

# Medium voltage fuses

## European Fuses MV Intermediate Fuses (lighting) 3.2kV and 5.5kV



Rated Voltage (kV)	Dimensions (mm)	Rating I <sub>n</sub> (A)	Fuse without trip-indicator		Fuse with trip-indicator		Weight (kg)	Catalog Number
			Designation	Ref. Number	Designation	Ref. Number		
3,2	10 x 180 (figure 1)	0,16	3200 CP gLB 10.180/0,16	E081838	-	-	0,03	10GB32V0,16
		0,315	3200 CP gLB 10.180/0,315	F081839	-	-	0,03	10GB32V0,315
		0,5	3200 CP gLB 10.180/0,5	G081840	-	-	0,03	10GB32V0,5
		0,8	3200 CP gLB 10.180/0,8	H081841	-	-	0,03	10GB32V0,8
		1	3200 CP gLB 10.180/1	P089621	-	-	0,03	10GB32V1
		1,25	3200 CP gLB 10.180/1,25	R078744	-	-	0,03	10GB32V1,25
		1,6	3200 CP gLB 10.180/1,6	N081409	-	-	0,03	10GB32V1,6
		2	3200 CP gLB 10.180/2	Q089622	-	-	0,03	10GB32V2
		2,5	3200 CP gLB 10.180/2,5	S078745	-	-	0,03	10GB32V2,5
		3,15	3200 CP gLB 10.180/3,15	M081845	-	-	0,03	10GB32V3,15
		4	3200 CP gLB 10.180/4	R089623	-	-	0,03	10GB32V4
		5	3200 CP aLB 10.180/5	M087733	-	-	0,03	10GB32V5
	36 x 190 (figure 2)	6	3200 CP aLB 10.180/6	S089624	-	-	0,03	10AB32V6
		8	3200 CP aLB 10.180/8	T089625	-	-	0,03	10AB32V8
		10	3200 CP aLB 10.180/10	V089626	-	-	0,03	10AB32V10
		12	3200 CP aLB 10.180/12	W089627	-	-	0,03	10AB32V12
		2	3200 CP gLD 36.190/2	P081801	-	-	0,4	36GD32V2
		3,15	3200 CP gLD 36.190/3,15	Q081802	-	-	0,4	36GD32V3,15
		4	3200 CP gLD 36.190/4	R081803	-	-	0,4	36GD32V4
		5	3200 CP gLD 36.190/5	S081804	-	-	0,4	36GD32V5
		6	3200 CP gLD 36.190/6	T081805	329 CP gLD 36.190/6	K081797	0,4	36GD32V6,3
		8	3200 CP gLD 36.190/8	V081806	329 CP gLD 36.190/8	J081796	0,4	36GD32V8
		10	3200 CP gLD 36.190/10	W081807	329 CP gLD 36.190/10	H081795	0,4	36GD32V10
		12	3200 CP gLD 36.190/12	X081808	329 CP gLD 36.190/12	G081794	0,4	36GD32V12
		16	3200 CP gLD 36.190/16	Y081809	329 CP gLD 36.190/16	F081793	0,4	36GD32V16
		20	3200 CP gLD 36.190/20	Z081810	329 CP gLD 36.190/20	E081792	0,4	36GD32V20
		25	3200 CP gLD 36.190/25	A081811	329 CP gLD 36.190/25	D081791	0,4	36GD32V25
		32	3200 CP gLD 36.190/32	B081812	329 CP gLD 36.190/32	C081790	0,4	36GD32V32
		40	3200 CP gLD 36.190/40	C081813	329 CP gLD 36.190/40	B081789	0,4	36GD32V40
		50	3200 CP gLD 36.190/50	D081814	329 CP gLD 36.190/50	A081788	0,4	36GD32V50
	63	3200 CP gLD 36.190/63	L081798	329 CP gLD 36.190/63	Z081787	0,4	36GD32V63	
	80	3200 CP gLD 36.190/80	M081799	329 CP gLD 36.190/80	Y081786	0,4	36GD32V80	
100	3200 CP gLD 36.190/100	N081800	329 CP gLD 36.190/100	X081785	0,4	36GD32V100		
5,5	10 x 180 (figure 1)	0,16	5500 CP gLB 10.180/0,16	A093035	-	-	0,03	10GB55V0,16
		0,315	5500 CP gLB 10.180/0,315	B093036	-	-	0,03	10GB55V0,315
		0,5	5500 CP gLB 10.180/0,5	W081140	-	-	0,03	10GB55V0,5
		0,8	5500 CP gLB 10.180/0,8	V081139	-	-	0,03	10GB55V0,8
		1	5500 CP gLB 10.180/1	T081138	-	-	0,03	10GB55V1
		1,25	5500 CP gLB 10.180/1,25	N093162	-	-	0,03	10GB55V1,25
		1,6	5500 CP gLB 10.180/1,6	S081137	-	-	0,03	10GB55V1,6
		2	5500 CP gLB 10.180/2	R081136	-	-	0,03	10GB55V2
		2,5	5500 CP gLB 10.180/2,5	P093163	-	-	0,03	10GB55V2,5
		3,15	5500 CP gLB 10.180/3,15	Q081135	-	-	0,03	10GB55V3,15
		4	5500 CP gLB 10.180/4	N081133	-	-	0,03	10GB55V4
		36 x 250 (figure 3)	2	5500 CP gLB 36.250/2	V081622	-	-	0,5
	3,15		5500 CP gLB 36.250/3,15	A081397	-	-	0,5	36GB55V20
	4		5500 CP gLB 36.250/4	T081621	-	-	0,5	36GB55V4
	5		5500 CP gLB 36.250/5	S081620	-	-	0,5	36GB55V5
	6		5500 CP gLB 36.250/6	R081619	559 CP gLB 36.250/6	G081610	0,5	36GB55V6
	8		5500 CP gLB 36.250/8	Q081618	559 CP gLB 36.250/8	F081609	0,5	36GB55V8
	10		5500 CP gLB 36.250/10	P081617	559 CP gLB 36.250/10	E081608	0,5	36GB55V10
	12		5500 CP gLB 36.250/12	N081616	559 CP gLB 36.250/12	D081607	0,5	36GB55V12
	16		5500 CP gLB 36.250/16	M081615	559 CP gLB 36.250/16	C081606	0,5	36GB55V16
	20		5500 CP gLJB 36.250/20	L081614	559 CP gLJB 36.250/20	E078802	0,5	36GJB55V20
	25		5500 CP gLJB 36.250/25	Q078789	559 CP gLJB 36.250/25	F078803	0,5	36GJB55V25
	32		5500 CP gLJB 36.250/32	R078790	559 CP gLJB 36.250/32	G078804	0,5	36GJB55V32
	40		5500 CP gLJB 36.250/40	S078791	559 CP gLJB 36.250/40	H078805	0,5	36GJB55V40
	50		5500 CP gLJB 36.250/50	T078792	559 CP gLJB 36.250/50	J078806	0,5	36GJB55V50
	63		5500 CP aLJB 36.250/63	V078793	559 CP aLJB 36.250/63	K078807	0,5	36AJB55V63
	75	5500 CP aLJB 36.250/75	W078794	559 CP aLJB 36.250/75	L078808	0,5	36AJB55V75	
	55 x 259 (figure 4)	2	5500 CP gLD 55.259/2	S081505	-	-	1,4	55GD55V2
		3,15	5500 CP gLD 55.259/3,15	S081390	-	-	1,4	55GD55V3,15
		4	5500 CP gLD 55.259/4	R081504	-	-	1,4	55GD55V4
		5	5500 CP gLD 55.259/5	Q081503	-	-	1,4	55GD55V5
		6	5500 CP gLD 55.259/6	P081502	559 CP gLD 55.259/6	A081489	1,4	55GD55V6
		8	5500 CP gLD 55.259/8	N081501	559 CP gLD 55.259/8	Z081488	1,4	55GD55V8
		10	5500 CP gLD 55.259/10	M081500	559 CP gLD 55.259/10	Y081487	1,4	55GD55V10
		12	5500 CP gLD 55.259/12	L081499	559 CP gLD 55.259/12	X081486	1,4	55GD55V12
		16	5500 CP gLD 55.259/16	K081498	559 CP gLD 55.259/16	W081485	1,4	55GD55V16
		20	5500 CP gLD 55.259/20	J081497	559 CP gLD 55.259/20	V081484	1,4	55GD55V20
		25	5500 CP gLD 55.259/25	H081496	559 CP gLD 55.259/25	T081483	1,4	55GD55V25
		32	5500 CP gLD 55.259/32	G081495	559 CP gLD 55.259/32	S081482	1,4	55GD55V32
		40	5500 CP gLD 55.259/40	F081494	559 CP gLD 55.259/40	R081481	1,4	55GD55V40
		50	5500 CP gLD 55.259/50	E081493	559 CP gLD 55.259/50	Q081480	1,4	55GD55V50
		63	5500 CP gLD 55.259/63	D081492	559 CP gLD 55.259/63	P081479	1,4	55GD55V63
80	5500 CP gLD 55.259/80	C081491	559 CP gLD 55.259/80	N081478	1,4	55GD55V80		
100	5500 CP gLD 55.259/100	B081490	559 CP gLD 55.259/100	M081477	1,4	55GD55V100		

# Medium voltage fuses

## European Fuses MV Intermediate Fuses (lighting) 3.2kV and 5.5kV

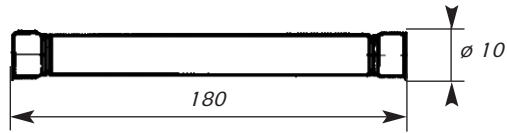
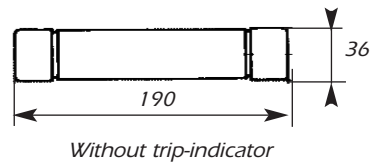
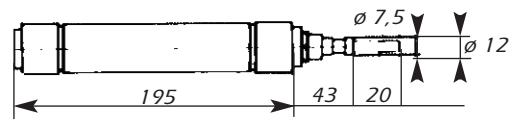


FIGURE 1

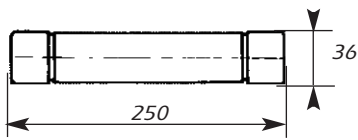


Without trip-indicator

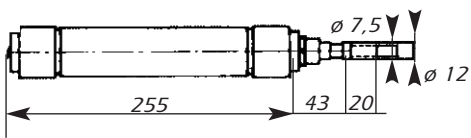


With trip-indicator

FIGURE 2

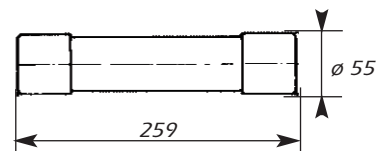


Without trip-indicator

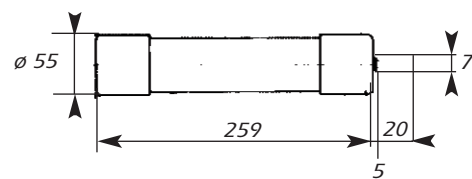


With trip-indicator

FIGURE 3



Without trip-indicator



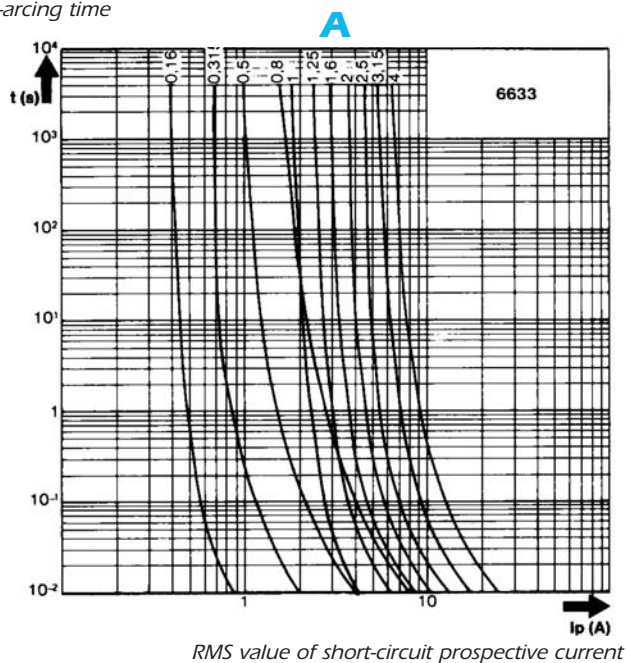
With trip-indicator

FIGURE 4

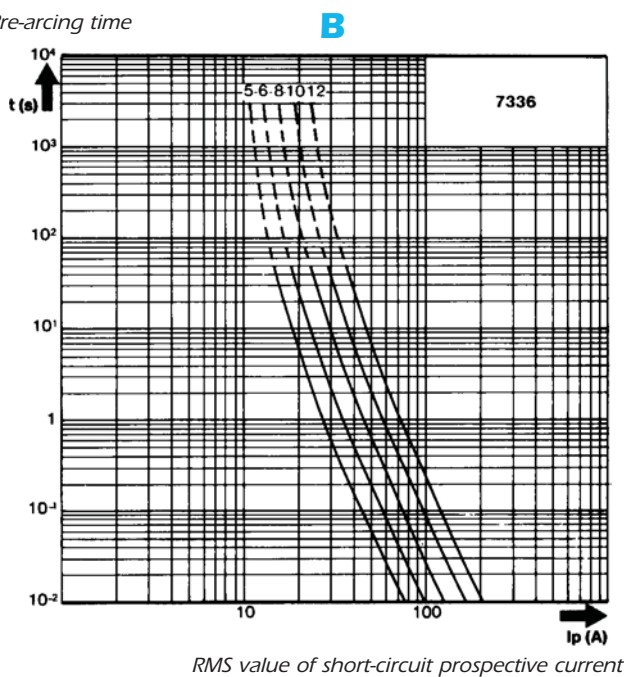
## European Fuses MV Intermediate Fuses (lighting) 3.2kV and 5.5kV

### Time/Current characteristics

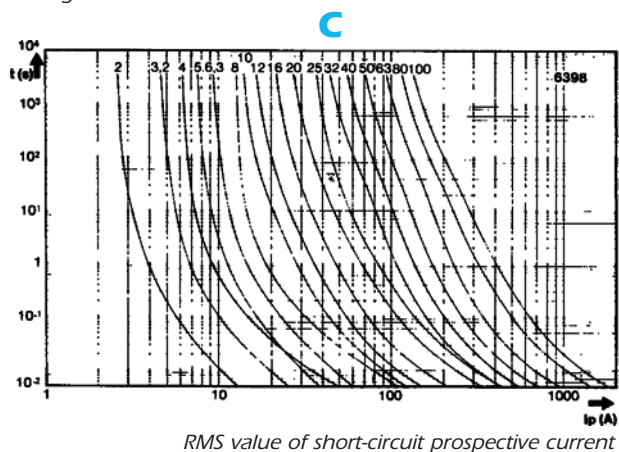
Pre-arcing time



Pre-arcing time



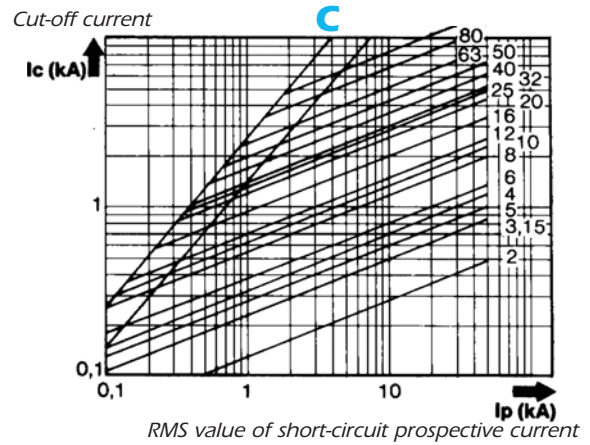
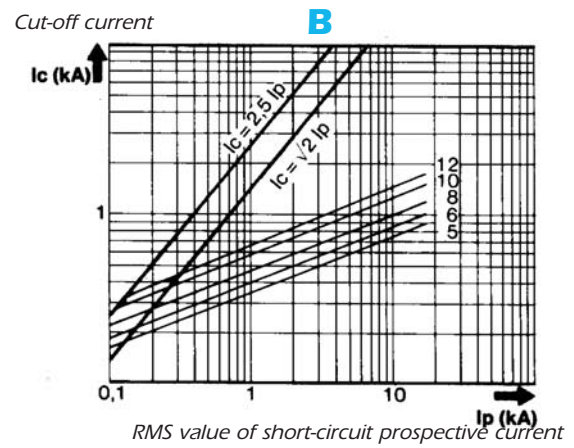
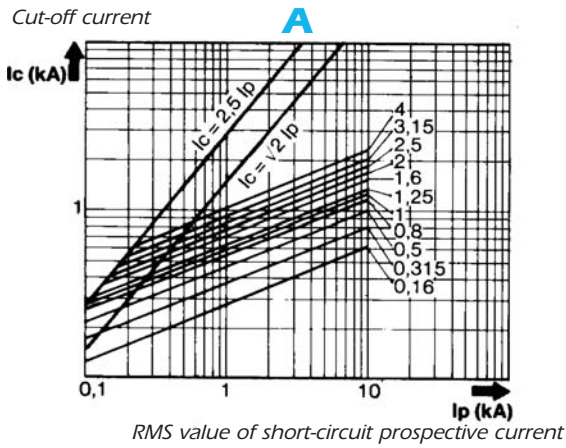
Pre-arcing time



# Medium voltage fuses

## European Fuses MV Intermediate Fuses (lighting) 3.2kV and 5.5kV

### Cut-off characteristics



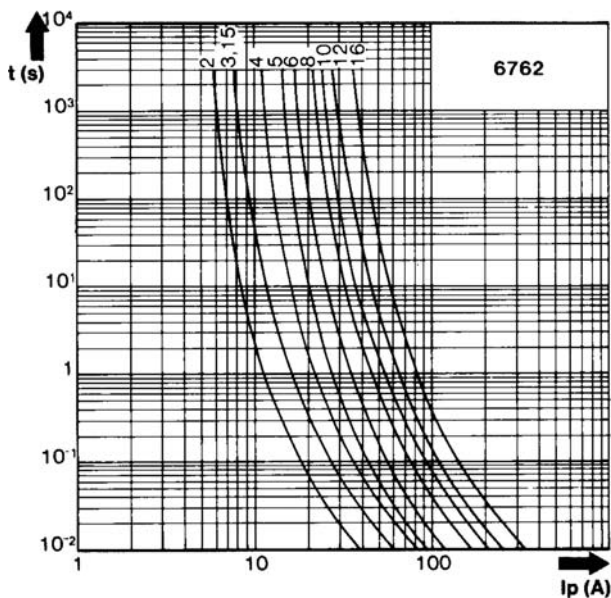
Rated Voltage (kV)	Dimensions (mm)	Rating (A)	Breaking Capacity (kA)	Peak arc voltage (kV)	Minimum Breaking Current (A)	Power Dissipation at $I_n$ (W)
3.2	10x180 <b>A B</b>	0,16	15	12		
		0,315	15	12		
		0,5	15	12		
		0,8	15	12		
		1	15	12		
		1,25	15	12		
		1,6	15	12		
		2	15	12		
		2,5	15	12		
		3,15	15	12		
		4	15	12		
		5	17,5	8	14	2
		6	17,5	8	18	2,5
		8	17,5	8	21	3,7
	10	17,5	8	30	4	
	12	17,5	8	36	4,8	
	36x190 <b>C</b>	2	50	15		
		3,15	50	15		
		4	50	15		
		6	50	15		
		8	50	15		
		10	50	15		14
		12	50	15		17
		16	50	15		19
		20	50	15		20
		25	50	15		25
32		50	7,2		17	
40		50	7,2		19	
50	50	7,2		23		
63	50	7,2		25		
80	50	7,2		25		
100	50	7,2		30		

## European Fuses MV Intermediate Fuses (lighting) 3.2kV and 5.5kV

### Time/Current characteristics

Pre-arcing time

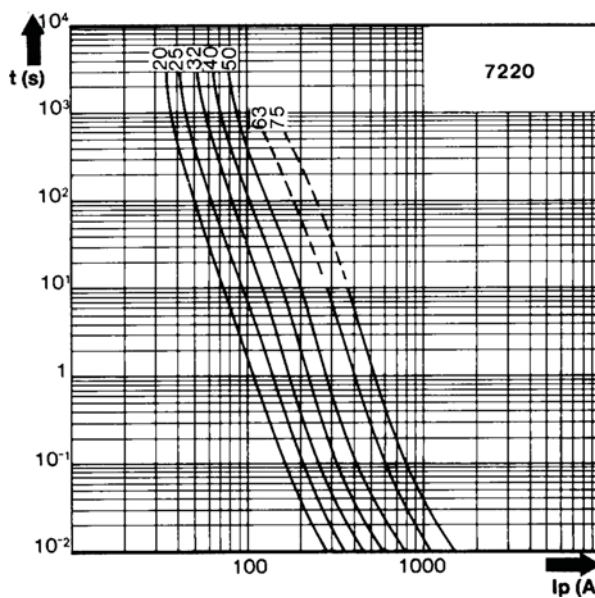
**D**



RMS value of short-circuit prospective current

Pre-arcing time

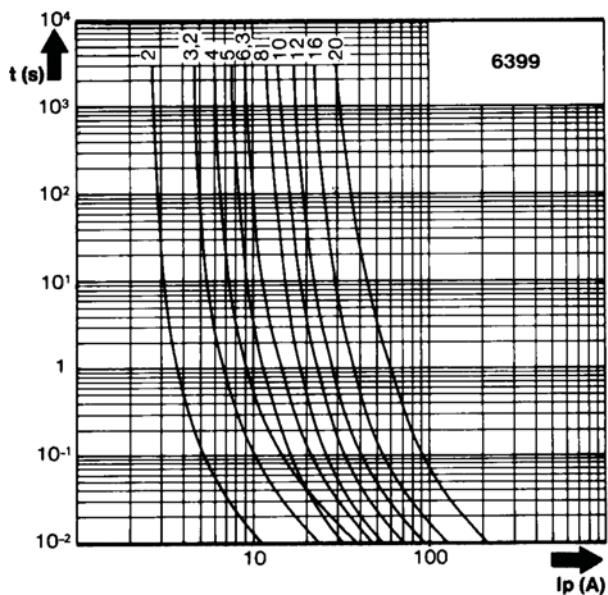
**E**



RMS value of short-circuit prospective current

Pre-arcing time

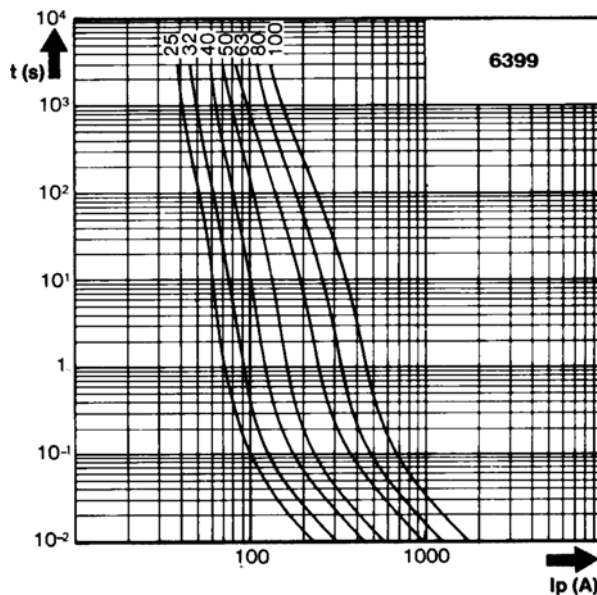
**F**



RMS value of short-circuit prospective current

Pre-arcing time

**G**

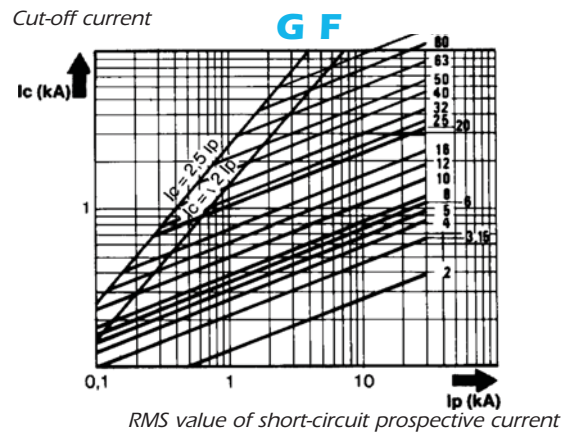
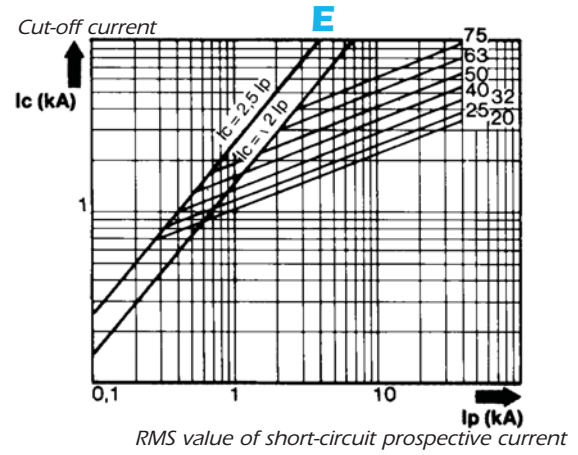
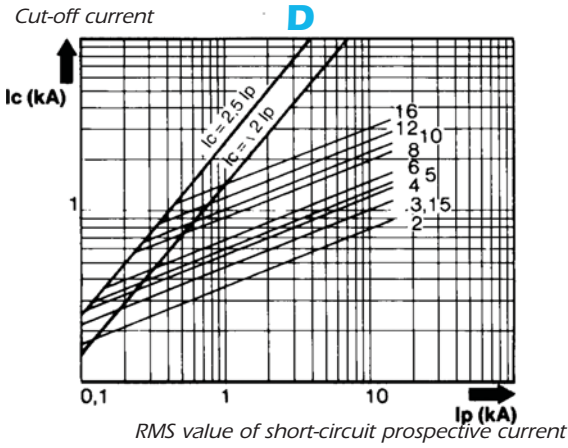


RMS value of short-circuit prospective current

# Medium voltage fuses

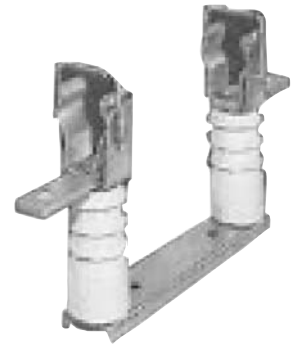
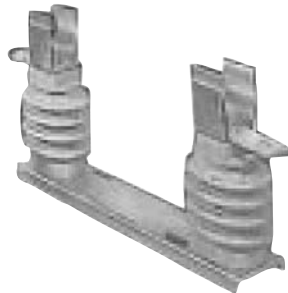
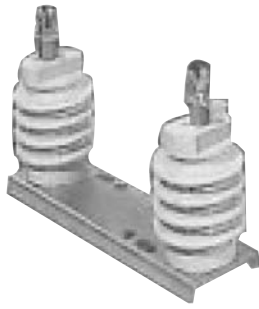
## European Fuses MV Intermediate Fuses (lighting) 3.2kV and 5.5kV

### Cut-off characteristics



Rated Voltage (kV)	Dimensions (mm)	Rating (A)	Breaking Capacity (kA)	Peak arc voltage (kV)	Minimum Breaking Current (A)	Power Dissipation at I <sub>η</sub> (W)	
5,5	10x180 <b>A</b>	0,16	10	12			
		0,315	10	12			
		0,5	10	12			
		0,8	10	12			
		1	10	12			
		1,25	10	12			
		1,6	10	12			
		2	10	12			
		2,5	10	12			
		3,15	10	12			
	4	10	12				
	36x250 <b>D E</b>	2	15	15	15		1,5
		3,15	15	15	15		2
		4	15	15	15		2,3
		5	15	15	15		2,8
		6	15	15	15		4
		8	15	15	15		5
		10	15	15	15		8
		12	15	15	15		9
		16	15	15	15		14
		20	40	12	12		16
		25	40	12	12		20
		32	40	12	12		24
		40	40	12	12		30
		50	40	12	12		35
	63	40	12	12		38	
	75	40	12	12		40	
	55x259 <b>F G</b>	2	30	18	18		
		3,15	30	18	18		
		4	30	18	18		
		5	30	18	18		
		6	30	18	18		
		8	30	18	18		
10		30	18	18			
12		30	18	18			
16		30	18	18			
20		30	18	18			
25		30	12	12		25	
32		30	12	12		30	
40		30	12	12		34	
50		30	12	12		40	
63		30	12	12		40	
80	30	12	12		50		
100	30	12	12		55		

## European Fuses MV Intermediate Fuses (lighting) 3.2kV and 5.5kV



### Fuse holder

Rated voltage (kV)	Withstand Voltage to earth		Designation	Figure	Reference Number	Weight (kg)	Catalog Number
	50 Hz - 1 mn (kV RMS)	1,2/50µS (kV peak)					
3,6	21	45	SI 50 10x180	5	S092706	0,22	SI50-10-180
7,2	27	60	SI 85 36x190	6	C092738	1,05	SI85-36-190TRA
7,2	27	60	SI 85 10x180	7	D092693	0,27	SI85-10-180
7,2	27	60	SI 85 36x250	8	P092864	1,15	SI85-36-250
7,2	27	60	SI 120 55x259	9	X092227	3,9	SI130-55-259

The clips MR 10, MR 36 and MR 55 can be supplied separately

### Indicating device

Designation	Reference Number	Number of microswitches	Type of fuse that can be equipped	Length of flexible part (mm)	Weight (kg)	Catalog Number
MC 1-5 Flex	E098674	1	Figure 2&3	395	0,110	MC1-5NFLEX
MC 1-9 Flex	F098675	2	Figure 2&3	395	0,120	MC1-9NFLEX
MC 1-5 Flex O	E092694	1	Figure 4	395	0,205	MC1-5NFLEXO
MC 1-9 Flex O	F092695	2	Figure 4	395	0,215	MC1-9NFLEXO

The electrical data of microswitches is given

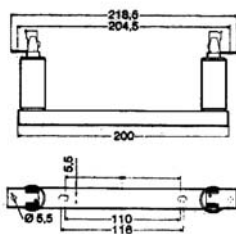


FIGURE 5

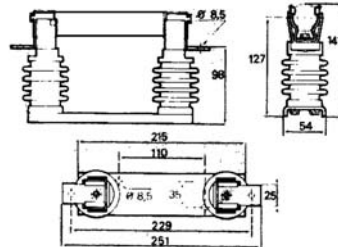


FIGURE 6

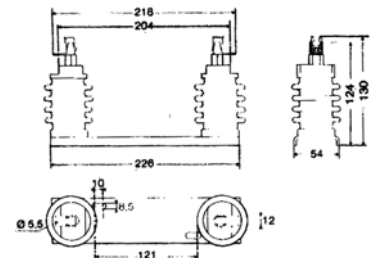


FIGURE 7

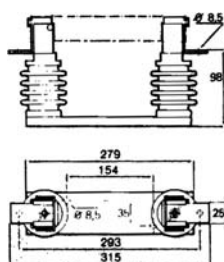


FIGURE 8

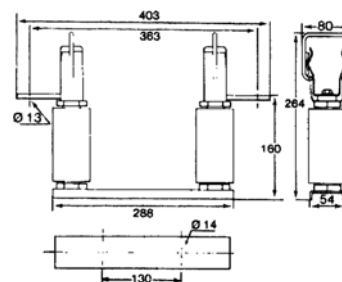


FIGURE 9