



Protistor® Square-body Fuses PSC aR sizes 7x - 650 V to 1300 VAC Main characteristics



650 to 1300VAC / 63 to 2800A.

- Exceptionally low I^2t , Watt losses.
- Non-magnetic construction, highly reliable low voltage.
- Indicator system.
- Conformity to UL, CSA investigated, IEC, DIN and VDE standards.
- Increased technical performance
- Higher ratings.
- Reduction in volume and weight.
- This fuse preselection table indicates, for each size:
 - rated current (or rating) I_n
 - pre-arcing I^2t (I^2t_p) at 1 ms
 - total operating I^2t (I^2t_t) at 1000 V and 850V(I)f=50Hz, $\cos \varphi = 0.15$, and for a total operating time from 8 to 10 ms
 - dissipated power P_n at the rated current I_n , and at 0.8 I_n , in steady state
 - breaking capacity at various voltages, checked by tests made in accordance with IEC and American standards.



Estimated breaking capacity: 300 kA

PSC 650 to 1300VAC US and European standard

Size	Nominal Voltage U_N (VAC)		Ampere Rating (A)	Pre-arcing I^2t @ 1ms (kA 2 s)	Total I^2t @ 1000V (*) @ U_n (kA 2 s)	Power (W)		Tested Breaking capacity	
	IEC	UL				End contacts	Blades	IEC	USA
70	1250	1300	50	0,116	0,7	16	16	100kA @ 1250V	100kA @ 1300V
			63	0,210	1,2	26	26		
			80	0,470	2,7	27	27		
			100	0,830	4,8	30	30		
			125	1,30	7,5	38	38		
			160	2,55	15	45	45		
			200	4,7	27	54	56		
			250	9,6	55	58	61		
	1200	1300	280	14	82	61	64	100kA @ 1200V	100kA @ 1300V
			315	20	115	66	72		
	1100	1200	350	28	158	68	75	150kA @ 1100V	150kA @ 1200V
			400	39	224	81	90		
			450	62	356	82	82		
	1000	1100	500	84	483	83	83	120kA @ 1000V	120kA @ 1100V
	800	900	550	128	576(*)	83	83	100kA @ 800V	100kA @ 900V
	750	800	630	176	730(*)	91	91	100kA @ 750V	100kA @ 800V
71	1250	1300	160	2,6	15	46	46	100kA @ 1250V	100kA @ 1300V
			200	4,7	27	54	54		
			250	8,9	51	61	61		
			280	12	68	68	70		
			315	16	92	73	76		
			350	22	127	76	80		
			400	38	220	76	80		
	1100	1300 (TTI)	450	47	270	87	95	150kA @ 1100V	150kA @ 1200V
			500	68	390	90	X		
			500	68	390	X	100		
			550	84	485	98	112		
			630	125	725	105	X		
	1000	1100	630	125	725	X	120	150kA @ 1000V	150kA @ 1100V
			700	180	1040	105	105		
			800	290	1540(*)	116	116		
	900	950	800	290	1540(*)	116	116	100kA @ 900V	100kA @ 950V
	800	850	900	446	2010(*)	120	120	100kA @ 800V	100kA @ 850V

(¹) at 850 V

(²) does not exist with blades



Protistor® Square-body Fuses

PSC aR sizes 7x - 650 V to 1300 VAC

Main characteristics

PSC 650 to 1300VAC US and European standard

Size	Nominal Voltage U _N (VAC)		Ampere Rating (A)	Pre-arcing I _t @ 1 ms (kA _{2s})	Total I ² t @ 1000V (*) @ U _N (kA _{2s})	Power (W)		Tested Breaking capacity Estimated B.C 300 kA	
	IEC	UL				End contacts	Blades	IEC	USA
72	1250	1300	280	10	60	72	72	100kA @ 1250V	100kA @ 1300V
			315	15	87	76	76		
			350	21	120	77	77		
			400	32,5	190	80	80		
			450	44	255	87	89		
			500	57	330	94	98		
			550	68	390	110	120		
			630	105	610	113	X		
	1100	1200	630	105	610	X	125	150kA @ 1100V	150kA @ 1200V
			700	145	815	122	140		
			800	215	1240	125	146		
	1000	1100	700	145	815	X	140	150kA @ 1000V	150kA @ 1100V
			800	215	1240	X	146		
			900	312	1800	130	152		
	850	900	1000	439	2150(*)	136	136	100kA @ 850V	100kA @ 900V
73	1250	1300	315	12	68	84	84	100kA @ 1250V	100kA @ 1300V
			350	17	100	86	86		
			375	19	110				
			400	25	145	93	93		
			450	35,5	205	99	100		
			500	44	255	110	112		
			550	57	330	116	120		
			630	84	485	125	132		
			700	110	640	135	X		
			800	190	1090	136	X		
	1200	1300	700	110	640	X	146	100kA @ 1200V	100kA @ 1300V
			900	250	1090	150	X		
	1100	1200	800	190	1090	X	148	150kA @ 1100V	150kA @ 1200V
			900	250	1440	X	170		
	1000	1100	1000	370	2130	152	168	150kA @ 1000V	150kA @ 1100V
			1100	445	2555	168	208		
	950	1000	1100	445	2430(*)	168	X	150kA @ 950V	150kA @ 1000V
	900	1000	1000	370	1920(*)	X	174	150kA @ 900V	150kA @ 1000V
			1100	445	2280(*)	X	208		
			1250	585	3080(*)	186	X		
			1400	755	4100(*)	210	X		
	850	900	1400	755	3700(*)	210	X	150kA @ 850V	150kA @ 900V
	690	700	1500	1180	4750(*)	200	X	180kA @ 690V	180kA @ 700V
			1600	1430	5740(*)	203	X		
	600	650	1800	2040	7150(*)	206	X	120kA @ 600V	120kA @ 650V
2 x 72	1250		630	60	348	160		100kA @ 1250V	
			700	84	480	162			
			800	130	760	168			
			900	176	1020	183			
			1000	228	1320	197			
			1100	272	1560	231			
			1250	426	2440	237			
			1400	568	3260	256		100kA @ 1100V	
	1000		1600	860	4895	262		100kA @ 1000V	
			1800	1250	6350(*)	275		100kA @ 900V	
	900		2000	1760	7570(*)	285		100kA @ 750V	
	750		2200	2410	8350(*)	320		100kA @ 650V	
2 x 73	1250		2500	3470	12000(*)	340			
			800	100	580	195		100kA @ 1250V	
			900	142	820	208			
			1000	176	1000	231			
			1100	228	1300	244			
			1250	336	1900	262			
			1400	440	2600	283			
			1600	760	4400	286			
	1100		1800	1000	5800	315		100kA @ 1100V	
			2000	1480	8500	319		120kA @ 1000V	
			2200	1780	9632(*)	353		100kA @ 950V	
			2500	2340	12075(*)	390		110kA @ 900V	
	900		2800	3000	15000(*)	440		100kA @ 850V	
	850		3000	4980	15700(*)	405			
	600		3200	5720	19030(*)	426		200kA @ 600V	
	550		3600	8160	25200(*)	430		200kA @ 550V	

(1) at 850 V

(2) does not exist with blades

12/04



Semiconductor (AC) fuses

Protistor® Square-body Fuses PSC aR sizes 7x - 650 V to 1300 VAC American Terminals - 70 - 73 End contacts

Size	Designation				Reference Number	Weight (g)	Packaging	Catalog Number
70	A130URD	70	TTI	0063	Q301015	350	3	A130UD70TTI63
	A130URD	70	TTI	0080	R301016			A130UD70TTI80
	A130URD	70	TTI	0100	S301017			A130UD70TTI100
	A130URD	70	TTI	0125	T301018			A130UD70TTI125
	A130URD	70	TTI	0160	V301019			A130UD70TTI160
	A130URD	70	TTI	0200	W301020			A130UD70TTI200
	A130URD	70	TTI	0250	X301021			A130UD70TTI250
	A130URD	70	TTI	0280	Y301022			A130UD70TTI280
	A130URD	70	TTI	0315	Z301023			A130UD70TTI315
71	A120URD	70	TTI	0350	A301024	500	3	A120UD70TTI350
	A130URD	71	TTI	0160	B301025			A130UD71TTI160
	A130URD	71	TTI	0200	C301026			A130UD71TTI200
	A130URD	71	TTI	0250	D301027			A130UD71TTI250
	A130URD	71	TTI	0280	E301028			A130UD71TTI280
	A130URD	71	TTI	0315	F301029			A130UD71TTI315
	A130URD	71	TTI	0350	G301030			A130UD71TTI350
	A130URD	71	TTI	0400	H301031			A130UD71TTI400
	A130URD	71	TTI	0450	J301032			A130UD71TTI450
	A130URD	71	TTI	0500	K301033			A130UD71TTI500
	A120URD	71	TTI	0550	L301034			A120UD71TTI550
	A120URD	71	TTI	0630	M301035			A120UD71TTI630
72	A130URD	72	TTI	0280	N301036	850	3	A130UD72TTI280
	A130URD	72	TTI	0315	P301037			A130UD72TTI315
	A130URD	72	TTI	0350	Q301038			A130UD72TTI350
	A130URD	72	TTI	0400	R301039			A130UD72TTI400
	A130URD	72	TTI	0450	S301040			A130UD72TTI450
	A130URD	72	TTI	0500	T301041			A130UD72TTI500
	A130URD	72	TTI	0550	V301042			A130UD72TTI550
	A130URD	72	TTI	0630	W301043			A130UD72TTI630
	A120URD	72	TTI	0700	X301044			A120UD72TTI700
	A120URD	72	TTI	0800	Y301045			A120UD72TTI800
	A130URD	73	TTI	0315	Z301046	1250	3	A130UD73TTI315
	A130URD	73	TTI	0350	A301047			A130UD73TTI350
73	A130URD	73	TTI	0400	B301048			A130UD73TTI400
	A130URD	73	TTI	0450	C301049			A130UD73TTI450
	A130URD	73	TTI	0500	D301050			A130UD73TTI500
	A130URD	73	TTI	0550	E301051			A130UD73TTI550
	A130URD	73	TTI	0630	F301052			A130UD73TTI630
	A130URD	73	TTI	0700	G301053			A130UD73TTI700
	A130URD	73	TTI	0800	H301054			A130UD73TTI800
	A130URD	73	TTI	0900 **	J301055			A130UD73TTI900
	A110URD	73	TTI	1000 **	K301056			A110UD73TTI1000
	A100URD	73	TTI	1100 **	L301057			A100UD73TTI1100
	A100URD	73	TTI	1250 **	M301058			A100UD73TTI1250
	A090URD	73	TTI	1400 **	N301059			A090UD73TTI1400
	A070URD	73	TTI	1600 **	Q300877			A070UD73TTI1600
	A065URD	73	TTI	1800 **	R300878			A065UD73TTI1800

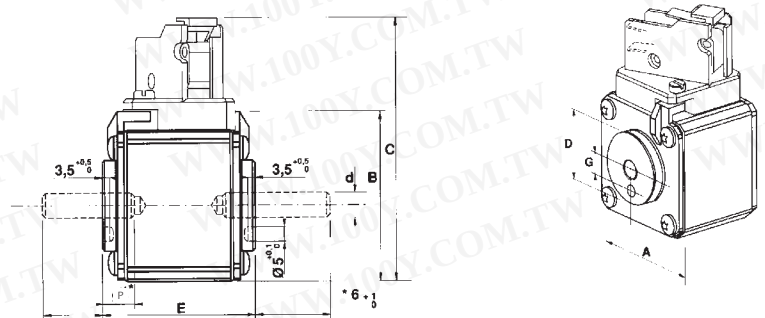
Size	A	B	C	D	E±1	d	G±0.1	P±0.1
70	40 1-9/16"	46,5 1-27/32"	82 3-7/32"	26 1-1/64"	74 2-29/32"	5/16"-18	9 23/64"	6 15/64"
71	51 2"	56,5 2-7/32"	91 3-37/64"	30 1-3/16"	74 2-29/32"	5/16"-18	9 23/64"	9 23/64"
72	60 2-3/8"	65,5 2-37/64"	100 3-15/16"	38 ; (42mm **) 1-1/2" ; (1-21/32" **)	74 2-29/32"	3/8"-16	15 19/32"	9 23/64"
73	74,5 2-15/16"	79,5 3-1/8"	114 4-1/2"	46 ; (52mm **) 1-13/16" ; (2-1/16" **)	74 2-29/32"	1/2"-13	15 19/32"	9 23/64"

Note:

Dimensions in mm

Dimensions in inches

Microswitches and threaded studs supplied separately

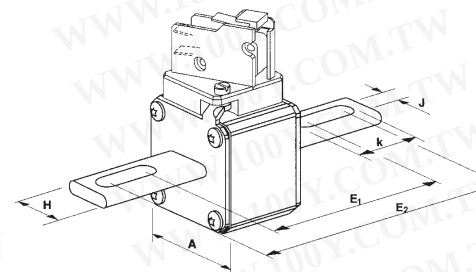
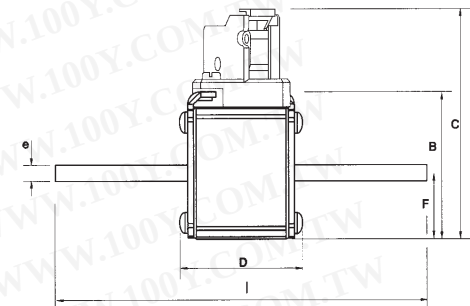


Semiconductor (AC) fuses

Protistor® Square-body Fuses PSC aR sizes 7x - 650 V to 1300 VAC American Terminals - 70 - 73 Blades

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Size	Designation	Reference Number	Weight (g)	Packaging	Catalog Number
70	A 130 URD 70 LI 0050	-	380	3	-
	A 130 URD 70 LI 0063	W300652			A130UD70LI063
	A 130 URD 70 LI 0080	X300653			A130UD70LI080
	A 130 URD 70 LI 0100	Y300654			A130UD70LI100
	A 130 URD 70 LI 0125	Z300655			A130UD70LI125
	A 130 URD 70 LI 0160	A300656			A130UD70LI160
	A 130 URD 70 LI 0200	B300657			A130UD70LI200
	A 130 URD 70 LI 0250	C300658			A130UD70LI250
	A 130 URD 70 LI 0280	Q300716			A130UD70LI280
	A 130 URD 70 LI 0315	D300659			A130UD70LI315
	A 120 URD 70 LI 0350	E300660			A120UD70LI350
71	A 130 URD 71 LI0160	E300752	630	3	A130UD71LI160
	A 130 URD 71 LI0200	F300661			A130UD71LI200
	A 130 URD 71 LI0250	G300662			A130UD71LI250
	A 130 URD 71 LI0280	R300717			A130UD71LI280
	A 130 URD 71 LI0315	H300663			A130UD71LI315
	A 130 URD 71 LI0350	J300664			A130UD71LI350
	A 130 URD 71 LI0400	K300665			A130UD71LI400
	A 130 URD 71 LI0450	L300666			A130UD71LI450
	A 120 URD 71 LI0500	M300667			A120UD71LI500
	A 120 URD 71 LI0550	N300668			A120UD71LI550
	A 110 URD 71 LI0630	P300669			A110UD71LI630
	A 130 URD 72 LI 0280	Q300670	860	3	A130UD72LI280
72	A 130 URD 72 LI 0315	R300671			A130UD72LI315
	A 130 URD 72 LI 0350	S300672			A130UD72LI350
	A 130 URD 72 LI 0400	T300673			A130UD72LI400
	A 130 URD 72 LI 0450	V300674			A130UD72LI450
	A 130 URD 72 LI 0500	W300675			A120UD72LI500
	A 130 URD 72 LI 0550	X300676			A130UD72LI550
	A 120 URD 72 LI 0630	Y300677			A120UD72LI630
	A 110 URD 72 LI 0700	Z300678			A110UD72LI700
	A 110 URD 72 LI 0800	A300679			A110UD72LI800
	A 130 URD 73 LI 0315	B300680	1250	1-3	A130UD73LI315
	A 130 URD 73 LI 0350	C300681			A130UD73LI350
73	A 130 URD 73 LI 0400	D300682			A130UD73LI400
	A 130 URD 73 LI 0450	E300683			A130UD73LI450
	A 130 URD 73 LI 0500	F300684			A120UD73LI500
	A 130 URD 73 LI 0550	G300685			A130UD73LI550
	A 130 URD 73 LI 0630	H300686			A130UD73LI630
	A 130 URD 73 LI 0700	J300687			A130UD73LI700
	A 120 URD 73 LI 0800	K300688			A120UD73LI800
	A 110 URD 73 LI 0900	L300689			A110UD73LI900
	A 100 URD 73 LI 1000	M300690			A100UD73LI1000
	A 100 URD 73 LI 1100	N300691			A100UD73LI1100
	A 100 URD 73 LI 1250	J301193			A100UD73LI1250
	A 90 URD 73 LI 1400	K301194			A90UD73LI1400



Rated voltage 900 V to 1300 V as per American standard.

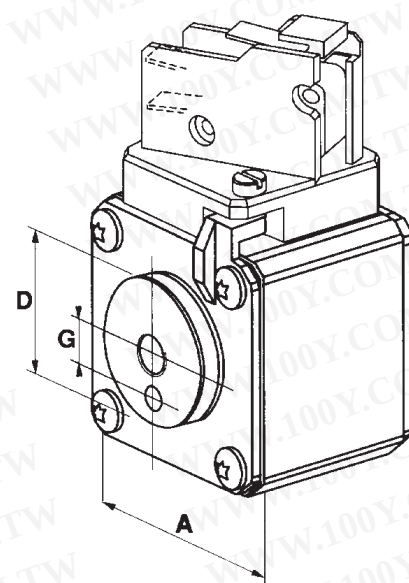
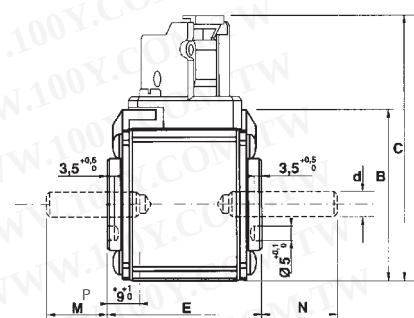
Microswitches supplied separately

Size	A	B	C	D	E1±1,3	E2±1,3	F	H	J	k	I±1,5	e
70	40 1-9/16"	46,5 1-27/32"	82 3-7/32"	71 2-5/32"	91,4 3-13/32"	130,4 5-1/8"	21 53/64"	25 1"	10,5 13/32"	30 1-3/16"	152,4 6"	6 15/64"
71	51 2"	56,5 2-7/32"	91 3-37/64"	71 2-25/32"	91,4 3-19/32"	130,4 5-1/8"	25,5 1"	25 1"	10,5 13/32"	30 1-3/16"	152,4 6"	6 15/64"
72	60 2-23/64"	65,5 2-37/64"	100 3-15/16"	71 2-25/32"	97,6 3-23/32"	132,4 5-13/64"	30 1-3/16"	32 1-1/4"	14,6 9/16"	32 1-1/4"	157,4 6-3/16"	6 15/64"
73	74,5 2-15/16"	79,5 3-1/8"	114 4-1/2"	72 2-53/64" (2-15/16")	98,8 3-57/64"	131,4 5-11/64"	37,2 1-15/32"	40 1-9/16"	15,9 5/8"	32 1-1/4"	157,4 6-3/16"	6 15/64"

Note:
Dimensions in mm
Dimensions in inches

Protistor® Square-body Fuses PSC aR sizes 7x - 650 V to 1300 VAC IEC Terminals - French 70 - 73 End contacts

Size	Designation	Reference Number	Weight (g)	Packaging	Catalog Number
70	12,5 URD 70 TT F 0050	C301095	350	3	PC70UD13C50TF
	12,5 URD 70 TT F 0063	M300483			PC70UD13C63TF
	12,5 URD 70 TT F 0080	N300484			PC70UD13C80TF
	12,5 URD 70 TT F 0100	P300485			PC70UD13C100TF
	12,5 URD 70 TT F 0125	Q300486			PC70UD13C125TF
	12,5 URD 70 TT F 0160	R300487			PC70UD13C160TF
	12,5 URD 70 TT F 0200	S300488			PC70UD13C200TF
	12,5 URD 70 TT F 0250	T300489			PC70UD13C250TF
	12 URD 70 TT F 0280	N300714			PC70UD12C280TF
	12 URD 70 TT F 0315	V300490			PC70UD12C315TF
	11 URD 70 TT F 0350	W300491			PC70UD11C350TF
	11 URD 70 TT F 0400	E300867			PC70UD11C400TF
	11 URD 70 TT F 0450	H301284			PC70UD11C450TF
	10 URD 70 TT F 0500	J301285			PC70UD10C500TF
	8 URD 70 TT F 0550	K301286			PC70UD80V550TF
	12,5 URD 71 TT F 0160	B300749	520	3	PC71UD13C160TF
	12,5 URD 71 TT F 0200	Z300517			PC71UD13C200TF
	12,5 URD 71 TT F 0250	A300518			PC71UD13C250TF
	12,5 URD 71 TT F 0280	P300715			PC71UD13C280TF
	12,5 URD 71 TT F 0315	B300519			PC71UD13C315TF
	12,5 URD 71 TT F 0350	C300520			PC71UD13C350TF
	12,5 URD 71 TT F 0400	D300521			PC71UD13C400TF
	12,5 URD 71 TT F 0450	E300522			PC71UD13C450TF
	11 URD 71 TT F 0500	F300523			PC71UD11C500TF
	11 URD 71 TT F 0550	G300524			PC71UD11C550TF
	11 URD 71 TT F 0630	H300525			PC71UD11C630TF
	10 URD 71 TT F 0700	M301288			PC71UD10C700TF
	9 URD 71 TT F 0800	Z300862			PC71UD90V800TF
	8 URD 71 TT F 0900	N301289			PC71UD80VC900TF
	12,5 URD 72 TT F 0250	X301573	800	3	PC72UD13C250TF
	12,5 URD 72 TT F 0280	Y300493			PC72UD13C280TF
	12,5 URD 72 TT F 0315	Z300494			PC72UD13C315TF
	12,5 URD 72 TT F 0350	A300495			PC72UD13C350TF
	12,5 URD 72 TT F 0400	B300496			PC72UD13C400TF
	12,5 URD 72 TT F 0450	C300497			PC72UD13C450TF
	12,5 URD 72 TT F 0500	D300498			PC72UD13C500TF
	12,5 URD 72 TT F 0550	E300499			PC72UD13C550TF
	12,5 URD 72 TT F 0630	F300500			PC72UD13C630TF
	11 URD 72 TT F 0700**	G300501			PC72UD11C700TF
	11 URD 72 TT F 0800**	H300502			PC72UD11C800TF
	10 URD 72 TT F 0900**	G300869			PC72UD10C900TF
	8,5 URD 72 TT F 1000**	T301294			PC72UD85V1000TF
	12,5 URD 73 TT F 0315	J300503	1250	1	PC73UD13C315TF
	12,5 URD 73 TT F 0350	K300504			PC73UD13C350TF
	12,5 URD 73 TT F 0400	L300505			PC73UD13C400TF
	12,5 URD 73 TT F 0450	M300506			PC73UD13C450TF
	12,5 URD 73 TT F 0500	N300507			PC73UD13C500TF
	12,5 URD 73 TT F 0550	P300508			PC73UD13C550TF
	12,5 URD 73 TT F 0630	Q300509			PC73UD13C630TF
	12,5 URD 73 TT F 0700	R300510			PC73UD13C700TF
	12,5 URD 73 TT F 0800	S300511			PC73UD13C800TF
	12 URD 73 TT F 0900**	T300512			PC73UD12C900TF
	10 URD 73 TT F 1000**	V300513			PC73UD10C1000TF
	9,5 URD 73 TT F 1100**	W300514			PC73UD95V800TFB
	9 URD 73 TT F 1250**	T300696			PC73UD90V13CTF
	8,5 URD 73 TT F 1400**	S300718			PC73UD85C14CTF
	6,9 URD 73 TT F 1600**	B301301			PC73UD69V16CTF
	6 URD 73 TT F 1800**	C301302			PC73UD60V18CTF



Microswitches and threaded studs supplied separately

Note:
 Dimensions in mm
 Dimensions in inches

Size	A	B	C	D	M*	N*	E±1	d	G±0.1	P±0.1
70	40 1-9/16"	46,5 1-27/32"	82 3-7/32"	26 1-1/64"	22	27	74 2-29/32"	M8	9 23/64"	6 15/64"
71	51 2"	56,5 2-7/32"	91 3-37/64"	30 1-3/16"	19	24	74 2-29/32"	M8	9 23/64"	9 23/64"
72	60 2-3/8"	65,5 2-37/64"	100 3-15/16"	38 ; (42mm **) 1-1/2" ; (1-21/32" **)	19	39	74 2-29/32"	M10	15 19/32"	9 23/64"
73	74,5 2-15/16"	79,5 3-1/8"	114 4-1/2"	46 ; (52mm **) 1-13/16" ; (2-1/16" **)	24	39	74 2-29/32"	M12	15 19/32"	9 23/64"

Semiconductor (AC) fuses

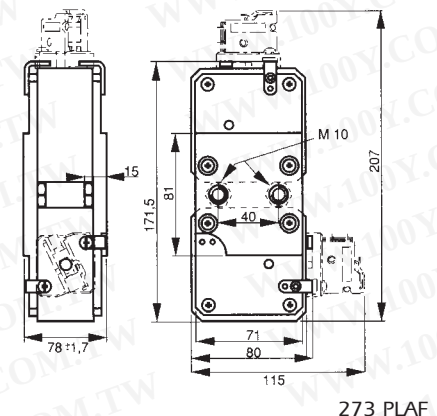
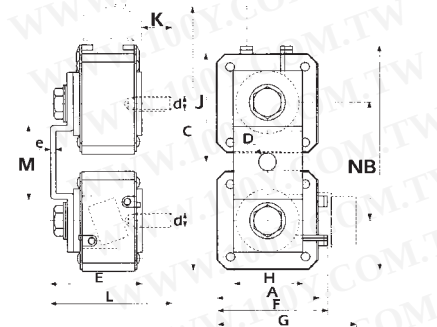
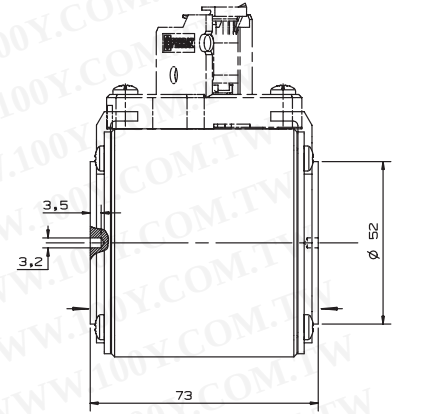


Protistor® Square-body Fuses

PSC aR sizes 7x - 650 V to 1300 VAC

IEC Terminals - French 272 - 273 End contacts

Size	Designation	Reference Number	Weight (g)	Packaging	Catalog Number
73	12,5 URD 73 PPAF 0315	H300640	1250	1	PC73UD13C315PP4
	12,5 URD 73 PPAF 0350	J300641			PC73UD13C350PP4
	12,5 URD 73 PPAF 0400	K300642			PC73UD13C405PP4
	12,5 URD 73 PPAF 0450	L300643			PC73UD13C450PP4
	12,5 URD 73 PPAF 0500	M300644			PC73UD13C500PP4
	12,5 URD 73 PPAF 0550	N300645			PC73UD13C550PP4
	12,5 URD 73 PPAF 0630	P300646			PC73UD13C630PP4
	12,5 URD 73 PPAF 0700	Q300647			PC73UD13C700PP4
	12,5 URD 73 PPAF 0800	R300648			PC73UD13C800PP4
	12 URD 73 PPAF 0900	S300649			PC73UD12C900PP4
	10 URD 73 PPAF 1000	T300650			PC73UD10C10CP4
	9,5 URD 73 PPAF 1100	V300651			PC73UD95V11CPP4
	9 URD 73 PPAF 1250	T300719			PC73UD90V13CP4
	8,5 URD 73 PPAF 1400	V300720			PC73UD85V14CP4
2 x 72	12,5 URD 272 TTF 0630	W300721	1900	1	PC272UD13C630TF
	12,5 URD 272 TTF 0700	X300722			PC272UD13C700TF
	12,5 URD 272 TTF 0800	Y300723			PC272UD13C800TF
	12,5 URD 272 TTF 0900	Z300724			PC272UD13C900TF
	12,5 URD 272 TTF 1000	A300725			PC272UD13C10CTF
	12,5 URD 272 TTF 1100	B300726			PC272UD13C11CTF
	11 URD 272 TTF 1250	M302231			PC272UD11C13CTF
	11 URD 272 TTF 1400	D300728			PC272UD11C14CTF
	10 URD 272 TTF 1600	L302230			PC272UD10C16CTF
	9 URD 272 TTF 1800	E301994			PC272UD90V18CTF
	7,5 URD 272 TTF 2000	F301995			PC272UD75V20CTF
	6,5 URD 272 TTF 2200	G301996			PC272UD65V22CTF
	6,5 URD 272 TTF 2500	H301997			PC272UD65V25CTF
	12,5 URD 273 TTF 0800	F300730	2600	1	PC273UD13C800TF
	12,5 URD 273 TTF 0900	G300731			PC273UD13C900TF
	12,5 URD 273 TTF 1000	H300732			PC273UD13C10CTF
	12,5 URD 273 TTF 1100	J300733			PC273UD13C11CTF
	12,5 URD 273 TTF 1250	K300734			PC273UD13C13CTF
	11 URD 273 TTF 1400	K302229			PC273UD11C14CTF
	11 URD 273 TTF 1600	J302228			PC273UD11C16CTF
	11 URD 273 TTF 1800	S302236			PC273UD11C18CTF
	10 URD 273 TTF 2000	P300738			PC273UD10C20CTF
	9,5 URD 273 TTF 2200	Q300739			PC273UD95V22CTF
	9,5 URD 273 PLAF 2200	M301909			PC76UD95V22CP11
	9 URD 273 PLAF 2500	R300740			PC76UD90V25CP11
	8,5 URD 273 PLAF 2800	S300741			PC76UD85V28CP11
	6 URD 273 PLAF 3000	K301999			PC76UD60V30CP11
2 x 73	6 URD 273 PLAF 3200	M302001	3100	1	PC76UD60V32CP11
	5,5 URD 273 PLAF 3600	N302002			PC76UD55V36CP11



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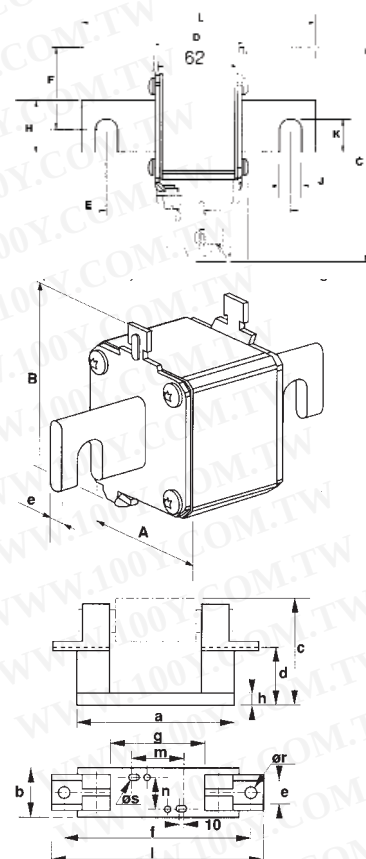
Microswitches and threaded studs
 supplied separately

	A	B	C	D	E	F	G	H	J	K	d	e	L	M	N
2 x 72 TTF	60	138,5	172	11	91	65,5	100	35	66	39	M 10	4	131	48	72
2 x 73 TTF	74,5	167	200	13	91	79,5	114	50	80	39	M 12	4	131	54	86

Note:
 Dimensions in mm

Protistor® Square-body Fuses PSC aR sizes 7x - 650 V to 1300 VAC IEC Terminals - French 70 - 73 Blades

Size	Designation	Reference Number	Weight (g)	Pack.	Base	I/I _N *	Catalog Number
70	12,5 URD 70 E F 0063	P300600	380	3	SP 70	1	PC70UD13C63EF
	12,5 URD 70 E F 0080	Q300601				1	PC70UD13C80EF
	12,5 URD 70 E F 0100	R300602				1	PC70UD13C100EF
	12,5 URD 70 E F 0125	S300603				0,95	PC70UD13C125EF
	12,5 URD 70 E F 0160	T300604				0,90	PC70UD13C160EF
	12,5 URD 70 E F 0200	V300605				0,85	PC70UD13C200EF
	12,5 URD 70 E F 0250	W300606				0,80	PC70UD13C250EF
	12 URD 70 E F 0280	L300712				0,80	PC70UD12C280EF
	12 URD 70 E F 0315	X300607				0,75	PC70UD12C315EF
	11 URD 70 E F 0350	Y300608				0,75	PC70UD11C350EF
	12,5 URD 71 E F 0160	C300750	570	3	SE 71	1	PC71UD13C160EF
71	12,5 URD 71 E F 0200	Z300609				1	PC71UD13C200EF
	12,5 URD 71 E F 0250	A300610				1	PC71UD13C250EF
	12,5 URD 71 E F 0280	M300713				0,95	PC71UD13C280EF
	12,5 URD 71 E F 0315	B300611				0,95	PC71UD13C315EF
	12,5 URD 71 E F 0350	C300612				0,90	PC71UD13C350EF
	12,5 URD 71 E F 0400	D300613				0,90	PC71UD13C400EF
	12,5 URD 71 E F 0450	E300614				0,85	PC71UD13C450EF
	11 URD 71 E F 0500	F300615				0,85	PC71UD11C500EF
	11 URD 71 E F 0550	G300616				0,80	PC71UD11C550EF
	10 URD 71 E F 0630	H300617				0,80	PC71UD10C630EF
72	12,5 URD 72 E F 0280	J300618	800	3	SE 72	1	PC72UD13C280EF
	12,5 URD 72 E F 0315	K300619				1	PC72UD13C315EF
	12,5 URD 72 E F 0350	L300620				1	PC72UD13C350EF
	12,5 URD 72 E F 0400	M300621				1	PC72UD13C400EF
	12,5 URD 72 E F 0450	N300622				0,95	PC72UD13C450EF
	12,5 URD 72 E F 0500	P300623				0,90	PC72UD13C500EF
	12,5 URD 72 E F 0550	Q300624				0,85	PC72UD13C550EF
	11 URD 72 E F 0630	R300625				0,85	PC72UD11C630EF
	10 URD 72 E F 0700	S300626				0,80	PC72UD10C700EF
	10 URD 72 E F 0800	T300627				0,80	PC72UD10C800EF
	12,5 URD 73 E F 0315	V300628	1150	1	SF50-73	1	PC73UD13C315EF
73	12,5 URD 73 E F 0350	W300629				1	PC73UD13C350EF
	12,5 URD 73 E F 0400	X300630				1	PC73UD13C400EF
	12,5 URD 73 E F 0450	Y300631				1	PC73UD13C450EF
	12,5 URD 73 E F 0500	Z300632				1	PC73UD13C500EF
	12,5 URD 73 E F 0550	A300633				0,95	PC73UD13C550EF
	12,5 URD 73 E F 0630	B300634				0,95	PC73UD13C630EF
	12 URD 73 E F 0700	C300635				0,90	PC73UD12C700EF
	11 URD 73 E F 0800	D300636				0,90	PC73UD11C800EF
	10 URD 73 E F 0900	E300637				0,85	PC73UD10C900EF
	9 URD 73 E F 1000	F300638				0,85	PC73UD90V10CEF
	9 URD 73 E F 1100	G300639				0,80	PC73UD90V11CEF



Pull out grip PM7 (V097676)
 in size 70-71-72

* I/I_N : Ratio "maximum
 continuous permissible RMS
 current I_N" for a fuse fitted into
 the bases.

Fuse holders and microswitches supplied separately

Connections defined as per IEC
 60269-1 and for a calm
 ambience of 30°C.

	A	B	C	D	E±1,3	L±1,3	F	H	J	k	e
70	40	62	96	67	100	123,4	38	18	9	11	6
71	51	69	103	68	110	133,4	39	25	10,5	16	6
72	60	78	112	68	114,4	149,4	43	32	13	21,2	6
73	74,5	92,5	127	68	114,4	149,4	57	40	13	19,5	6

Note: dimensions in mm

Fuse holders	Ref. N°	Cat. N°	a	b	c	d	e	f	g	h	l	m	n	r	s	Weight (g)
SP 70	F096099	SP70	148	42	92	47,5	26	168	88	10	188	60	28	8,5	5,5	400
SE 51-71	V098711	SE71	148	42	103	47	32	182	85	8,5	214	60	28	10,5	5,5	470
SE 52-72	W098712	SE72	150	54	114	49	42	204	80	10	240	45	35	12,5	8,5	940
SF 53-73	C209187	SF50-73	160	60	142	55	40	210	80	10	250	40	35	18	9	2000

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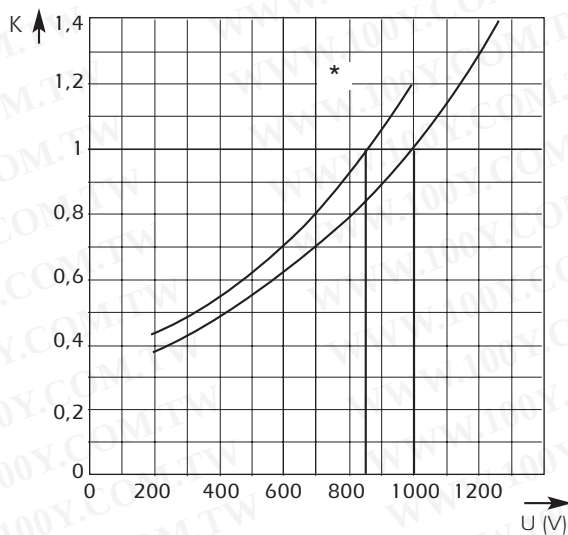
Microswitches
supplied separately



Semiconductor (AC) fuses

Protistor® Square-body Fuses PSC aR sizes 7x - 650 V to 1300 VAC Curves set

Multiplier coefficient



Left: Mean curve indicating variation of total I^2t (I^2t_t) and total operating time T_t in accordance with working voltage U .

Example:

Fuse 350 A in size 70.

$I_p = 10\,000\text{ A}$ $U = 1100\text{ V}$

At 1000 V

$I^2t_t = 115\,000\text{ A}^2\text{s}$ $T_t = 7\text{ ms}$

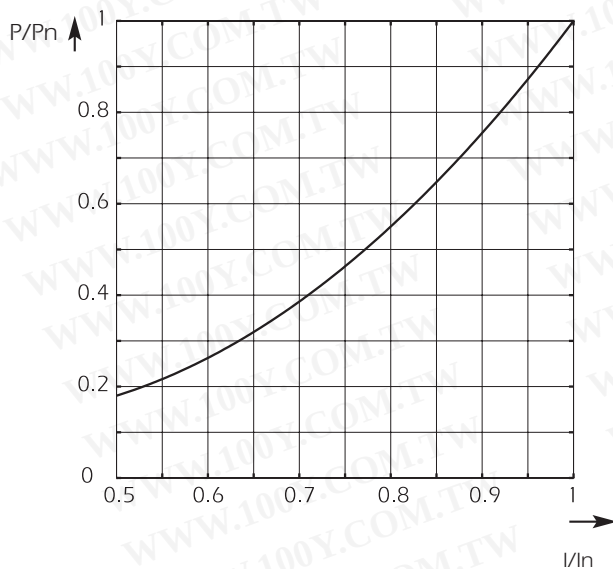
At 1100 V

$I^2t_t = 115\,000 \times 1.13 = 130\,000\text{ A}^2\text{s}$

$T_t = 7 \times 1.13 = 7.9\text{ ms}$

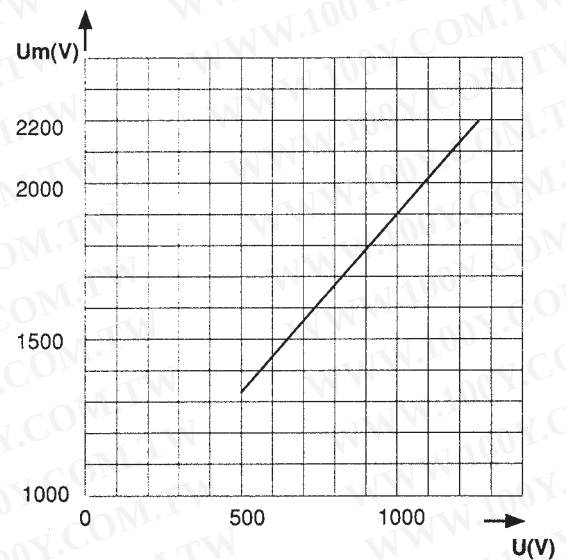
* curve for fuses with I^2t published at 850VAC

Dissipated power



Above left: Curve enabling calculation of dissipated power P by a fuse rated I_N , as a function of the RMS current I , in multiples of I_N , in steady state.

Arc voltage



Above right: Curve indicating peak arc voltage U_m which may appear across fuse terminals as a function of working voltage U at $\cos \varphi = 0.15$

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Semiconductor (AC) fuses

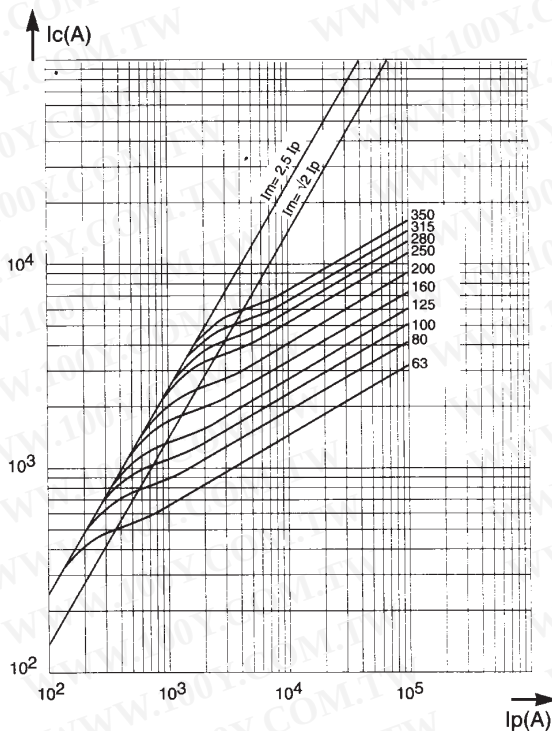
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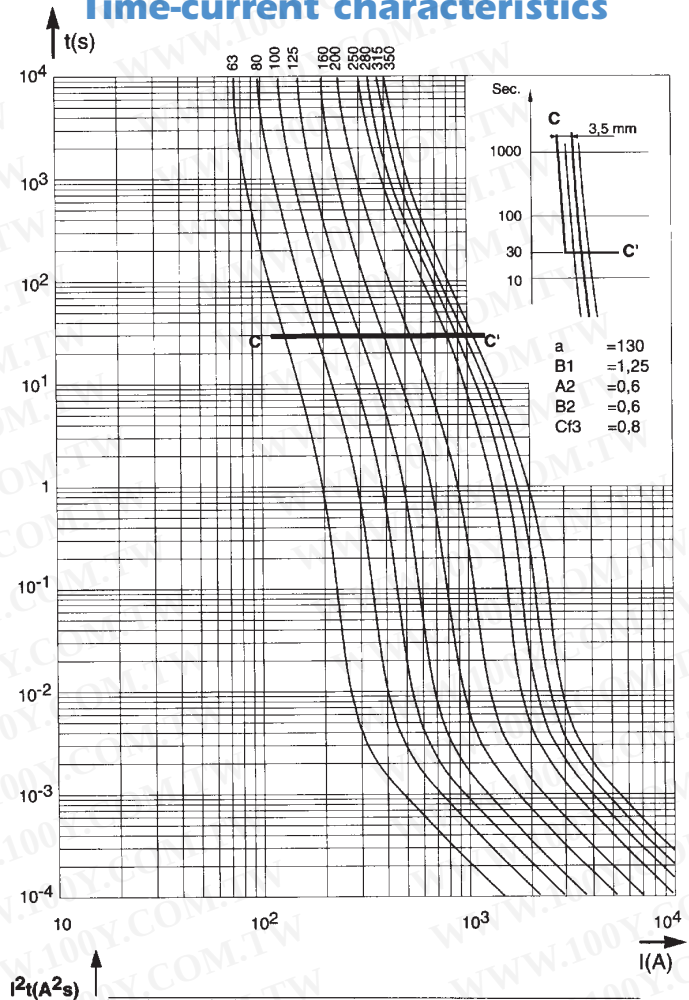
Size 70

Cut-off characteristics

Curves indicating for each rated current the peak value I_C that the current may reach as a function of the prospective fault current I_p .



Time-current characteristics



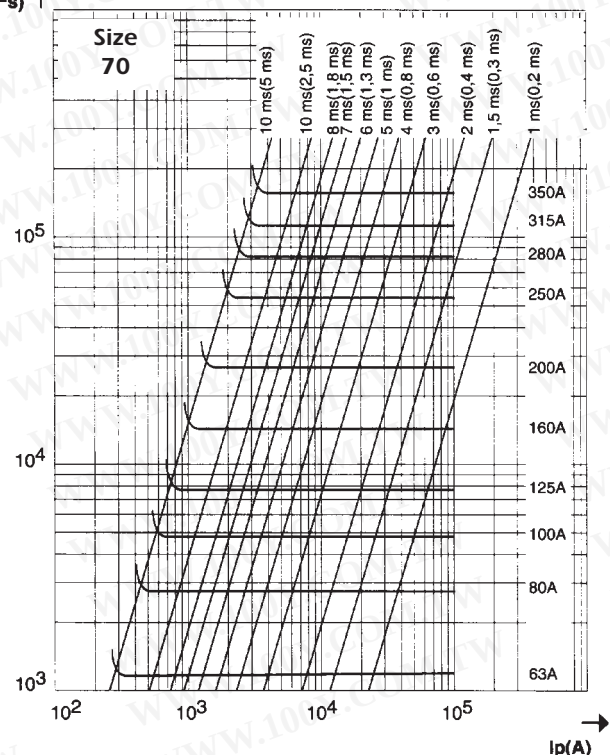
Time-current characteristics

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

- Tolerances on this current $\pm 8\%$.
- Beyond 30 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 indicates the minimum breaking current I_{pm} of the fuse.

Maximum values of total operating I^2t and total operating times

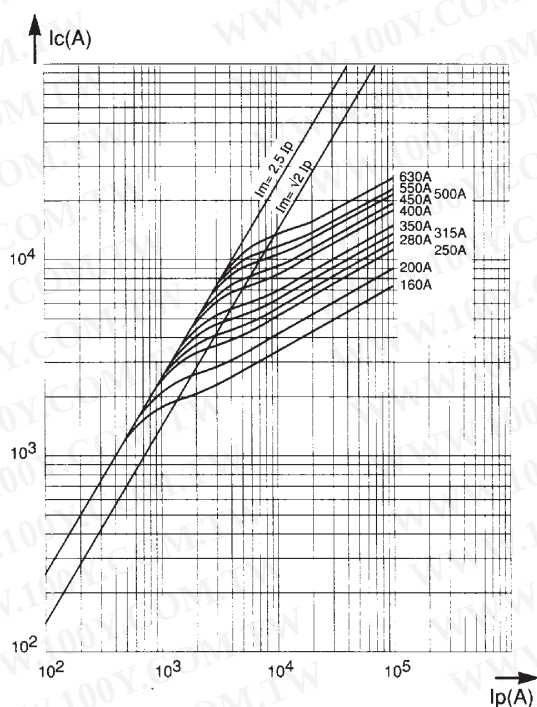
Horizontal curves indicating the maximum values of total operating I^2t (I^2t_t) as function of the prospective current I_p at 1000V or 850 V(*), $\cos \varphi = 0.15$.
 The oblique lines indicate the corresponding total operating time T_t , with pre-arcing time in brackets.



Protistor® Square-body Fuses PSC aR sizes 7x - 650 V to 1300 VAC Curves set

Cut-off characteristics

Curves indicating for each rated current the peak value I_C that the current may reach as a function of the prospective fault current I_p .



Time-current characteristics

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

- Tolerances on this current $\pm 8\%$.
- Beyond 30 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 indicates the minimum breaking current I_{pm} of the fuse.

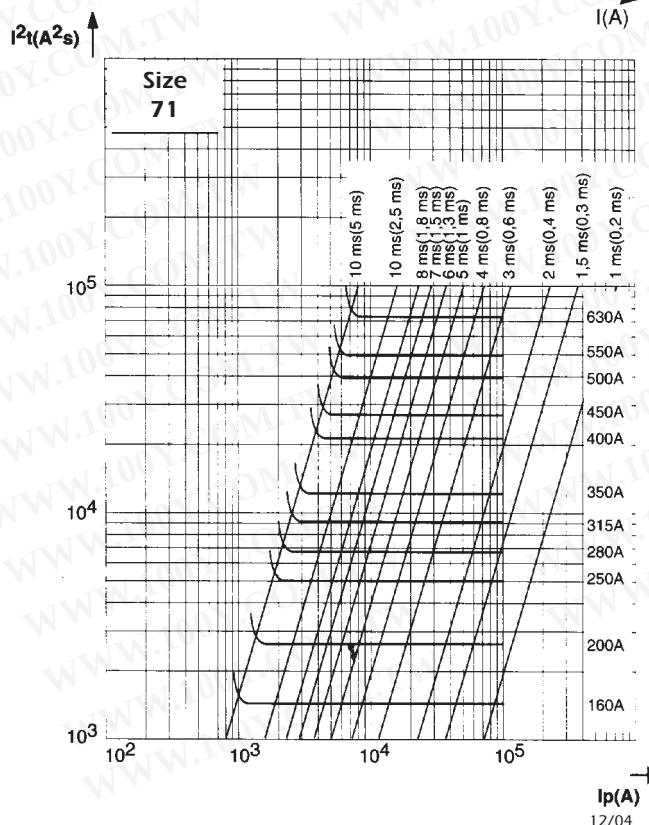
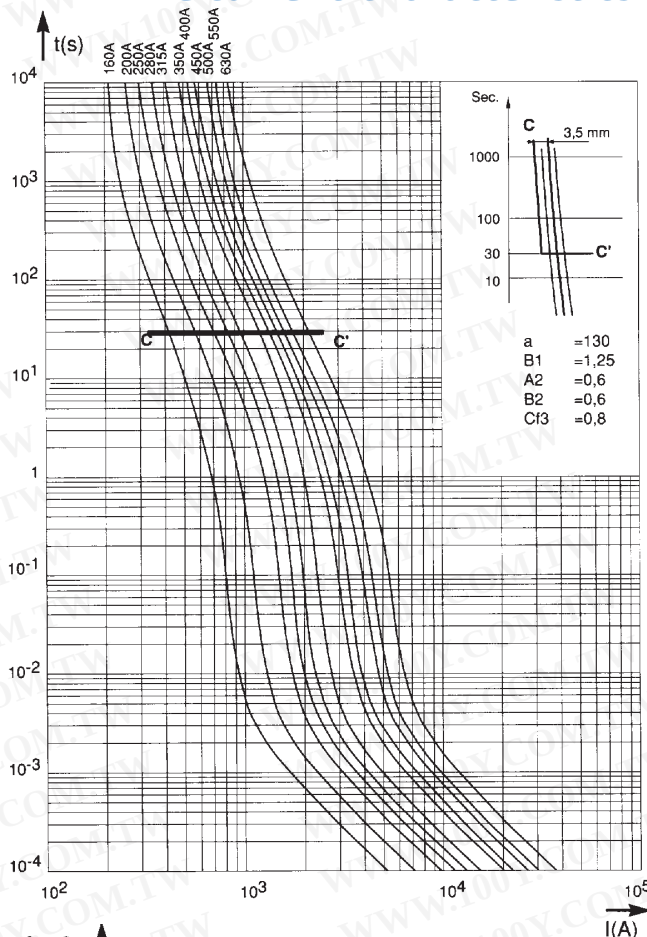
Maximum values of total operating I^2t and total operating times

Horizontal curves indicating the maximum values of total operating I^2t (I^2t_t) as function of the prospective current I_p at 1000V or 850 V(*), $\cos \varphi = 0.15$.

The oblique lines indicate the corresponding total operating time T_t with pre-arcing time in brackets.

Size 71

Time-current characteristics



Semiconductor (AC) fuses

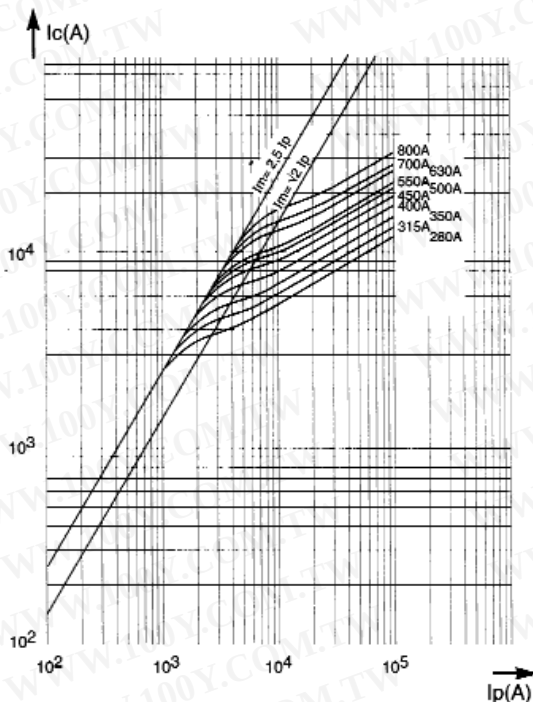
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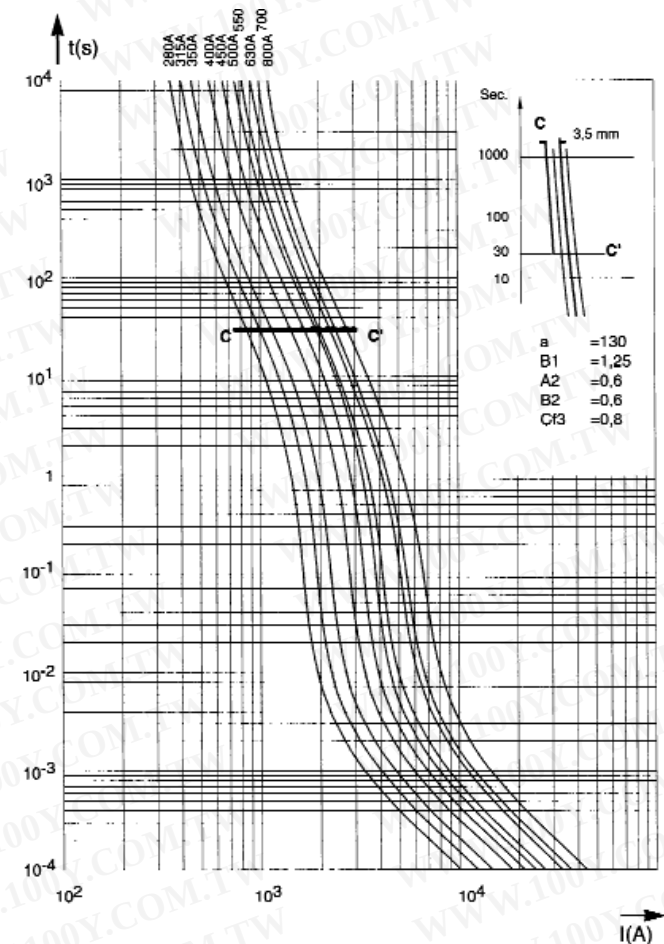
Size 72

Cut-off characteristics

Below, right: Curves indicating for each rated current the peak value I_C that the current may reach as a function of the prospective fault current I_p .



Time-current characteristics



Time-current characteristics

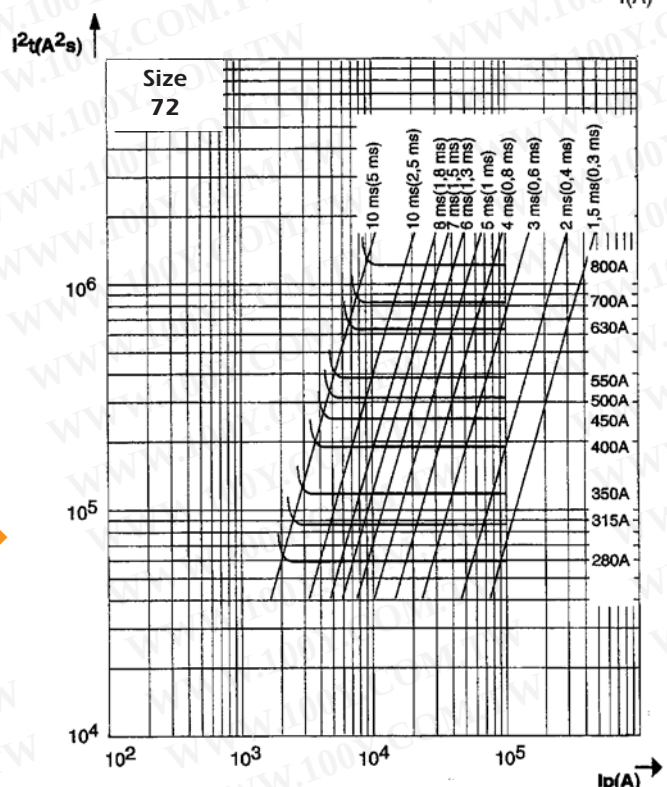
Above, left: Curves indicating pre-arcing time for each rated current as a function of RMS value of pre-arcing current I .

- Tolerances on this current $\pm 8\%$.
- Beyond 30 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 indicates the minimum breaking current I_{pm} of the fuse.

Maximum values of total operating I^2t and total operating times

Left: Horizontal curves indicating the maximum values of total operating I^2t (I^2t_t) as function of the prospective current I_p at 1000V or 850 V(*), $\cos \varphi = 0.15$.

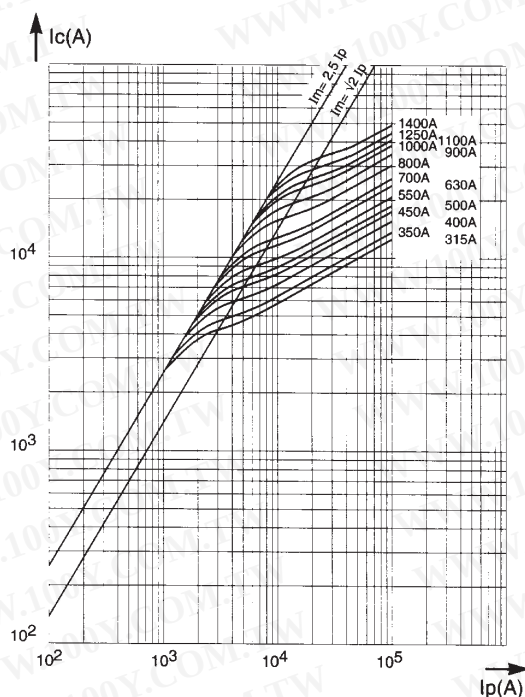
The oblique lines indicate the corresponding total operating time T_t , with pre-arcing time in brackets.



Protistor® Square-body Fuses PSC aR sizes 7x - 650 V to 1300 VAC Curves set

Cut-off characteristics

Curves indicating for each rated current the peak value I_C that the current may reach as a function of the prospective fault current I_P .

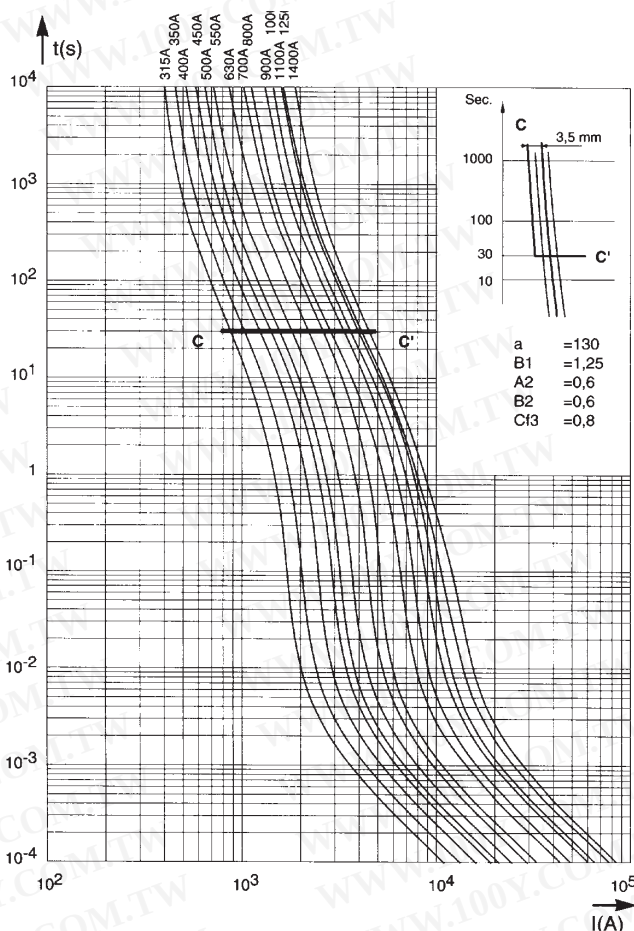


Time-current characteristics

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

- Tolerances on this current $\pm 8\%$.
- Beyond 30 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 indicates the minimum breaking current I_{pm} of the fuse.

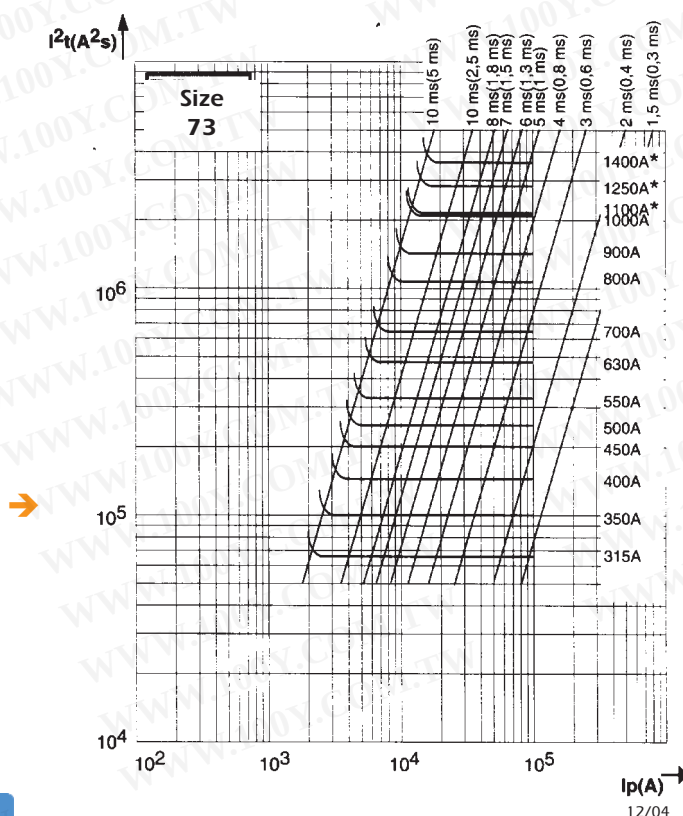
Size 73 Time-current characteristics



Maximum values of total operating I^2t and total operating times

Horizontal curves indicating the maximum values of total operating I^2t (I^2t_t) as function of the prospective current I_P at 1000V or 850 V(*), $\cos \varphi = 0.15$.

The oblique lines indicate the corresponding total operating time T_t with pre-arcing time in brackets.



Semiconductor (AC) fuses

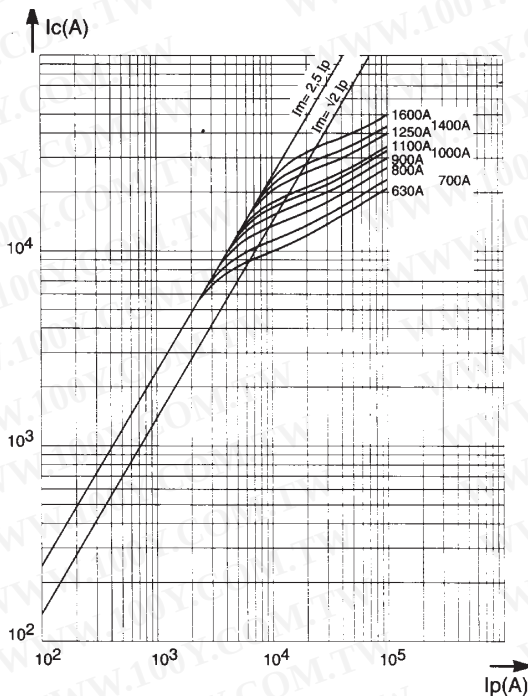
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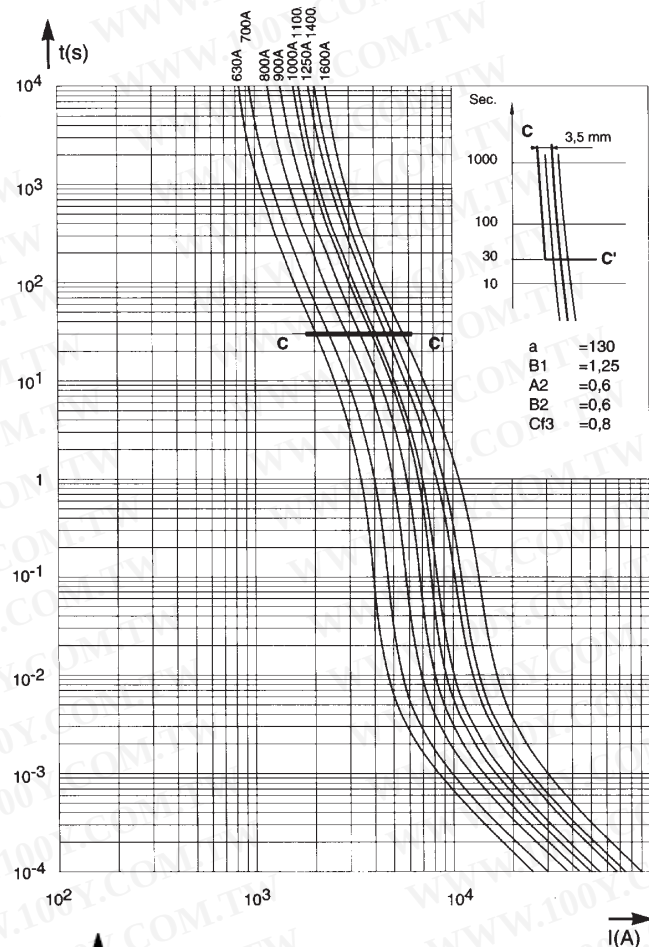
Size 2x72

Cut-off characteristics

Curves indicating for each rated current the peak value I_c that the current may reach as a function of the prospective fault current I_p .



Time-current characteristics



Time-current characteristics

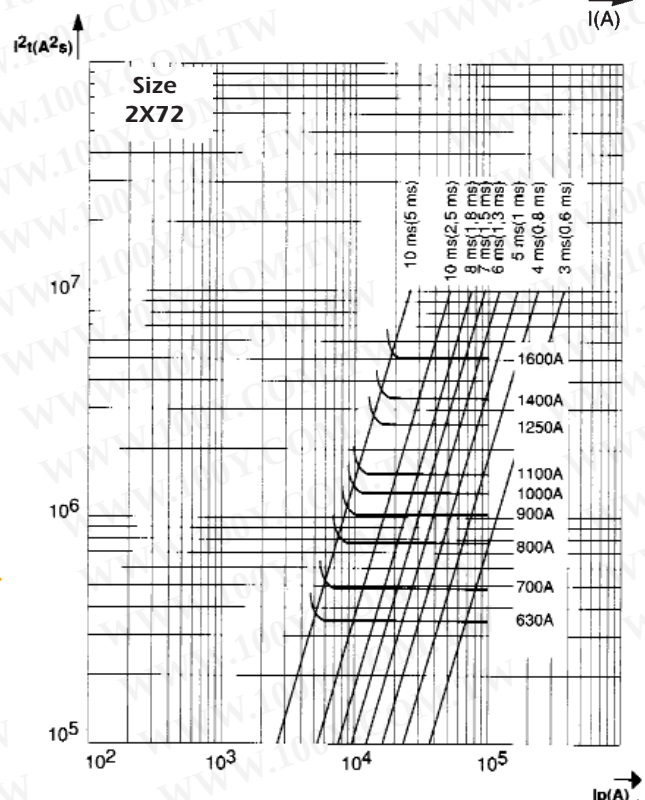
Curves indicating pre-arcing time for each rated current as a function of RMS value of pre-arcing current I .

- Tolerances on this current $\pm 8\%$.
- Beyond 30 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 indicates the minimum breaking current I_{pm} of the fuse.

Maximum values of total operating I^2t and total operating times

Horizontal curves indicating the maximum values of total operating I^2t (I^2t_t) as function of the prospective current I_p at 1000V or 850 V(*), $\cos \varphi = 0.15$.

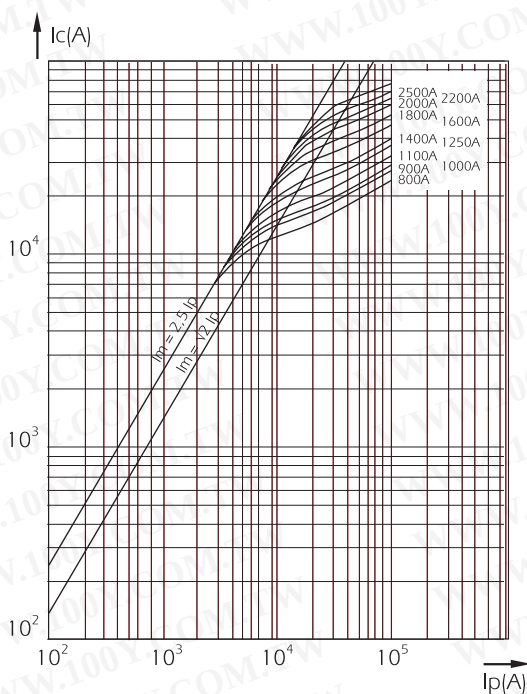
The oblique lines indicate the corresponding total operating time T_t , with pre-arcing time in brackets.



Protistor® Square-body Fuses PSC aR sizes 7x - 650 V to 1300 VAC Curves set

Cut-off characteristics

Curves indicating for each rated current the peak value I_C that the current may reach as a function of the prospective fault current I_P .



Time-current characteristics

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

- Tolerances on this current $\pm 8\%$.
- Beyond 30 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 indicates the minimum breaking current I_{pm} of the fuse.

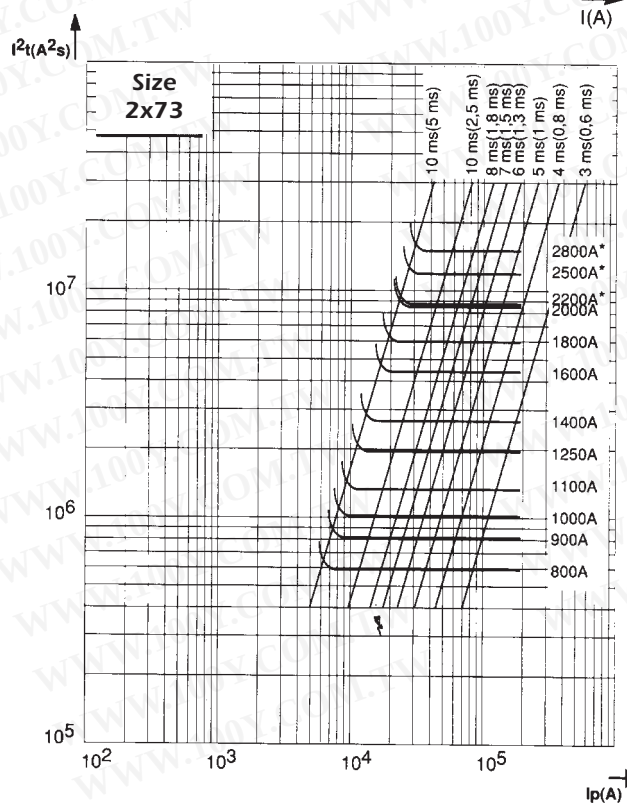
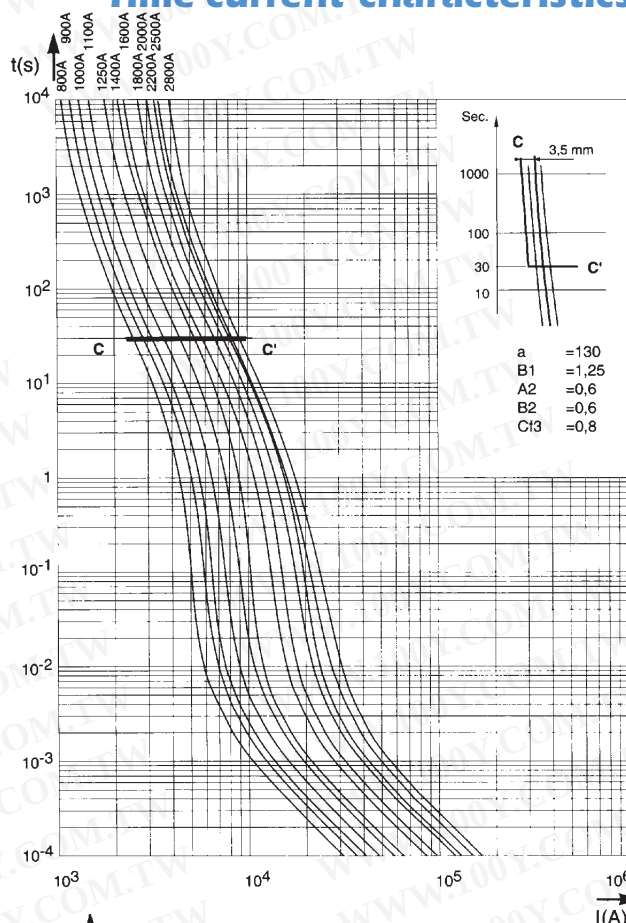
Maximum values of total operating I^2t and total operating times

Horizontal curves indicating the maximum values of total operating I^2t (I^2t_t) as function of the prospective current I_P at 1000V or 850 V(*), $\cos \varphi = 0.15$.

The oblique lines indicate the corresponding total operating time T_t with pre-arcing time in brackets.

Size 2x73

Time-current characteristics

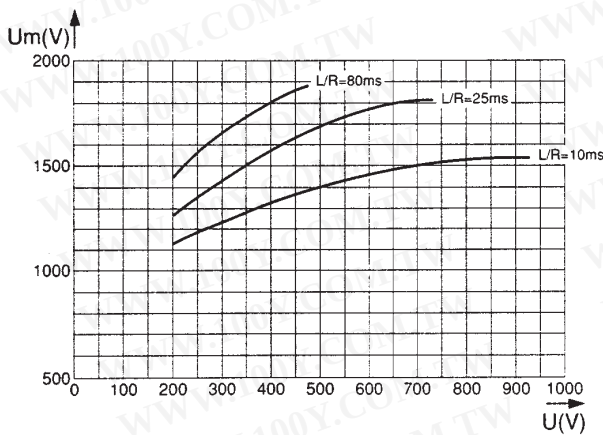
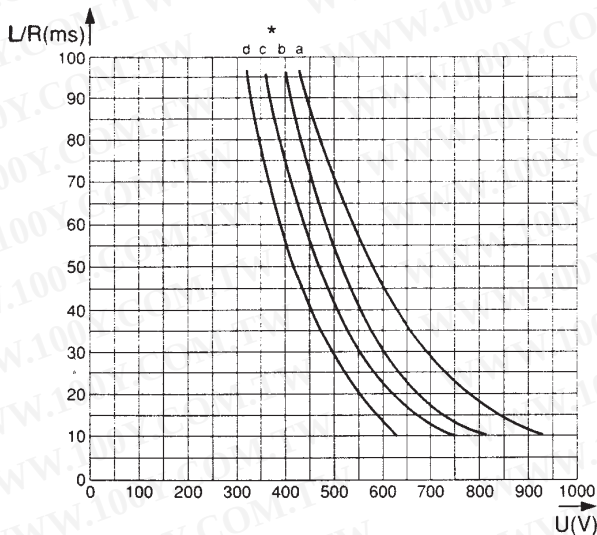


Semiconductor (AC) fuses

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Protistor® Square-body Fuses PSC aR sizes 7x - 650 V to 1300 VAC Curves set

DC working voltage possibilities



Top: Curves indicating the maximum time constant L/R of the fault path as a function of the DC voltage U , for the rated currents in the sizes indicated in the table.

I_{pm} (1) values indicate the minimum breaking current in Amperes (A).

Remark: When the fault current di/dt is very large, this condition can be exceeded. It is the case for faults occurring in voltage commutated inverters.

Below: Curves indicating peak arc voltage U_m which may appear across fuse terminals as a function of the DC working voltage U , for various time constant L/R of fault path.

Rated current I_N (A)	Curves (*) and I_{pm} (1) corresponding to the rating					
	70 * I_{pm} (A)	71 * I_{pm} (A)	72 * I_{pm} (A)	73 * I_{pm} (A)	2x72 * I_{pm} (A)	2x73 * I_{pm} (A)
63	a 270					
80	a 400					
100	a 520					
125	a 700					
160	a 950	a 950				
200	a 1300	a 1300				
250	a 1800	a 1800				
280	b 2200	a 2000	a 1800			
315	b 2600	a 2300	a 2200	a 2000		
350	c 3000	a 2700	a 2600	a 2400		
400		b 3500	a 3200	a 3000		
450		b 4000	a 3800	a 3500		
500		c 4800	a 4600	a 3900		
550		c 5200	b 5000	a 4400		
630		c 6400	b 6200	a 5300	a 4400	
700			c 6800	a 6000	a 5200	
800			c 8000	b 8000	a 6400	a 6000
900				b 9000	a 7600	a 7000
1000				c 11000	a 9200	a 7800
1100				c 12000	b 10000	a 8800
1250				c 13500	b 12400	a 10600
1400				c 15000	c 13600	a 12000
1600					c 16000	b 16000
1800						b 18000
2000						c 22000
2200						c 24000
2500						d 27000
2800						d 30000

Protistor® Square-body Fuses PSC aR sizes 7x - 650V to 1300 VAC Microswitches PSC 3x & 7x

- MICROSWITCH SYSTEMS ADAPTED TO THE FOLLOWING FERRAZ SHAWMUT FUSES ONLY:
- PSC sizes 30, 31, 32, 33, 2x32, 2x33 / 70, 71, 72, 73, 272, 273 except plain blades
- PSC LR sizes 33, 233, 73, 273
- PERMANENT INDICATION OF FUSE STATE: CONDUCTIVE
BLOWN
- MANUAL RESETTING
- STANDRAD AND LOW ELECTRICAL LEVEL WITH DIFFERENT INSULATION LEVELS
- BS TYPE FOR USE IN CORROSIVE ATMOSPHERE
- MS 3V 1-5 UR AND MS 7V 1-5 UR TYPE UL ARE RECOGNIZED



MS 7V 1-5

Main Characteristics

Code	AC Insulation voltage rating (***)	Positive operating voltage/current	Current rating	Current	Breaking Capacity						AC voltage withstand test (*)	Impulse voltage test Uimp1.2/50 μs (**)	Fire class according to UL 94
					Non inductive circuit			Inductive circuit : L/R = 25ms					
					30V	110V	250V	30V	110V	250V			
MS 3V 1-5	1000 V	20 V 50 mA	10 A	50/60 Hz	10 A	10 A	10 A	10 A	10 A	10 A	8,5 kV	14 kV	H.B
MS 3V 1-5 UR													
MS 7V 1-5	1500V	10 V 10 mA	3 A	DC	8 A	0,4 A	0,2 A	4 A	0,2 A	0,1 A	12 kV	20 kV	
MS 7V 1-5 UR													
MS 3V 1-5 BS	1000 V	10 V 10 mA	3 A	50/60 Hz	3 A	3 A	3 A	2 A	1 A	1 A	8,5 kV	14 kV	
MS 3V 1-9 BS													
MS 7V 1-5 BS	1500V	10 V 10 mA	3 A	DC	3 A	0,5 A	0,25 A	3 A	0,2 A	0,1 A	12 kV	20 kV	
MS 7V 1-9 BS													
MS 3V 1-5 ET	1000V	10 V	3 A	50/60 Hz	3 A	3 A	3 A	2 A	1 A	1 A	8,5 kV	14 kV	
MS 7V 1-5 ET	1500V	10 mA		DC	3 A	0,5 A	-	2 A	0,2 A	-	12 kV	20 kV	

* Between power circuit and microswitch terminals as per IEC 60 and 694 and NFC 64010 (50/60 Hz 1 min duration in dry air)

** Between power circuit and microswitch terminals Uimp: impulse voltage as per IEC 60947-1

*** Between power circuit and microswitch terminals

Warning: microswitch systems exclusively designed for FERRAZ SHAWMUT.

PSC Fuses fitted a petented trip-indicator, saving use of EDV

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Semiconductor (AC) fuses

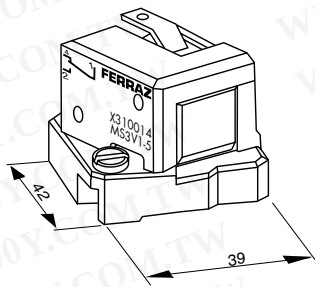
Protistor® Square-body Fuses PSC aR sizes 7x - 650V to 1300 VAC Microswitches for PSC 3x & 7x

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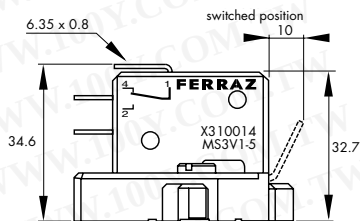
Indication systems for PSC Fuse sizes 30 to 73

MS 3V...

These patented indication systems are exclusively hand resettable.



(fig. 1)

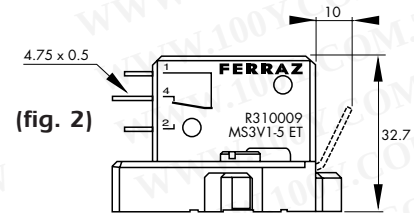


Fuse size	Designation	Ref. Number	Indication style	Weight (g)	Pack.	Catalog Number
30, 31 32, 33	MS 3V 1-5 (fig.1)	X310014	Standard NO-NC	34	3 pieces	MS3 V1-5
	MS 3V 1-5 UR	Y310038				MS3 V1-5UR
	MS 3V 1-5 BS (3)	W310013	Low level NO-NC	34	3 pieces	MS3-V1-5BS
	MS 3V 1-9 BS (4)	T310011	Double pole Low level	44	3 pieces	MS3V1-9BS
	MS 3V 1-5 ET (fig.2)	R310009	Low level NO-NC IP 50 (9)	34	3 pieces	MS3V1-5 ETANCHE

(3) Same as fig.1

(4) Same dimensions as figure 1 but with 2 microswitches side by side

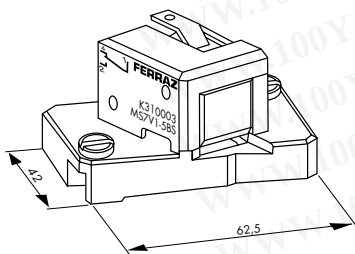
(9) Watertightness class



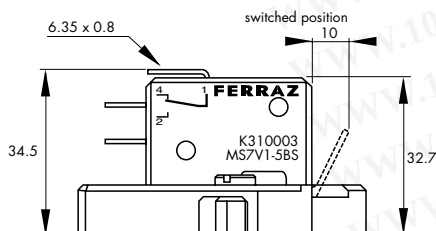
(fig. 2)

MS 7V...

Fuse size	Designation	Ref. Number	Indication style	Weight (g)	Pack.	Catalog Number
70, 71 72, 73	MS 7V 1-5 (fig.5)	J310002	Standard NO-NC	45	3 pieces	MS7 V1-5
	MS 7V 1-5 UR	Z310039				MS7 V1-5UR
	MS 7V 1-5 BS (3)	K310003	Low level NO-NC	45	3 pieces	MS7-V1-5BS
	MS 7V 1-9 BS (4)	P310007	Double pole Low level	55	3 pieces	MS7V1-9BS
	MS 7V 1-5 ET (fig.6)	S310010	Low level NO-NC IP 50 (9)	55	3 pieces	MS7V1-5 ETANCHE



(fig. 5)

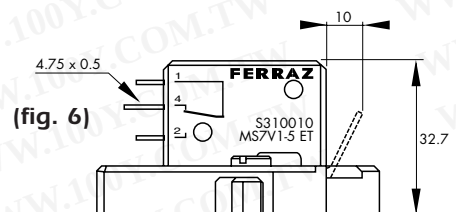


(7) Same as fig. 5

(8) Same dimensions as figure 5 but with 2 microswitches side by side

(9) Watertightness class

Warning: Microswitch systems exclusively designed for FERRAZ SHAWMUT PSC fuses fitted with a patented trip-indicator, saving use of EDV.



(fig. 6)

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Protistor® Square-body Fuses PSC aR sizes 7x - 650 V to 1300 VAC Metric-studs

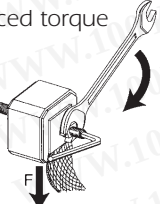
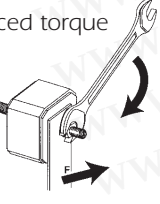
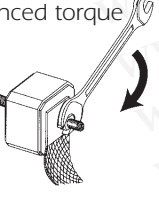
Metric studs for threaded terminal fuses



Type and fuse size	Designation	Ref. Number	Unit weight (g)	Pack.	Catalog Number
 Sizes 0 and 1	HC stud pair M8x30 & M8x35	S098801	23	6 pairs	STU M8x30 M8x35
	HC stud pair M10x30 & M10x50	T098802	40	6 pairs	STU M10x30 M10x50
 Size 2 Size 3	HC stud pair M12x35 & M12x50	V098803	60	6 pairs	STU M12x35 M12x50
	HC stud pair M10x50	W098804	45	6 pairs	STU M10x50
	HC stud pair M12x50	X098805	45	6 pairs	STU M12x50

We recommend the use of studs, whose quality is suited to all FERRAZ SHAWMUT square-body fuses with terminals

Stud mounting

Torque type	Stud type	Maximum stud tightening torque (Nm) (1)	Maximum nut tightening torque (Nm) (1)
Balanced torque 	M8x30 & M8x35	10	13.5
	M10x30 & M10x50	15	26
	M12x35 & M12x50	15	46
Balanced torque 	M8x30 & M8x35	10	13.5
	M10x30 & M10x50	15	26
	M12x35 & M12x50	15	46
Unbalanced torque 	M8x30 & M8x35	10	13.5
	M10x30 & M10x50	15	26
	M12x35 & M12x50	15	46

(1) Factory limit on torque at 20°C ambient: +0, -2Nm; except on 46Nm value (+0, -4Nm)