

CYLINDRICAL FUSES

gG CYLINDRICAL FUSES

22x58

| I _n (A) | REFERENCE | | U (V) | BREAKING CAPACITY (kA) | REFERENCE WITH STRIKER | U (V) | BREAKING CAPACITY (kA) | PACKING Uni./BOX |
|-----------------------|-------------------|----------------|----------|---------------------------|---------------------------|----------|---------------------------|---------------------|
| | WITHOUT INDICATOR | WITH INDICATOR | | | | | | |
| 2 | 422002 | 422102 | 690 | 80 | - | - | - | 10/50 |
| 4 | 422004 | 422104 | 690 | 80 | 422204 | 690 | 80 | 10/50 |
| 6 | 422006 | 422106 | 690 | 80 | 422206 | 690 | 80 | 10/50 |
| 8 | 422008 | 422108 | 690 | 80 | 422208 | 690 | 80 | 10/50 |
| 10 | 422010 | 422110 | 690 | 80 | 422210 | 690 | 80 | 10/50 |
| 12 | 422012 | 422112 | 690 | 80 | 422212 | 690 | 80 | 10/50 |
| 16 | 422016 | 422116 | 690 | 80 | 422216 | 690 | 80 | 10/50 |
| 20 | 422020 | 422120 | 690 | 80 | 422220 | 690 | 80 | 10/50 |
| 25 | 422025 | 422125 | 690 | 80 | 422225 | 690 | 80 | 10/50 |
| 32 | 422032 | 422132 | 690 | 80 | 422232 | 690 | 80 | 10/50 |
| 40 | 422040 | 422140 | 690 | 80 | 422240 | 690 | 80 | 10/50 |
| 50 | 422050 | 422150 | 690 | 80 | 422250 | 690 | 80 | 10/50 |
| 63 | 422063 | 422163 | 690 | 80 | 422263 | 690 | 80 | 10/50 |
| 80 | 422080 | 422180 | 500 | 120 | 422280 | 500 | 120 | 10/50 |
| 100 | 422000 | 422100 | 500 | 120 | 422200 | 500 | 120 | 10/50 |
| 125* | 422015 | 422115 | 400 | 120 | 422215 | 400 | 120 | 10/50 |

* OVERRATING FUSES



gG aM NEUTRAL LINKS

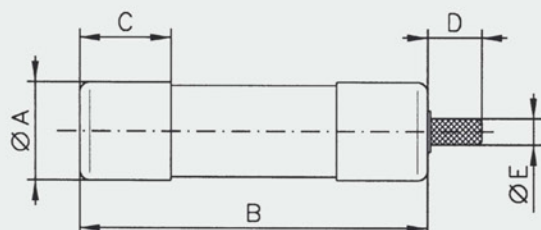
8x32
10x38
14x51
22x58

| SIZE | REFERENCE | PACKING Uni./BOX |
|-------|-----------|---------------------|
| 8x31 | 430000 | 10/100 |
| 10x38 | 431000 | 10/100 |
| 14x51 | 432000 | 10/50 |
| 22x58 | 433000 | 10/50 |



431000

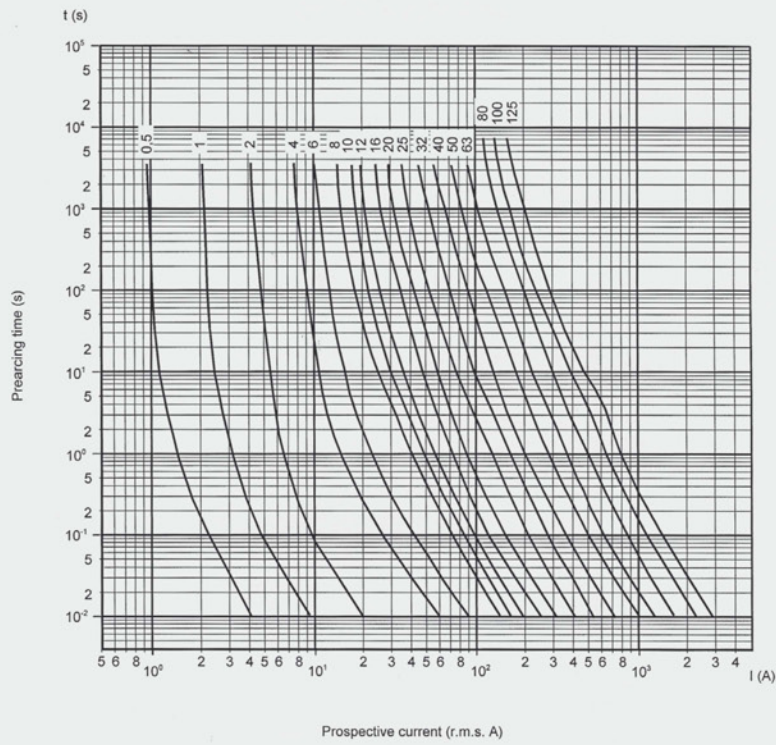
TECHNICAL gG CYLINDRICAL FUSES DIMENSIONS



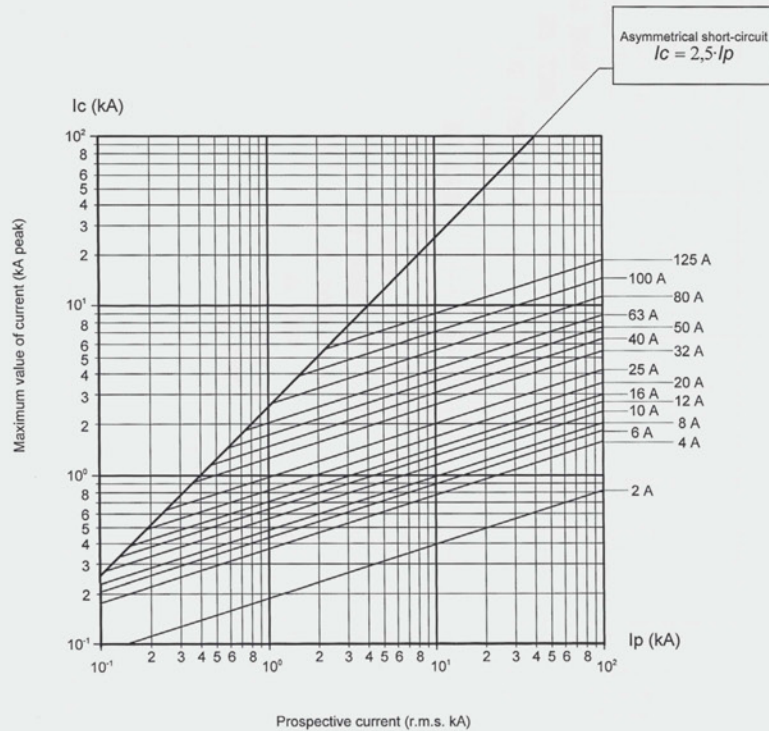
| SIZE | A | B | C | D | E |
|----------|------|------|------|---|---|
| 8,5x31,5 | 8,5 | 31,5 | 6,3 | - | - |
| 10,3x38 | 10,3 | 38 | 8,5 | - | - |
| 14,3x51 | 14,3 | 51 | 11,5 | 8 | 4 |
| 22,2x58 | 22,2 | 58 | 15,5 | 8 | 4 |

COMPATIBLE
PMP PANEL MOUNTING
& PMP SOCKET FUSE
HOLDERS

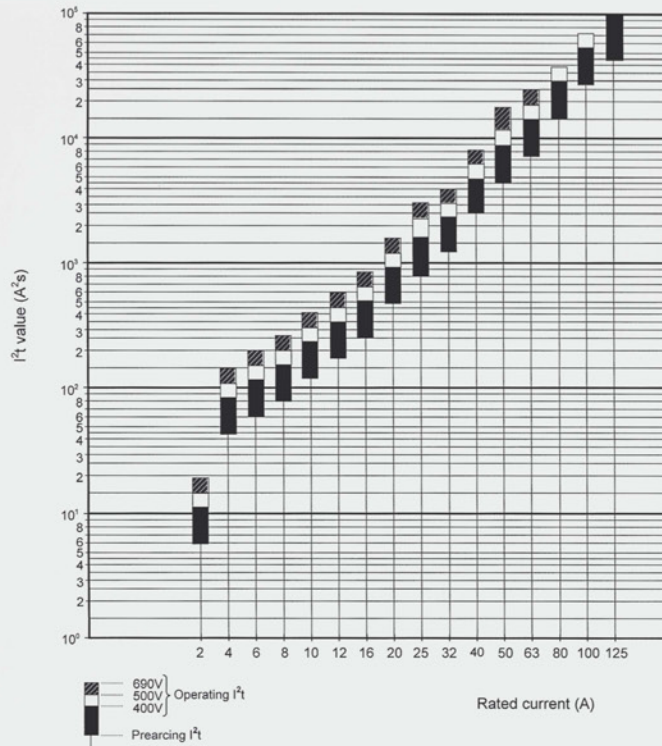
TECHNICAL
gG CYLINDRICAL FUSES
t-I CHARACTERISTICS



TECHNICAL
gG CYLINDRICAL FUSES
CUT-OFF CHARACTERISTICS



TECHNICAL **gG** CYLINDRICAL FUSES
I²t CHARACTERISTICS



TECHNICAL **gG** CYLINDRICAL FUSES
POWER DISSIPATION

| I _n (A) | SIZE | | | |
|-----------------------|---------------|--------------|--------------|--------------|
| | 8,5x32 (W) | 10x38 (W) | 14x51 (W) | 22x58 (W) |
| 0,5 | 1,2 | 1,43 | – | – |
| 1 | 2,0 | 2,77 | 3,90 | – |
| 2 | 0,5 | 0,60 | 0,90 | 1,00 |
| 4 | 0,8 | 0,70 | 1,00 | 1,10 |
| 6 | 1,1 | 0,85 | 1,15 | 1,30 |
| 8 | 1,3 | 0,75 | 1,00 | 1,10 |
| 10 | 1,0 | 1,00 | 1,30 | 1,50 |
| 12 | 1,2 | 1,30 | 1,70 | 1,80 |
| 16 | 1,5 | 1,60 | 2,00 | 2,10 |
| 20 | 2,0 | 2,00 | 2,50 | 2,70 |
| 25 | – | 2,60 | 3,30 | 3,30 |
| 32 | – | 2,90 | 3,50 | 3,50 |
| 40 | – | – | 4,75 | 4,00 |
| 50 | – | – | 4,80 | 5,50 |
| 63 | – | – | – | 6,90 |
| 80 | – | – | – | 7,80 |
| 100 | – | – | – | 9,00 |
| 125 | – | – | – | 11,4 |

TECHNICAL

gG CYLINDRICAL FUSES DC APPLICATIONS

Fuses are generally suitable for both AC and DC applications. The DC performance of fuse-links is different and AC ratings cannot be used for DC applications. There is no simple rule that safely converts an AC voltage rating of a fuse-link to DC voltage rating. For this reason it is necessary to take into account a lot of aspects in order to determine the DC applications.

In the **DF ELECTRIC gG cylindrical fuses** it is necessary to take into account the following considerations:

- The power dissipations are the same in AC (RMS value) and the DC values.
- The time current characteristics are the same for DC applications under steady-state conditions.
- The DC rated voltage and maximum breaking capacity are lower than the AC values (see the table).

| SIZE | RATED CURRENT | MAX. DC VOLTAGE | DC BREAKING CAPACITY |
|-----------------|--------------------------------|-----------------------------|----------------------|
| 8,5x31,5 | 0,5A...10A 12A...20A | 150V DC 60V DC | 5 kA |
| 10x38 | 0,5A...16A 20A...32A | 250V DC 80V DC | 15 kA |
| 14x51 | 1A...25A 32A & 40A 50A | 440V DC 80V DC 48V DC | 15 kA |
| 22x58 | 2A...63A 80A & 100A 125A | 440V DC 80V DC 48V DC | 15 kA |

NOTES

These values are referred to a time constant L/R = 15 ms.

For higher values of time constant, the maximum utilization voltage must be reduced.

For circuits with very inductive behaviour, we recommend to connect two fuses in series.