

Protistor® Square-body Fuses PSC aR sizes 7x - 650 V to 1300 VAC Main characteristics

 Recognized

650 to 1300VAC / 63 to 2800A.

- Exceptionally low I²T, Watt losses.
- Non-magnetic construction, highly reliable low voltage.
- Indicator system.
- Conformity to UL, CSA investigated, IEC, DIN and VDE standards.
- Increased technical performance
- Higher ratings.
- Reduction in volume and weight.
- This fuse preselection table indicates, for each size:
 - rated current (or rating) I_n
 - pre-arcing I²t (I²t_p) at 1 ms
 - total operating I²t (I²t_t) at 1000 V and 850V(I)f=50Hz, cos φ =0.15, and for a total operating time from 8 to 10 ms
 - dissipated power P_n at the rated current I_n, and at 0.8 I_n, in steady state
 - breaking capacity at various voltages, checked by tests made in accordance with IEC and American standards.



Estimated breaking capacity: 300 kA

PSC 650 to 1300VAC US and European standard

| Size | Nominal Voltage U _N (VAC) | | Ampere Rating (A) | Pre-arcing I ² t @ 1ms (kA ² s) | Total I ² t @ 1000V (*) @ U _n (kA ² s) | Power (W) | | Tested Breaking capacity | | | | | |
|------|--------------------------------------|------|-------------------|---|---|--------------|---------------|--------------------------|---------------|-----|---------------|---------------|---------------|
| | IEC | UL | | | | End contacts | Blades | IEC | USA | | | | |
| 70 | 1250 | 1300 | 50 | 0,116 | 0,7 | 16 | 16 | 100kA @ 1250V | 100kA @ 1300V | | | | |
| | | | 63 | 0,210 | 1,2 | 26 | 26 | | | | | | |
| | | | 80 | 0,470 | 2,7 | 27 | 27 | | | | | | |
| | | | 100 | 0,830 | 4,8 | 30 | 30 | | | | | | |
| | | | 125 | 1,30 | 7,5 | 38 | 38 | | | | | | |
| | | | 160 | 2,55 | 15 | 45 | 45 | | | | | | |
| | 1200 | 1300 | 200 | 4,7 | 27 | 54 | 56 | 100kA @ 1200V | 100kA @ 1300V | | | | |
| | | | 250 | 9,6 | 55 | 58 | 61 | | | | | | |
| | | | 280 | 14 | 82 | 61 | 64 | | | | | | |
| | | | 315 | 20 | 115 | 66 | 72 | | | | | | |
| | | | 350 | 28 | 158 | 68 | 75 | | | | | | |
| | | | 400 | 39 | 224 | 81 | 90 | | | | | | |
| 1100 | 1200 | 450 | 62 | 356 | 82 | 82 | 150kA @ 1100V | 150kA @ 1200V | | | | | |
| | | 500 | 84 | 483 | 83 | 83 | | | | | | | |
| | | 800 | 900 | 550 | 128 | 576(*) | | | 83 | 83 | 120kA @ 1000V | 120kA @ 1100V | |
| 1000 | 1100 | 550 | 128 | 576(*) | 83 | 83 | 100kA @ 1000V | 100kA @ 1100V | | | | | |
| | | 800 | 900 | 550 | 128 | 576(*) | | | 83 | 83 | | | |
| | | 750 | 800 | 630 | 176 | 730(*) | | | 91 | 91 | 100kA @ 800V | 100kA @ 900V | |
| 71 | 1250 | 1300 | 160 | 2,6 | 15 | 46 | 46 | 100kA @ 1250V | 100kA @ 1300V | | | | |
| | | | 200 | 4,7 | 27 | 54 | 54 | | | | | | |
| | | | 250 | 8,9 | 51 | 61 | 61 | | | | | | |
| | | | 280 | 12 | 68 | 68 | 70 | | | | | | |
| | | | 315 | 16 | 92 | 73 | 76 | | | | | | |
| | | | 350 | 22 | 127 | 76 | 80 | | | | | | |
| | | | 400 | 38 | 220 | 76 | 80 | | | | | | |
| | | | 450 | 47 | 270 | 87 | 95 | | | | | | |
| | | | 1100 | 1300 (TTI) | 500 | 68 | 390 | | | 90 | X | 150kA @ 1100V | 150kA @ 1200V |
| | 500 | 68 | | | 390 | X | 100 | | | | | | |
| | 550 | 84 | | | 485 | 98 | 112 | | | | | | |
| | 1000 | 1100 | 630 | 125 | 725 | 105 | X | 150kA @ 1000V | 150kA @ 1100V | | | | |
| | | | 630 | 125 | 725 | X | 120 | | | | | | |
| | | | 700 | 180 | 1040 | 105 | 105 | | | | | | |
| | | | 900 | 950 | 800 | 290 | 1540(*) | | | 116 | 116 | | |
| | | | 800 | 850 | 900 | 446 | 2010(*) | | | 120 | 120 | 100kA @ 800V | 100kA @ 850V |
| | | | 900 | 850 | 900 | 446 | 2010(*) | | | 120 | 120 | | |

(¹) at 850 V

(²) does not exist with blades



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PSC 650 to 1300VAC US and European standard

| Size | Nominal Voltage U _N (VAC) | | Ampere Rating (A) | Pre-arcing I _{pt} @ 1ms (kA _{2s}) | Total I ² t @ 1000V (*) @ U _N (kA _{2s}) | Power (W) | | Tested Breaking capacity Estimated B.C 300 kA | | | | | |
|--------|---|------|----------------------|--|--|--------------|--------------|--|---------------|---------------|---------------|---------------|---------------|
| | IEC | UL | | | | End contacts | Blades | IEC | USA | | | | |
| 72 | 1250 | 1300 | 280 | 10 | 60 | 72 | 72 | 100kA @ 1250V | 100kA @ 1300V | | | | |
| | | | 315 | 15 | 87 | 76 | 76 | | | | | | |
| | | | 350 | 21 | 120 | 77 | 77 | | | | | | |
| | | | 400 | 32,5 | 190 | 80 | 80 | | | | | | |
| | | | 450 | 44 | 255 | 87 | 89 | | | | | | |
| | | | 500 | 57 | 330 | 94 | 98 | | | | | | |
| | 550 | 68 | 390 | 110 | 120 | | | | | | | | |
| | 630 | 105 | 610 | 113 | X | | | | | | | | |
| | 1100 | 1200 | 630 | 105 | 610 | X | 125 | 150kA @ 1100V | 150kA @ 1200V | | | | |
| | | | 700 | 145 | 815 | 122 | 140 | | | | | | |
| | | | 800 | 215 | 1240 | 125 | 146 | | | | | | |
| | 1000 | 1100 | 700 | 145 | 815 | X | 140 | 150kA @ 1000V | 150kA @ 1100V | | | | |
| 800 | | | 215 | 1240 | X | 146 | | | | | | | |
| 900 | | | 312 | 1800 | 130 | 152 | | | | | | | |
| 850 | 900 | 1000 | 439 | 2150(*) | 136 | 136 | 100kA @ 850V | 100kA @ 900V | | | | | |
| 73 | 1250 | 1300 | 315 | 12 | 68 | 84 | 84 | 100kA @ 1250V | 100kA @ 1300V | | | | |
| | | | 350 | 17 | 100 | 86 | 86 | | | | | | |
| | | | 375 | 19 | 110 | | | | | | | | |
| | | | 400 | 25 | 145 | 93 | 93 | | | | | | |
| | | | 450 | 35,5 | 205 | 99 | 100 | | | | | | |
| | | | 500 | 44 | 255 | 110 | 112 | | | | | | |
| | | | 550 | 57 | 330 | 116 | 120 | | | | | | |
| | | | 630 | 84 | 485 | 125 | 132 | | | | | | |
| | | | 700 | 110 | 640 | 135 | X | | | | | | |
| | | | 800 | 190 | 1090 | 136 | X | | | | | | |
| | | | 1200 | 1300 | 700 | 110 | 640 | | | X | 146 | 100kA @ 1200V | 100kA @ 1300V |
| | | | | | 900 | 250 | 1090 | | | 150 | X | | |
| | 1100 | 1200 | | | 800 | 190 | 1090 | X | 148 | 150kA @ 1100V | 150kA @ 1200V | | |
| | | | | | 900 | 250 | 1440 | X | 170 | 150kA @ 1000V | 150kA @ 1100V | | |
| | 1000 | 1100 | | | 1000 | 370 | 2130 | 152 | 168 | | | | |
| | | | | | 1100 | 445 | 2555 | 168 | 208 | | | | |
| | 950 | 1000 | 1100 | 445 | 2430(*) | 168 | X | 150kA @ 950V | 150kA @ 1000V | | | | |
| | 900 | 1000 | 1000 | 370 | 1920(*) | X | 174 | 150kA @ 900V | 150kA @ 1000V | | | | |
| | | | 1100 | 445 | 2280(*) | X | 208 | | | | | | |
| | | | 1250 | 585 | 3080(*) | 186 | X | | | | | | |
| | | | 1400 | 755 | 4100(*) | 210 | X | | | | | | |
| | 850 | 900 | 1400 | 755 | 3700(*) | 210 | X | 150kA @ 850V | 150kA @ 900V | | | | |
| | 690 | 700 | 1500 | 1180 | 4750(*) | 200 | X | 180kA @ 690V | 180kA @ 700V | | | | |
| | | | 1600 | 1430 | 5740(*) | 203 | X | | | | | | |
| 600 | 650 | 1800 | 2040 | 7150(*) | 206 | X | 120kA @ 600V | 120kA @ 650V | | | | | |
| 2 x 72 | 1250 | | 630 | 60 | 348 | 160 | | 100kA @ 1250V | | | | | |
| | | | 700 | 84 | 480 | 162 | | | | | | | |
| | | | 800 | 130 | 760 | 168 | | | | | | | |
| | | | 900 | 176 | 1020 | 183 | | | | | | | |
| | | | 1000 | 228 | 1320 | 197 | | | | | | | |
| | | | 1100 | 272 | 1560 | 231 | | | | | | | |
| | 1100 | | | 1250 | 426 | 2440 | 237 | | 100kA @ 1100V | | | | |
| | | | | 1400 | 568 | 3260 | 256 | | | | | | |
| | | | | 1600 | 860 | 4895 | 262 | | 100kA @ 1000V | | | | |
| | | | | 1800 | 1250 | 6350(*) | 275 | | 100kA @ 900V | | | | |
| | | | | 2000 | 1760 | 7570(*) | 285 | | 100kA @ 750V | | | | |
| | | | | 2200 | 2410 | 8350(*) | 320 | | 100kA @ 650V | | | | |
| 2 x 73 | 1250 | | 800 | 100 | 580 | 195 | | 100kA @ 1250V | | | | | |
| | | | 900 | 142 | 820 | 208 | | | | | | | |
| | | | 1000 | 176 | 1000 | 231 | | | | | | | |
| | | | 1100 | 228 | 1300 | 244 | | | | | | | |
| | | | 1250 | 336 | 1900 | 262 | | | | | | | |
| | | | 1400 | 440 | 2600 | 283 | | | | | | | |
| | 1100 | | | 1600 | 760 | 4400 | 286 | | 100kA @ 1100V | | | | |
| | | | | 1800 | 1000 | 5800 | 315 | | | | | | |
| | | | | 2000 | 1480 | 8500 | 319 | | 120kA @ 1000V | | | | |
| | | | | 2200 | 1780 | 9632(*) | 353 | | 100kA @ 950V | | | | |
| | | | | 2500 | 2340 | 12075(*) | 390 | | 110kA @ 900V | | | | |
| | | | | 2800 | 3000 | 15000(*) | 440 | | 100kA @ 850V | | | | |
| 600 | | 3000 | 4980 | 15700(*) | 405 | | 200kA @ 600V | | | | | | |
| | | 3200 | 5720 | 19030(*) | 426 | | | | | | | | |
| | | 3600 | 8160 | 25200(*) | 430 | | 200kA @ 550V | | | | | | |
| | | | | | | | | | | | | | |

(1) at 850 V

(2) does not exist with blades

Semiconductor (AC) fuses

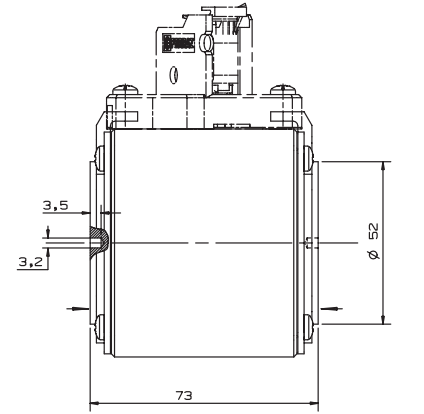


Protistor® Square-body Fuses

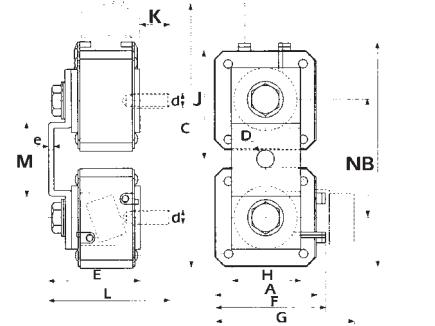
PSC aR sizes 7x - 650 V to 1300 VAC

IEC Terminals - French 272 - 273 End contacts

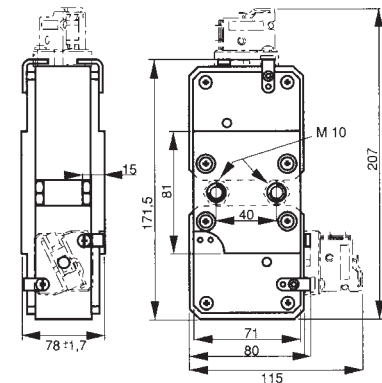
| Size | Designation | Reference Number | Weight (g) | Packaging | Catalog Number |
|-----------------------|-----------------------|------------------|------------|-----------|------------------|
| 73 | 12,5 URD 73 PPAF 0315 | H300640 | 1250 | 1 | PC73UD13C315PP4 |
| | 12,5 URD 73 PPAF 0350 | J300641 | | | PC73UD13C350PP4 |
| | 12,5 URD 73 PPAF 0400 | K300642 | | | PC73UD13C405PP4 |
| | 12,5 URD 73 PPAF 0450 | L300643 | | | PC73UD13C450PP4 |
| | 12,5 URD 73 PPAF 0500 | M300644 | | | PC73UD13C500PP4 |
| | 12,5 URD 73 PPAF 0550 | N300645 | | | PC73UD13C550PP4 |
| | 12,5 URD 73 PPAF 0630 | P300646 | | | PC73UD13C630PP4 |
| | 12,5 URD 73 PPAF 0700 | Q300647 | | | PC73UD13C700PP4 |
| | 12,5 URD 73 PPAF 0800 | R300648 | | | PC73UD13C800PP4 |
| | 12 URD 73 PPAF 0900 | S300649 | | | PC73UD12C900PP4 |
| | 10 URD 73 PPAF 1000 | T300650 | | | PC73UD10C10CPP4 |
| | 9,5 URD 73 PPAF 1100 | V300651 | | | PC73UD95V11CPP4 |
| | 9 URD 73 PPAF 1250 | T300719 | | | PC73UD90V13CPP4 |
| 8,5 URD 73 PPAF 1400 | V300720 | PC73UD85V14CPP4 | | | |
| 2 x 72 | 12,5 URD 272 TTF 0630 | W300721 | 1900 | 1 | PC272UD13C630TTF |
| | 12,5 URD 272 TTF 0700 | X300722 | | | PC272UD13C700TTF |
| | 12,5 URD 272 TTF 0800 | Y300723 | | | PC272UD13C800TTF |
| | 12,5 URD 272 TTF 0900 | Z300724 | | | PC272UD13C900TTF |
| | 12,5 URD 272 TTF 1000 | A300725 | | | PC272UD13C10CTF |
| | 12,5 URD 272 TTF 1100 | B300726 | | | PC272UD13C11CTF |
| | 11 URD 272 TTF 1250 | M302231 | | | PC272UD11C13CTF |
| | 11 URD 272 TTF 1400 | D300728 | | | PC272UD11C14CTF |
| | 10 URD 272 TTF 1600 | L302230 | | | PC272UD10C16CTF |
| | 9 URD 272 TTF 1800 | E301994 | | | PC272UD90V18CTF |
| | 7,5 URD 272 TTF 2000 | F301995 | | | PC272UD75V20CTF |
| | 6,5 URD 272 TTF 2200 | G301996 | | | PC272UD65V22CTF |
| | 6,5 URD 272 TTF 2500 | H301997 | | | PC272UD65V25CTF |
| 2 x 73 | 12,5 URD 273 TTF 0800 | F300730 | 2600 | 1 | PC273UD13C800TTF |
| | 12,5 URD 273 TTF 0900 | G300731 | | | PC273UD13C900TTF |
| | 12,5 URD 273 TTF 1000 | H300732 | | | PC273UD13C10CTF |
| | 12,5 URD 273 TTF 1100 | J300733 | | | PC273UD13C11CTF |
| | 12,5 URD 273 TTF 1250 | K300734 | | | PC273UD13C13CTF |
| | 11 URD 273 TTF 1400 | K302229 | | | PC273UD11C14CTF |
| | 11 URD 273 TTF 1600 | J302228 | | | PC273UD11C16CTF |
| | 11 URD 273 TTF 1800 | S302236 | | | PC273UD11C18CTF |
| | 10 URD 273 TTF 2000 | P300738 | | | PC273UD10C20CTF |
| | 9,5 URD 273 TTF 2200 | Q300739 | | | PC273UD95V22CTF |
| | 9,5 URD 273 PLAF 2200 | M301909 | | | PC76UD95V22CP11 |
| | 9 URD 273 PLAF 2500 | R300740 | | | PC76UD90V25CP11 |
| | 8,5 URD 273 PLAF 2800 | S300741 | | | PC76UD85V28CP11 |
| 6 URD 273 PLAF 3000 | K301999 | PC76UD60V30CP11 | | | |
| 6 URD 273 PLAF 3200 | M302001 | PC76UD60V32CP11 | | | |
| 5,5 URD 273 PLAF 3600 | N302002 | PC76UD55V36CP11 | | | |



73 PPAF



272 & 273 TTF



273 PLAF

Microswitches and threaded studs supplied separately

| | A | B | C | D | E | F | G | H | J | K | d | e | L | M | N |
|------------|------|-------|-----|----|----|------|-----|----|----|----|------|---|-----|----|----|
| 2 x 72 TTF | 60 | 138,5 | 172 | 11 | 91 | 65,5 | 100 | 35 | 66 | 39 | M 10 | 4 | 131 | 48 | 72 |
| 2 x 73 TTF | 74,5 | 167 | 200 | 13 | 91 | 79,5 | 114 | 50 | 80 | 39 | M 12 | 4 | 131 | 54 | 86 |

Note:
Dimensions in mm