

FRENCH CYLINDRICAL
URB/URQ

SEMICONDUCTOR PROTECTION FUSES



660V - 1000V AC
URB/URQ/URS from 32 up to 250A
SIZE: 27 X 60

Features/Benefits

- **Extremely high Interrupting rating Fuses:**
Protection of power Semiconductors according to IEC Standard 269.1 and 4
- **600V-1000V AC Voltage Rating**
- **aR Class** according to VDE 636-23 and IEC 269.4
- Model according to NF C 63210 and 63211 with built-in blown trip-indicator
- 660V URQ and 100V URB are UL Recognized

APPLICATIONS DATA

| Voltage rating U_N (VAC) | Class | Current rating I_N (A) | Pre-arcing $I^2_t @ 1 \text{ ms}$ I^2_{tp} (A ² s) | Total clearing $I^2_t @ U_N$ I^2_t (A ² s) | Watt losses | | Tested interrupting rating |
|-------------------------------|-------|-----------------------------|---|--|-------------|-------|----------------------------|
| | | | | | 0,8 I_N | I_N | |
| 660 V | URQ | 50 | 110 | 610 | 8.4 | 16 | 200 kA @ 660 V |
| | | 63 | 155 | 860 | 11.1 | 21 | |
| | | 80 | 350 | 1880 | 12.6 | 24 | |
| | | 100 | 625 | 3210 | 14.2 | 27 | |
| | | 125 | 1400 | 6970 | 15.7 | 30 | |
| | | 160 | 3150 | 15000 | 17.7 | 34 | |
| | | 200 | 6580 | 30000 | 19.4 | 38 | |
| | | 250 | 15570 | 63000 | 22.6 | 45 | |
| | | URS | 125 | 2790 | 13000 | 14.5 | |
| | URS | 160 | 5500 | 24000 | 17.5 | 30 | |
| 1000 V | URB | 32 | 33 | 250 | 7.4 | 14.5 | 100 kA @ 1000 V |
| | | 40 | 60 | 450 | 8.7 | 17 | |
| | | 50 | 110 | 840 | 9.7 | 19 | |
| | | 63 | 200 | 1470 | 11.3 | 22 | |
| | | 80 | 435 | 3300 | 12.3 | 24 | |
| | | 100 | 975 | 6000 | 14 | 27 | |
| | | 125 | 1910 | 12500 | 16 | 31 | |
| | | 160 | 3890 | 26700 | 18 | 35 | |
| | | 170 | 4710 | 36000 | 19 | 37 | |

* Minimum operating voltage for trip-indicator: 20 V

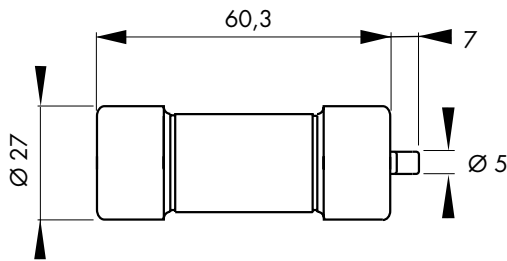
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PART NUMBERS



27x60 - With blown fuse trip-indicator

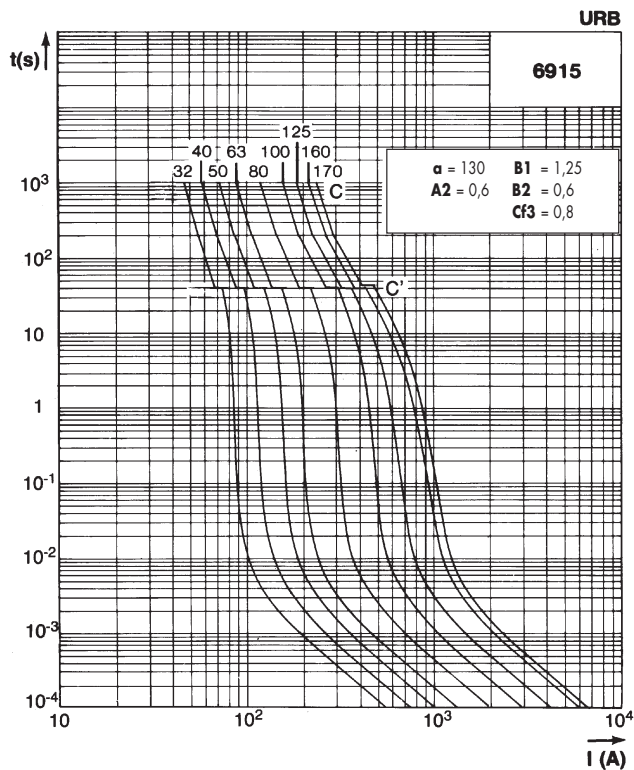
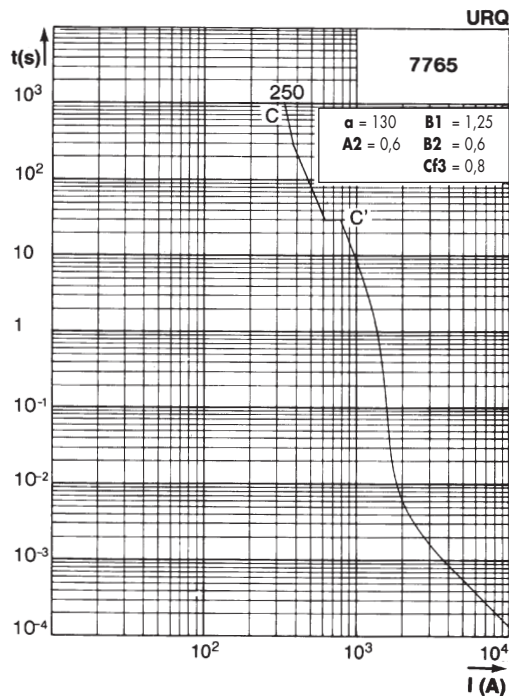
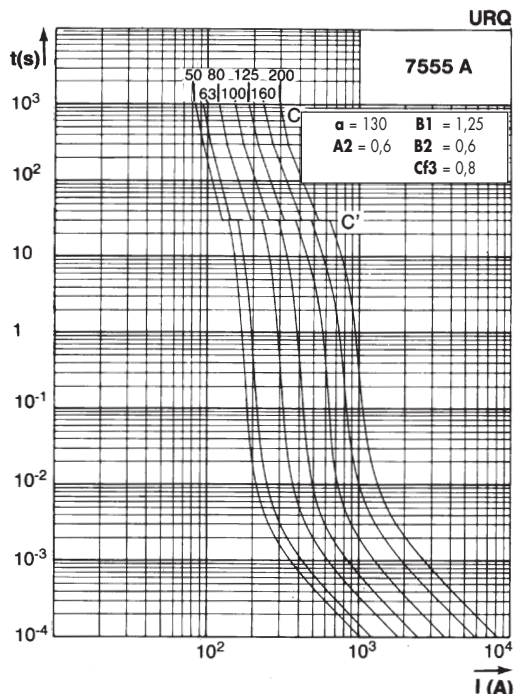


| TYPE | VOLTAGE | CURRENT RATING | CATALOG NO. | REF # |
|------|---------|----------------|------------------------|---------|
| URQ | 660 V | 50 A | 6.621 CP URQ 27x60/ 50 | N075958 |
| | | 63 A | 6.621 CP URQ 27x60/ 63 | V076309 |
| | | 80 A | 6.621 CP URQ 27x60/ 80 | W076310 |
| | | 100 A | 6.621 CP URQ 27x60/100 | R078330 |
| | | 125 A | 6.621 CP URQ 27x60/125 | S078331 |
| | | 160 A | 6.621 CP URQ 27x60/160 | X076311 |
| | | 200 A | 6.621 CP URQ 27x60/200 | T078332 |
| | | 250 A | 6.621 CP URQ 27x60/250 | T076308 |
| URB | 1000 V | 32 A | 1021 CP URB 27x60/ 32 | S081298 |
| | | 40 A | 1021 CP URB 27x60/ 40 | R081297 |
| | | 50 A | 1021 CP URB 27x60/ 50 | Q081296 |
| | | 63 A | 1021 CP URB 27x60/ 63 | P081295 |
| | | 80 A | 1021 CP URB 27x60/ 80 | N081294 |
| | | 100 A | 1021 CP URB 27x60/100 | M081293 |
| | | 125 A | 1021 CP URB 27x60/125 | L081292 |
| | | 160 A | 1021 CP URB 27x60/160 | K081291 |
| | | 170 A | 1021 CP URB 27x60/170 | Z080338 |



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MELTING TIME - CURRENT DATA

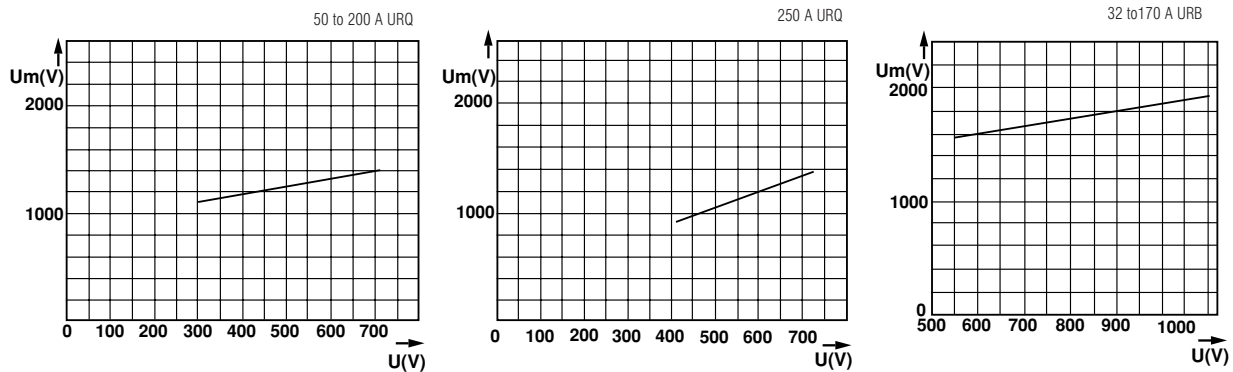


These curves indicate, for each rated current, the pre-arcing time vs. the R.M.S. pre-arcing current.

For each rated current tolerance for the mean pre-arcing current $\pm 8\%$.

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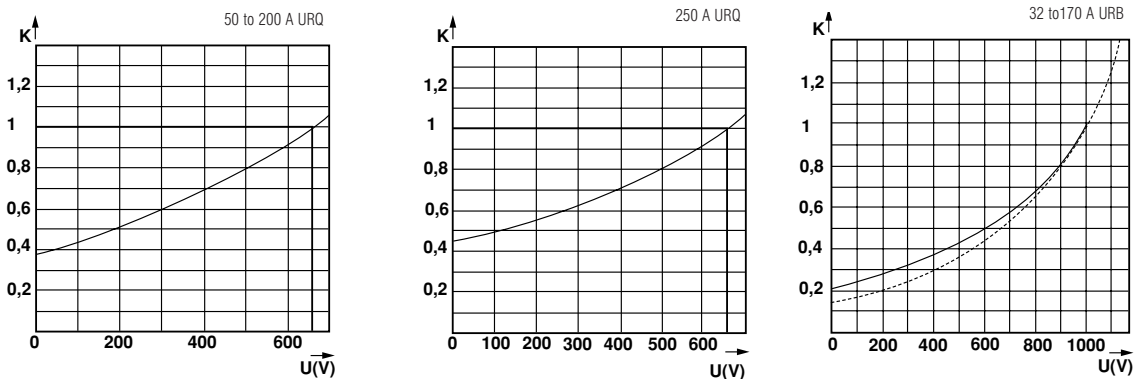
Peak Arc Voltage



Determines the peak arc voltage across the fuse terminals as a function of the applied voltage.

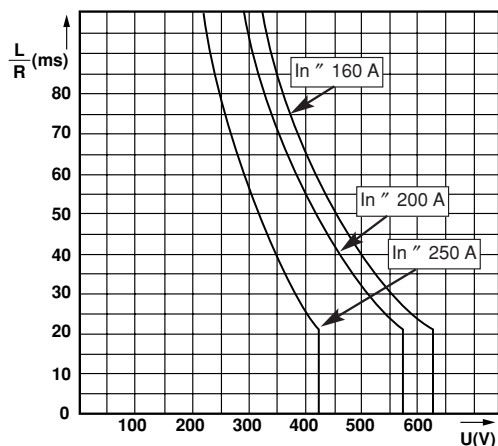


Clearing I^2t vs. Operating Voltage



Correction factor to determine the clearing I^2t for a fuse operating below its rated voltage.

DC voltage capability vs. Time Constant



Provides the DC voltage capabilities of the fuse as a function of circuit time constant. (L/R value)