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)*

D

APPLICATIONS DATA

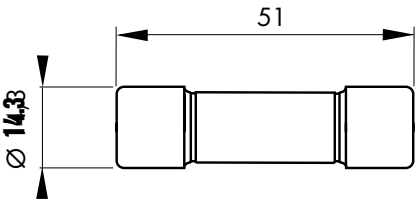
Voltage rating U_N(VAC)	Size	Class	Current rating I_N (A)	Melting I^2t @ 1 ms I^2t_p (A^2s)	Total clearing I^2t @ (A^2s) 660 V		Watt losses 0.8 I_N	Watt losses I_N	Tested interrupting rating
660 V	14 x 51	URC	6	1.3	17.5*		1.1	2	100 kA @ 660 V
			8	2.4	27.5		1.6	2.8	
			10	4.3	40		2	3.5	
			12	5.4	60		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	
					$7\ I_N < I_p < 30\ I_N$	$I_p \geq 30\ I_N$			
		URD	40 (2)	130	850	700	6	10.7	100 kA @ 660 V
			50 (2)	280	1850	1500	6.3	11.6	
	22 x 58	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^2t : 15 A^2s.
(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.

PART NUMBERS

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

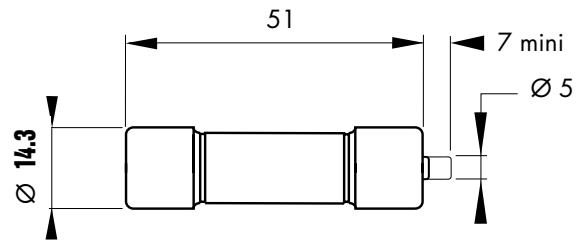
14x51 - Without blown fuse indication



Weight : 18g
Packaging : 10 pieces

CURRENT RATING	CATALOG NO.	REF #
6 A	6.600CPURC14.51/6*	K081475
8 A	6.600CPURC14.51/8	S093902
10 A	6.600CPURC14.51/10	T093903
12 A	6.600CPURC14.51/12	V093904
16 A	6.600CPURC14.51/16	W093905
20 A	6.600CPURC14.51/20	X093906
25 A	6.600CPURC14.51/25	Y093907
32 A	6.600CPURC14.51/32	Z093908
40 A	6.600CPURC14.51/40	A093909
50 A	6.600CPURC14.51/50	B093910

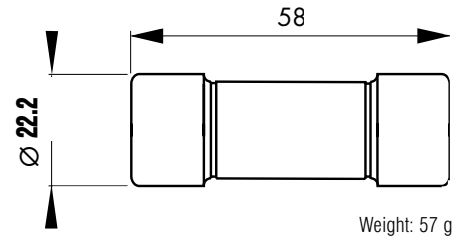
14x51 - With blown fuse trip-indicator



Weight : 18g
Packaging : 10 pieces

CURRENT RATING	CATALOG NO.	REF #
6 A	6.621CPURC14.51/6*	G081518
8 A	6.621CPURC14.51/8	C093911
10 A	6.621CPURC14.51/10	D093912
12 A	6.621CPURC14.51/12	E093913
16 A	6.621CPURC14.51/16	F093914
20 A	6.621CPURC14.51/20	G093915
25 A	6.621CPURC14.51/25	H093916
32 A	6.621CPURC14.51/32	J093917
40 A	6.621CPURD14.51/40	T100136
50 A	6.621CPURD14.51/50	V100137

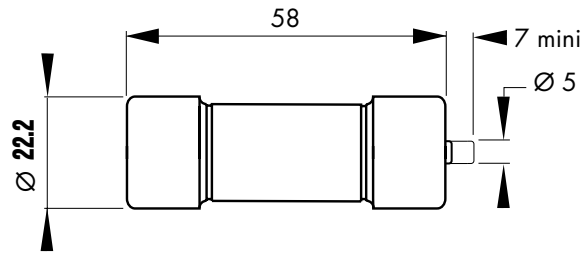
22x58 - Without blown fuse indication



Weight: 57 g
Packaging: 10 pieces

CURRENT RATING	CATALOG NO.	REF #
25 A	6.600CPURD22x58/25	B093956
32 A	6.600CPURD22x58/32	Z094828
40 A	6.600CPURD22x58/40	S094822
50 A	6.600CPURD22x58/50	W094779
63 A	6.600CPURD22x58/63	T094823
80 A	6.600CPURD22x58/80	A094829
100 A	6.600CPURD22x58/100	Y094827

22x58 - With blown fuse trip-indicator

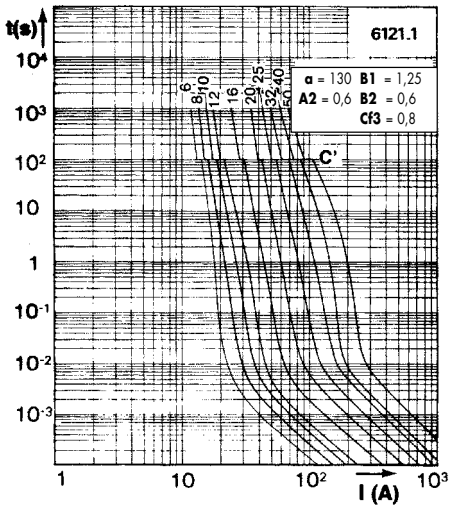


Weight: 57 g
Packaging: 10 pieces

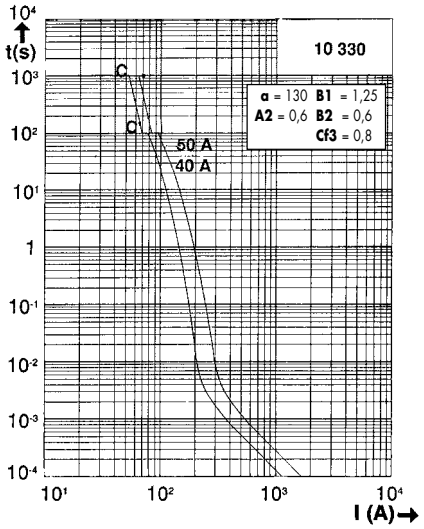
CURRENT RATING	CATALOG NO.	REF #
25 A	6.621CPURD22x58/25	H093801
32 A	6.621CPURD22x58/32	C093957
40 A	6.621CPURD22x58/40	J093802
50 A	6.621CPURD22x58/50	D093958
63 A	6.621CPURD22x58/63	K093803
80 A	6.621CPURD22x58/80	E093959
100 A	6.621CPURD22x58/100	F093960

Melting Time-Current Data

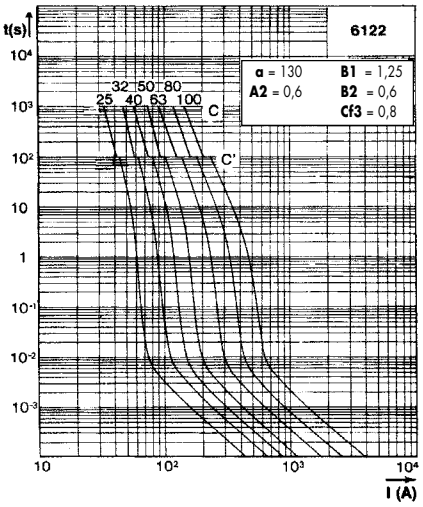
14x51 URC



14x51 URD



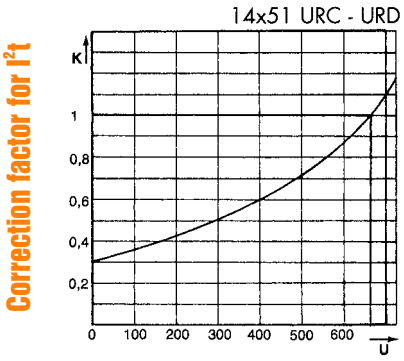
22x58 URD



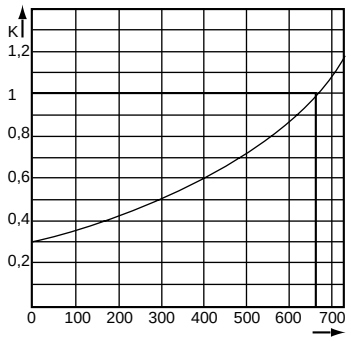
These curves indicate, for each rated current, the pre-arcing (melting) time vs. the R.M.S. current.

Clearing I^2t vs. Operating Voltage

14x51 URC - URD



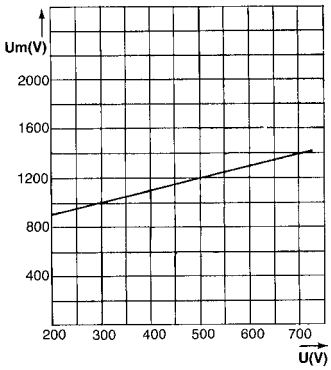
22x58 URD



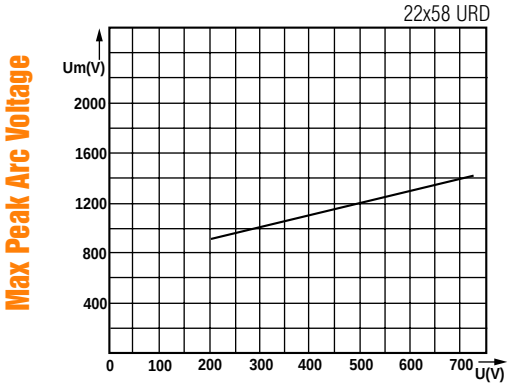
Operating Voltage

Peak arc voltage vs. Operating Voltage

14x51 URC - URD



22x58 URD



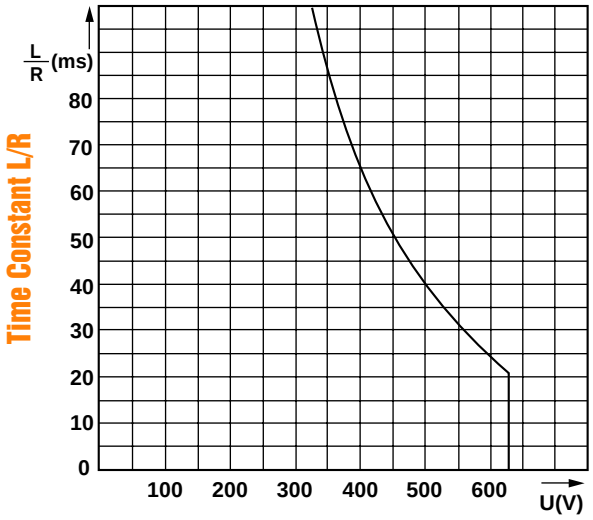
Operating Voltage

D

D.C. Applications Data

DC Voltage Capabilities vs. Time Constant

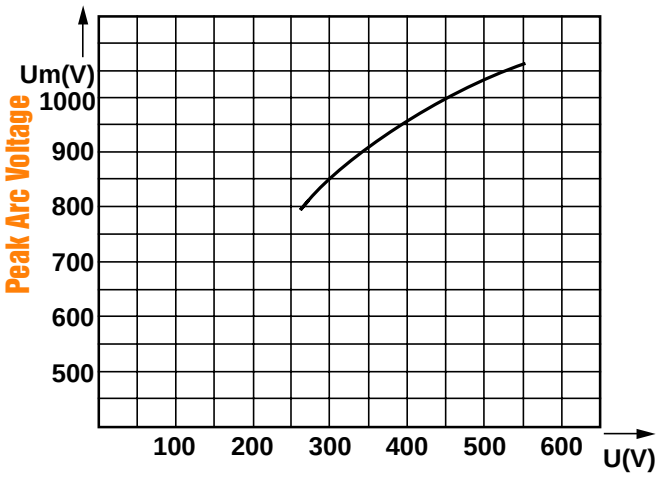
14x51 URC - URD



DC Voltage Capability

Peak Arc voltage vs. DC circuit voltage

14x51 URC - URD

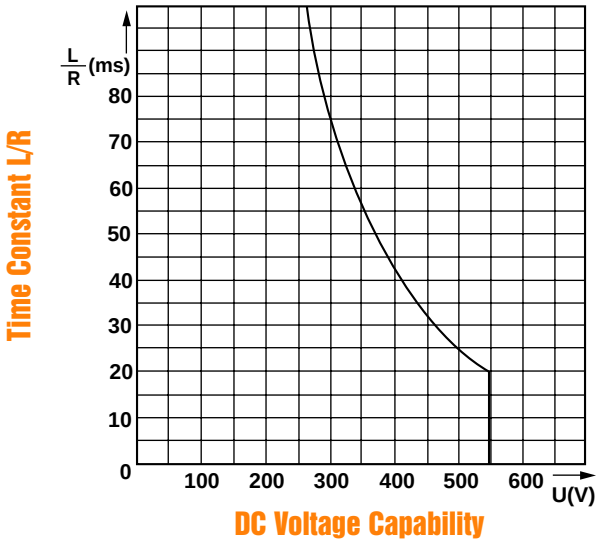


DC Circuit Voltage

See melting-time current data for minimum breaking current.

DC Voltage Capabilities vs. Time Constant

22x58 URD

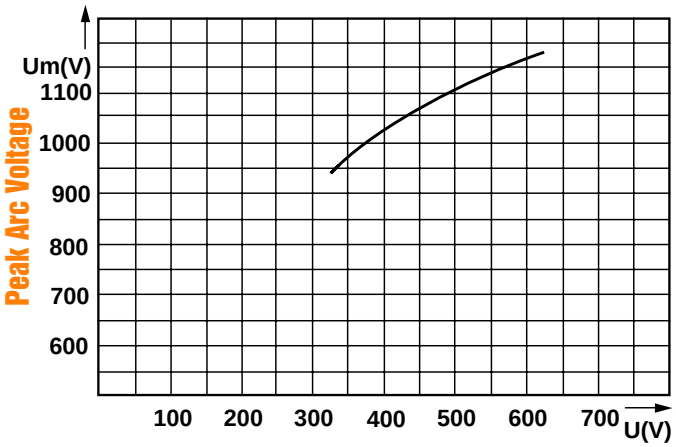


DC Voltage Capability

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



DC Circuit Voltage

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