

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 _{2t} @ 1 ms I _{2t} _p (A ² s)	Total clearing I _{2t} @ (A ² s) 660 V		Watt losses		Tested interrupting rating
							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) 50 (2)	130 280	7 I _N < I _p < 30 I _N I _p ≥ 30 I _N		6 6.3	10.7 11.6	100 kA @ 660 V
					850 1850	700 1500			
		URD	25 32 40 50 63 80 100	22 49 88 155 350 730 1560	125 275 480 800 1850 3800 8000		5.2 5.7 6.8 7.8 8.4 9.4 10	10 11 13 14.9 16 17.8 19	100 kA @ 660 V

* Without trip-indicator I_2^t : 15 A²s.

(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.

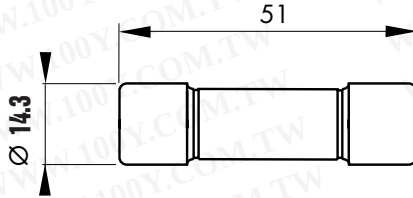
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PART NUMBERS

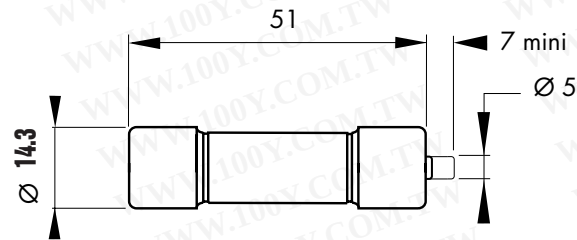
All the fuses presented on this page are  (except 6 A)*

14x51 - Without blown fuse indication



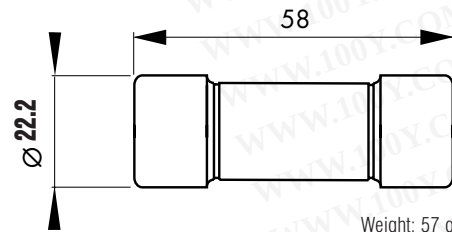
Weight : 18g
 Packaging : 10 pieces

14x51 - With blown fuse trip-indicator



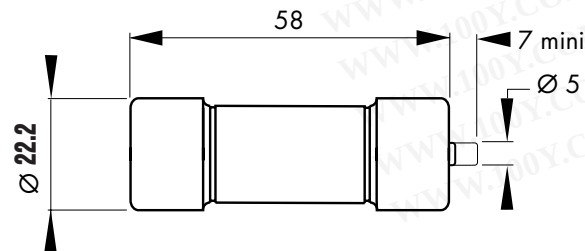
Weight : 18g
 Packaging : 10 pieces

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

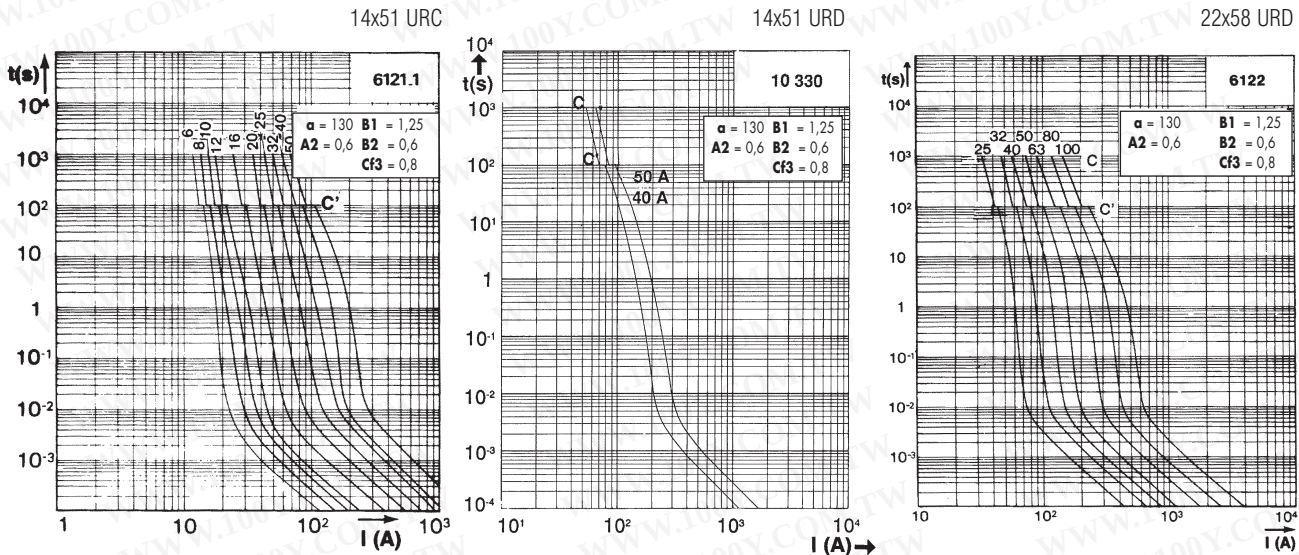
CURRENT RATING	CATALOG NO.	REF #
25 A	6.600 CP URD 22x58/25	B093956
32 A	6.600 CP URD 22x58/32	Z094828
40 A	6.600 CP URD 22x58/40	S094822
50 A	6.600 CP URD 22x58/50	W094779
63 A	6.600 CP URD 22x58/63	T094823
80 A	6.600 CP URD 22x58/80	A094829
100 A	6.600 CP URD 22x58/100	Y094827

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

FRENCH CYLINDRICAL URC/URD

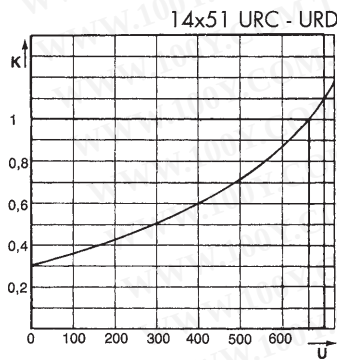
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Melting Time-Current Data



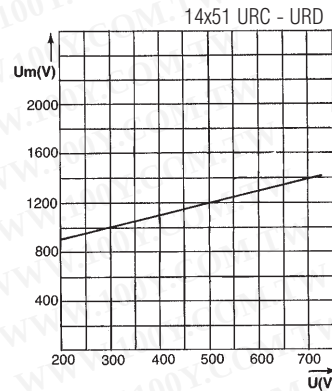
These curves indicate, for each rated current, the pre-arcing time vs. the R.M.S. pre-arcing current.
 For each rated current tolerance for the mean pre-arcing current $\pm 10\%$.

Clearing I²t vs. Operating Voltage

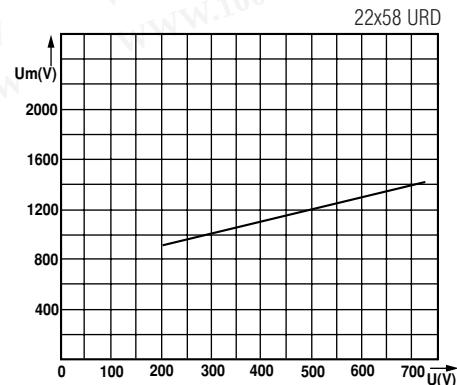
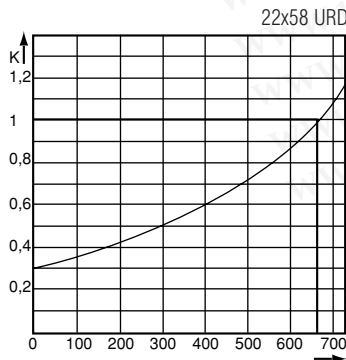


Correction Factor to determine the clearing I²t value for a fuse operating below its rated voltage.

Peak arc voltage vs. Operating Voltage



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



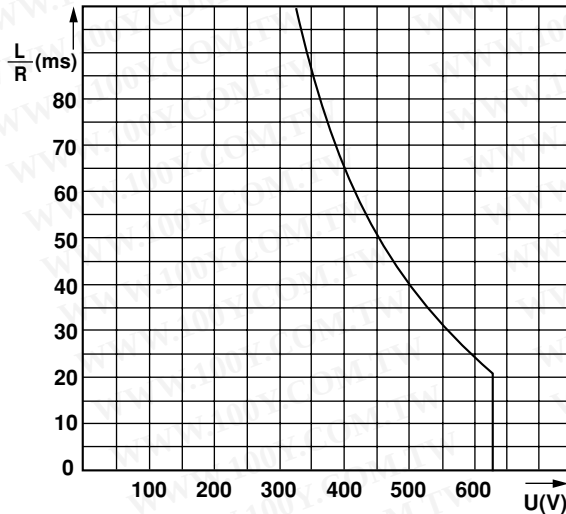
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D.C. Applications Data

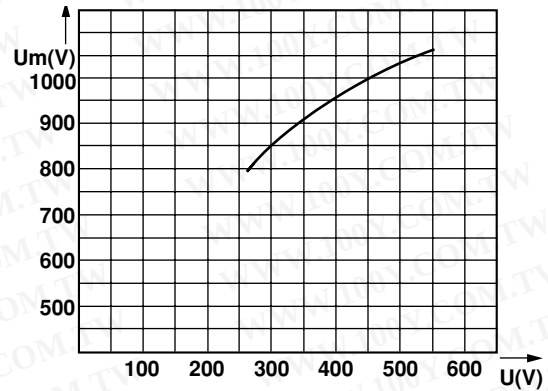
DC Voltage Capabilities vs. Time Constant

14x51 URC - URD



Peak Arc voltage vs. DC circuit voltage

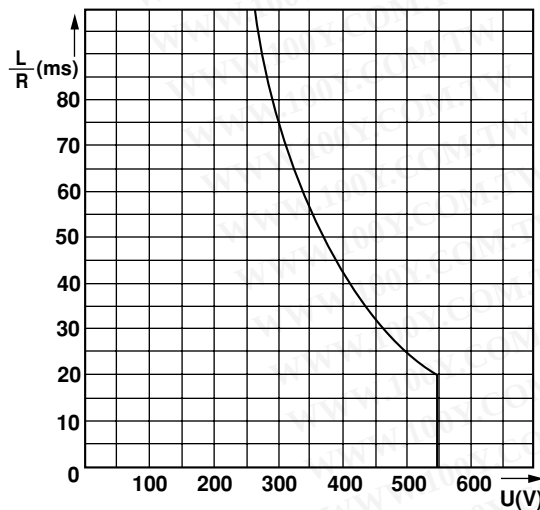
14x51 URC - URD



See melting-time current data for minimum breaking current.

DC Voltage Capabilities vs. Time Constant

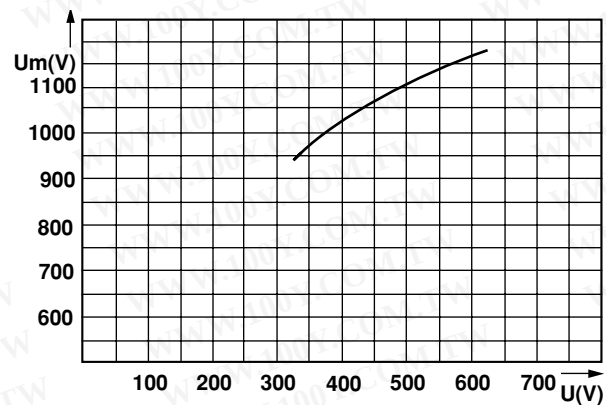
22x58 URD



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 .