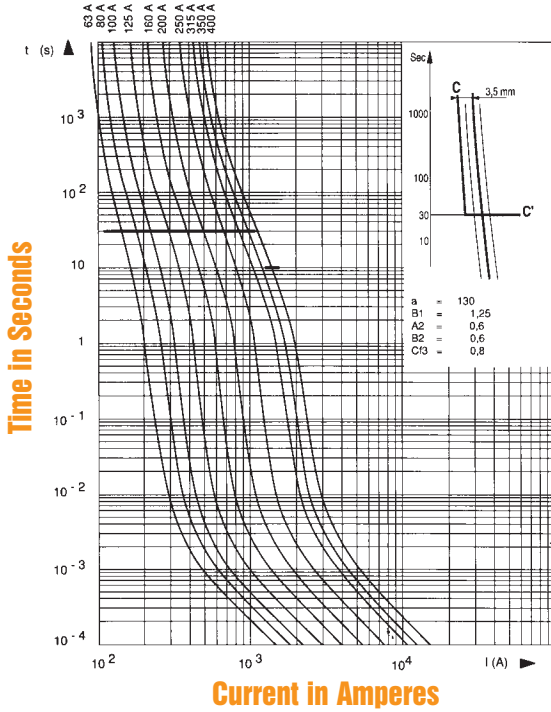


690/700 Volt

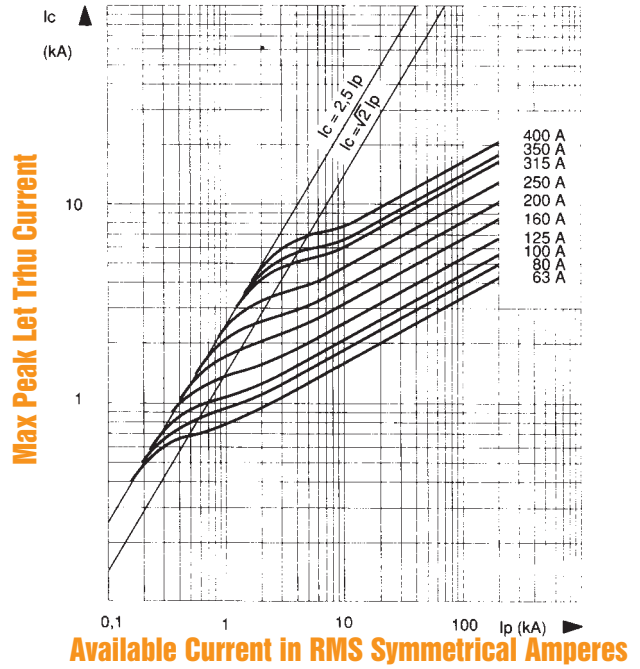
SEMICONDUCTOR PROTECTION FUSES

A070 URD 30 & 6,9 URD 30 63 to 400A

Melting Time – Current Data

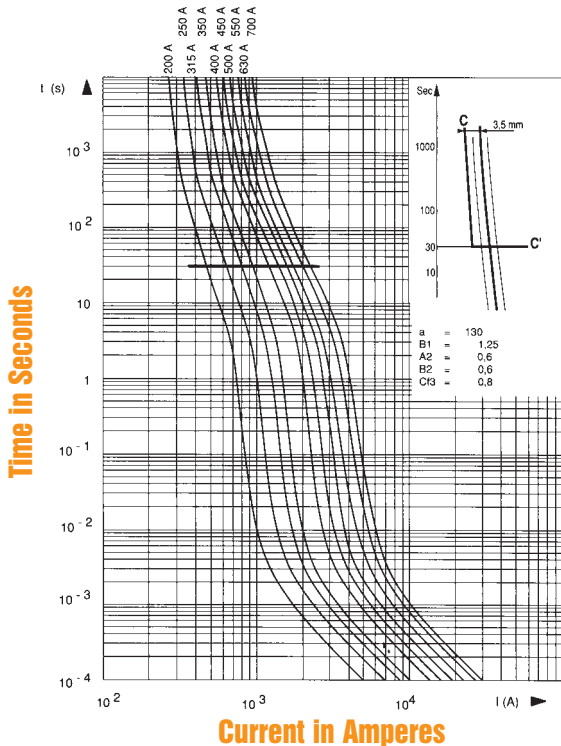


Peak Let-Thru Current Data

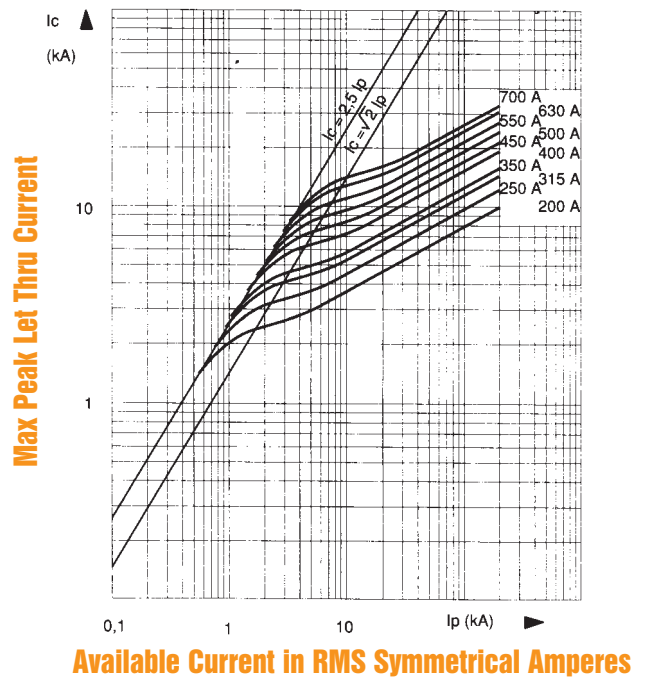


A070 URD 31 & 6,9 URD 31 200 to 700A

Melting Time – Current Data



Peak Let-Thru Current Data

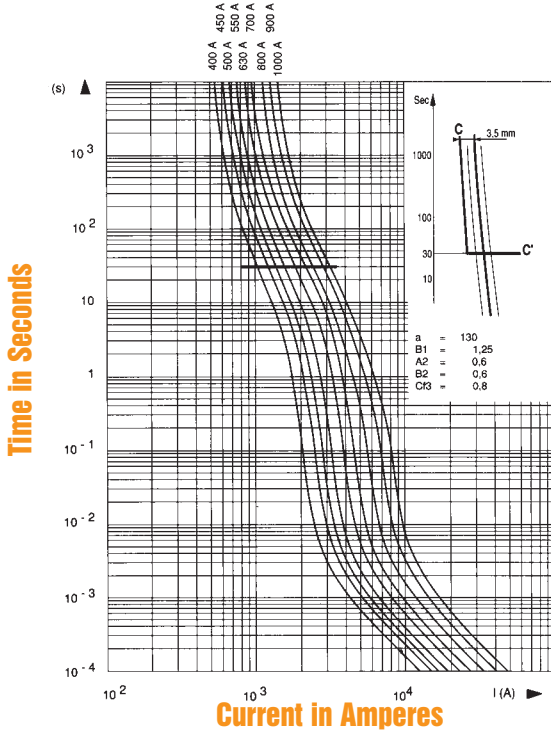


690/700 Volt

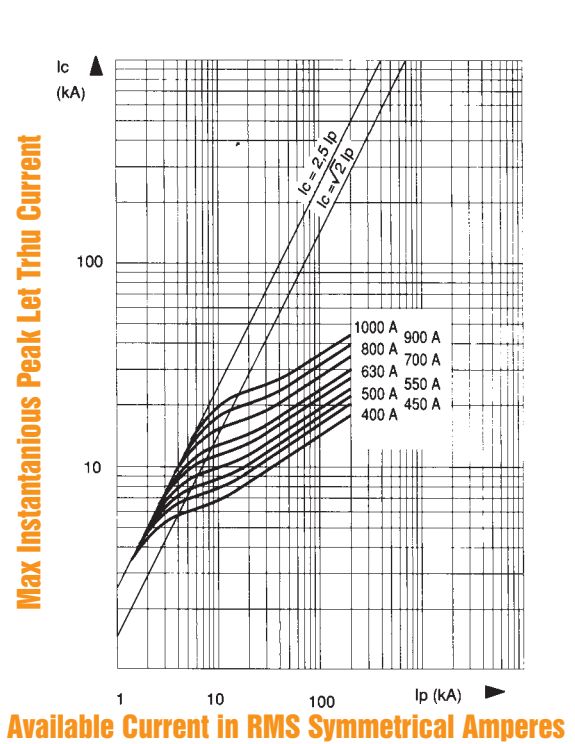
SEMICONDUCTOR PROTECTION FUSES

A070 URD 32 & 6,9 URD 32 400 to 1000A

Melting Time – Current Data

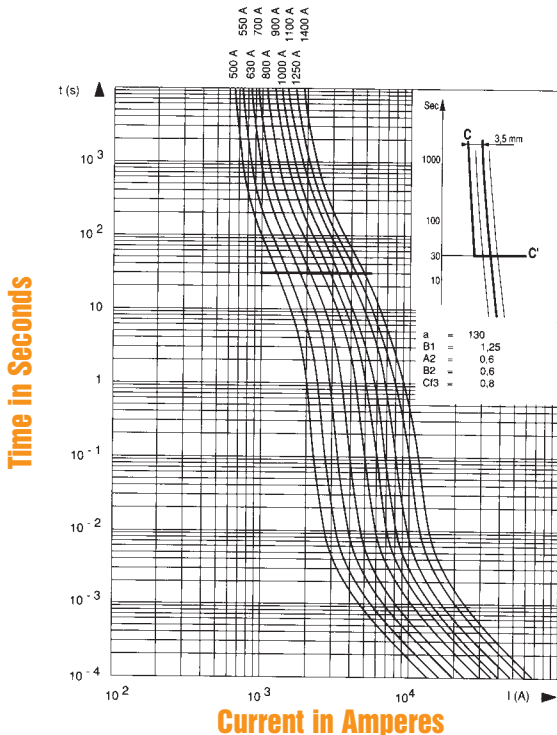


Peak Let-Thru Current Data

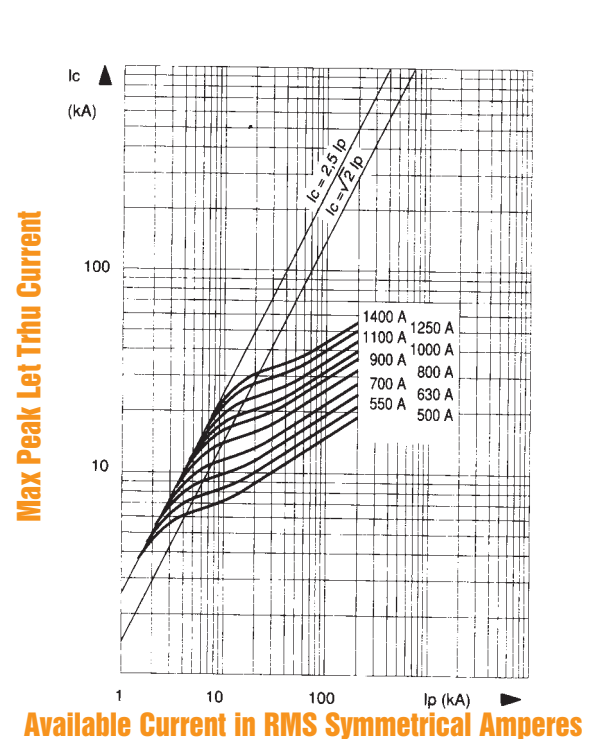


A070 URD 33 & 6,9 URD 33 500 to 1400A

Melting Time – Current Data



Peak Let-Thru Current Data

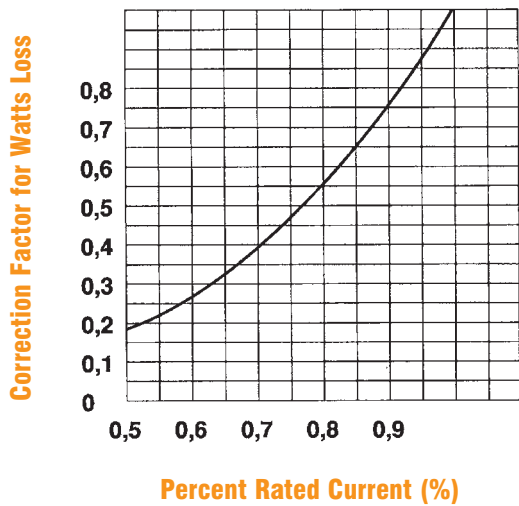


690/700 Volt

SEMICONDUCTOR PROTECTION FUSES

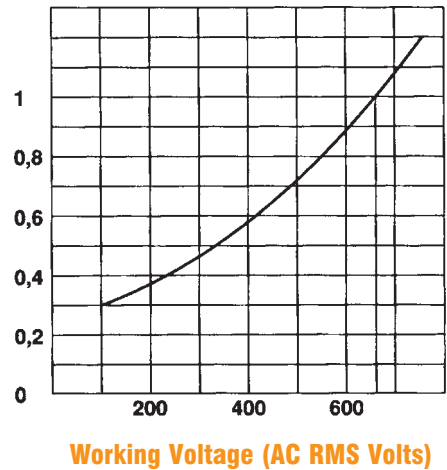
Application Information-All Sizes

Watts Loss vs. % Rated Current



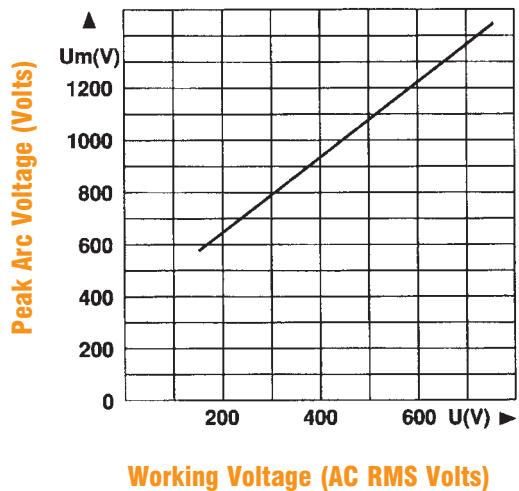
Correction factor to determine the watts loss value of a fuse operating below its rated current

Clearing I²t vs. Operating Voltage



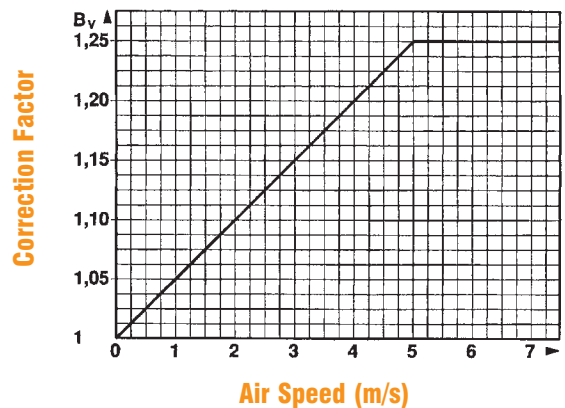
Correction factor to determine the clearing I²t value for a fuse operating below its rated voltage

Maximum Arc Volts vs. System Voltage



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

Ampere Rating Correction Factor vs. Air Flow Speed



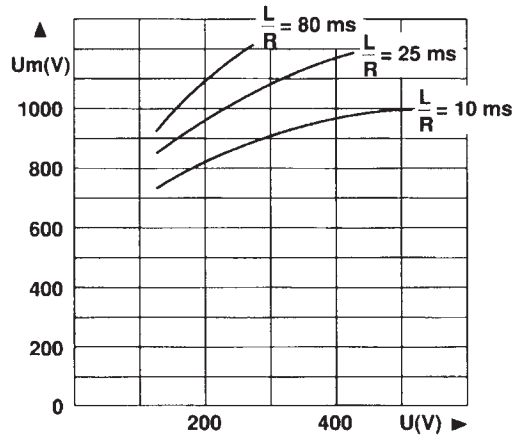
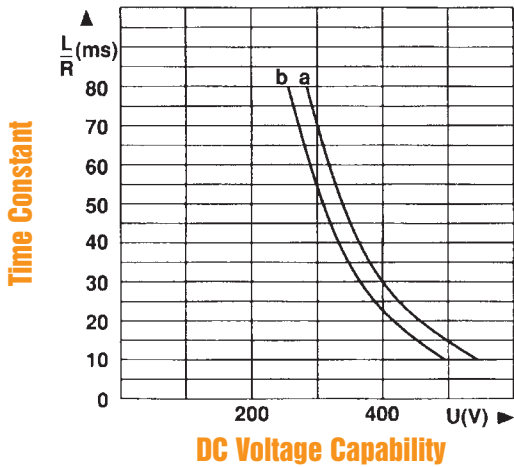
Determines the current carrying correction factor based on the cooling air speed across the fuse

690/700 Volt

SEMICONDUCTOR PROTECTION FUSES

Application Information Cont.-All Sizes

DC Voltage Capability vs. Time Constant



Provides the DC Voltage capability of the fuse as a function of circuit time constant (L/R ratio).

*Consult Factory for DC capabilities on ampere ratings not shown.

Rated current I_N (A)	Curves (*) and I_{pm} (†) corresponding to the rating					
	30 * I_{pm} (A)	31 * I_{pm} (A)	32 * I_{pm} (A)	33 * I_{pm} (A)	2x32 * I_{pm} (A)	2x33 * I_{pm} (A)
63	a 230					
80	a 300					
100	a 360					
125	a 460					
160	a 650					
200	a 880	a 850				
250	a 1300	a 1150				
315	a 1700	a 1450				
350	a 1900	a 1600				
400	a 2300	a 2200	a 2000			
450		a 2500	a 2300			
500		a 3000	a 2600	a 2300		
550		a 3400	a 3150	a 2500		
630		a 5000	a 3700	a 3250		
700		a 5600	a 4300	a 3900		
800			a 5300	a 4800		
900			a 7800	a 5600		
1000			b 9000	a 6600	a 5200	
1100				a 7700		
1250				b 11000	a 7400	a 6500
1400				b 12500	a 8600	a 7800
1600					a 10600	a 9600
1800					a 15600	a 11200
2000					b 18000	a 13200
2200						a 15400
2500						b 22000
2800						b 25000



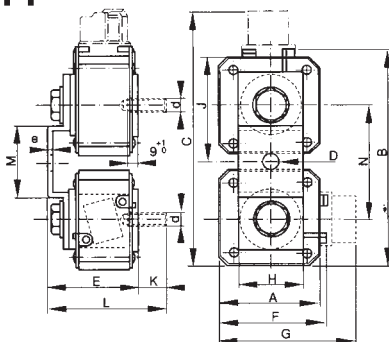
690/700 VOLT 2X32, 2X33 SEMICONDUCTOR PROTECTION FUSES

SIZE	CATALOG NO.					REF #	WEIGHT (g)
2 x 32	6,9	URD	232	TTF	1000	T300213	1240
	6,9	URD	232	TTF	1250	V300214	
	6,9	URD	232	TTF	1400	G300087	
	6,9	URD	232	TDF	1600	W300215	3300
	6,9	URD	232	TDF	1800	X300216	
	6,6	URD	232	TDF	2000	Y300217	
	5,5	URD	232	TDF	2200	D301993	
2 x 33	6,9	URD	233	TTF	1250	D300268	1900
	6,9	URD	233	TTF	1400	E300269	
	6,9	URD	233	TTF	1600	F300270	
	6,9	URD	233	PLAF	1800	B300427	2000
	6	URD	233	PLAF	2000	R302235	
	6	URD	233	PLAF	2200	Q302234	
	6	URD	233	PLAF	2500	P302233	
	6	URD	233	PLAF	2800	N302232	
	5,5	URD	233	PLAF	3000	L301977	
	5,5	URD	233	PLAF	3200	M301978	
	5	URD	233	PLAF	3600	N301979	
	5	URD	233	PLAF	4000	P301980	
	4	URD	233	PLAF	4500	Q301981	
	4	URD	233	PLAF	5000	R301982	

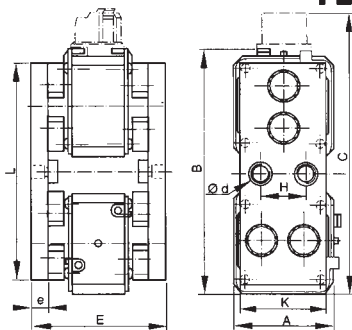
Dimensions in mm

SIZE	A	B	C	D	E	F	G	H	J	K	d	e	L	M	N
2x32 TT	60	138,5	172	11	67,6	66,5	100	35	61	40	M 10	4	107,5	48	72
2x33 TT	74,5	167	200	13	67,6	81	114	50	80	40	M 12	4	107,5	54	86
2x32 TD	65,5	147	182	-	91,5	-	-	30	-	60	M 10	12	140	-	-
2x33 PLAF	75	171,5	207	-	55,5	-	115	40	-	71	M 10	15	81	-	-

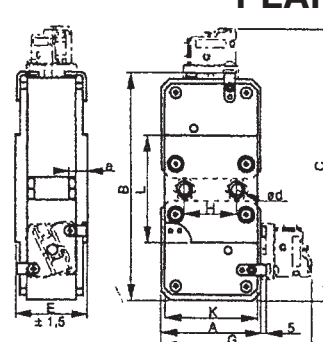
TT



TD



PLAF

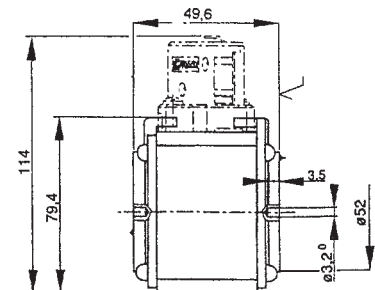


Studs and microswitches supplied separately

33 PPAF Standard Press-Pack



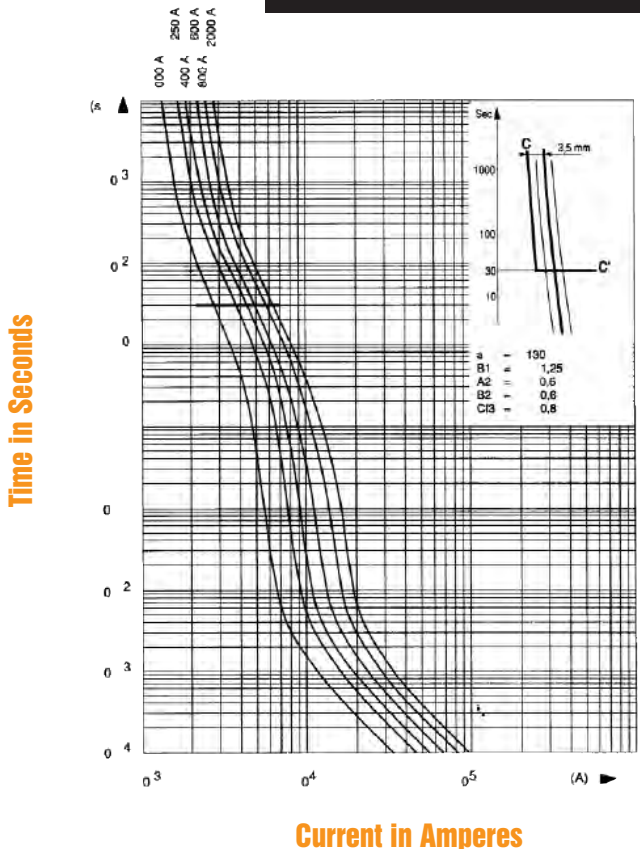
SIZE	CATALOG NO.				REF #	WEIGHT (g)	PACK.
33	6,9	URD	33	PPAF	1250	-	910
	6,9	URD	33	PPAF	1400	-	



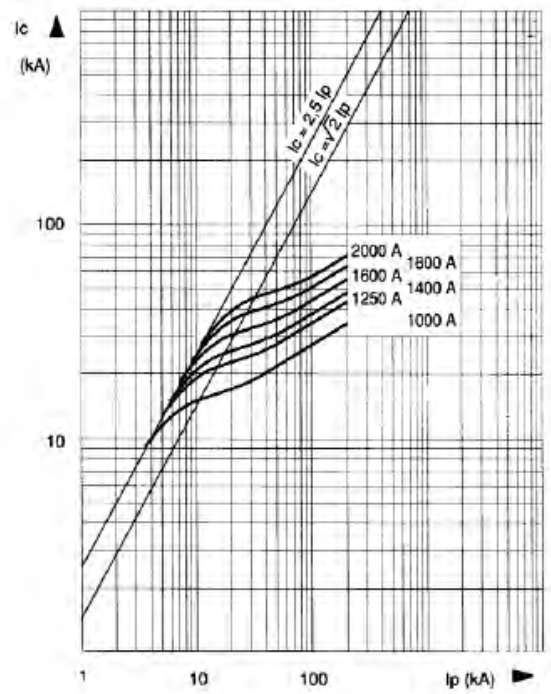
690/700 Volt 2X32

SEMICONDUCTOR PROTECTION FUSES

Melting Time Current Data 2X32



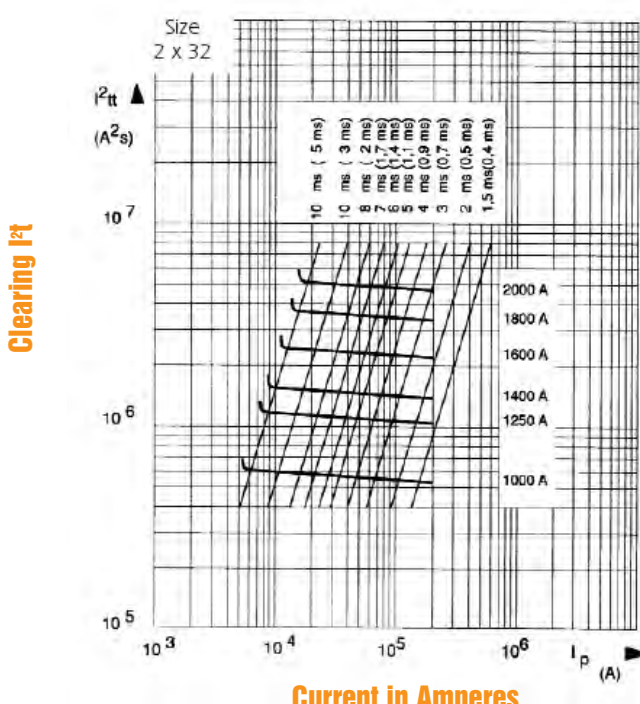
Peak let-thru Data 2X32



D

Current in Amperes

Clearing I²t Data 2X32



Current in Amperes

Time-current characteristics

- Above, left: Curves indicating melting time for each rated current as a function of RMS value of melting current I .
- Tolerances on this current = 8%
- Beyond 30 sec or 10 sec, small overloads must be eliminated by another device
- Curve CC' represents the maximum times taken by the associated device to clear small overloads; only its horizontal line is represented. Its oblique line must be plotted according to sketch, top right corner.
- The intersection of the fuse and CC' curves indicate the minimum breaking current I_{pm} of the fuse.

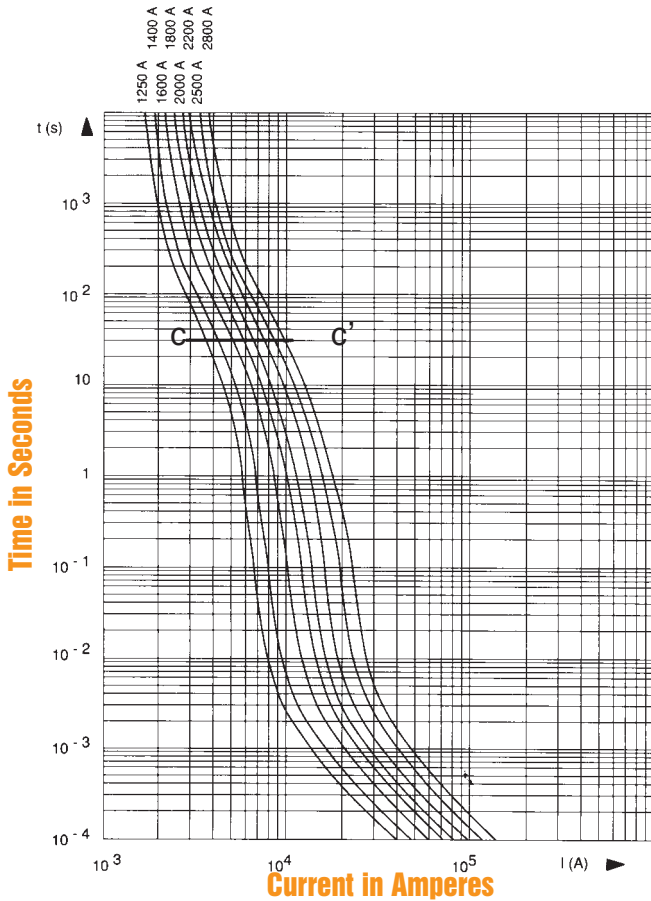
Maximum values of clearing I²t and total operating times

Left: Horizontal curves indicating the maximum values of clearing operating I^2t as function of the prospective current I_p at 660 V, $\cos w = 0.15$. The oblique lines indicate the corresponding total operating time T_t , with pre-arcing time in brackets.

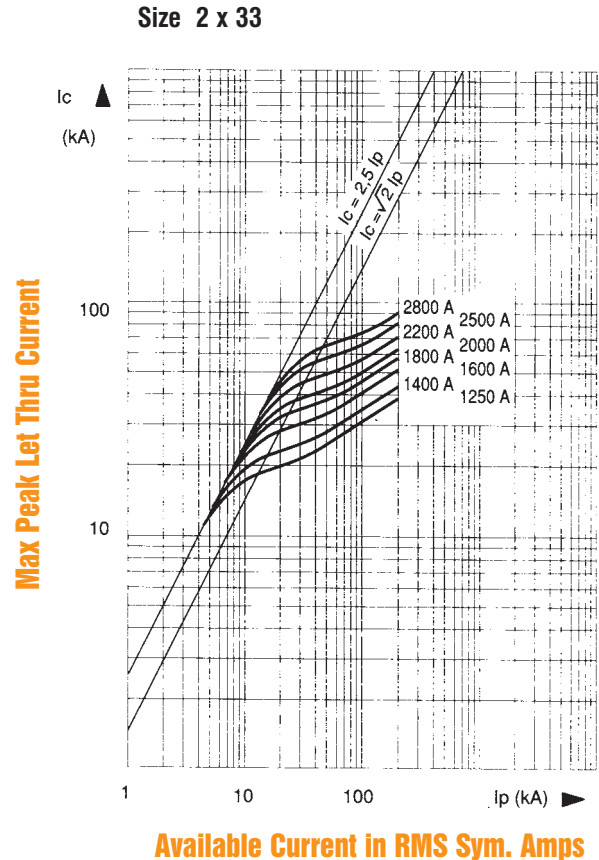
690/700 Volt 2X33

SEMICONDUCTOR PROTECTION FUSES

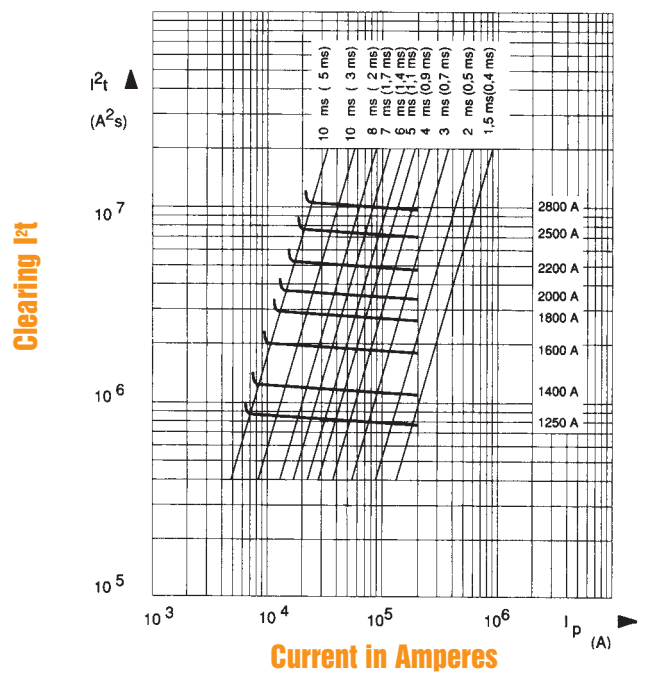
Melting Time Current Data 2X33



Peak let-thru Data 2X33



Clearing I²t Data 2X33



Time-current characteristics

Above, left: Curves indicating pre-arcing time for each rated current as a function of RMS value of pre-arcing current I.

- Tolerances on this current = 8%.
- Beyond 30 sec small overloads must be eliminated by another device
- The intersection of the fuse and CC' curves indicates the minimum breaking current of the fuse.

Maximum values of total clearing I²t and total operating times

Left: Horizontal curves indicating the maximum values of total operating I²t as function of the prospective current I_p at 660 V, cos w = 0.15.

The vertical lines indicate the corresponding total clearing time T_t, with melting time in brackets.