

FRENCH CYLINDRICAL URC/URD

SEMICONDUCTOR PROTECTION FUSES



PROTISTOR® FUSES

660V AC

URC/URD from 6 up to 100A

SIZES: 14 X 51 & 22 X 58

Features/Benefits

- **Extremely high Interrupting rating Fuses:**
Protection of power Semiconductors according to IEC 269.1 and 4
- **660V AC Voltage Rating**
- **aR Class** according to VDE 636-23 and IEC 269.4
- **Two Models** according to NF C 63210 and 63211 with and without blown fuse built-in trip-indicator for sizes 14 x 51 and 22 x 58
- **UL RECOGNIZED** (Except 6A)*

APPLICATIONS DATA

Voltage rating U_N (VAC)	Size	Class	Current rating I_N (A)	Pre-arcing $I_2^t @ 1 \text{ ms}$ $I_2^t_p$ (A ² s)	Total clearing $I_2^t @ 660 \text{ V}$ (A ² s)		Watt losses		Tested interrupting rating	
					$0.8 I_N$	I_N	$0.8 I_N$	I_N		
660 V	14 x 51	URC	6	1.3	17.5*		1.1	2	100 kA @ 660 V	
			8	2.4	27.5		1.6	2.8		
			10	4.3	40		2	3.5		
			12	5.4	60		2.45	4.4		
			16	13.2	100		2.7	4.8		
			20	27	160		2.9	5.2		
			25	53	275		3.2	5.8		
			32	98	500		3.9	7		
			40 (1)	130	700		6	10.7		
	50 (1)	280	1500		6.3	11.6				
	22 x 58	URD	40 (2)	130	$7 I_N < I_p < 30 I_N$	850	700	6	10.7	100 kA @ 660 V
			50 (2)	280	$I_p \geq 30 I_N$	1850	1500	6.3	11.6	
		URD	25	22	125		5.2	10	100 kA @ 660 V	
			32	49	275		5.7	11		
			40	88	480		6.8	13		
50			155	800		7.8	14.9			
63	350	1850		8.4	16					
80	730	3800		9.4	17.8					
100	1560	8000		10	19					

* Without trip-indicator $I_2^t : 15 \text{ A}^2\text{s}$.

(1) No trip-indicator available for this model.

(2) Models available only with trip-indicator.

Minimum operating voltage for built-in trip-indicator: 20 V.

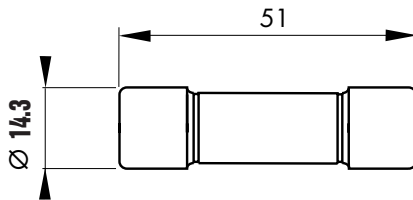
FRENCH CYLINDRICAL URC/URD

SEMICONDUCTOR PROTECTION FUSES

PART NUMBERS

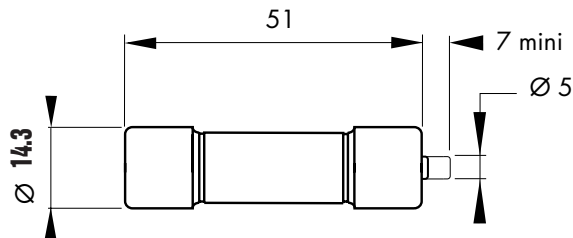
All the fuses presented on this page are (except 6 A)*

14x51 - Without blown fuse indication



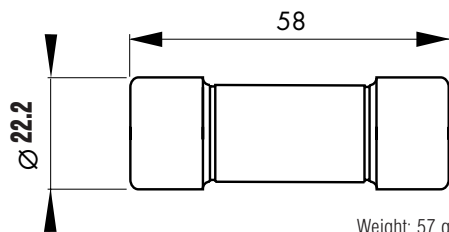
Weight : 18g
Packaging : 10 pieces

14x51 - With blown fuse trip-indicator



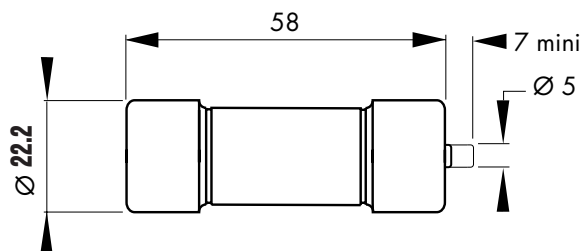
Weight : 18g
Packaging : 10 pieces

22x58 - Without blown fuse indication



Weight: 57 g
Packaging: 10 pieces

22x58 - With blown fuse trip-indicator



Weight: 57 g
Packaging: 10 pieces

CURRENT RATING	CATALOG NO.	REF #
6 A	6.600 CP URC 14.51/6*	K081475
8 A	6.600 CP URC 14.51/8	S093902
10 A	6.600 CP URC 14.51/10	T093903
12 A	6.600 CP URC 14.51/12	V093904
16 A	6.600 CP URC 14.51/16	W093905
20 A	6.600 CP URC 14.51/20	X093906
25 A	6.600 CP URC 14.51/25	Y093907
32 A	6.600 CP URC 14.51/32	Z093908
40 A	6.600 CP URC 14.51/40	A093909
50 A	6.600 CP URC 14.51/50	B093910

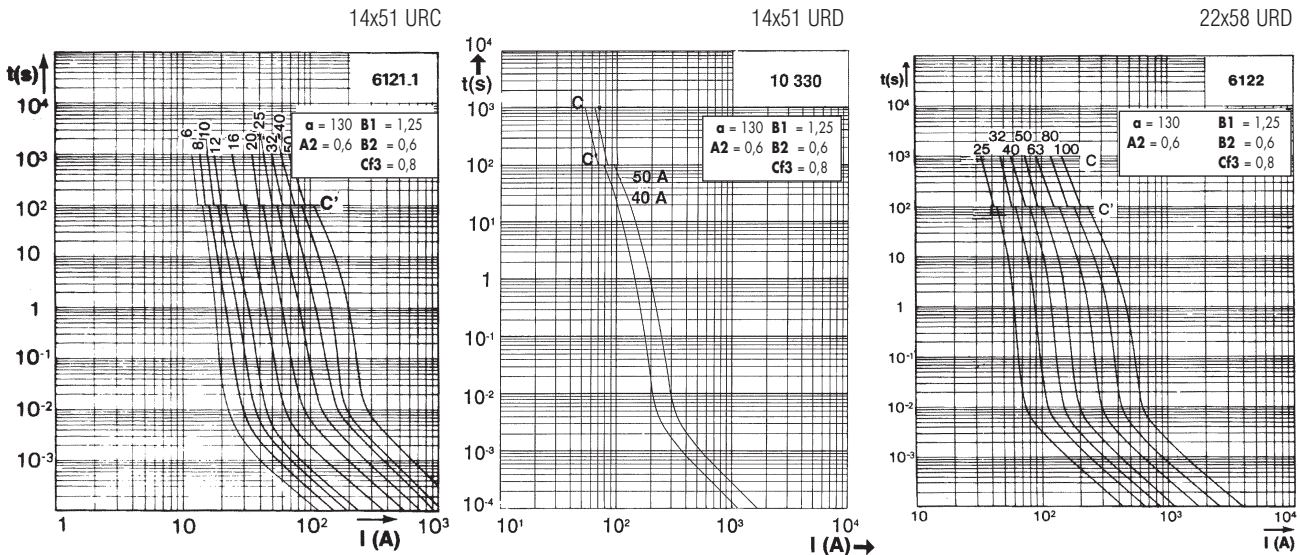
CURRENT RATING	CATALOG NO.	REF #
6 A	6.621 CP URC 14.51/6*	G081518
8 A	6.621 CP URC 14.51/8	C093911
10 A	6.621 CP URC 14.51/10	D093912
12 A	6.621 CP URC 14.51/12	E093913
16 A	6.621 CP URC 14.51/16	F093914
20 A	6.621 CP URC 14.51/20	G093915
25 A	6.621 CP URC 14.51/25	H093916
32 A	6.621 CP URC 14.51/32	J093917
40 A	6.621 CP URD 14.51/40	T100136
50 A	6.621 CP URD 14.51/50	V100137

CURRENT RATING	CATALOG NO.	REF #
25 A	6.600 CP URD 22x58/25	B093956
32 A	6.600 CP URD 22x58/32	Z094828
40 A	6.600 CP URD 22x58/40	S094822
50 A	6.600 CP URD 22x58/50	W094779
63 A	6.600 CP URD 22x58/63	T094823
80 A	6.600 CP URD 22x58/80	A094829
100 A	6.600 CP URD 22x58/100	Y094827

CURRENT RATING	CATALOG NO.	REF #
25 A	6.621 CP URD 22x58/ 25	H093801
32 A	6.621 CP URD 22x58/ 32	C093957
40 A	6.621 CP URD 22x58/ 40	J093802
50 A	6.621 CP URD 22x58/ 50	D093958
63 A	6.621 CP URD 22x58/ 63	K093803
80 A	6.621 CP URD 22x58/ 80	E093959
100 A	6.621 CP URD 22x58/100	F093960

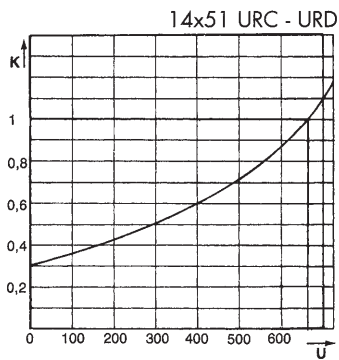


Melting Time-Current Data



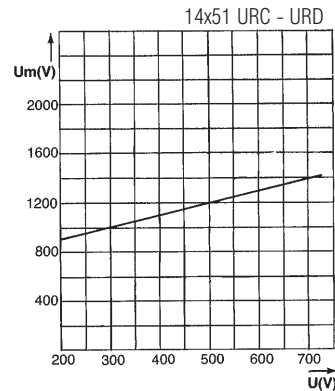
These curves indicate, for each rated current, the pre-arcing time vs. the R.M.S. pre-arcing current.
For each rated current tolerance for the mean pre-arcing current $\pm 10\%$.

Clearing I²t vs. Operating Voltage

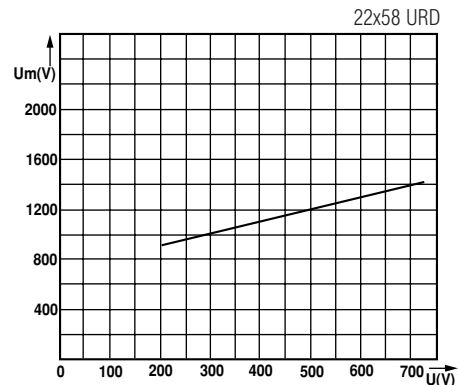
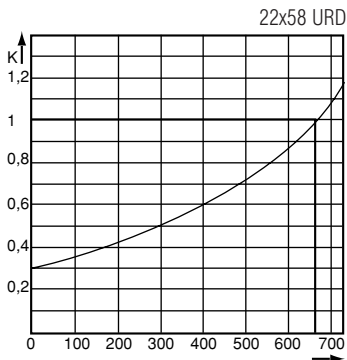


Correction Factor to determine the clearing I^2t value for a fuse operating below its rated voltage.

Peak arc voltage vs. Operating Voltage



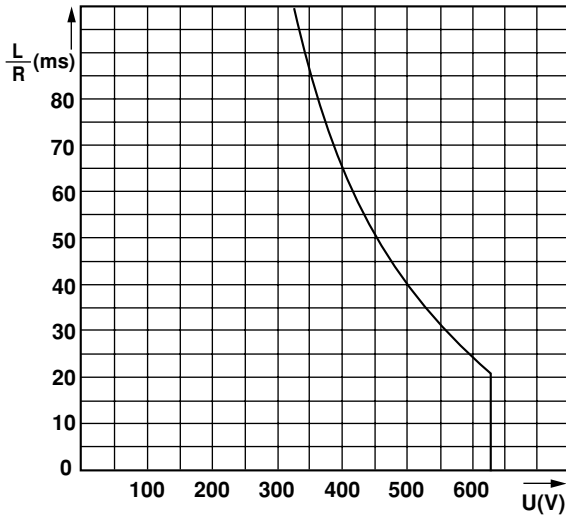
Correction in factor to determine the watts loss value of a fuse operating below its rated current.



D.C. Applications Data

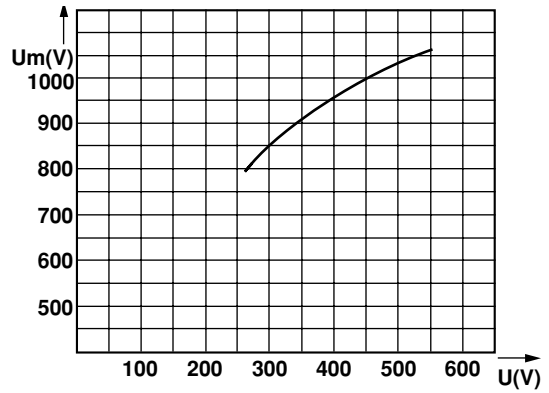
DC Voltage Capabilities vs. Time Constant

14x51 URC - URD



Peak Arc voltage vs. DC circuit voltage

14x51 URC - URD

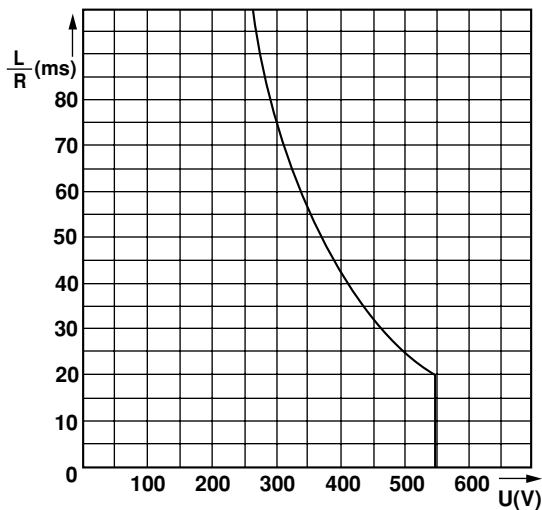


See melting-time current data for minimum breaking current.



DC Voltage Capabilities vs. Time Constant

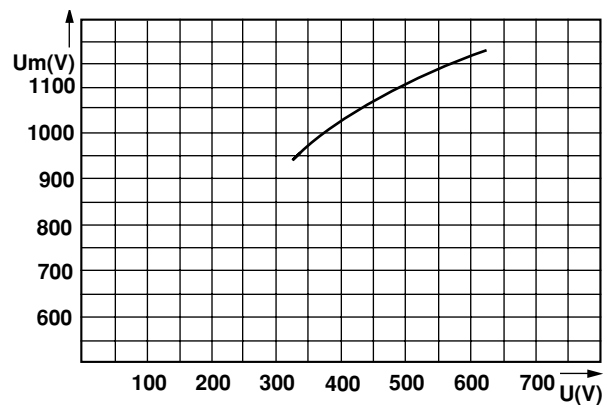
22x58 URD



These curves provide the DC voltage capability of the fuse as a function of circuit time constant. (L/R ratio)

Peak Arc voltage vs. DC circuit voltage

22x58 URD



These curves shows the peak value U_m of the arc voltage which appears across the fuse link as a function of the operating voltage U .