Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
Main characteristics

450 TO 700VAC / 63 TO 2800A

Recognized

Exceptionally low I^2T, Watt losses.
Non-magnetic construction,
Highly reliable low voltage
Trip-indicator system, conformity to UL,
IEC, DIN and VDE standards.
Increased technical performance

- Highter ratings
- Reduction in volume and weight

This fuse preselection table indicates, for each size:

- rated current (or rating) In
- pre-arcing I^2t (I^2tp) at 1 ms
- total operating I^2t (I^2tt) at 660 V, f=50Hz cos φ=0.15, and for a total operating time from 8 to 10 ms
- dissipated power Pn at the rated current In, and at 0.8 In, in steady state
- breaking capacity at various voltages, checked by tests
  made in accordance with IEC and American standards.

Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
Main characteristics

Estimated breaking capacity: 300kA

Size	Nominal Voltage (VAC)		Ampere Rating (A)	Pre-arcing I²t @ 1ms (kA²s)	Total I²t @ 660V (*) @ Un (kA²s)	Power Pn (W)		Tested Breaking capacity (kA)	
	IEC	USA				End contact	Blades	IEC @ 690V (*) @ Un	USA @ 700V (*) @ Un
30	690	700	50	0,116	0,62	9	9	200	200
			63	0,2	1,1	14	14		
			80	0,33	1,8	19	19		
			100	0,47	2,5	26	26		
			125	0,85	4,5	30	30		
			160	1,6	8,5	37	37		
			200	3	15,5	42	43		
			250	5,8	30	48	50		
			315	12	62	53	55		
			350	15,5	80	57	60		
			400	23	120	60	65		
			450	26	150	80	88		
			500	41	240	80	88		
			550	52	300	80	90		
	600	650	630	84	450(*)	85	95	200(*)	200(*)
31	690	700	160	1,3	7	35	35	200	200
			200	2,6	13,5	45	45		
			250	4,7	25	52	52		
			315	7,5	40	65	65		
			350	10,5	55	67	67		
			400	19	100	68	68		
			450	26,5	140	70	70		
			500	37	195	70	72		
			550	52	280	70	75		
			630	75	390	75	85		
			700	95	490	85	95		
			800	140	800	105	120		
32	690	700	315	5,2	28,9	71	71	200	200
			350	8,9	48,8	71	74		
			400	15	80	72	75		
			450	22	115	77	80		
			500	28	145	85	90		
			550	37	195	90	95		
			630	54	280	95	105		
			700	76	400	100	110		
			800	115	600	110	120		
			900	170	900	110	125		
			1000	240	1250	115	135		
	600	650	1100	270	1450(*)	140	165	160(*)	160(*)
	550	600	1250	410	1950(*)	150	180	150(*)	150(*)
	500	550	1400	555	2300(*)	160	200	130(*)	130(*)
			1600	870	3600(*)	165	205		
	450	500	1800	1050	3700(*)	195	230	110(*)	110(*)
33	690	700	450	13,45	74,1	84	88	200	200
			500	19	100	105	105		
			550	27	140	105	110		
			630	40	210	110	120		
			700	55	300	115	125		
			800	95	490	120	130		
			900	135	700	120	135		
			1000	170	900	135	155		
			1100	240	1260	135	160		
			1250	350	1850	150	180		
			1400	480	2500	160	200		
	600	650	1500	500	2500(*)	210	240	160(*)	160(*)
			1600	555	2900(*)	210	240		
			1800	720	3870(*)	225	260		
	550	600	2000	950	4500(*)	250	290	150(*)	150(*)
	500	550	2250	1250	5160(*)	280	320	130(*)	130(*)
	450	500	2500	1870	6540(*)	280	330	110(*)	110(*)
2X32	690	700	800	60	320	144		200	200
			1000	110	590	165			
			1250	220	1100	190			
			1400	300	1600	200			
			1600	450	2400	220			
			1800	700	3500	225			
			2000	950	5000	235			
	550	600	2200	1100	5250(*)	280		150(*)	150(*)
2x33	690	700	1000	76	395	220		170	170
			1250	160	850	230			
			1400	225	1200	240			
			1600	375	1900	250			
			1800	530	2800	250			
	600	650	2000	700	3100(*)	280		160(*)	160(*)
			2200	950	4400(*)	280			
			2500	1400	6600(*)	310			
			2800	1900	8800(*)	330			

For others Ampere ratings consult us

Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
American Terminals - 30 - 33 End contacts

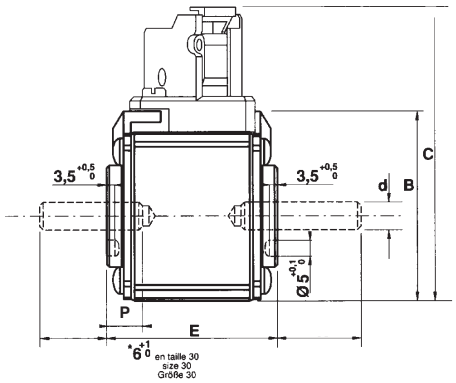
Size	Designation	Reference Number	Weight (g)	Packaging	Catalog Number
30	A070 URD 30 TTI 0050	V302744	245	3	A070UD30TTI 50
	A070 URD 30 TTI 0063	A301967			A070UD30TTI 63
	A070 URD 30 TTI 0080	V301962			A070UD30TTI 80
	A070 URD 30 TTI 0100	W300744			A070UD30TTI100
	A070 URD 30 TTI 0125	G300708			A070UD30TTI125
	A070 URD 30 TTI 0160	N300576			A070UD30TTI160
	A070 URD 30 TTI 0200	P300577			A070UD30TTI200
	A070 URD 30 TTI 0250	Q300578			A070UD30TTI250
	A070 URD 30 TTI 0315	R300579			A070UD30TTI315
	A070 URD 30 TTI 0350	S300580			A070UD30TTI350
	A070 URD 30 TTI 0400	T300581			A070UD30TTI400
	A070 URD 30 TTI 0450	V300582			A070UD30TTI450
	A070 URD 30 TTI 0500	W300583			A070UD30TTI500
	A070 URD 30 TTI 0550	X300584			A070UD30TTI550
	A065 URD 30 TTI 0630	A302703			A065UD30TTI630
31	A070 URD 31 TTI 0160	-	370	3	
	A070 URD 31 TTI 0200	A300472			A070UD31TTI200
	A070 URD 31 TTI 0250	B300473			A070UD31TTI250
	A070 URD 31 TTI 0315	C300474			A070UD31TTI315
	A070 URD 31 TTI 0350	D300475			A070UD31TTI350
	A070 URD 31 TTI 0400	E300476			A070UD31TTI400
	A070 URD 31 TTI 0450	F300477			A070UD31TTI450
	A070 URD 31 TTI 0500	G300478			A070UD31TTI500
	A070 URD 31 TTI 0550	H300479			A070UD31TTI550
	A070 URD 31 TTI 0630	J300480			A070UD31TTI630
	A070 URD 31 TTI 0700	K300481			A070UD31TTI700
	A070 URD 31 TTI 0800	L300482			A070UD31TTI800
32	A070 URD 32 TTI 0315	-	510	3	
	A070 URD 32 TTI 0350	-			
	A070 URD 32 TTI 0400	Q300463			A070UD32TTI400
	A070 URD 32 TTI 0450	N300461			A070UD32TTI450
	A070 URD 32 TTI 0500	P300462			A070UD32TTI500
	A070 URD 32 TTI 0550	R300464			A070UD32TTI550
	A070 URD 32 TTI 0630	S300465			A070UD32TTI630
	A070 URD 32 TTI 0700	T300466			A070UD32TTI700
	A070 URD 32 TTI 0800	V300467			A070UD32TTI800
	A070 URD 32 TTI 0900**	W300468			A070UD32TTI900
	A070 URD 32 TTI 1000**	X300469			A070UD32TTI1000
	A065 URD 32 TTI 1100**	M301081			A065UD32TTI1100
	A060 URD 32 TTI 1250**	N301082			A060UD32TTI1250
	A055 URD 32 TTI 1400**	P301083	600	3	A055UD32TTI1400
	A055 URD 32 TTI 1600**	Q301084			A055UD32TTI1600
	A050 URD 32 TTI 1800**	R301085			A050UD32TTI1800
33	A070 URD 33 TTI 0450	X302171	790	3	A070UD33TTI450
	A070 URD 33 TTI 0500	X300446			A070UD33TTI500
	A070 URD 33 TTI 0550	Y300447			A070UD33TTI550
	A070 URD 33 TTI 0630	Z300448			A070UD33TTI630
	A070 URD 33 TTI 0700	A300449			A070UD33TTI700
	A070 URD 33 TTI 0800	T300443			A070UD33TTI800
	A070 URD 33 TTI 0900	B300450			A070UD33TTI900
	A070 URD 33 TTI 1000	C300451			A070UD33TTI1000
	A070 URD 33 TTI 1100	D300452			A070UD33TTI1100
	A070 URD 33 TTI 1250**	E300453			A070UD33TTI1250
	A070 URD 33 TTI 1400**	F300454			A070UD33TTI1400
	A065 URD 33 TTI 1500**	F302064			A065UD33TTI1500
	A065 URD 33 TTI 1600**	S301086			A065UD33TTI1600
	A065 URD 33 TTI 1800**	T301087	910	3	A065UD33TTI1800
	A060 URD 33 TTI 2000**	V301088			A060UD33TTI2000
	A055 URD 33 TTI 2250**	W301089			A055UD33TTI2250
	A050 URD 33 TTI 2500**	Y300838			A050UD33TTI2500

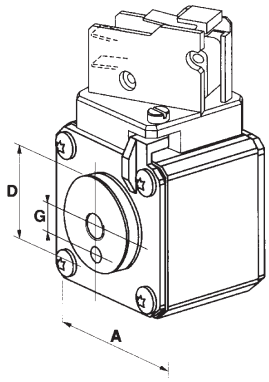
Rated Voltage as per American standard

Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
American Terminals - 30 - 33 End contacts

Size	A	B	C	D	$E^{\pm 1}$	d	$G^{\pm 0.1}$	$P^{\pm 0.1}$
30	40 1-19/32"	46.5 1-27/32"	82 3-7/32"	26 1"	50.6 2"	5/16"-18	9 23/64"	6 15/64"
31	51 2"	56.5 2-7/32"	91 3-37/64"	30 1-3/16"	50.6 2"	5/16"-18	9 23/64"	9 23/64"
32	60 2-3/8"	65.5 2-37/64"	100 3-15/16"	38 ; (42 **) 1-1/2" ; (1-21/32" **)	50.6 2"	3/8"-16	15 19/32"	9 23/64"
33	74.5 2-15/16"	79.5 3-1/8"	114 4-1/2"	46 ; (52 **) 1-13/16" ;(2-1/16 **)	50.6 2"	1/2"-13	15 19/32"	9 23/64"

Note:
dimensions in mm
dimensions in inches





Microswitches are supplied separately see microswitches PSC 3x & 7x section

Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
American Terminals - 30 - 33 Blades

Rated voltage as per American standard.

Size	Designation	Reference Number K	Weight (g)	Pack.	Catalog Number
30	A 070 URD 30 KI 0050	E301925	290	3	A070UD30KI050
	A 070 URD 30 KI 0063	B300128			A070UD30KI63
	A 070 URD 30 KI 0080	C300129			A070UD30KI080
	A 070 URD 30 KI 0100	D300130			A070UD30KI100
	A 070 URD 30 KI 0125	E300131			A070UD30KI125
	A 070 URD 30 KI 0160	F300132			A070UD30KI160
	A 070 URD 30 KI 0200	G300133			A070UD30KI200
	A 070 URD 30 KI 0250	H300134			A070UD30KI250
	A 070 URD 30 KI 0315	J300135			A070UD30KI315
	A 070 URD 30 KI 0350	K300136			A070UD30KI350
	A 070 URD 30 KI 0400	L300137			A070UD30KI400
	A 070 URD 30 KI 0450	T301064			A070UD30KI450
	A 070 URD 30 KI 0500	V301065			A070UD30KI500
	A 070 URD 30 KI 0550	W301066			A070UD30KI550
	A 065 URD 30 KI 0630	-			
31	A 070 URD 31 KI 0160	F300385	430	3	A070UD31KI160
	A 070 URD 31 KI 0200	S300028			A070UD31KI200
	A 070 URD 31 KI 0250	T300029			A070UD31KI250
	A 070 URD 31 KI 0315	V300030			A070UD31KI315
	A 070 URD 31 KI 0350	R300050			A070UD31KI350
	A 070 URD 31 KI 0400	W300031			A070UD31KI400
	A 070 URD 31 KI 0450	X300032			A070UD31KI450
	A 070 URD 31 KI 0500	Y300033			A070UD31KI500
	A 070 URD 31 KI 0550	Z300034			A070UD31KI550
	A 070 URD 31 KI 0630	A300035			A070UD31KI630
	A 070 URD 31 KI 0700	B300036			A070UD31KI700
	A 070 URD 31 KI 0800	A301070			A070UD31KI800
32	A 070 URD 32 KI 0400	Z300195	590	3	A070UD32KI400
	A 070 URD 32 KI 0450	A300196			A070UD32KI450
	A 070 URD 32 KI 0500	B300197			A070UD32KI500
	A 070 URD 32 KI 0550	C300198			A070UD32KI550
	A 070 URD 32 KI 0630	D300199			A070UD32KI630
	A 070 URD 32 KI 0700	E300200			A070UD32KI700
	A 070 URD 32 KI 0800	F300201			A070UD32KI800
	A 070 URD 32 KI 0900	G300202			A070UD32KI900
	A 070 URD 32 KI 1000	H300203			A070UD32KI1000
	A 065 URD 32 KI 1100	-			
	A 060 URD 32 KI 1250	-	660		
	A 055 URD 32 KI 1400	-			
	A 055 URD 32 KI 1600	-			
	A 050 URD 32 KI 1800	-			
33	A 070 URD 33 KI 0500	W300238	860	3	A070UD33KI500
	A 070 URD 33 KI 0550	X300239			A070UD33KI550
	A 070 URD 33 KI 0630	Y300240			A070UD33KI630
	A 070 URD 33 KI 0700	Z300241			A070UD33KI700
	A 070 URD 33 KI 0800	A300242			A070UD33KI800
	A 070 URD 33 KI 0900	B300243			A070UD33KI900
	A 070 URD 33 KI 1000	C300244			A070UD33KI1000
	A 070 URD 33 KI 1100	D300245			A070UD33KI1100
	A 070 URD 33 KI 1250	E300246			A070UD33KI1250
	A 070 URD 33 KI 1400	F300247			A070UD33KI1400
	A 065 URD 33 KI 1600	E302063			A065UD33KI1600
	A 065 URD 33 KI 1800	-			
	A 060 URD 33 KI 2000	-			
	A 055 URD 33 KI 2250	-			
	A 050 URD 33 KI 2500	-	1070		

Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
American Terminals - 30 - 33 Blades

Rated voltage as per American standard.

Size	Designation	Reference Number	Weight (g)	Pack.	Catalog Number
		L			
30	A 070 URD 30 LI 0050	A301921	290	3	A070UD30LI050
	A 070 URD 30 LI 0063	M300138			A070UD30LI63
	A 070 URD 30 LI 0080	N300139			A070UD30LI080
	A 070 URD 30 LI 0100	P300140			A070UD30LI100
	A 070 URD 30 LI 0125	Q300141			A070UD30LI125
	A 070 URD 30 LI 0160	R300142			A070UD30LI160
	A 070 URD 30 LI 0200	S300143			A070UD30LI200
	A 070 URD 30 LI 0250	T300144			A070UD30LI250
	A 070 URD 30 LI 0315	V300145			A070UD30LI315
	A 070 URD 30 LI 0350	W300146			A070UD30LI350
	A 070 URD 30 LI 0400	X300147			A070UD30LI400
	A 070 URD 30 LI 0450	K300527			A070UD30LI450
	A 070 URD 30 LI 0500	L300528			A070UD30LI500
	A 070 URD 30 LI 0550	M300529			A070UD30LI550
	A 060 URD 30 LI 0630	P302003			A060UD30LI630
31	A 070 URD 31 LI 0160	D301924	430	3	A070UD31LI160
	A 070 URD 31 LI 0200	V300697			A070UD31LI200
	A 070 URD 31 LI 0250	W300698			A070UD31LI250
	A 070 URD 31 LI 0315	X300699			A070UD31LI315
	A 070 URD 31 LI 0350	Y300700			A070UD31LI350
	A 070 URD 31 LI 0400	Z300701			A070UD31LI400
	A 070 URD 31 LI 0450	A300702			A070UD31LI450
	A 070 URD 31 LI 0500	B300703			A070UD31LI500
	A 070 URD 31 LI 0550	C300704			A070UD31LI550
	A 070 URD 31 LI 0630	D300705			A070UD31LI630
	A 070 URD 31 LI 0700	E300706			A070UD31LI700
	A 070 URD 31 LI 0800	F300707			A070UD31LI800
32	A 070 URD 32 LI 0400	J300204	590	3	A070UD32LI400
	A 070 URD 32 LI 0450	K300205			A070UD32LI450
	A 070 URD 32 LI 0500	L300206			A070UD32LI500
	A 070 URD 32 LI 0550	M300207			A070UD32LI550
	A 070 URD 32 LI 0630	N300208			A070UD32LI630
	A 070 URD 32 LI 0700	P300209			A070UD32LI700
	A 070 URD 32 LI 0800	Q300210			A070UD32LI800
	A 070 URD 32 LI 0900	R300211			A070UD32LI900
	A 070 URD 32 LI 1000	S300212			A070UD32LI1000
	A 065 URD 32 LI 1100	B301071			A065UD32LI1100
	A 060 URD 32 LI 1250	C301072	660		A060UD32LI1250
	A 055 URD 32 LI 1400	D301073			A055UD32LI1400
	A 055 URD 32 LI 1600	E301074			A055UD32LI1600
	A 050 URD 32 LI 1800	F301075			A050UD32LI1800
33	A 070 URD 33 LI 0500	K300228	860	3	A070UD33LI500
	A 070 URD 33 LI 0550	L300229			A070UD33LI550
	A 070 URD 33 LI 0630	M300230			A070UD33LI630
	A 070 URD 33 LI 0700	N300231			A070UD33LI700
	A 070 URD 33 LI 0800	P300232			A070UD33LI800
	A 070 URD 33 LI 0900	Q300233			A070UD33LI900
	A 070 URD 33 LI 1000	R300234			A070UD33LI1000
	A 070 URD 33 LI 1100	S300235			A070UD33LI1100
	A 070 URD 33 LI 1250	T300236			A070UD33LI1250
	A 070 URD 33 LI 1400	V300237			A070UD33LI1400
	A 065 URD 33 LI 1600	G301076			A065UD33LI1600
	A 065 URD 33 LI 1800	H301077			A065UD33LI1800
	A 060 URD 33 LI 2000	J301078			A060UD33LI2000
	A 055 URD 33 LI 2250	K301079			A055UD33LI2250
	A 050 URD 33 LI 2500	L301080	1070		A050UD33LI2500

Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
American Terminals - 30 - 33 Blades

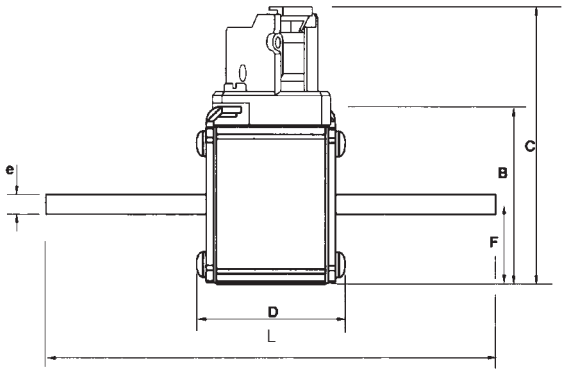
Rated voltage as per American standard.

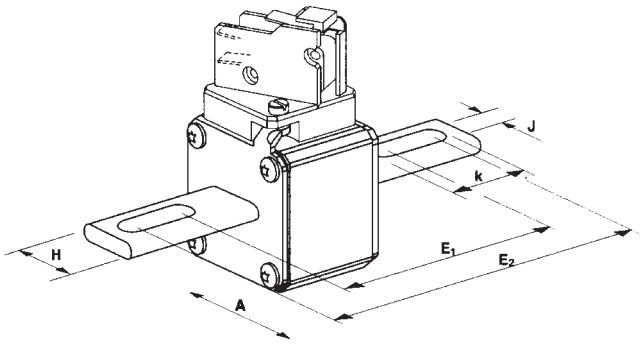
Size	Designation	Reference Number	Weight (g)	Pack.	Catalog Number
		LL			
31	A 070 URD 31 LLI 0160	C301923	290		A070UD31LLI160
	A 070 URD 31 LLI 0200	J300158			A070UD31LLI200
	A 070 URD 31 LLI 0250	K300159			A070UD31LLI250
	A 070 URD 31 LLI 0315	L300160			A070UD31LLI315
	A 070 URD 31 LLI 0350	M300161			A070UD31LLI350
	A 070 URD 31 LLI 0400	N300162			A070UD31LLI400
	A 070 URD 31 LLI 0450	P300163			A070UD31LLI450
	A 070 URD 31 LLI 0500	Q300164			A070UD31LLI500
	A 070 URD 31 LLI 0550	R300165			A070UD31LLI550
	A 070 URD 31 LLI 0630	S300166			A070UD31LLI630
	A 070 URD 31 LLI 0700	T300167			A070UD31LLI700
	A 070 URD 31 LLI 0800	J300526			A070UD31LLI800

Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
American Terminals - 30 - 33 Blades

	Size	A	B	C	D	$E_1^{\pm 1,1}$	$E_2^{\pm 1,1}$	F	H	J	K	L	e
K	30	40 1-19/32"	46,5 1-27/32"	82 3-7/32"	47,5 1-7/8"	68 2-11/16"	107 4-7/32"	21 53/64"	25 1"	10,5 13/32"	30 1-3/16"	129 5-5/64"	6 15/64"
	31	51 2"	56,5 2-7/32"	91 3-37/64"	47,5 1-7/8"	68 2-11/16"	107 4-7/32"	25,5 1"	25 1"	10,5 13/32"	30 1-3/16"	129 5-5/64"	6 15/64"
	32	60 2-3/8"	65,5 2-37/64"	100 3-15/16"	47,5 1-7/8"	74,5 2-59/64"	109 4-9/32"	30 1-3/16"	32 1-1/4"	14,6 9/16"	32 1-1/4"	134 5-9/32"	6 15/64"
	33	74,5 2-15/16"	79,5 3-1/8"	114 4-1/2"	48,5 1-29/32"	75,4 2-31/32"	107,6 4-15/64"	37,2 1-15/32"	40 1-9/16"	15,9 5/8"	32 1-1/4"	134 5-9/32"	6 15/64"
L	30	40 1-19/32"	46,5 1-27/32"	82 3-7/32"	47,5 1-7/8"	87,6 3-7/16"	126,6 5"	21 53/64"	25 1"	10,5 13/32"	30 1-3/16"	148,5 5-27/32"	6 15/64"
	31	51 2"	56,5 2-7/32"	91 3-37/64"	47,5 1-7/8"	91,6 3-19/32"	122,4 4-13/16"	25,5 1"	25 1"	14,6 9/16"	30 1-3/16"	148,6 5-27/32"	6 15/64"
	32	60 2-3/8"	65,5 2-37/64"	100 3-15/16"	47,5 1-7/8"	94,2 3-45/64"	129 5-5/64"	30 1-3/16"	32 1-1/4"	14,6 9/16"	32 1-1/4"	153 5-9/32"	6 15/64"
	33	74,5 2-15/16"	79,5 3-1/8"	114 4-1/2"	48,5 1-29/32"	94,4 3-23/32"	126,6 5"	37,2 1-15/32"	40 1-9/16"	15,9 5/8"	32 1-1/4"	153 6"	6 15/64"
LL	31	51 2"	56,5 2-7/32"	91 3-37/64"	47,5 1-7/8"	87,6 3-7/16"	126,6 5"	25,5 1"	25 1"	10,5 13/32"	30 1-3/16"	148,6 5-27/32"	6 15/64"

Note:
dimensions in mm
dimensions in inches

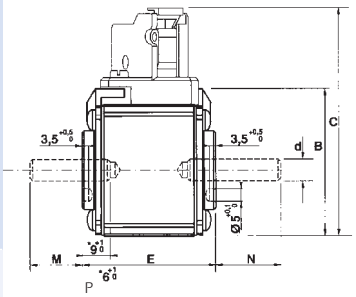


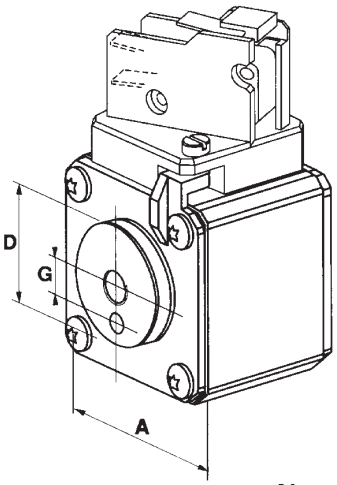


Microswitches supplied separately see microswitches for PSC 3x & 7x section

Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
IEC Terminals French - 30 - 33 End contacts

Size	Designation	Reference Number	Weight (g)	Packaging	Catalog Number
30	6,9 URD 30 TTF 0050	S300373	245	3	PC30UD69V50TF
	6,9 URD 30 TTF 0063	M300000			PC30UD69V63TF
	6,9 URD 30 TTF 0080	S300051			PC30UD69V80TF
	6,9 URD 30 TTF 0100	T300052			PC30UD69V100TF
	6,9 URD 30 TTF 0125	V300053			PC30UD69V125TF
	6,9 URD 30 TTF 0160	W300054			PC30UD69V160TF
	6,9 URD 30 TTF 0200	X300055			PC30UD69V200TF
	6,9 URD 30 TTF 0250	Y300056			PC30UD69V250TF
	6,9 URD 30 TTF 0315	Z300057			PC30UD69V315TF
	6,9 URD 30 TTF 0350	A300058			PC30UD69V350TF
	6,9 URD 30 TTF 0400	B300059			PC30UD69V400TF
	6,9 URD 30 TTF 0450	V300398			PC30UD69V450TF
	6,9 URD 30 TTF 0500	W300399			PC30UD69V500TF
	6,9 URD 30 TTF 0550	X300400			PC30UD69V550TF
	6 URD 30 TTF 0630	L301770			PC30UD60V630TF
31	6,9 URD 31 TTF 0160	M300299	370	3	PC31UD69V160TF
	6,9 URD 31 TTF 0200	N300001			PC31UD69V200TF
	6,9 URD 31 TTF 0250	P300002			PC31UD69V250TF
	6,9 URD 31 TTF 0315	Q300003			PC31UD69V315TF
	6,9 URD 31 TTF 0350	M300046			PC31UD69V350TF
	6,9 URD 31 TTF 0400	R300004			PC31UD69V400TF
	6,9 URD 31 TTF 0450	S300005			PC31UD69V450TF
	6,9 URD 31 TTF 0500	T300006			PC31UD69V500TF
	6,9 URD 31 TTF 0550	V300007			PC31UD69V550TF
	6,9 URD 31 TTF 0630	W300008			PC31UD69V630TF
	6,9 URD 31 TTF 0700	X300009			PC31UD69V700TF
	6,9 URD 31 TTF 0800	Y300401			PC31UD69V800TF
32	6,9 URD 32 TTF 0315	M302162	510	3	PC32UD69V315TF
	6,9 URD 32 TTF 0350	N302163			PC32UD69V350TF
	6,9 URD 32 TTF 0400	H300065			PC32UD69V400TF
	6,9 URD 32 TTF 0450	J300066			PC32UD69V450TF
	6,9 URD 32 TTF 0500	K300067			PC32UD69V500TF
	6,9 URD 32 TTF 0550	L300068			PC32UD69V550TF
	6,9 URD 32 TTF 0630	M300069			PC32UD69V630TF
	6,9 URD 32 TTF 0700	N300070			PC32UD69V700TF
	6,9 URD 32 TTF 0800	P300071			PC32UD69V800TF
	6,9 URD 32 TTF 0900 **	Q300072			PC32UD69V900TF
	6,9 URD 32 TTF 1000 **	S300074			PC32UD69V1000TF
	6 URD 32 TTF 1100 **	M300759			PC32UD60V1100TF
	5,5 URD 32 TTF 1250 **	P301060			PC32UD55V1250TF
	5 URD 32 TTF 1400 **	Q301061	600	3	PC32UD50V1400TF
	5 URD 32 TTF 1600 **	H300893			PC32UD50V1600TF
	4,5 URD 32 TTF 1800 **	R301062			PC32UD45V1800TF
33	6,9 URD 33 TTF 0450	W302170	790	3	PC33UD69V450TF
	6,9 URD 33 TTF 0500	V300076			PC33UD69V500TF
	6,9 URD 33 TTF 0550	W300077			PC33UD69V550TF
	6,9 URD 33 TTF 0630	X300078			PC33UD69V630TF
	6,9 URD 33 TTF 0700	Y300079			PC33UD69V700TF
	6,9 URD 33 TTF 0800	Z300080			PC33UD69V800TF
	6,9 URD 33 TTF 0900	A300081			PC33UD69V900TF
	6,9 URD 33 TTF 1000	B300082			PC33UD69V1000TF
	6,9 URD 33 TTF 1100	C300083			PC33UD69V1100TF
	6,9 URD 33 TTF 1250 **	D300084			PC33UD69V1250TF
	6,9 URD 33 TTF 1400 **	E300085			PC33UD69V1400TF
	6 URD 33 TTF 1500 **	Y300585			PC33UD60V1500TF
	6 URD 33 TTF 1600 **	Z300586		3	PC33UD60V1600TF
	6 URD 33 TTF 1800 **	A300587			PC33UD60V1800TF
	5,5 URD 33 TTF 2000 **	B300588	910		PC33UD55V2000TF
	5 URD 33 TTF 2250 **	K300757			PC33UD50V2250TF
	4,5 URD 33 TTF 2500 **	L300758			PC33UD45V2500TF





Note:
dimensions in mm
dimensions in inches

Threaded studs and microswitches supplied separately see microswitchesPSC 3x & 7x and Metric studs sections

Size	A	B	C	D	M±	N±	E±1	d	G±0.1	P
30	40 1-9/16"	46,5 1-27/32"	82 3-7/32"	26 1-1/64"	22	27	50,6 2"	M8	9 23/64"	6 15/64"
31	51 2"	56,5 2-7/32"	91 3-37/64"	30 1-3/16"	19	24	50,6 2"	M8	9 23/64"	9 23/64"
32	60 2-3/8"	65,5 2-37/64"	100 3-15/16"	38 ; (42mm **) 1-1/2" ; (1-21/32" **)	19	39	50,6 2"	M10	15 19/32"	9 23/64"
33	74,5 2-15/16"	79,5 3-1/8"	114 4-1/2"	46 ; (52mm **) 1-13/16" ; (2-1/16" **)	24	39	50,6 2"	M12	15 19/32"	9 23/64"

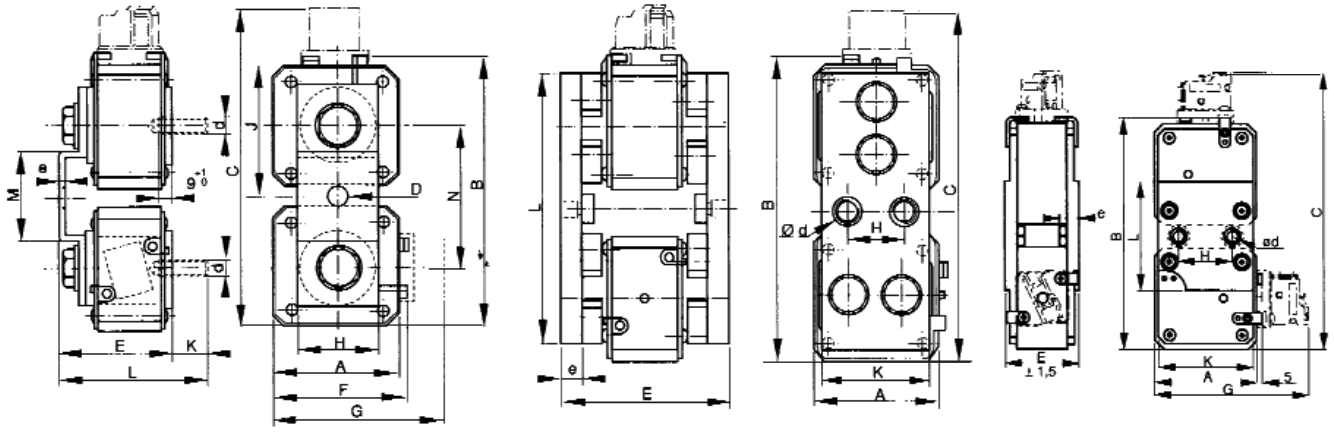
Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
IEC Terminals French - 30 - 33 End contacts

Size	Designation	Reference Number	Weight (g)	Packaging	Catalog Number
2 x 32	6,9 URD 232 TTF 0800	T300305			PC232UD69V8CTF
	6,9 URD 232 TTF 1000	T300213			PC232UD69V10CTF
	6,9 URD 232 TTF 1250	V300214	1240		PC232UD69V13CTF
	6,9 URD 232 TTF 1400	G300087		1	PC232UD69V14CTF
	6,9 URD 232 TDF 1600	W300215			PC232UD69V16CTD
	6,9 URD 232 TDF 1800	X300216	3300		PC232UD69V18CTD
	6,9 URD 232 TDF 2000	Y300217			PC232UD69V20CTD
	5,5 URD 232 TDF 2200	D301993			PC232UD55V22CTD
2 x 33	6,9 URD 233 TTF 1000	B301186			PC233UD69V10CTF
	6,9 URD 233 TTF 1250	D300268			PC233UD69V13CTF
	6,9 URD 233 TTF 1400	E300269	1900		PC233UD69V14CTF
	6,9 URD 233 TTF 1600	F300270			PC233UD69V16CTF
	6,9 URD 233 PLAF 1800	B300427			PC36UD69V18CP11
	6 URD 233 PLAF 2000	R302235			PC36UD60V20CP11
	6 URD 233 PLAF 2200	Q302234			PC36UD60V22CP11
	6 URD 233 PLAF 2500	P302233		1	PC36UD60V25CP11
	6 URD 233 PLAF 2800	N302232			PC36UD60V28CP11
	5,5 URD 233 PLAF 3000*	L301977			PC36UD55V30CP11
	5,5 URD 233 PLAF 3200*	M301978	2000		PC36UD55V32CP11
	5 URD 233 PLAF 3600*	N301979			PC36UD50V36CP11
	5 URD 233 PLAF 4000*	P301980			PC36UD50V40CP11
	4 URD 233 PLAF 4500*	Q301981			PC36UD40V45CP11
	4 URD 233 PLAF 5000*	R301982			PC36UD40V50CP11

*Consult us

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**

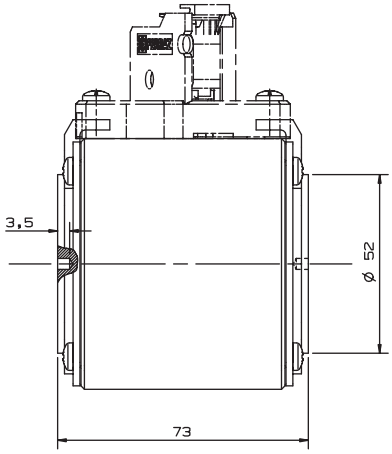


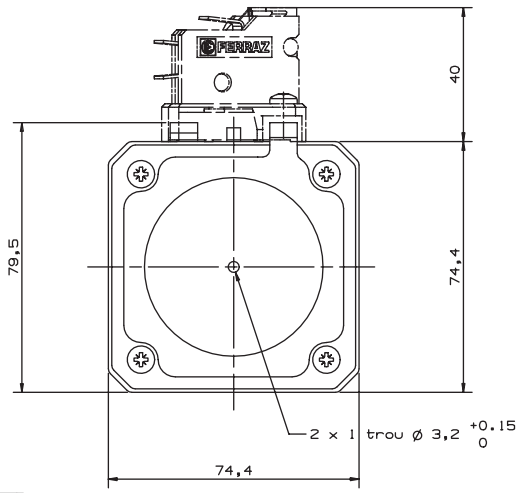
Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
IEC Terminals French - 30 - 33 End contacts

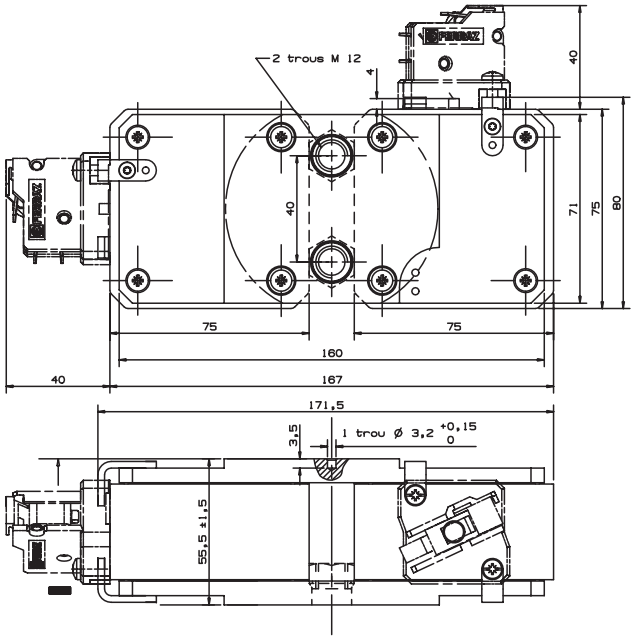
33 PPAF Standard Press-Pack

Size	Designation	Reference Number	Weight (g)	Packaging	Catalog Number
33	6,9 URD 33 PPAF 1250	D301855	910	3	PC33UD69V13CPP
	6,9 URD 33 PPAF 1400	E301856			PC33UD69V14CPP
	6 URD 33 PPAF 1600	G301927			PC33UD60V16CPP
2x33	6,9 URD 233 PPAF 1800	R300694	2450	1	PC36UD69V18CP12
	6 URD 233 PPAF 2000	H302250			PC36UD60V20CP12
	6 URD 233 PPAF 2200	K302252			PC36UD60V22CP13
	6 URD 233 PPAF 2500	M302254			PC36UD60V25CP12
	6 URD 233 PPAF 2800	L302253			PC36UD60V28CP13
	5,5 URD 233 PPAF 3000	to be given - contact us			to be given - contact us
	5,5 URD 233 PPAF 3200	V301985			PC36UD55V32CP12
	5,5 URD 233 PPAF 3600	to be given - contact us			to be given - contact us
	5 URD 233 PPAF 4000	X301987			PC36UD50V40CP12
	4,5 URD 233 PPAF 4500	to be given - contact us			to be given - contact us
	4 URD 233 PPAF 5000	M301932			PC36UD40V50CP12

Studs and microswitches supplied separately







Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
IEC Terminals French - 30 - 33 Blades

Size	Designation	Reference Number	Weight (g)	Packaging	Base	I/I_N*	Catalog Number
30	6,9 URD 30 E F 0050	R300372	290	3	SP30	1	PC30UD69V50EF
	6,9 URD 30 E F 0063	H300088				1	PC30UD69V63EF
	6,9 URD 30 E F 0080	J300089				1	PC30UD69V80EF
	6,9 URD 30 E F 0100	K300090				1	PC30UD69V100EF
	6,9 URD 30 E F 0125	L300091				1	PC30UD69V125EF
	6,9 URD 30 E F 0160	M300092				0,95	PC30UD69V160EF
	6,9 URD 30 E F 0200	N300093				0,90	PC30UD69V200EF
	6,9 URD 30 E F 0250	P300094				0,85	PC30UD69V250EF
	6,9 URD 30 E F 0315	Q300095				0,80	PC30UD69V315EF
	6,9 URD 30 E F 0350	R300096				0,80	PC30UD69V350EF
	6,9 URD 30 E F 0400	S300097				0,75	PC30UD69V400EF
31	6,9 URD 31 E F 0160	B301922	430	3	SE31	1	PC31UD69V160EF
	6,9 URD 31 E F 0200	C300037				1	PC31UD69V200EF
	6,9 URD 31 E F 0250	D300038				1	PC31UD69V250EF
	6,9 URD 31 E F 0315	E300039				0,95	PC31UD69V315EF
	6,9 URD 31 E F 0350	N300047				0,95	PC31UD69V350EF
	6,9 URD 31 E F 0400	F300040				0,95	PC31UD69V400EF
	6,9 URD 31 E F 0450	G300041				0,95	PC31UD69V450EF
	6,9 URD 31 E F 0500	H300042				0,95	PC31UD69V500EF
	6,9 URD 31 E F 0550	J300043				0,90	PC31UD69V550EF
	6,9 URD 31 E F 0630	K300044				0,90	PC31UD69V630EF
	6,9 URD 31 E F 0700	L300045				0,85	PC31UD69V700EF
32	6,9 URD 32 E F 0400	V300168	590	3	SE32	0,95	PC32UD69V400EF
	6,9 URD 32 E F 0450	W300169				0,95	PC32UD69V450EF
	6,9 URD 32 E F 0500	X300170				0,90	PC32UD69V500EF
	6,9 URD 32 E F 0550	Y300171				0,90	PC32UD69V550EF
	6,9 URD 32 E F 0630	Z300172				0,85	PC32UD69V630EF
	6,9 URD 32 E F 0700	A300173				0,85	PC32UD69V700EF
	6,9 URD 32 E F 0800	B300174				0,80	PC32UD69V800EF
	6,9 URD 32 E F 0900	C300175				0,80	PC32UD69V900EF
	6,9 URD 32 E F 1000	D300176				0,80	PC32UD69V1000EF
33	6,9 URD 33 E F 0500	Z300218	860	3	SF33	0,95	PC33UD69V500EF
	6,9 URD 33 E F 0550	A300219				0,95	PC33UD69V550EF
	6,9 URD 33 E F 0630	B300220				0,90	PC33UD69V630EF
	6,9 URD 33 E F 0700	C300221				0,90	PC33UD69V700EF
	6,9 URD 33 E F 0800	D300222				0,90	PC33UD69V800EF
	6,9 URD 33 E F 0900	E300223				0,85	PC33UD69V900EF
	6,9 URD 33 E F 1000	F300224				0,85	PC33UD69V1000EF
	6,9 URD 33 E F 1100	G300225				0,80	PC33UD69V1100EF
	6,9 URD 33 E F 1250	H300226				0,80	PC33UD69V1250EF
	6,9 URD 33 E F 1400	J300227				0,80	PC33UD69V1400EF

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

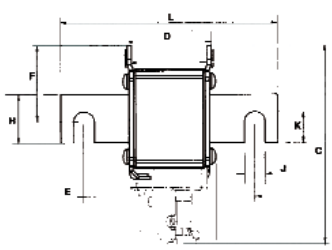
Connections defined as per IEC 60269-1 and for a calm ambience of 30°C.

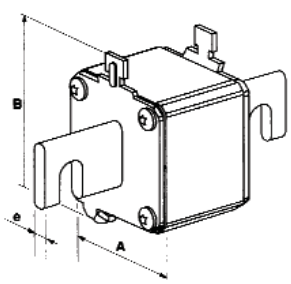
Use the pullout grip PM3 (T097675) for fuse sizes 30, 31, 32.

Fuse holders and microswitches supplied separately.(see Fuse Holders an microswitches PSC 3x & 7x sections)

Size	A	B	C	D	$E^{\pm 1,1}$	L	F	H	J	K	e
30	40	62	96	44,6	76,6	100	38	18	9	11	6
31	51	69	103	44,6	86,6	110	39	25	10,5	16	6
32	60	78	112	44,6	91	126	43	32	13	21,2	6
33	74,5	92,5	127	44,6	91	126	57	40	13	19,5	6

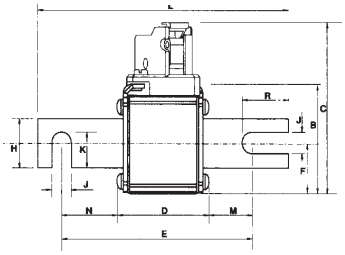
Dimensions in mm

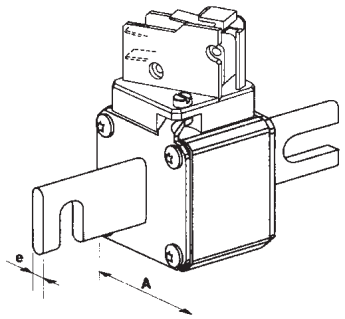


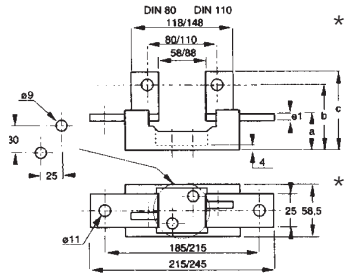


Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
IEC Terminals German - 30 - 33 Blades (Din 80)

Size	Designation	Reference Number DIN 80	Weight (g)	I/IN Base L98772 F98031	I/IN Base F98560 L91941	Catalog Number DIN 80
30	6,9 URD 30 D08A 0050	F301926	290	1	1	PC30UD69V50A
	6,9 URD 30 D08A 0063	E300108		1	1	PC30UD69V63A
	6,9 URD 30 D08A 0080	F300109		1	1	PC30UD69V80A
	6,9 URD 30 D08A 0100	G300110		1	1	PC30UD69V100A
	6,9 URD 30 D08A 0125	H300111		1	1	PC30UD69V125A
	6,9 URD 30 D08A 0160	J300112		1	1	PC30UD69V160A
	6,9 URD 30 D08A 0200	K300113		1	1	PC30UD69V200A
	6,9 URD 30 D08A 0250	L300114		1	1	PC30UD69V250A
	6,9 URD 30 D08A 0315	M300115		1	1	PC30UD69V315A
	6,9 URD 30 D08A 0350	N300116		1	1	PC30UD69V350A
	6,9 URD 30 D08A 0400	P300117		1	1	PC30UD69V400A
	6,9 URD 30 D08A 0450	A300403		0,95	1	PC30UD69V450A
	6,9 URD 30 D08A 0500	B300404		0,95	1	PC30UD69V500A
	6,9 URD 30 D08A 0550	C300405		0,95	1	PC30UD69V550A
31	6,9 URD 31 D08A 0160	M300322	430	1	1	PC31UD69V160A
	6,9 URD 31 D08A 0200	Y300010		1	1	PC31UD69V200A
	6,9 URD 31 D08A 0250	Z300011		1	1	PC31UD69V250A
	6,9 URD 31 D08A 0315	A300012		1	1	PC31UD69V315A
	6,9 URD 31 D08A 0350	Q300049		1	1	PC31UD69V350A
	6,9 URD 31 D08A 0400	B300013		1	1	PC31UD69V400A
	6,9 URD 31 D08A 0450	C300014		1	1	PC31UD69V450A
	6,9 URD 31 D08A 0500	D300015		1	1	PC31UD69V500A
	6,9 URD 31 D08A 0550	E300016		1	1	PC31UD69V550A
	6,9 URD 31 D08A 0630	F300017		1	1	PC31UD69V630A
	6,9 URD 31 D08A 0700	G300018		0,95	1	PC31UD69V700A
	6,9 URD 31 D08A 0800	D300406		0,85	0,90	PC31UD69V800A
32	6,9 URD 32 D08A 0315	H302158	590	1	1	PC32UD69V315A
	6,9 URD 32 D08A 0350	J302159		1	1	PC32UD69V350A
	6,9 URD 32 D08A 0400	E300177		1	1	PC32UD69V400A
	6,9 URD 32 D08A 0450	F300178		1	1	PC32UD69V450A
	6,9 URD 32 D08A 0500	G300179		1	1	PC32UD69V500A
	6,9 URD 32 D08A 0550	H300180		0,95	1	PC32UD69V550A
	6,9 URD 32 D08A 0630	J300181		0,95	1	PC32UD69V630A
	6,9 URD 32 D08A 0700	K300182		0,90	1	PC32UD69V700A
	6,9 URD 32 D08A 0800	L300183		0,90	0,95	PC32UD69V800A
	6,9 URD 32 D08A 0900	M300184		0,90	0,95	PC32UD69V900A
	6,9 URD 32 D08A 1000	N300185		0,85	0,95	PC32UD69V1000A
	6 URD 32 D08A 1100	W302101		0,80	0,85	PC32UD60V1100A
	5 URD 32 D08A 1250	G300409		0,80	0,85	PC32UD50V1250A
33	6,9 URD 33 D08A 0450	T302168	860	0,95	1	PC33UD69V450A
	6,9 URD 33 D08A 0500	G300248		0,95	1	PC33UD69V500A
	6,9 URD 33 D08A 0550	H300249		0,90	1	PC33UD69V550A
	6,9 URD 33 D08A 0630	J300250		0,90	0,95	PC33UD69V630A
	6,9 URD 33 D08A 0700	K300251		0,90	0,95	PC33UD69V700A
	6,9 URD 33 D08A 0800	L300252		0,85	0,95	PC33UD69V800A
	6,9 URD 33 D08A 0900	M300253		0,85	0,95	PC33UD69V900A
	6,9 URD 33 D08A 1000	N300254		0,80	0,90	PC33UD69V1000A
	6,9 URD 33 D08A 1100	P300255		0,80	0,90	PC33UD69V1100A
	6,9 URD 33 D08A 1250	Q300256		0,75	0,85	PC33UD69V1250A
	6,9 URD 33 D08A 1400	R300257		0,75	0,80	PC33UD69V1400A
	6 URD 33 D08A 1600	X301803		0,70	0,75	PC33UD60V1600A







Fuse holders and microswitches supplied separately (see page , and Fuse Blocks and Fuse Holders section)

Dimensions in mm

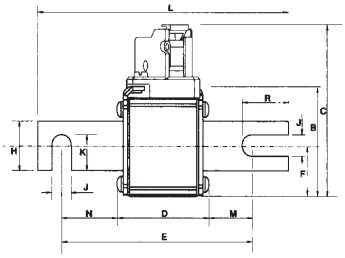
Fuse Size	A	B	C	D	E	F	G	H	J	K	d	e	L	M
30 DIN 80	40	46,5	82	47,5	77	21	25	10,5	17,7	110	11,5	18,5	25,2	6
31 DIN 80	51	56,5	91	47,5	77	25,5	25	10,5	17,7	110	11,5	18,5	25,2	6
32 DIN 80	60	65,5	100	47,5	77	30	32	10,5	21,2	110	11,5	18,5	25,2	6
33 DIN 80	74,5	79,5	114	48,5	77	37,2	40	10,5	25,2	110	11	18	25,2	6

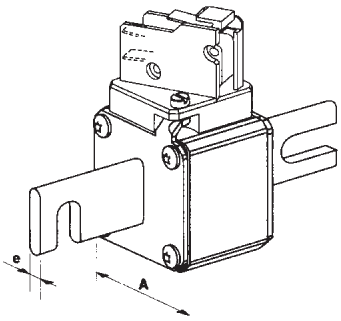
Fuse holders	Ref. Number	a	b	c	e1	x	y	Weight (g) *
SI DIN 80 630 A	L098772	40	68	82	5	185	215	660
SI DIN 80 1250 A	F098560	45	73	87	10	185	215	890

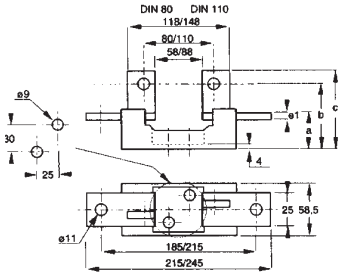
Use the pullout grip PM3 (T097675) for fuse sizes 30, 31, 32

Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
IEC Terminals German - 30 - 33 Blades (Din110)

Size	Designation	Reference Number DIN 110	Weight (g)	I/IN Base L98772 F98031	I/IN Base F98560 L91941	Catalog Number DIN 110
	6,9 URD 30 D11A 0050	G301191		1	1	PC30UD69V50D1A
	6,9 URD 30 D11A 0063	Q300118		1	1	PC30UD69V63D1A
	6,9 URD 30 D11A 0080	R300119		1	1	PC30UD69V80D1A
	6,9 URD 30 D11A 0100	S300120		1	1	PC30UD69V100D1A
	6,9 URD 30 D11A 0125	T300121		1	1	PC30UD69V125D1A
	6,9 URD 30 D11A 0160	V300122		1	1	PC30UD69V160D1A
	6,9 URD 30 D11A 0200	W300123		1	1	PC30UD69V200D1A
30	6,9 URD 30 D11A 0250	X300124	290	1	1	PC30UD69V250D1A
	6,9 URD 30 D11A 0315	Y300125		1	1	PC30UD69V315D1A
	6,9 URD 30 D11A 0350	Z300126		1	1	PC30UD69V350D1A
	6,9 URD 30 D11A 0400	A300127		1	1	PC30UD69V400D1A
	6,9 URD 30 D11A 0450	S300695		0,95	1	PC30UD69V450D1A
	6,9 URD 30 D11A 0500	Y301091		0,95	1	PC30UD69V500D1A
	6,9 URD 30 D11A 0550	Z301092		0,95	1	PC30UD69V550D1A
	6,9 URD 31 D11A 0160	-		1	1	
	6,9 URD 31 D11A 0200	H300019		1	1	PC31UD69V200D1A
	6,9 URD 31 D11A 0250	J300020		1	1	PC31UD69V250D1A
	6,9 URD 31 D11A 0315	K300021		1	1	PC31UD69V315D1A
	6,9 URD 31 D11A 0350	P300048		1	1	PC31UD69V350D1A
31	6,9 URD 31 D11A 0400	L300022		1	1	PC31UD69V400D1A
	6,9 URD 31 D11A 0450	M300023	430	1	1	PC31UD69V450D1A
	6,9 URD 31 D11A 0500	N300024		1	1	PC31UD69V500D1A
	6,9 URD 31 D11A 0550	P300025		1	1	PC31UD69V550D1A
	6,9 URD 31 D11A 0630	Q300026		1	1	PC31UD69V630D1A
	6,9 URD 31 D11A 0700	R300027		0,95	1	PC31UD69V700D1A
	6,9 URD 31 D11A 0800	H300709		0,85	0,90	PC31UD69V800D1A
	6,9 URD 32 D11A 0315	K302160		1	1	
	6,9 URD 32 D11A 0350	L302161		1	1	PC32UD69V350D1A
	6,9 URD 32 D11A 0400	P300186		1	1	PC32UD69V400D1A
	6,9 URD 32 D11A 0450	Q300187		1	1	PC32UD69V450D1A
	6,9 URD 32 D11A 0500	R300188		1	1	PC32UD69V500D1A
	6,9 URD 32 D11A 0550	S300189		0,95	1	PC32UD69V550D1A
	6,9 URD 32 D11A 0630	T300190		0,95	1	PC32UD69V630D1A
32	6,9 URD 32 D11A 0700	V300191	590	0,90	1	PC32UD69V700D1A
	6,9 URD 32 D11A 0800	W300192		0,90	0,95	PC32UD69V800D1A
	6,9 URD 32 D11A 0900	X300193		0,90	0,95	PC32UD69V900D1A
	6,9 URD 32 D11A 1000	Y300194		0,85	0,95	PC32UD69V10CD1A
	6 URD 32 D11A 1100	-		0,80	0,85	
	5 URD 32 D11A 1250	-		0,80	0,85	
	6,9 URD 33 D11A 0450	V302169		0,95	1	PC33UD69V450D1A
	6,9 URD 33 D11A 0500	S300258		0,95	1	PC33UD69V500D1A
	6,9 URD 33 D11A 0550	T300259		0,90	1	PC33UD69V550D1A
	6,9 URD 33 D11A 0630	V300260		0,90	0,95	PC33UD69V630D1A
	6,9 URD 33 D11A 0700	W300261		0,90	0,95	PC33UD69V700D1A
33	6,9 URD 33 D11A 0800	X300262	860	0,85	0,95	PC33UD69V800D1A
	6,9 URD 33 D11A 0900	Y300263		0,85	0,95	PC33UD69V900D1A
	6,9 URD 33 D11A 1000	Z300264		0,80	0,90	PC33UD69V10CD1A
	6,9 URD 33 D11A 1100	A300265		0,80	0,90	PC33UD69V11CD1A
	6,9 URD 33 D11A 1250	B300266		0,75	0,85	PC33UD69V12CD1A
	6,9 URD 33 D11A 1400	C300267		0,75	0,80	PC33UD69V14CD1A
	6 URD 33 D11A 1600	Z301437		0,70	0,75	PC33UD60V16CD1A







Fuse holders and microswitches supplied separately (see Fuse Holders and microswitches 3x & 7x sections)

Dimensions in mm

fuse Size	A	B	C	D	E	F	G	H	J	K	d	e	L	M
30 DIN 110	40	46,5	82	47,5	101,6	21	25	10,5	17,7	134,6	23,8	30,8	25,2	6
31 DIN 110	51	56,5	91	47,5	101,6	25,5	25	10,5	17,7	134,6	23,8	30,8	25,2	6
32 DIN 110	60	65,5	100	47,5	101,6	30	32	10,5	21,2	134,6	23,8	30,8	25,2	6
33 DIN 110	74,5	79,5	114	48,5	101,6	37,2	40	10,5	25,2	134,6	23,3	30,3	25,2	6

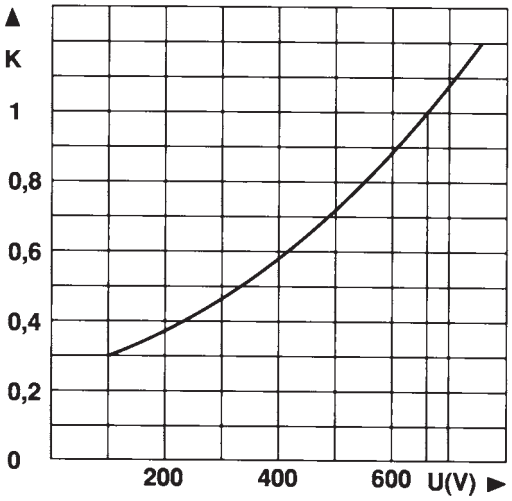
Fuse holders	Ref. Number	a	b	c	e1	x	y	Weight (g)
SI DIN 110 630 A	F098031	40	68	82	5	215	245	1060
SI DIN 110 1250 A	L091941	45	73	87	10	215	245	1320

Use the pullout grip PM3 (T097675) for fuse sizes 30, 31, 32

Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
Curves set

Sizes 30 - 31 - 32 - 33

I²t Multiplier coefficient



Mean curve indicating variation of total I²t (I^2t_t) and total operating time T_t in accordance with working voltage U.

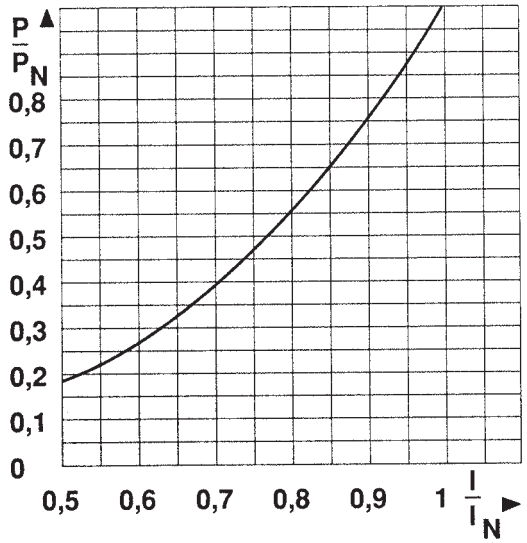
Example:

Fuse 350 A in size 30.
I_p = 10 000 A U = 500 V

At 660 V
I^2t_t = 80 000 A²s T_t = 6 ms

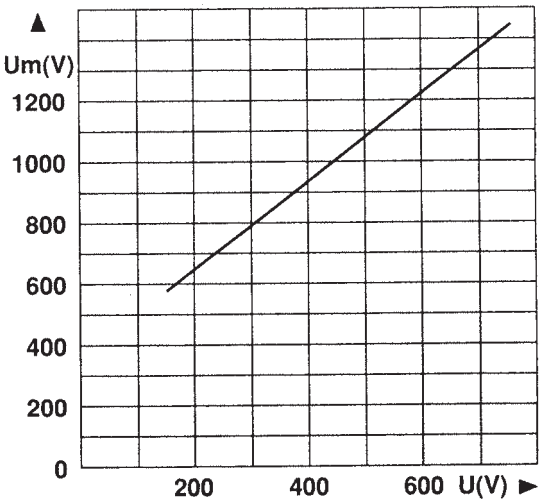
At 500 V
I^2t_t = 80 000 x 0.72 = 57 600 A²s
T_t = 6 x 0.72 = 4.3 ms

Dissipated power



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 a steady state.

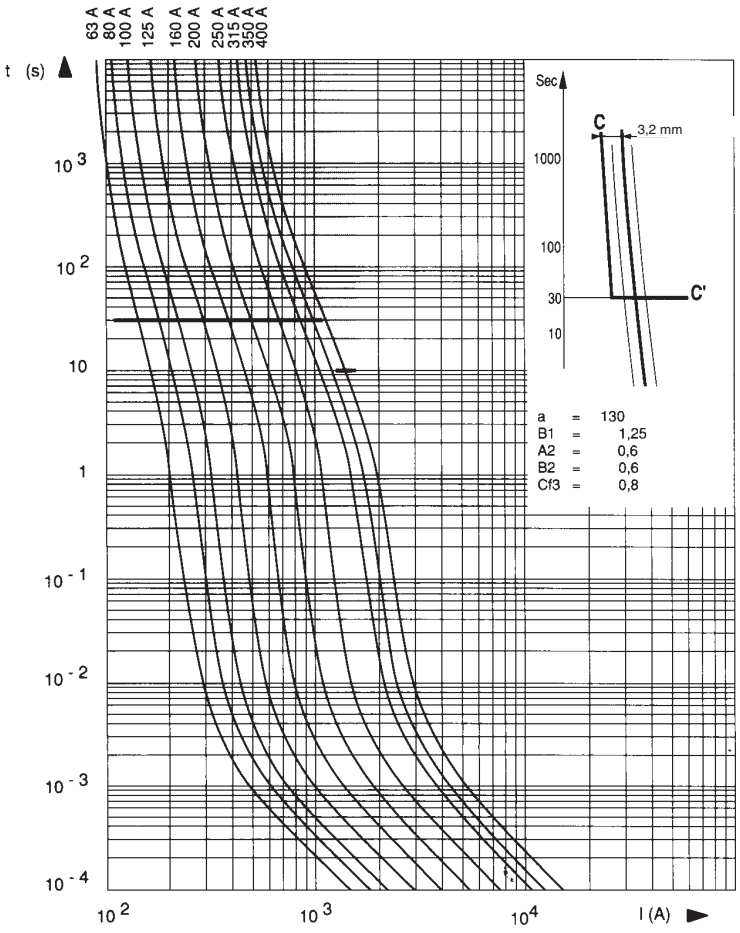
Arc voltage



Curve indicating peak arc voltage Um which may appear across fuse terminals as function of working voltage U at cos φ = 0.15

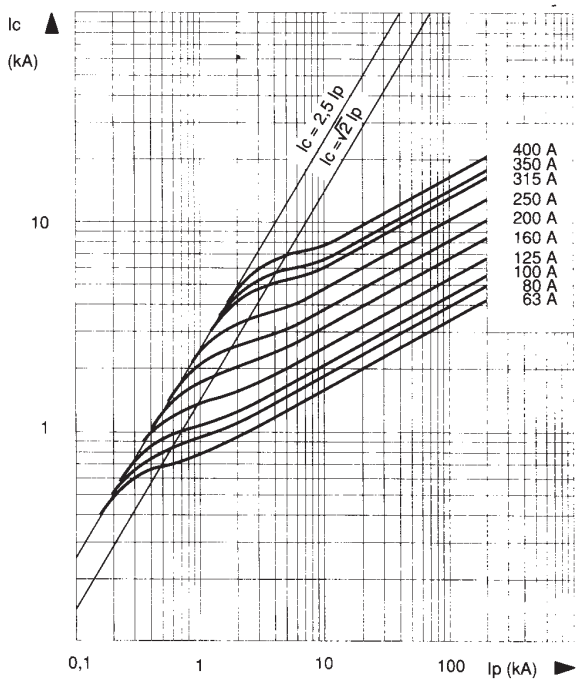
Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
Curves set

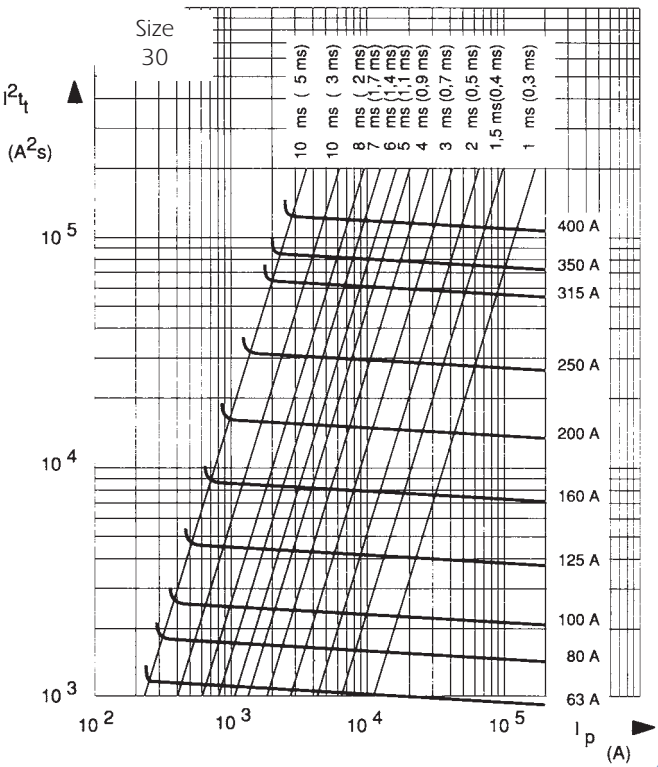
Size 30



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 Ip.





Time-current characteristics

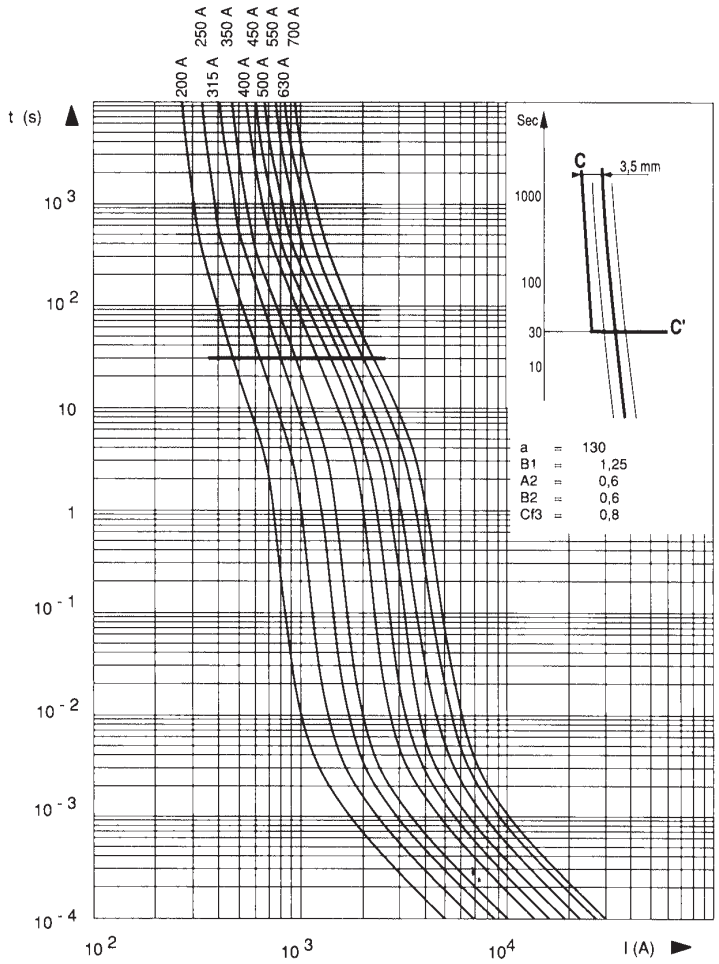
Above, left: Curves indicating pre-arcing time for each rated current as a function of RMS value of pre-arcing current I.
- Tolerances on this current ± 8 %.
- Beyond 30 sec or 10 sec, small overloads must be eliminated by another device.
- Curve CC' represents the maximum times taken by the associated 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 indicates the minimum breaking current Ipm of the fuse.

Maximum values of total operating I²t 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 660 V, cos φ = 0.15. The oblique lines indicate the corresponding total operating time T_t, with pre-arcing time in brackets.

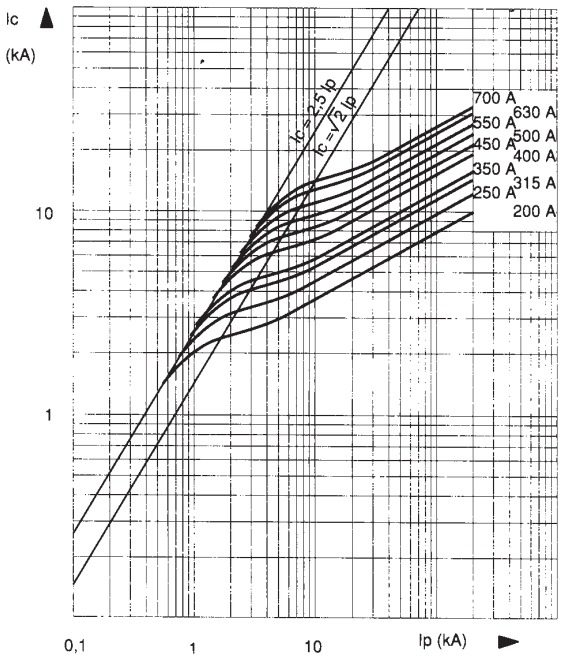
Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
Curves set

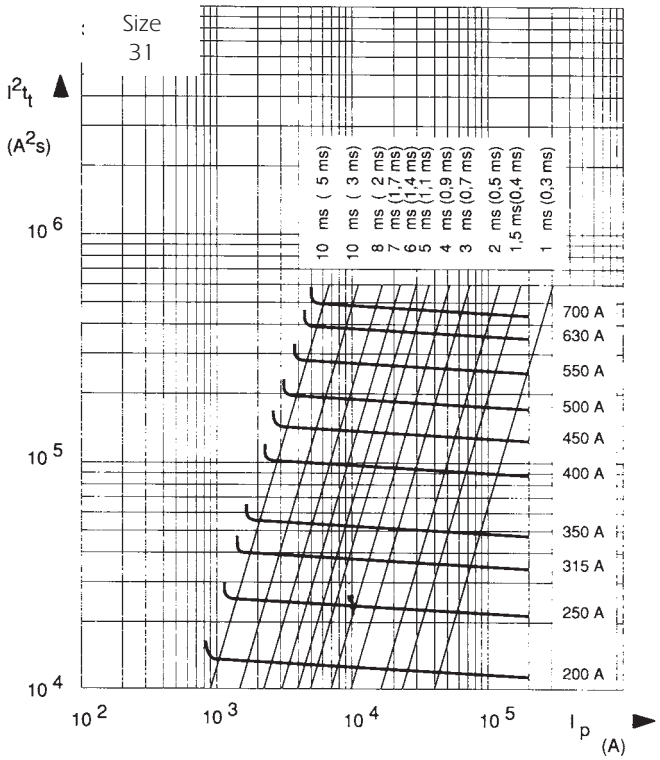
Size 31



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

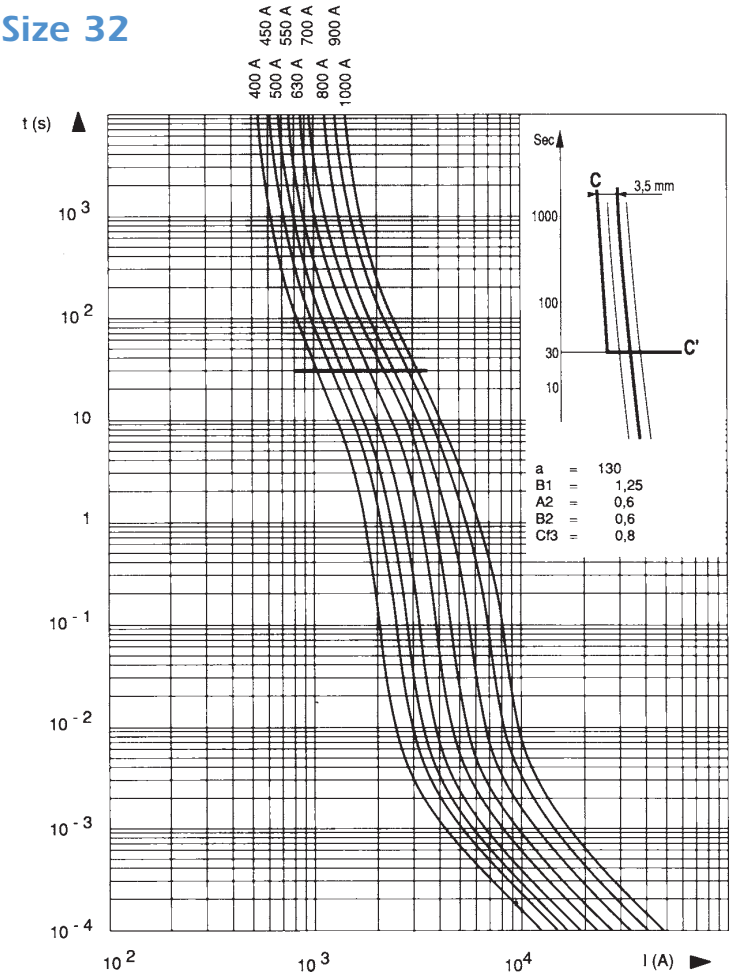
Above, left: Curves indicating pre-arcing time for each rated current as a function of RMS value of pre-arcing current I.
- Tolerances on this current ± 8 %.
- Beyond 30 sec or 10 sec, small overloads must be eliminated by another device.
- Curve CC' represents the maximum times taken by the associated 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 indicates the minimum breaking current Ipm of the fuse.

Maximum values of total operating I²t 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 660 V, cos φ = 0.15.
The oblique lines indicate the corresponding total operating time T_t, with pre-arcing time in brackets.

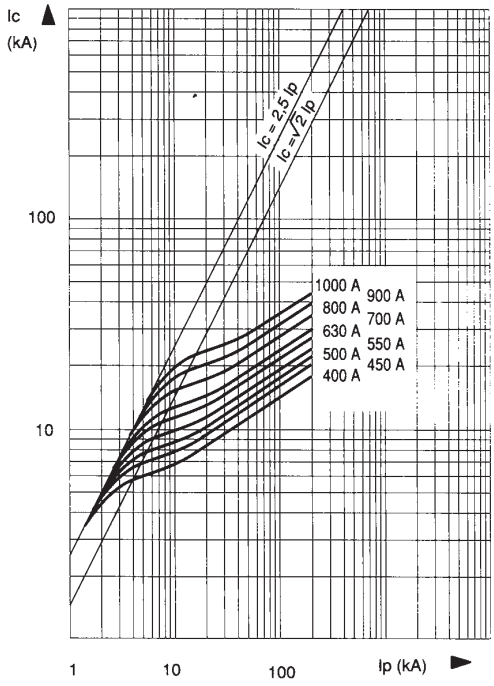
Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
Curves set

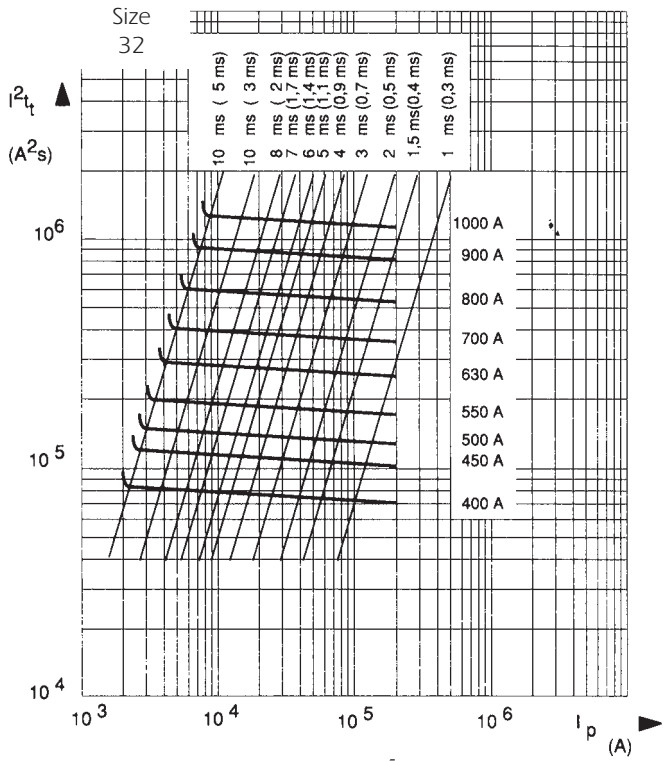
Size 32



↓ 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 Ip.





↑ 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 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 indicates the minimum breaking current Ipm of the fuse.

← Maximum values of total operating I²t and total operating times

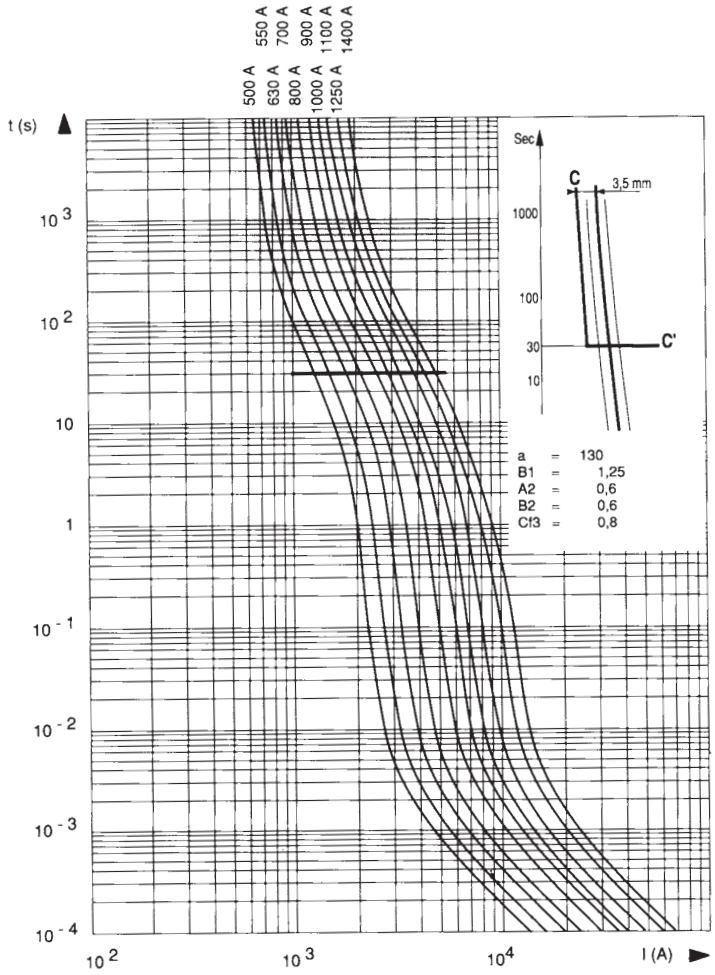
Left: Horizontal curves indicating the maximum values of total operating I²t (I^2t_t) as function of the prospective current I_p at 660 V, cos φ = 0.15.
The oblique lines indicate the corresponding total operating time T_t, with pre-arcing time in brackets.

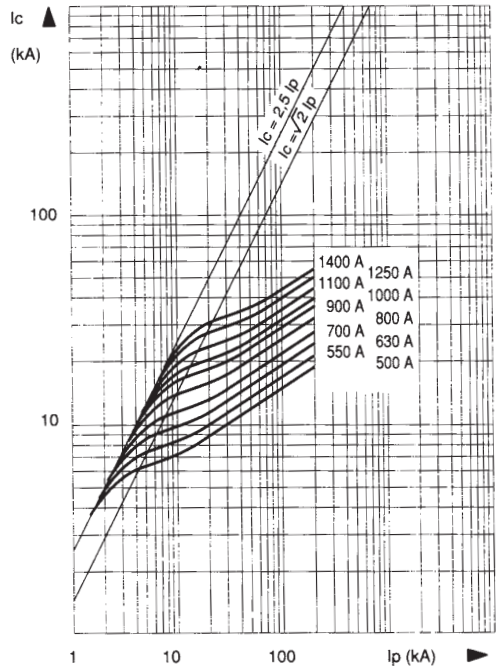
Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
Curves set

Size 33

Cut-off characteristics

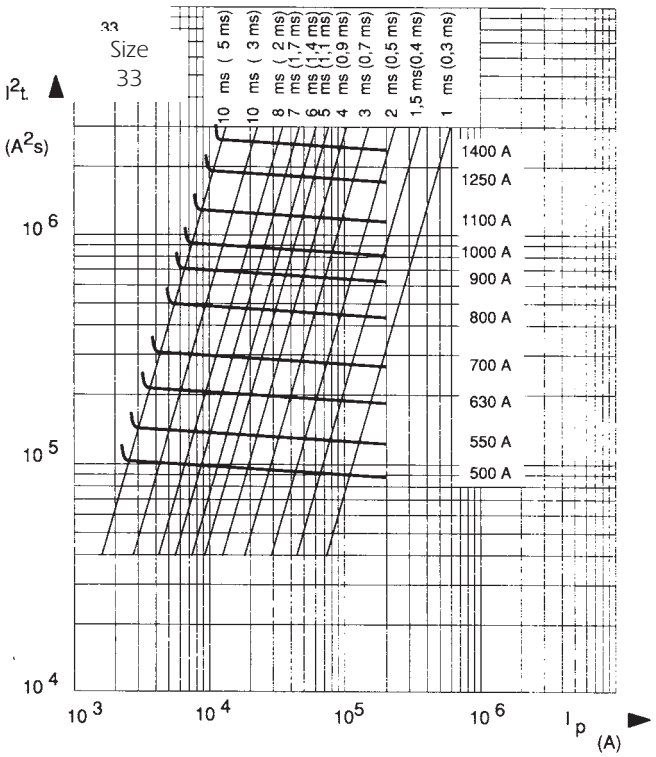
Below, right: Curves indicating for each rated current the peak value I_c that the current may reach as a function of the prospective fault current I_p.





Time-current characteristics

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 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 indicates the minimum breaking current Ipm of the fuse.

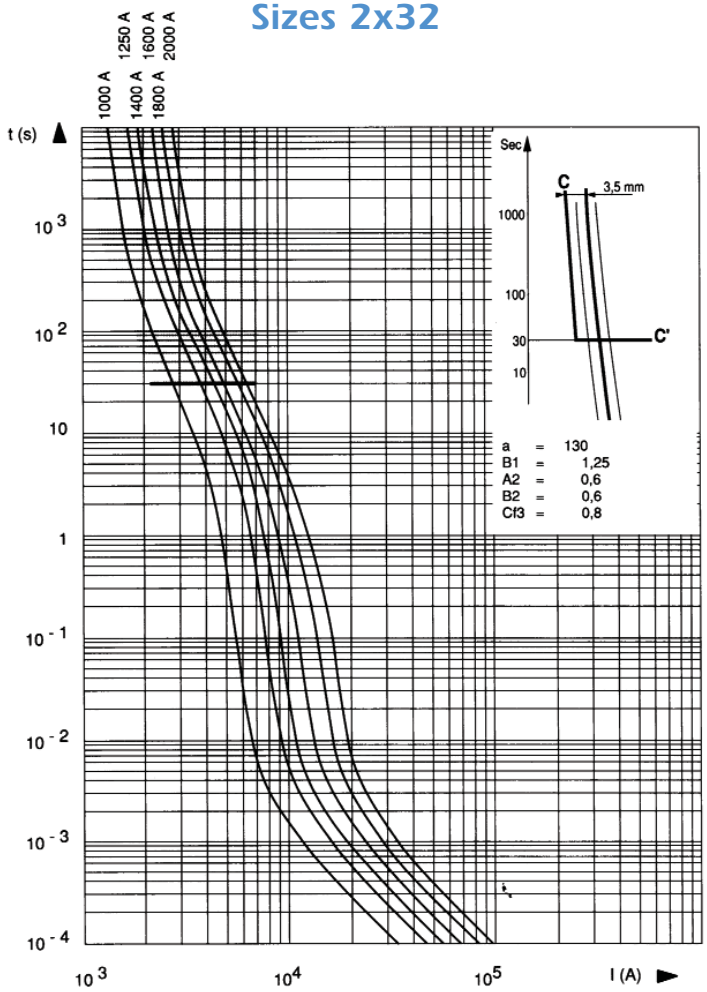


Maximum values of total operating I²t and total operating times

Left: Horizontal curves indicating the maximum values of total operating I²t (I^2t_t) as function of the prospective current I_p at 660 V, cos φ = 0.15.
The oblique lines indicate the corresponding total operating time T_t, with pre-arcing time in brackets.

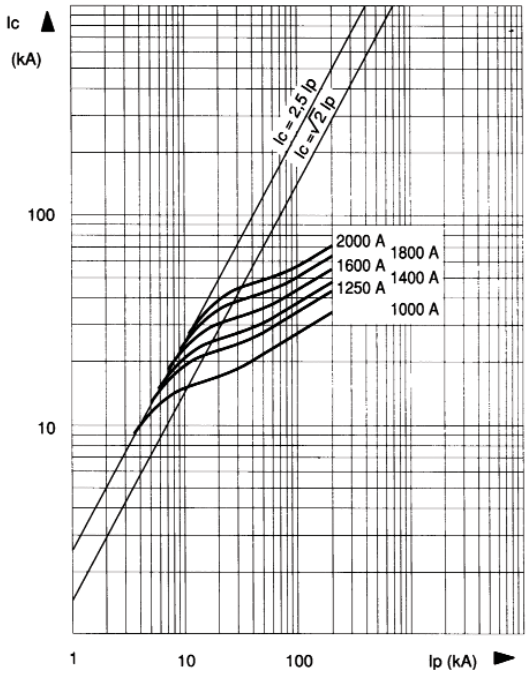
Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
Curves set

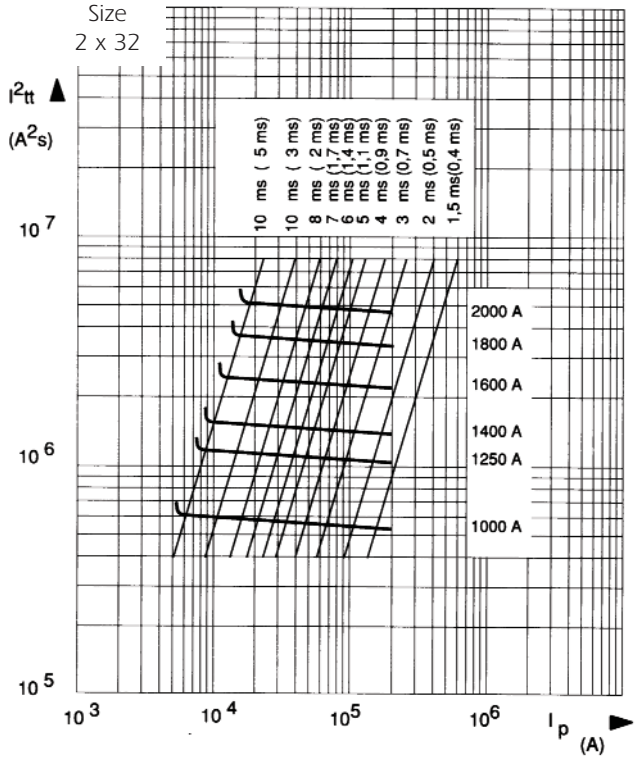
Sizes 2x32



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 Ip.





Time-current characteristics

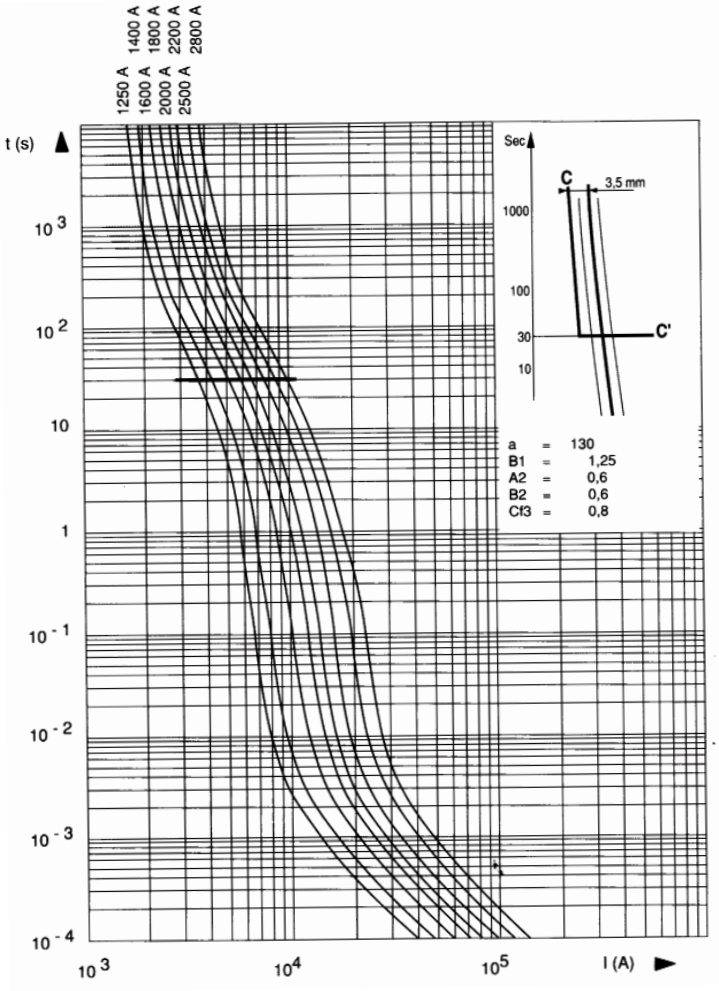
Above, left: Curves indicating pre-arcing time for each rated current as a function of RMS value of pre-arcing current I.
- Tolerances on this current ± 8 %.
- Beyond 30 sec or 10 sec, small overloads must be eliminated by another device.
- Curve CC' represents the maximum times taken by the associated 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 indicates the minimum breaking current Ipm of the fuse.

Maximum values of total operating I²t and total operating times

Left: Horizontal curves indicating the maximum values of total operating I²t (I^2t_t) as function of the prospective current I_p at 660 V, cos φ = 0.15.
The oblique lines indicate the corresponding total operating time T_t, with pre-arcing time in brackets.

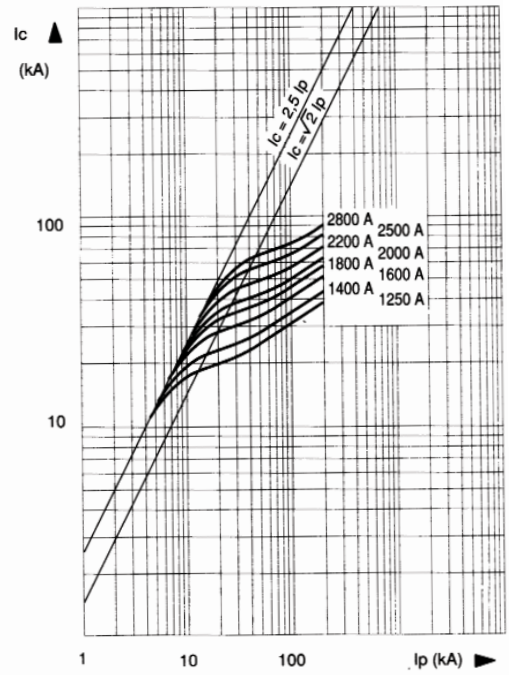
Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
Curves set

Size 2x33



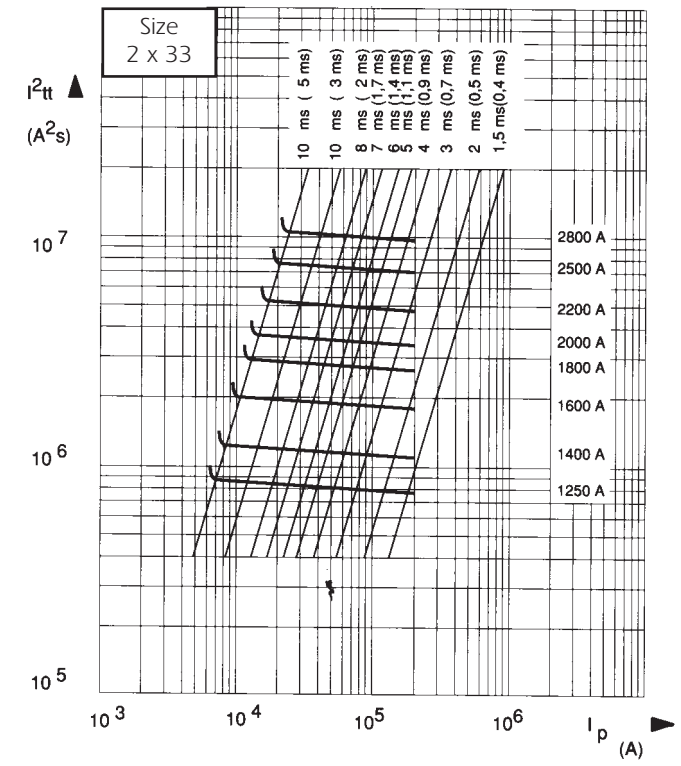
Cut-off characteristics

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

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 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 indicates the minimum breaking current Ipm of the fuse.



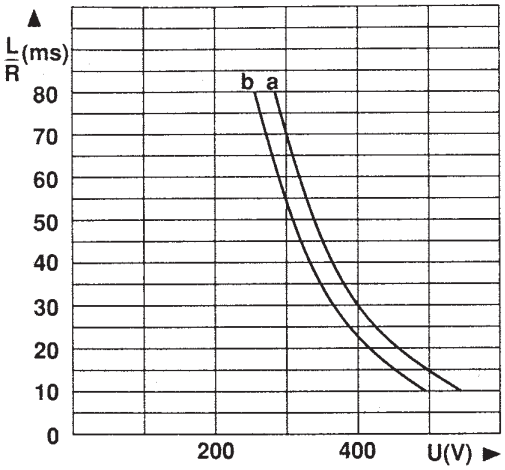
Maximum values of total operating I²t and total operating times

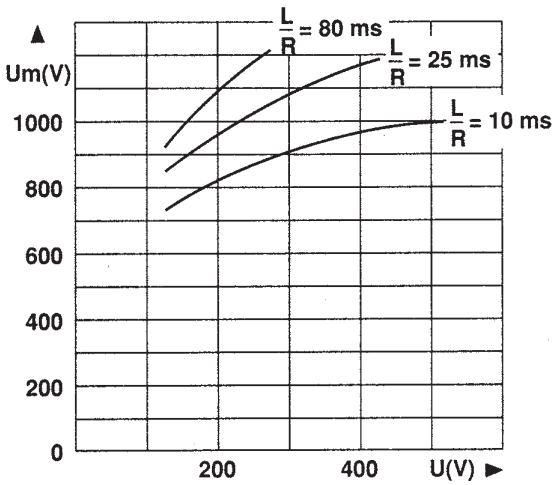
Left: Horizontal curves indicating the maximum values of total operating I²t (I^2t_t) as function of the prospective current I_p at 660 V, cos φ = 0.15. The oblique lines indicate the corresponding total operating time T_t, with pre-arcing time in brackets.

Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
Curves set

Sizes 30 - 31 - 32 - 33

DC working voltage possibilities





Rated current In (A)	Curves (*) and Ipm (1) corresponding to the rating					
	30 * Ipm (A)	31 * Ipm (A)	32 * Ipm (A)	33 * Ipm (A)	2 x 32 * Ipm (A)	2 x33 * Ipm (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

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.

Ipm (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. This is the case for faults occurring in voltage commutated inverters.

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

Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 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
- STANDARD 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 Non inductive circuit 30V	110V	250V	Inductive circuit : L/R = 25ms 30V	110V	250V	AC voltage withstand test (*)	Impulse voltage test Uimp1.2/50 µs (**)	Fire class according to UL 94
MS 3V 1-5 MS 3V 1-5 UR	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 7V 1-5 MS 7V 1-5 UR	1500V			DC	8 A	0,4 A	0,2 A	4 A	0,2 A	0,1 A	12 kV	20 kV	
MS 3V 1-5 BS MS 3V 1-9 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 7V 1-5 BS MS 7V 1-9 BS	1500V			DC	3 A	0,5 A	0,25 A	3 A	0,2 A	0,1 A	12 kV	20 kV	
MS 3V 1-5 ET	1000V	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 7V 1-5 ET	1500V			DC	3 A	0,5 A	-	2 A	0,2 A	-	12 kV	20 kV	

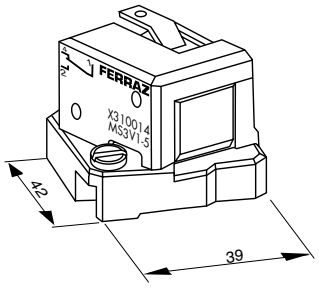
* Between power circuit and microswitch terminals as per IEC 60 and 694 and NFC 64010 (50/60 Hz 1 min duration in dry air)
** Between power circuit and microswitch terminals Uimp: impulse voltage as per IEC 60947-1
*** Between power circuit and microswitch terminals

Warning: microswitch systems exclusively designed for FERRAZ SHAWMUT.
PSC Fuses fitted a petented trip-indicator, saving use of EDV

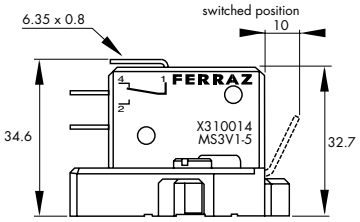
Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
Microswitches for PSC 3x &7x

Indication systems for PSC Fuse sizes 30 to 73

MS 3V...



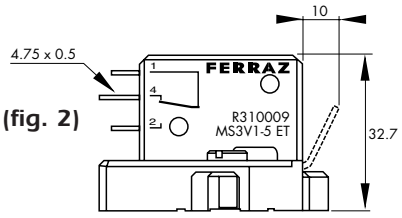
(fig. 1)



These patented indication systems are exclusively hand resettable.

Fuse size	Designation	Ref. Number	Indication style	Weight (g)	Pack.	Catalog Number
30, 31	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)	K310013	Low level NO-NC	34	3 pieces	MS3-V1-5BS
32, 33	MS 3V 1-9 BS (4)	P310011	Double pole Low level	44	3 pieces	MS3V1-9BS
	MS 3V 1-5 ET (fig.2)	S310009	Low level NO-NC IP 50 (9)	34	3 pieces	MS3V1-5 ETANCHE

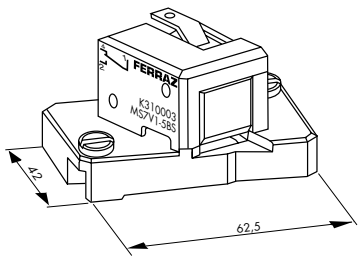
(3) Same as fig.1
(4) Same dimensions as figure 1 but with 2 microswitches side by side
(9) Watertightness class



(fig. 2)

MS 7V...

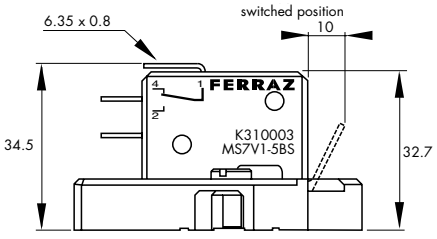
Fuse size	Designation	Ref. Number	Indication style	Weight (g)	Pack.	Catalog Number
70, 71	MS 7V 1-5 (fig.5)	J310002	Standard NO-NC	45	3 pieces	MS7 V1-5
	MS 7V 1-5 UR	Z310039				MS7 V1-5UR
	MS 7V 1-5 BS (3)	K310003	Low level NO-NC	45	3 pieces	MS7-V1-5BS
72, 73	MS 7V 1-9 BS (4)	P310007	Double pole Low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

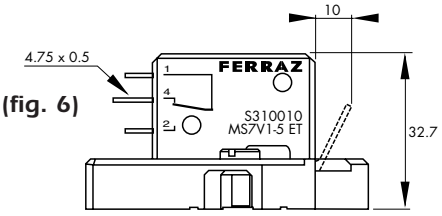


(fig. 5)

(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)

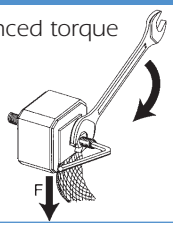
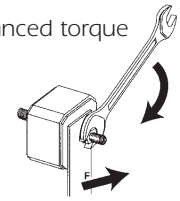
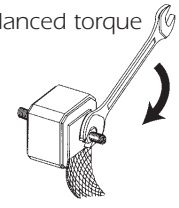
Protistor® Square-body Fuses
PSC aR sizes 3x - 450V to 700 VAC
Metric-studs

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	STUM8x30M8x35
	Size 2	HC stud pair M10x30 & M10x50	T098802	40	6 pairs	STUM10x30M10x50
	Size 3	HC stud pair M12x35 & M12x50	V098803	60	6 pairs	STUM12x35M12x50
	Size 2	HC stud pair M10x50	W098804	45	6 pairs	STUM10x50
	Size 3	HC stud pair M12x50	X098805	45	6 pairs	STUM12x50

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 tightning torque (Nm) (1)	Maximum nut tightning torque (Nm) (1)
Balanced torque 	M8x30 & M8x35 M10x30 & M10x50 M12x35 & M12x50	10 15 15	13.5 26 46
Balanced torque 	M8x30 & M8x35 M10x30 & M10x50 M12x35 & M12x50	10 15 15	13.5 26 46
Unbalanced torque 	M8x30 & M8x35 M10x30 & M10x50 M12x35 & M12x50	10 15 15	13.5 26 46