

Other Protistor® Fuses Ferrule Fuses 10x38 gRB - 690VAC

690V AC
gRB - from 1 up to 30 A
Size: 10x38



The fuse preselection table below indicates: 

- rated current (or rating) I_N
- pre-arcing I^2t (I^2t_D) at 1 ms
- total operating I^2t (I^2t_{tt}) at 690V, $\cos \varphi=0.15$, 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
- Nominal breaking capacity, checked by tests made in accordance with IEC standard.

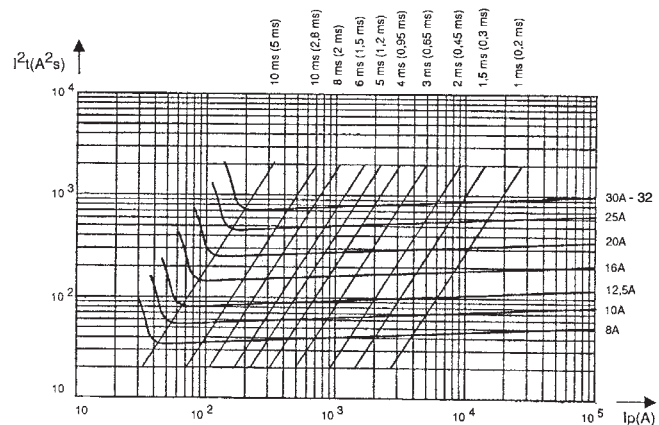
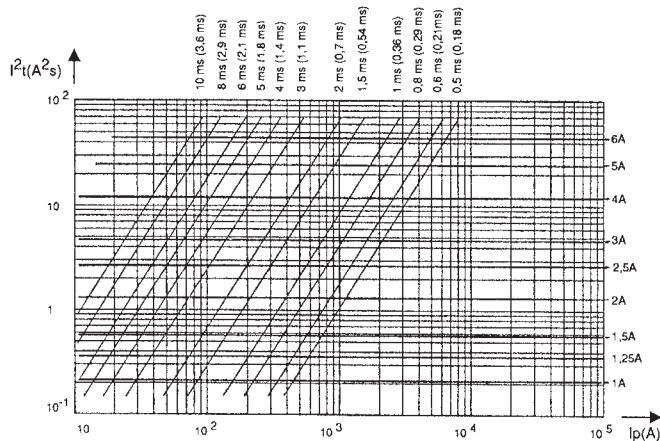
| Voltage Rating (VAC) | Rated current I_N (A) | Pre-arcing I^2t I^2t_p (A ² s) | Total I^2t at 660VAC I^2t_{tt} (A ² s) | Dissipated power | | Peak arc voltage (V) | Breaking capacity I (kA) |
|----------------------|-------------------------|---|---|------------------|------------------|----------------------|--------------------------|
| | | | | at I_N (W) | at 0.8 I_N (W) | | |
| 690 | 1 | 0,075 | 0,28 | 0,9 | 0,52 | 2500 | 160 kA 690 V (IEC) |
| | 1,25 | 0,115 | 0,36 | 1,25 | 0,7 | | |
| | 1,5 | 0,185 | 0,57 | 1,5 | 0,81 | | |
| | 2 | 0,42 | 1,3 | 2 | 1,1 | | |
| | 2,5 | 0,88 | 2,7 | 2,1 | 1,15 | | |
| | 3 | 1,55 | 4,6 | 2,3 | 1,25 | | |
| | 4 | 4 | 12 | 2,6 | 1,35 | | |
| | 5 | 8,6 | 25 | 2,7 | 1,4 | | |
| | 6 | 15 | 44 | 2,9 | 1,5 | | |
| | 8 | 3,3 | 33 | 2,4 | 1,35 | 1450 | |
| | 10 | 5,4 | 55 | 3,4 | 1,85 | | |
| | 12,5 | 8,5 | 82 | 3,4 | 1,9 | | |
| | 16 | 16 | 145 | 4,1 | 2,3 | | |
| | 20 | 230 | 250 | 4,3 | 2,4 | | |
| | 25 | 58 | 470 | 4,7 | 2,7 | | |
| 30 (32*) | 96 | 740 | 5 | 2,9 | | | |

* Non approval rating

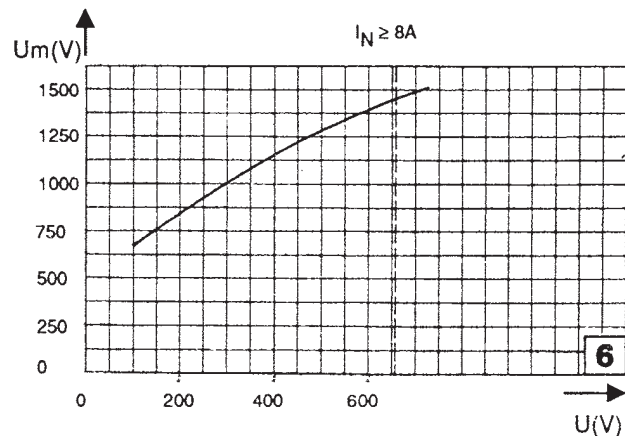
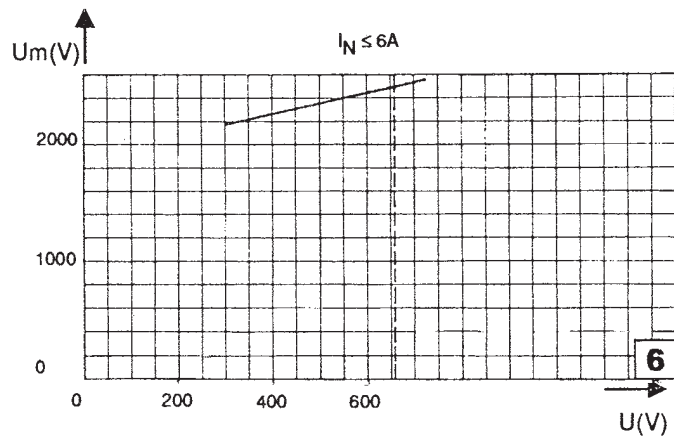
Semiconductor (AC) fuses

Other Protistor® Fuses French Ferrule 10x38 gRB - 690VAC

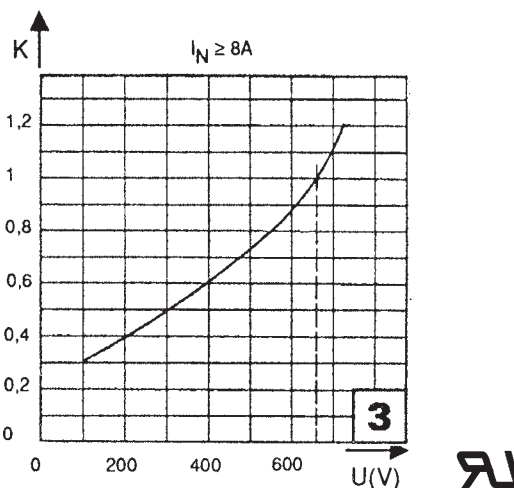
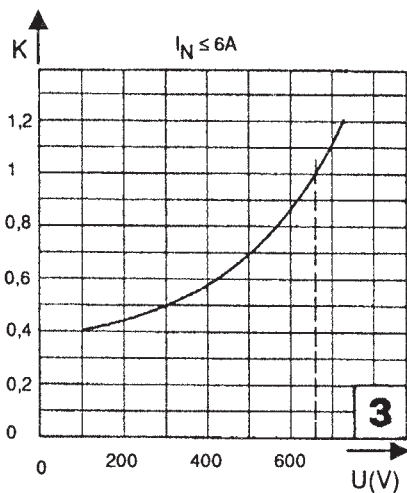
Maximum values of total operating I^2t and total operating times



Arc voltage

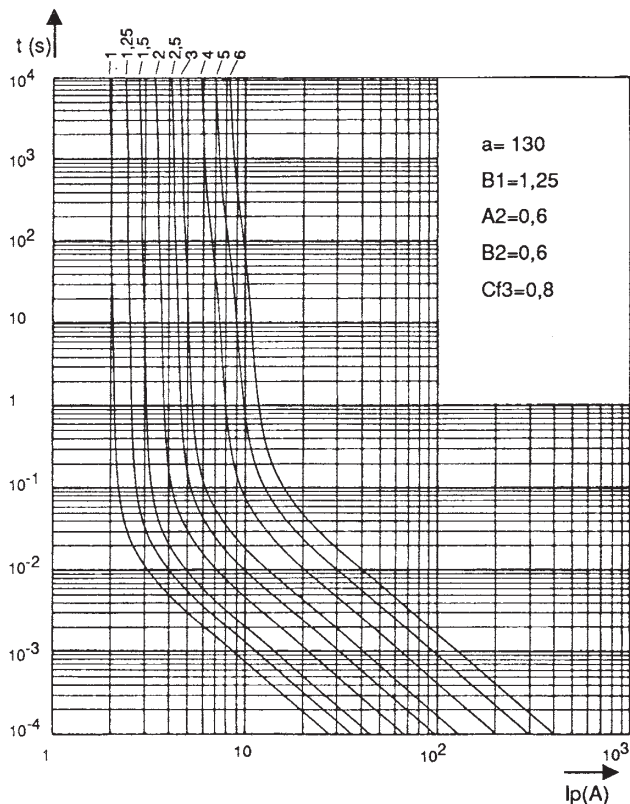


Multiplier coefficient

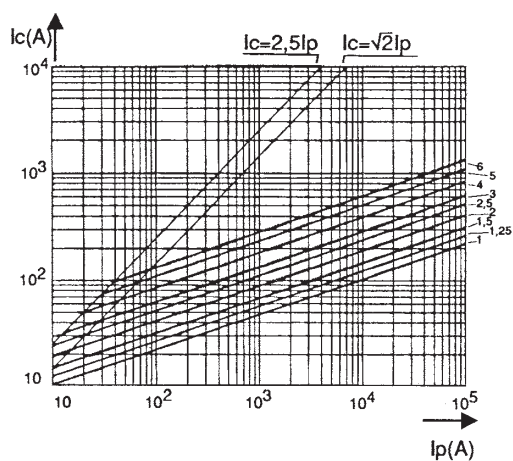


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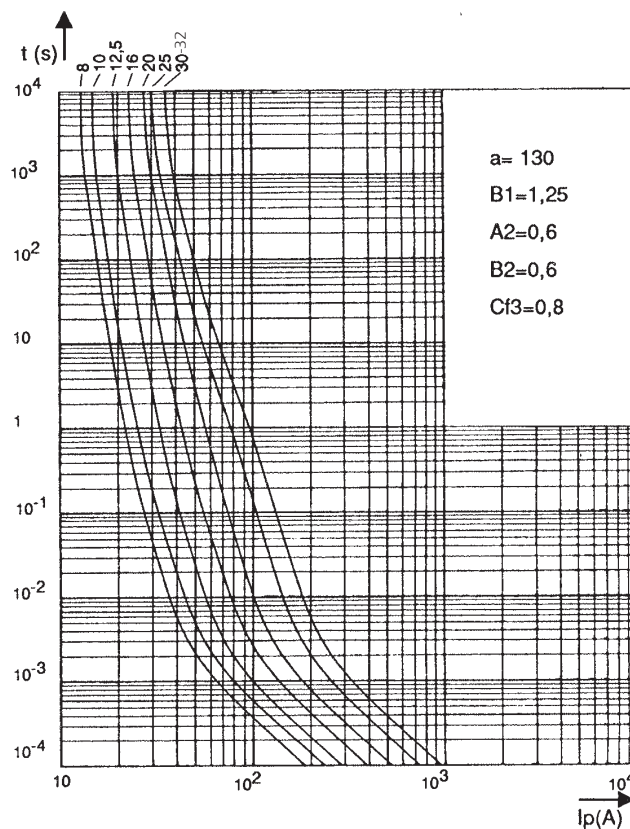
Time-current characteristics (1 to 6 A)



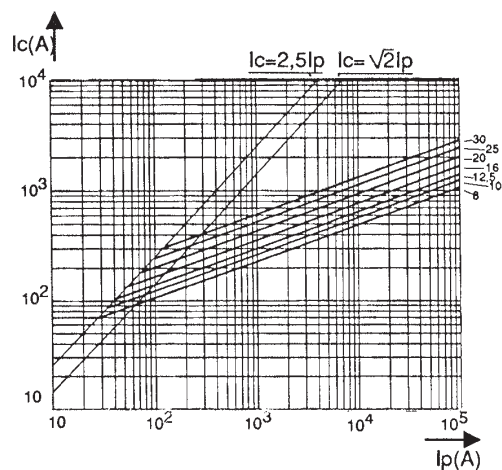
Cut-off characteristics



Time-current characteristics (8 to 30 A)



Cut-off characteristics



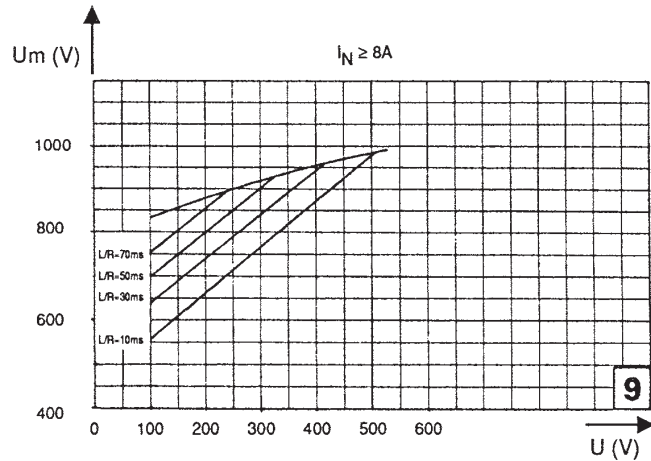
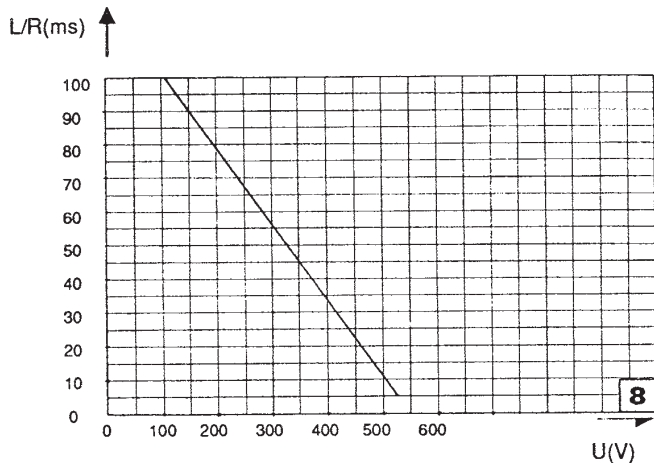
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Dimensions / Reference / Ref. No. 

| Rating (A) | Designation | Ref. Number | Catalog Number |
|------------|-------------------------------------|-------------|----------------|
| 1 | 6,9 gRC 10-01 - A070 gRC 01 T13 | Z330279 | FR10GB69V1 |
| 1,25 | 6,9 gRB 10-1,25 - A070 gRB 1.25 T13 | X330001 | FR10GB69V1.25 |
| 1,5 | 6,9 gRB 10-1,5 - A070 gRB 1.5 T13 | Y330002 | FR10GB69V1.5 |
| 2 | 6,9 gRB 10-02 - A070 gRB 02 T13 | Z330003 | FR10GB69V2 |
| 2,5 | 6,9 gRB 10-2,5 - A070 gRB 2.5 T13 | A330004 | FR10GB69V2.5 |
| 3 | 6,9 gRB 10-03 - A070 gRB 03 T13 | B330005 | FR10GB69V3 |
| 4 | 6,9 gRB 10-04 - A070 gRB 04 T13 | C330006 | FR10GB69V4 |
| 5 | 6,9 gRB 10-05 - A070 gRB 05 T13 | D330007 | FR10GB69V5 |
| 6 | 6,9 gRB 10-06 - A070 gRB 06 T13 | E330008 | FR10GB69V6 |
| 8 | 6,9 gRB 10-08 - A070 gRB 08 T13 | F330009 | FR10GB69V8 |
| 10 | 6,9 gRB 10-10 - A070 gRB 10 T13 | G330010 | FR10GB69V10 |
| 12,5 | 6,9 gRB 10-12,5 - A070 gRB 12.5 T13 | H330011 | FR10GB69V12.5 |
| 16 | 6,9 gRB 10-16 - A070 gRB 16 T13 | J330012 | FR10GB69V16 |
| 20 | 6,9 gRB 10-20 - A070 gRB 20 T13 | K330013 | FR10GB69V20 |
| 25 | 6,9 gRB 10-25 - A070 gRB 25 T13 | L330014 | FR10GB69V25 |
| 30 | 6,9 gRB 10-30 - A070 gRB 30T13 | M330015 | FR10GB69V30 |
| 32* | 6,9 gRB 10-32 - A070 gRB 32T13 | Y330278 | FR10GB69V32 |

* Non approval rating

DC working voltage possibilities



↑ Above: Curve indicating the maximum time constant L/R of the fault path as a function of the DC voltage U , for the rated currents from 1 to 30 A of this range.

Time-current characteristics: Curves indicate, for each rated current, pre-arcing time as a function of RMS value of pre-arcing current I .

Tolerances on this current:

$\pm 10\%$ = ratings from 1 to 6 A

$\pm 9\%$ = ratings from 8 to 30 A

Fuses with "gR" characteristics can eliminate all overloads.

They do not show any minimum breaking capacity but limit currents of non-operation or operation in compliance with standard VDE 636/23.

Cut off characteristics: Curves indicate, for each rated current, the peak value I_c that the current may reach as a function of prospective fault current I_p .

Without trip-indicator
Max. weight 10g
Packaging: per 10 pieces

