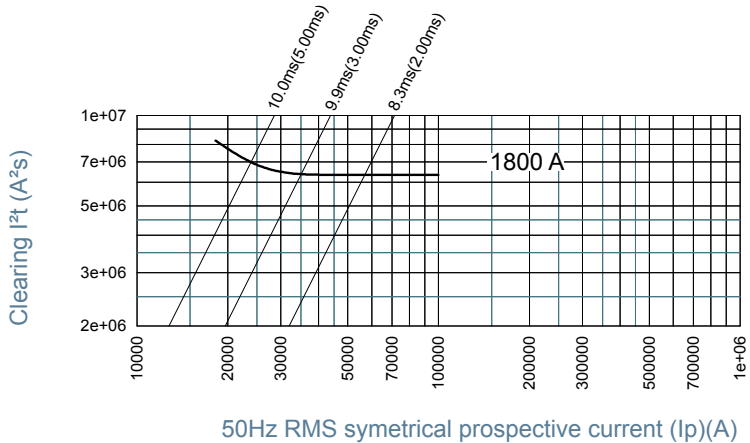
size 2x072 650V



size 2x072 750V

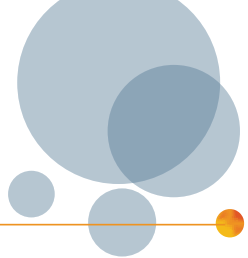


size 2x072 900V



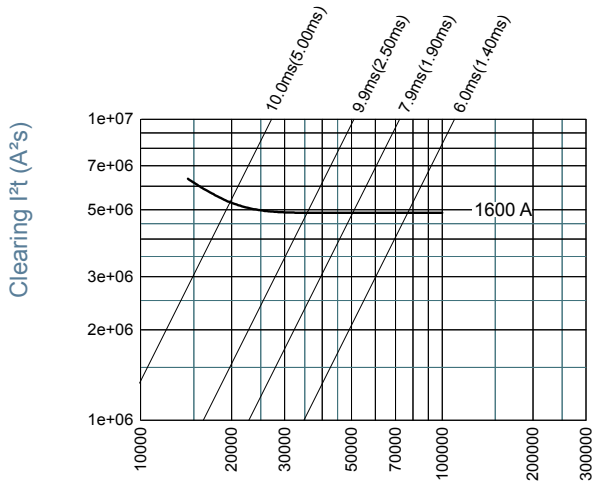
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550 to 1250VAC (IEC)



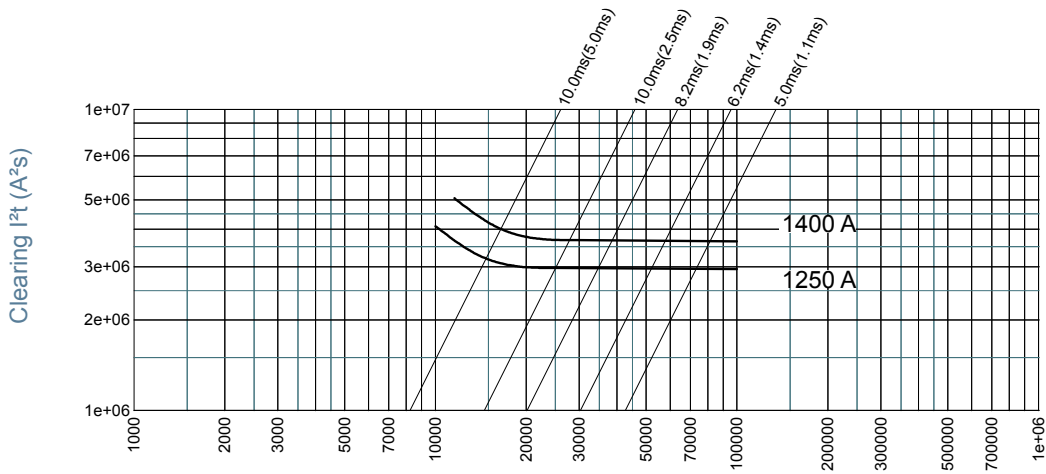
Characteristics total I²t curve

size 2x072 1000V



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

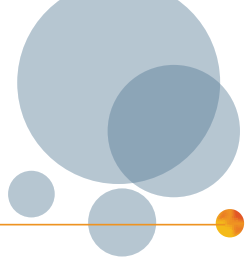
size 2x072 1100V



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

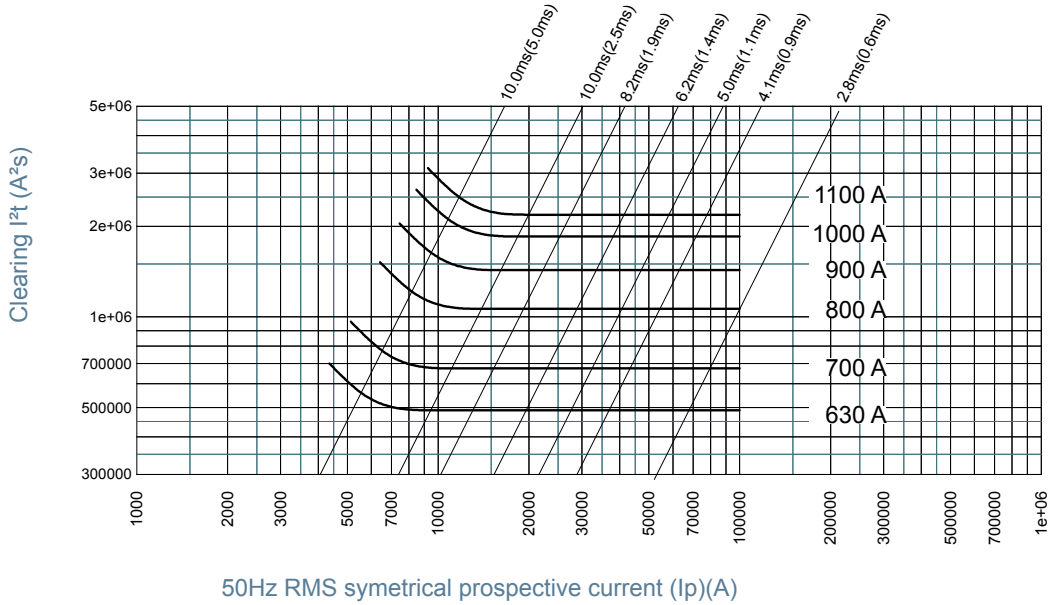
Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)

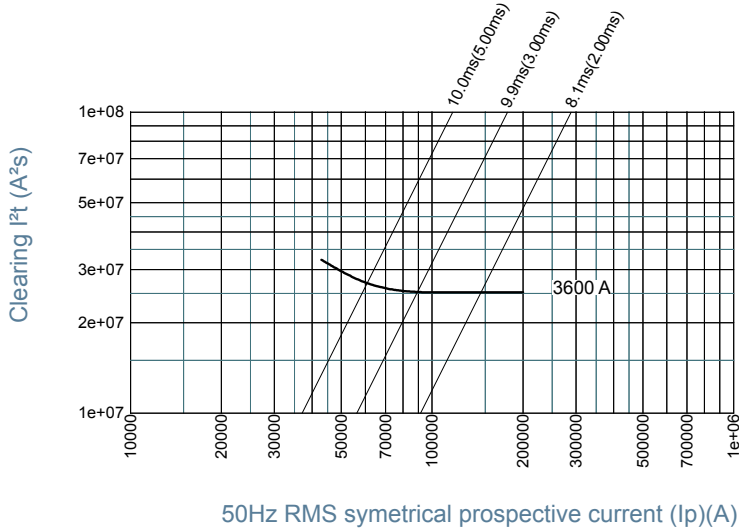


Characteristics total I²t curve

size 2x072 1250V

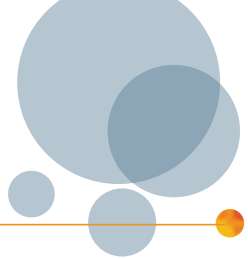


size 2x073 550V



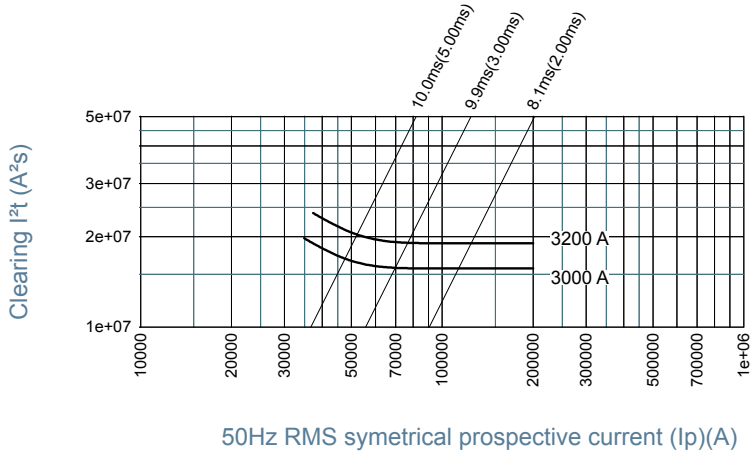
Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)



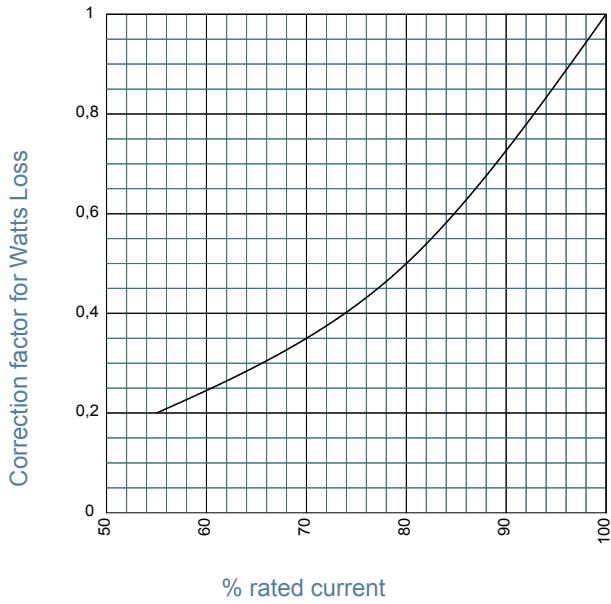
Characteristics total I²t curve

size 2x073 600V



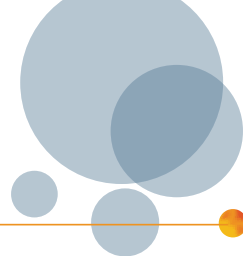
Power dissipation

size 2x72



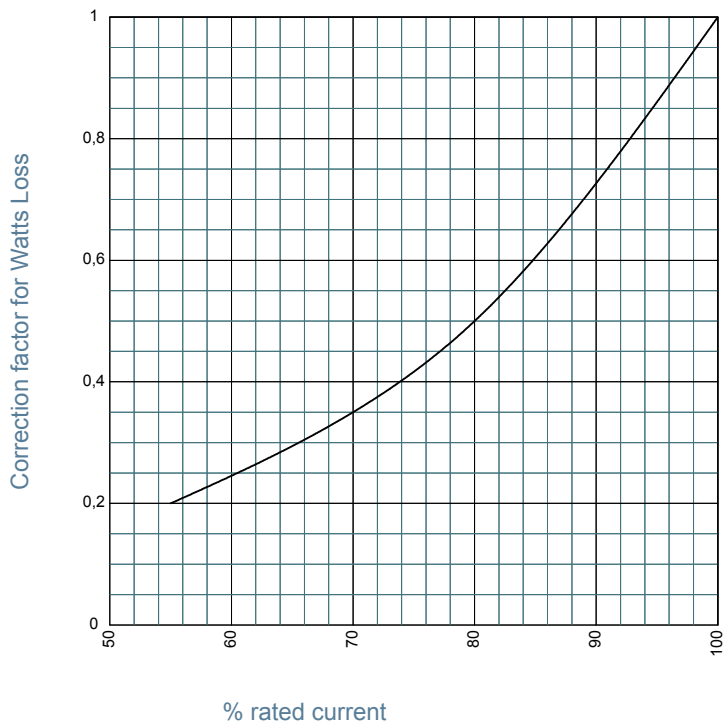
Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)



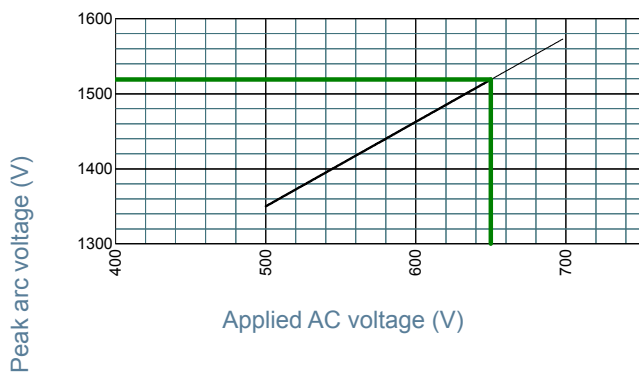
Power dissipation

size 2x73



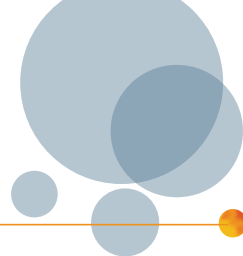
Peak arc voltage

size 2x072 650V



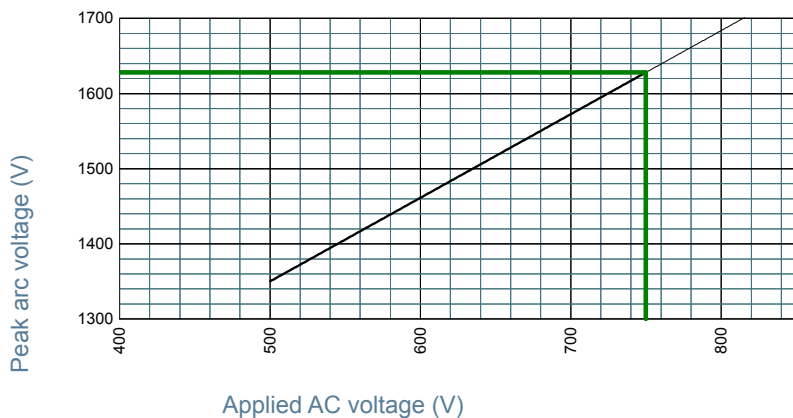
Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)

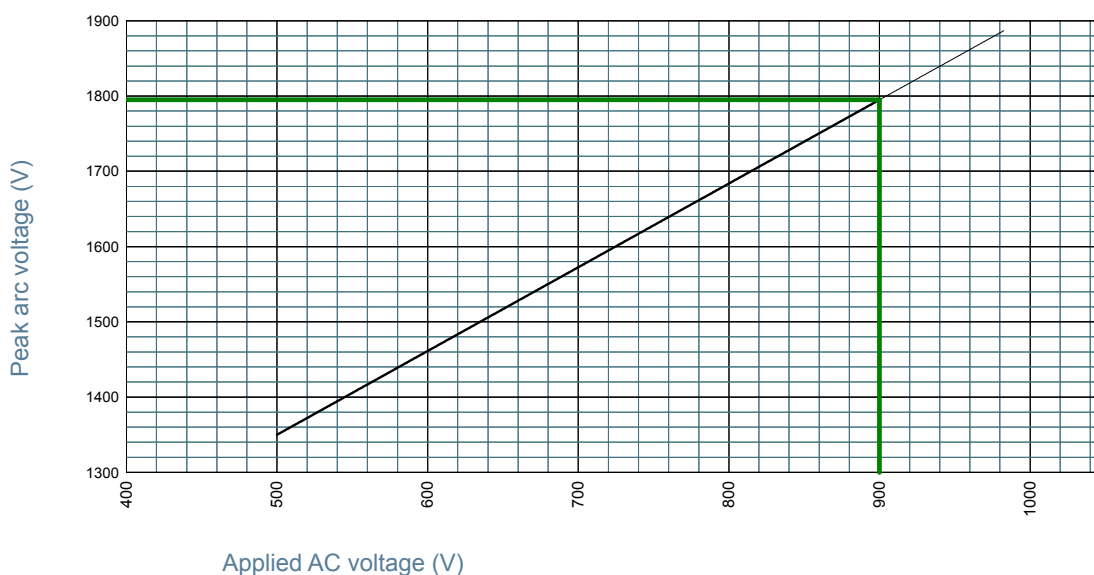


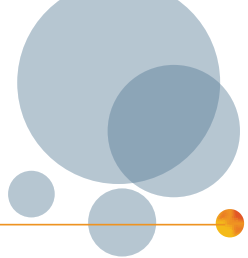
Peak arc voltage

size 2x072 750V



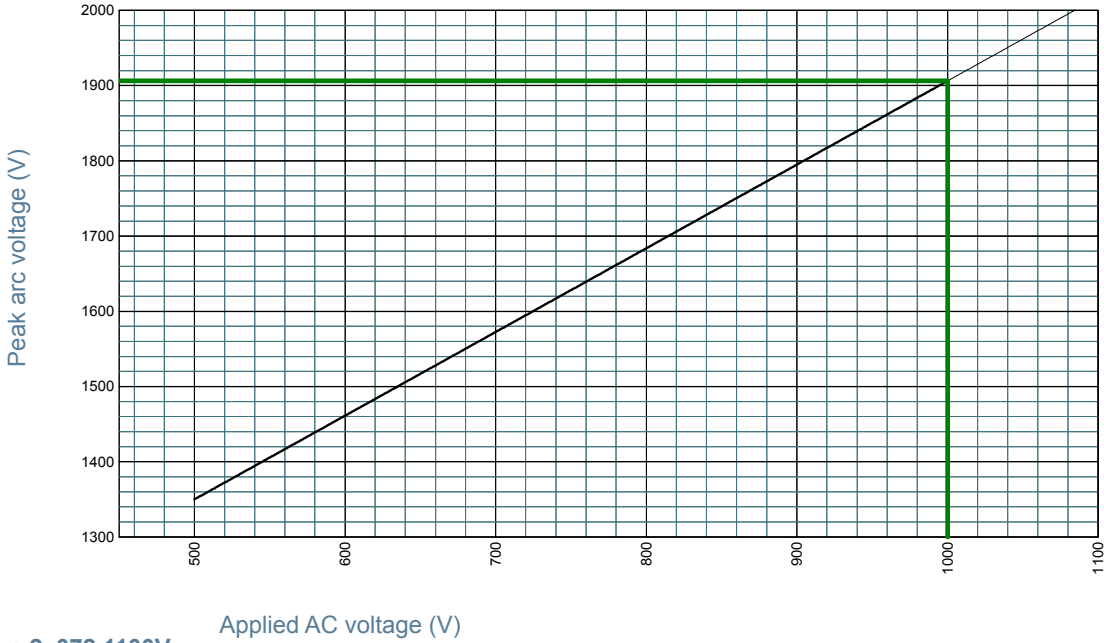
size 2x072 900V



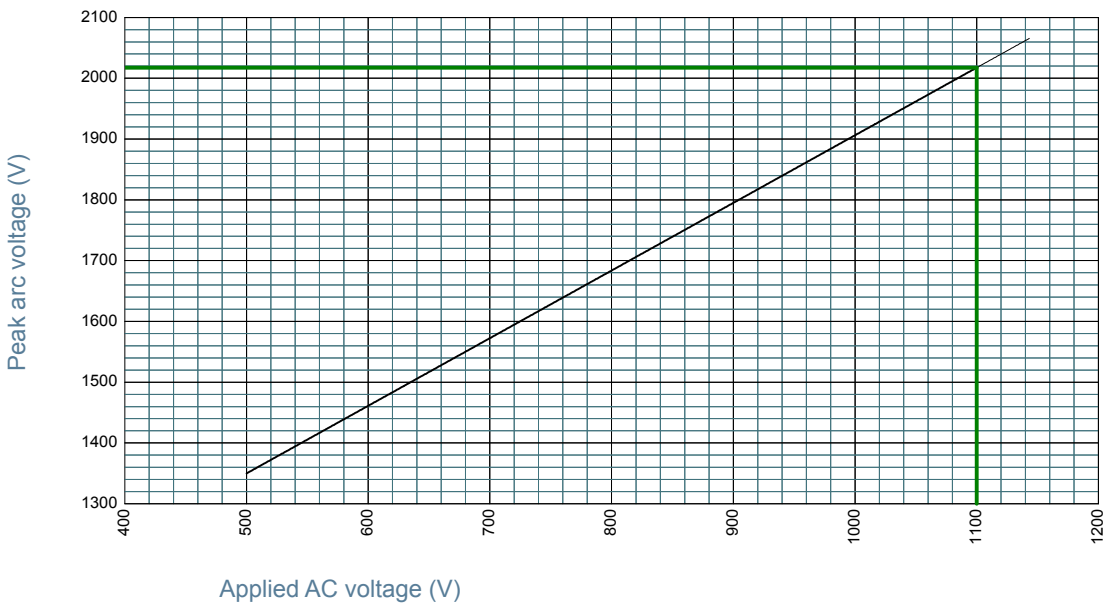


Peak arc voltage

size 2x072 1000V

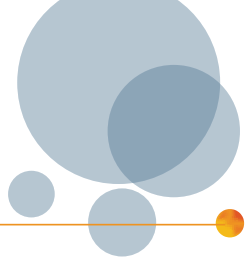


size 2x072 1100V



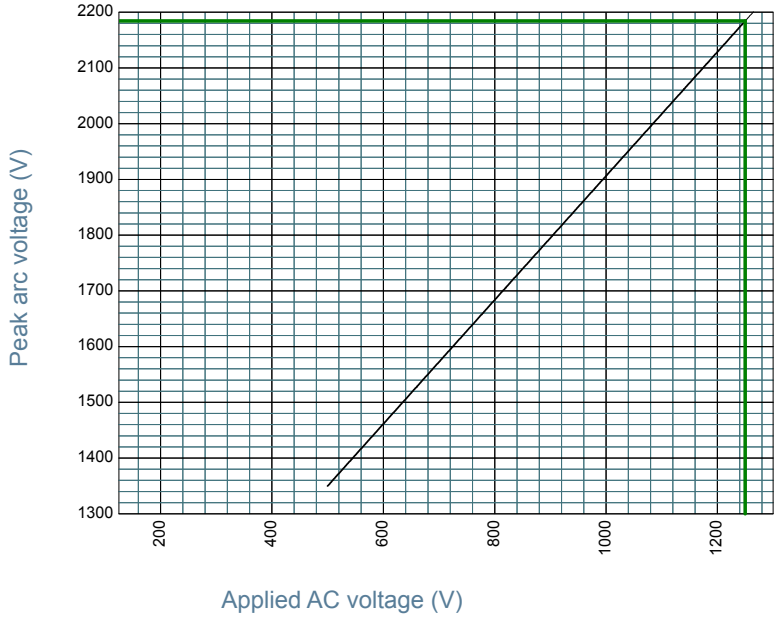
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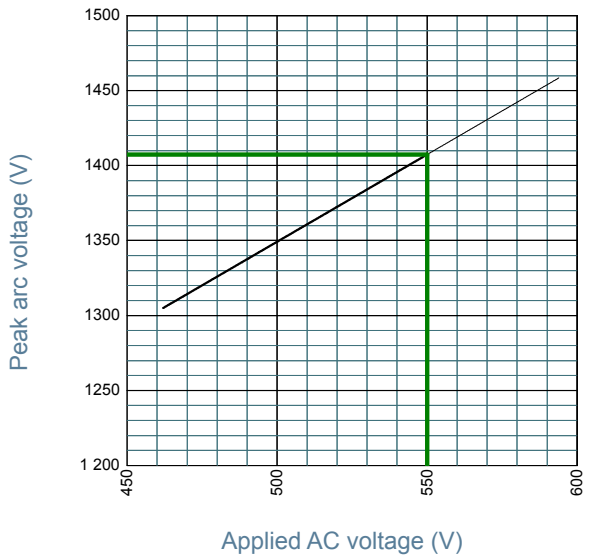


Peak arc voltage

size 2x072 1250V

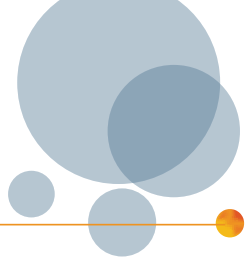


size 2x073 550V



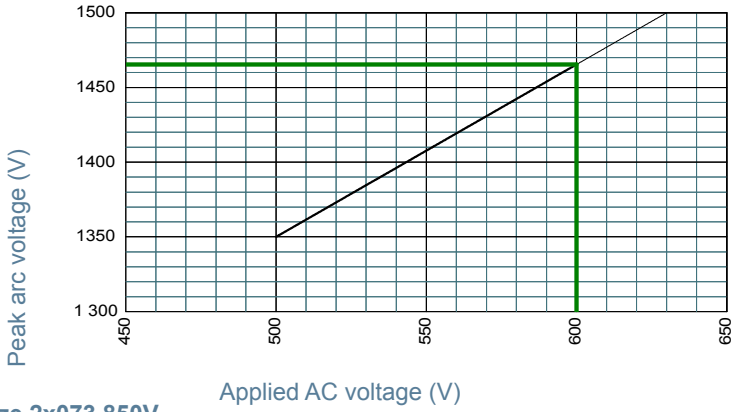
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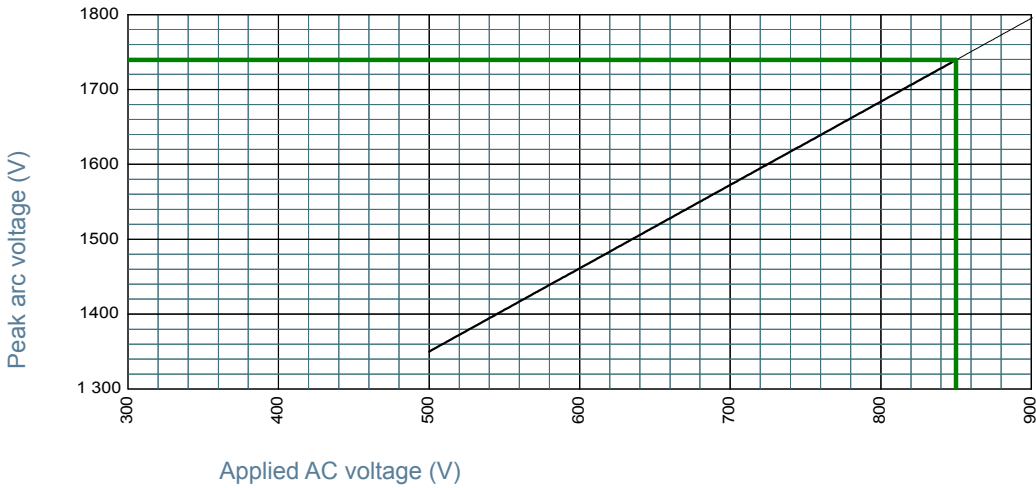


Peak arc voltage

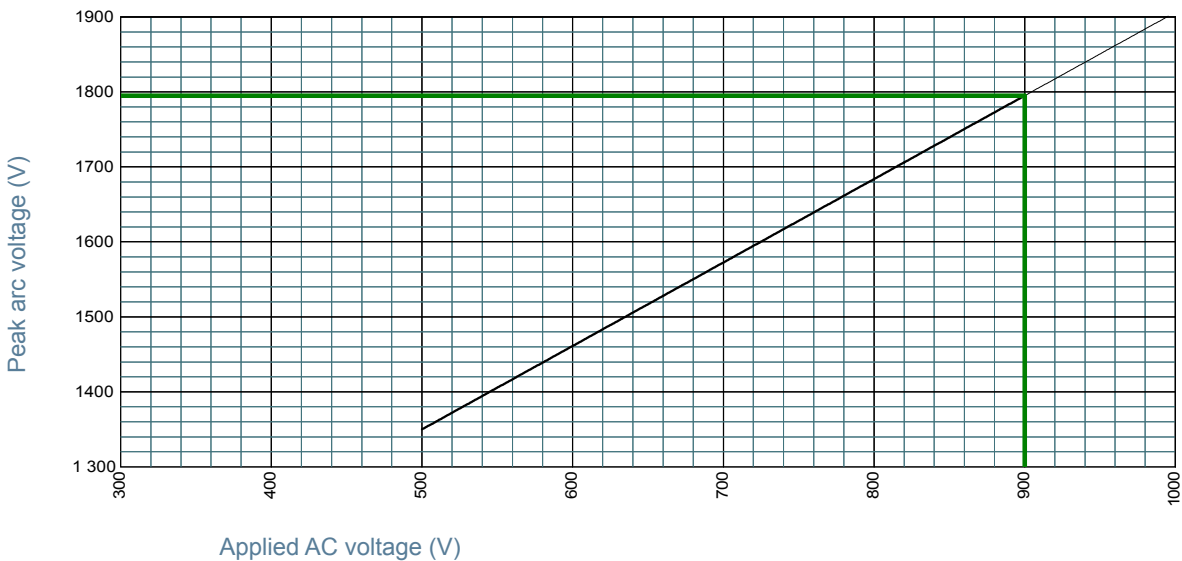
size 2x073 600V

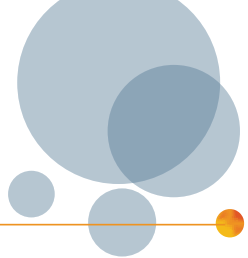


size 2x073 850V



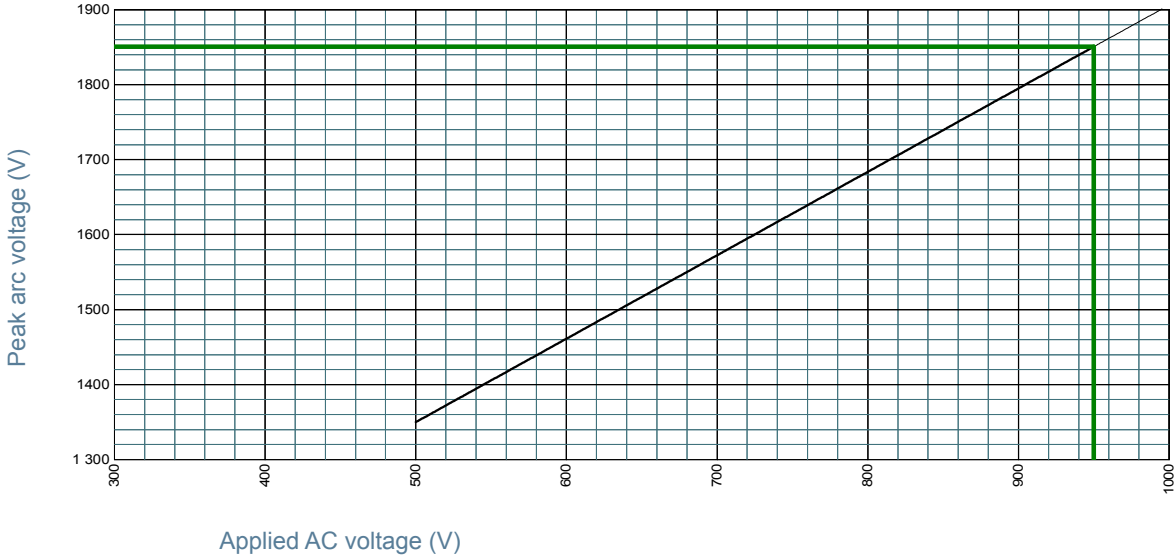
size 2x073 900V



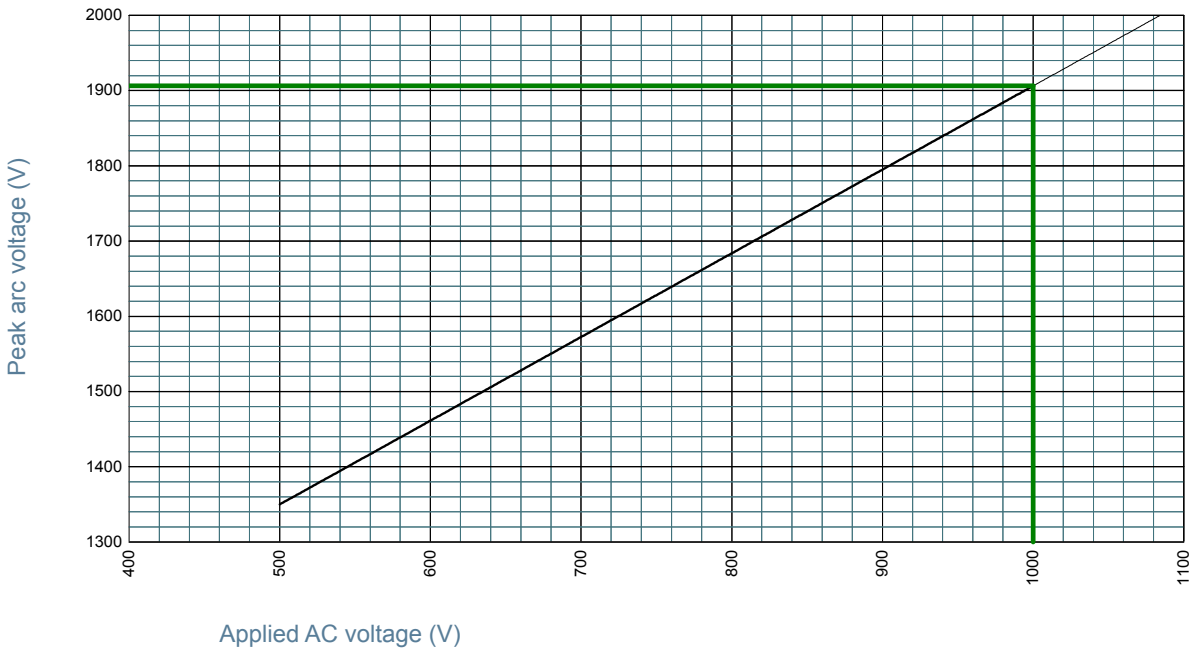


Peak arc voltage

size 2x073 950V



size 2x073 1000V

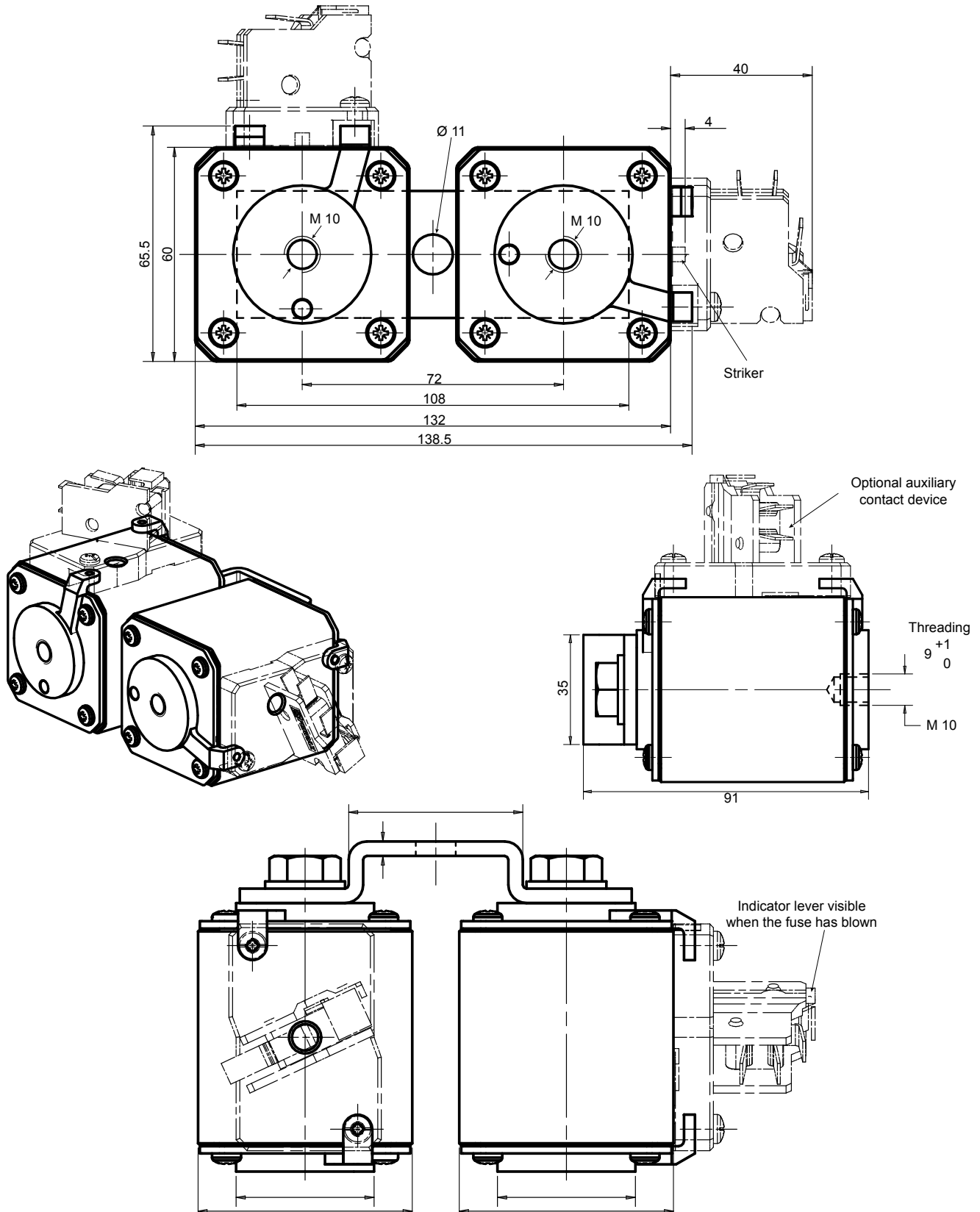


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Dimensions

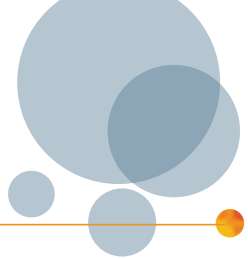
size 2x72 TTF (108171)



Dimensions in mm

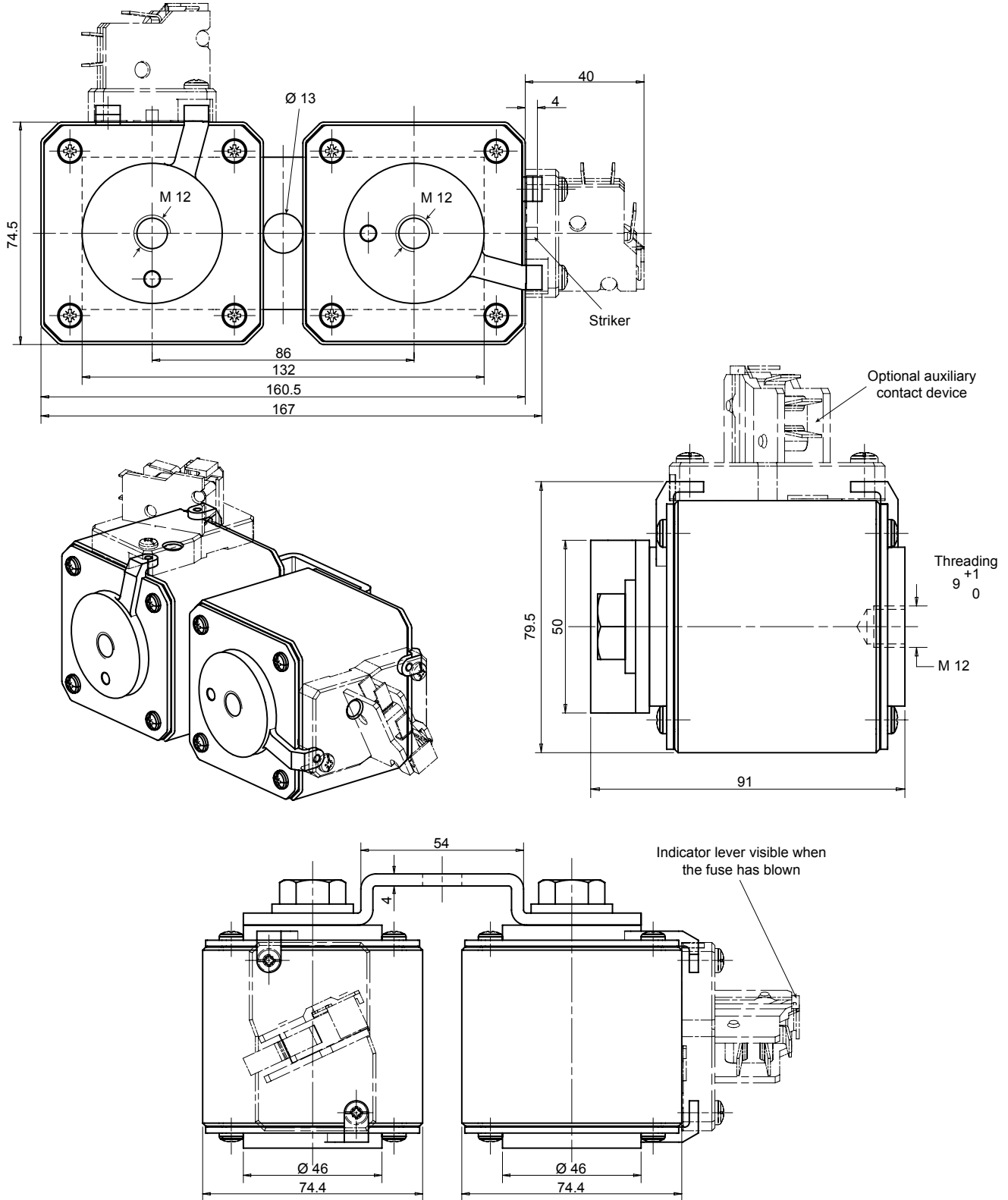
Protistor® size 2x72 and 2x73 aR

550 to 1250VAC (IEC)



Dimensions

size 2x73 TTF (108172)



Dimensions in mm