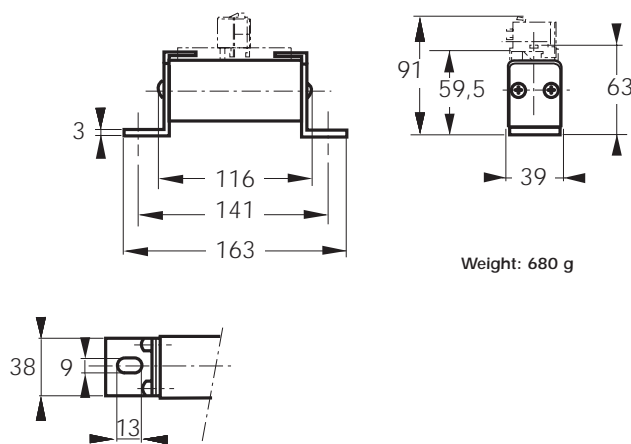


## DC Square-body Fuses Sizes 70- 72 - 2x72 SR 1200V DC

Size 70  
SRF from 20 to 215 A

### Dimensions



Weight: 680 g



### Main Characteristics

Size	Current rating $I_N$ (A)	Breaking Capacity	Watts loss		Max. $I^2t$ @ 1000 V		Designation	Ref. Number	Catalog Number
			$0.8 I_N$ (W)	$I_N$ (W)	L/R = 15 ms (A <sup>2</sup> S)	L/R = 45 ms (A <sup>2</sup> S)			
70	20	@ 1200 V DC 100 kA L/R = 15 ms	4.5	10	180	310	CC 12 SRF 70 QF 0020	C076638	D70SF120V20QF
	25		7	15.5	180	310	CC 12 SRF 70 QF 0025	S079435	D70SF120V25QF
	32		8.5	18.5	350	610	CC 12 SRF 70 QF 0032	T079436	D70SF120V32QF
	40		10	22	580	1000	CC 12 SRF 70 QF 0040	V079437	D70SF120V40QF
	50		12	26	1030	1800	CC 12 SRF 70 QF 0050	W079438	D70SF120V50QF
	63		15	33	1600	2800	CC 12 SRF 70 QF 0063	X079439	D70SF120V63QF
	80		18.5	37.5	3100	5400	CC 12 SRF 70 QF 0080	Y079440	D70SF120V80QF
	100		21.5	44.5	5800	10000	CC 12 SRF 70 QF 0100	Z079441	D70SF120V100QF
	125		28	54	9200	16000	CC 12 SRF 70 QF 0125	A079442	D70SF120V125QF
	160		34	64	19200	33200	CC 12 SRF 70 QF 0160	B079443	D70SF120V160QF
	200		35	65.5	45000	78500	CC 12 SRF 70 QF 0200	C079444	D70SF120V200QF
215	46	89	55000	95000	CC 12 SRF 70 QF 0215	D079445	D70SF120V215QF		

Microswitch: MC 3E 1-5N Ref. Number : D310020

Pack: 1 piece

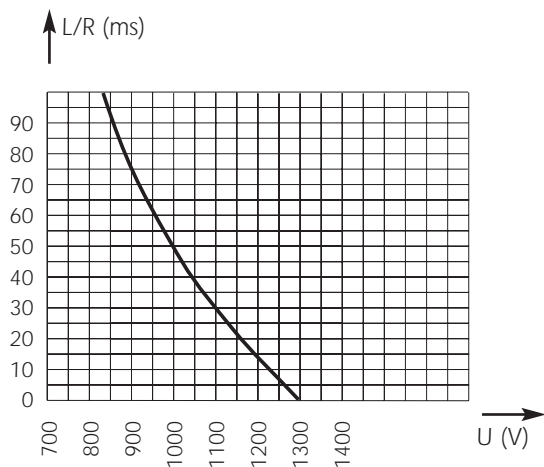


## DC Square-body Fuses Sizes 70- 72 - 2x72 SR 1200V DC

Size 70  
SRF from 20 to 215 A

### Electrical characteristics

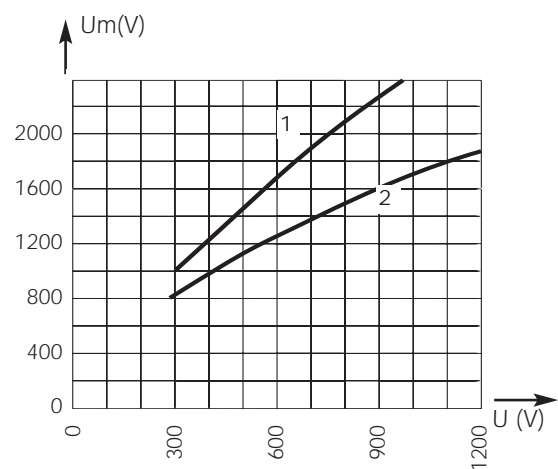
#### DC applications data



Above: Curve indicates maximum permissible value of time constant  $L/R$  as a function of DC working voltage

**Max. AC voltage (50/60 Hz):**  
900 V with breaking capacity of 100 kA

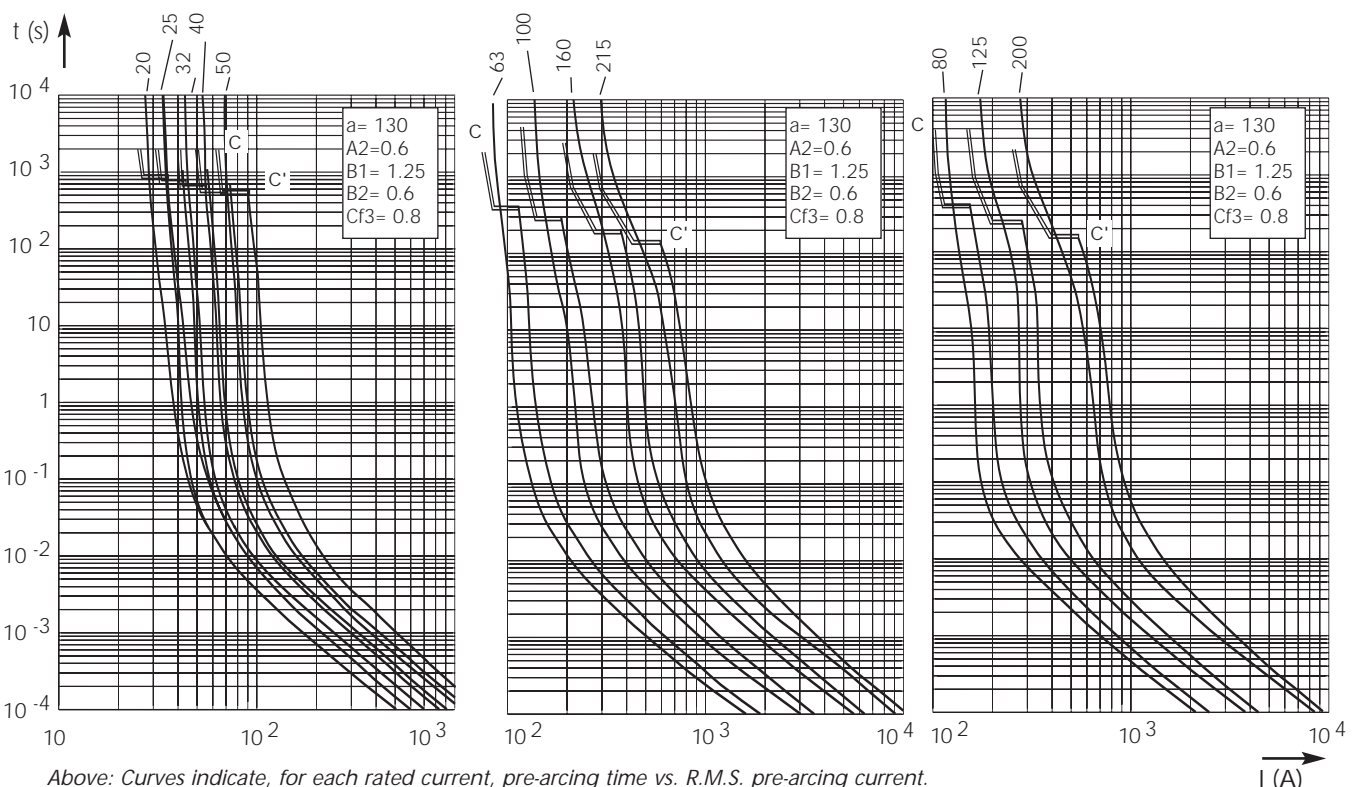
#### Peak arc voltage vs. working voltage



1 :  $L/R = 45$  ms  
2 :  $L/R = 15$  ms

Above: Curves indicate for various time constants  $L/R$  the peak arc voltage, which may appear across fuse terminals, vs. DC working voltage

#### Time vs. current characteristics

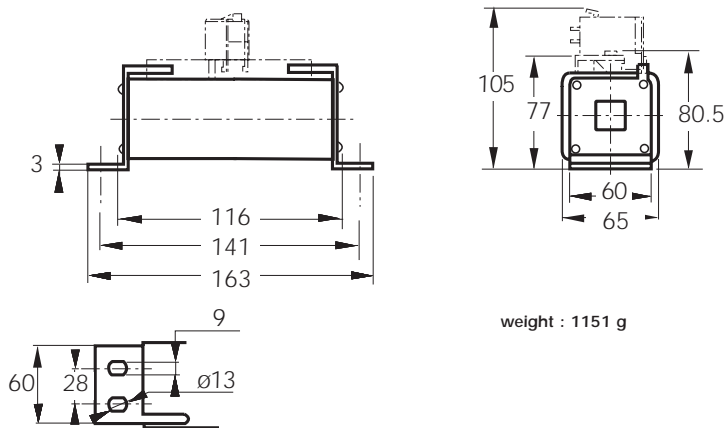


Above: Curves indicate, for each rated current, pre-arcing time vs. R.M.S. pre-arcing current.

## DC Square-body Fuses Sizes 70- 72 - 2x72 SR 1200V DC

Size 72  
SRG from 160 to 420 A

### Dimensions



weight : 1151 g



### Main Characteristics

Size	Current rating $I_N$ (A)	Breaking Capacity	Watts loss		Max. $I^2t$ @ 1000 V		Designation	Ref. Number	Catalog Number
			0.8 $I_N$ (W)	$I_N$ (W)	L/R = 15 ms (A <sup>2</sup> S)	L/R = 45 ms (A <sup>2</sup> S)			
72	160	@ 1200 V DC 100 kA L/R = 15 ms	41	77.5	12000	20000	CC 12 SRG 72 QF 0160	K079428	D72SG120V160QF
	200		48	88	21000	36000	CC 12 SRG 72 QF 0200	L079429	D72SG120V200QF
	250		57	96	45500	78500	CC 12 SRG 72 QF 0250	M079430	D72SG120V250QF
	315		60	110	90000	154000	CC 12 SRG 72 QF 0315	N079431	D72SG120V315QF
	400		66	129	182000	314000	CC 12 SRG 72 QF 0400	P079432	D72SG120V400QF
	420		67	131	220000	380000	CC 12 SRG 72 QF 0420	Q079433	D72SG120V420QF

Microswitch: MC 3E 1-5N Ref. Number: D310020

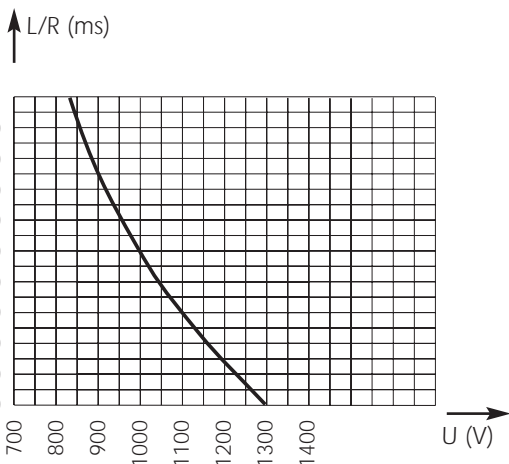
Pack: 1 piece



## DC Square-body Fuses Sizes 70- 72 - 2x72 SR 1200V DC

Size 72  
SRG from 160 to 420 A

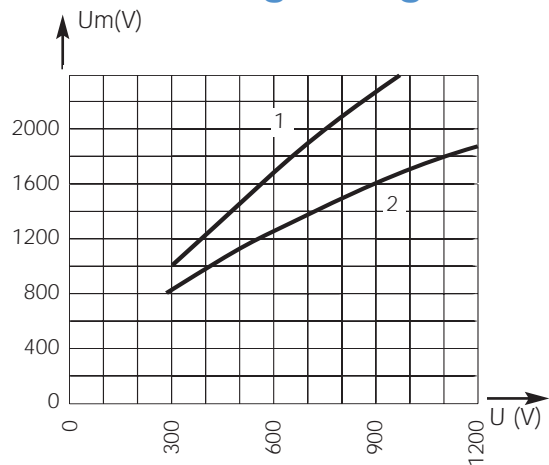
### Electrical characteristics DC applications data



Above: Curve indicates maximum permissible value of time constant L/R as a function of DC working voltage

**Max. AC voltage (50/60 Hz):**  
900 V with breaking capacity of 100 kA

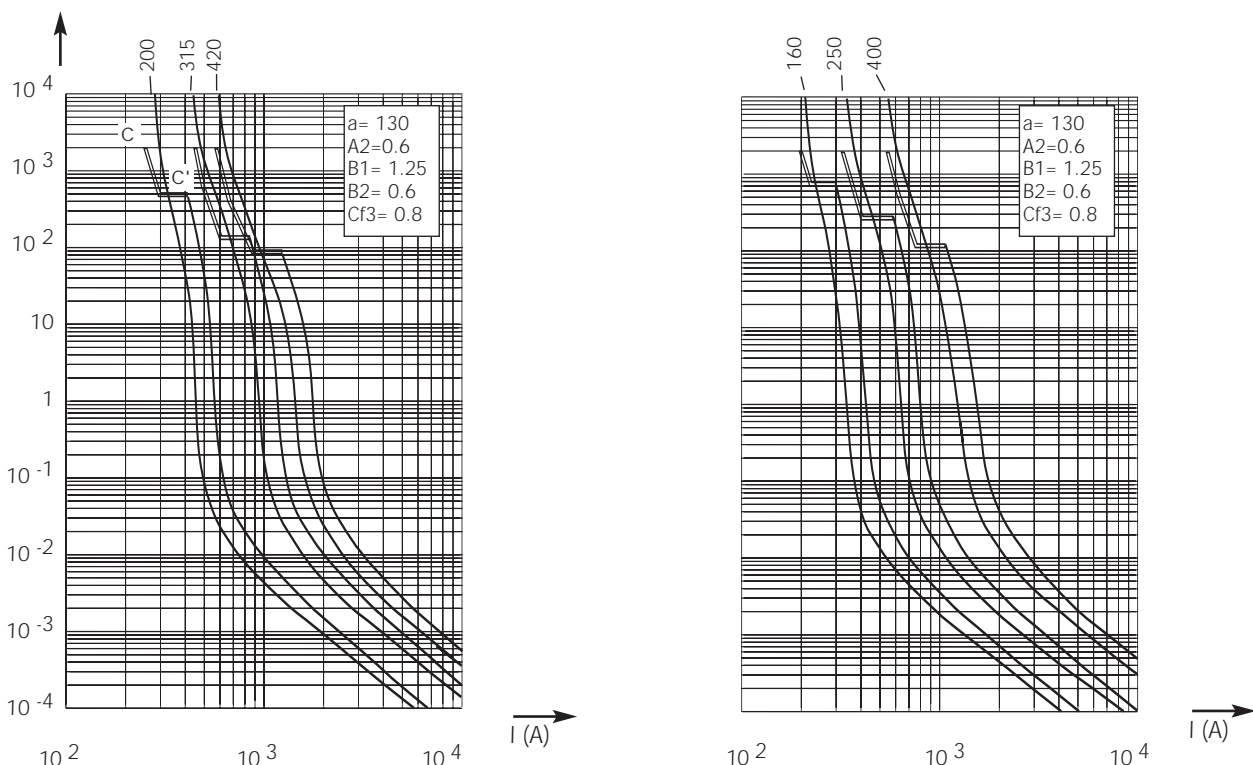
### Peak arc voltage vs. working voltage



1 : L/R = 45 ms  
2 : L/R = 15 ms

Above: Curves indicate for various time constants L/R the peak arc voltage which may appear across the fuse terminals, vs. DC working voltage

### Time vs. current characteristics

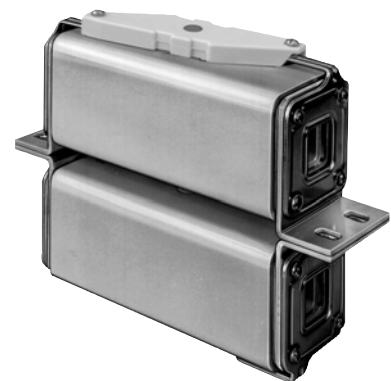
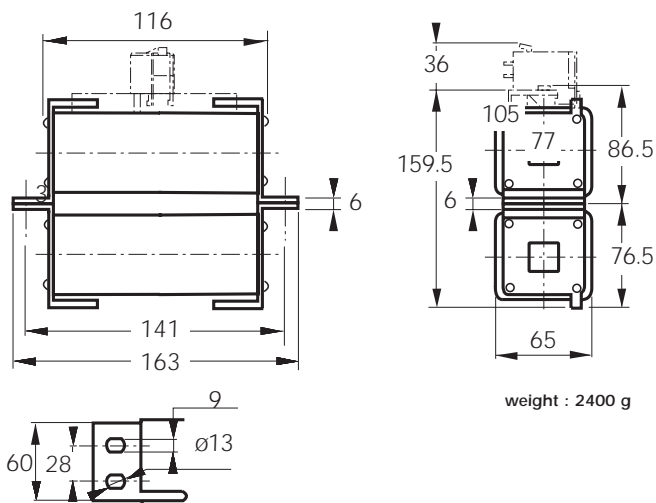


Above, left and right: These curves indicate, for each rated current, pre-arcing time vs. R.M.S. pre-arcing current.

## DC Square-body Fuses Sizes 70- 72 - 2x72 SR 1200V DC

Size 2x72  
SRG from 500 to 840 A

### Dimensions



### Main Characteristics

Size	Current rating $I_N$ (A)	Breaking Capacity	Watts loss		Max. $I^2t$ @ 1000 V		Designation	Ref. Number	Catalog Number
			$0.8 I_N$ (W)	$I_N$ (W)	L/R = 15 ms (A <sup>2</sup> S)	L/R = 45 ms (A <sup>2</sup> S)			
2x72	500	@ 1200 V DC 100 kA L/R = 15 ms	120	202	182000	314000	CC 12 SRG 272 QF 500	P077983	D 272 SG 120V 500 QF
	630		126	230	360000	616000	CC 12 SRG 272 QF 630	F079447	D 272 SG 120V 630 QF
	800		139	270	728000	1.25 10 <sup>6</sup>	CC 12 SRG 272 QF 800	G079448	D 272 SG 120V 800 QF
	840		142	275	880000	1.53 10 <sup>6</sup>	CC 12 SRG 272 QF 840	H079449	D 272 SG 120V 840 QF

Microswitch: MC 3E 1-5N Ref. Number: D310020

Pack: 1 piece

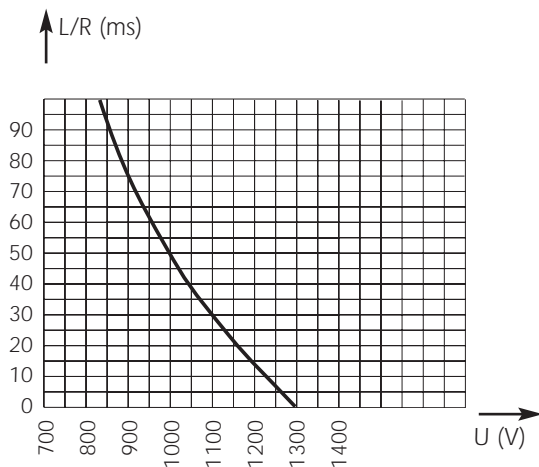


## DC Square-body Fuses Sizes 70- 72 - 2x72 SR 1200V DC

Size 2x72  
SRG from 500 to 840 A

### Electrical characteristics

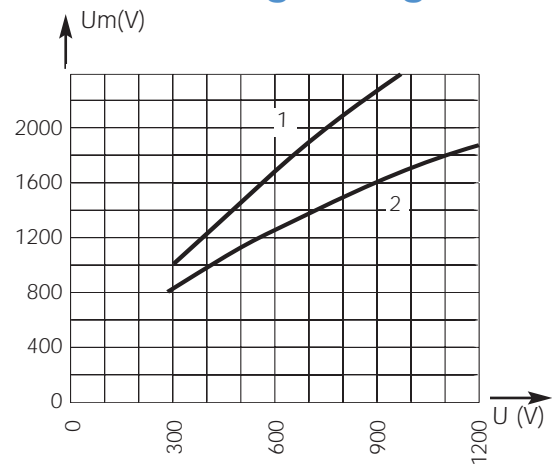
#### DC applications data



Above: Curve indicates maximum permissible value of time constant L/R as a function of DC working voltage

**Max. AC voltage (50/60 Hz):**  
900 V with breaking capacity of 100 kA

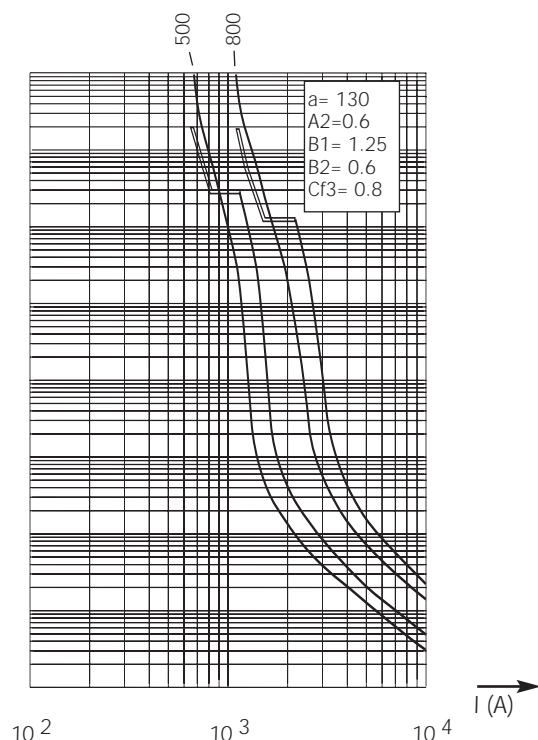
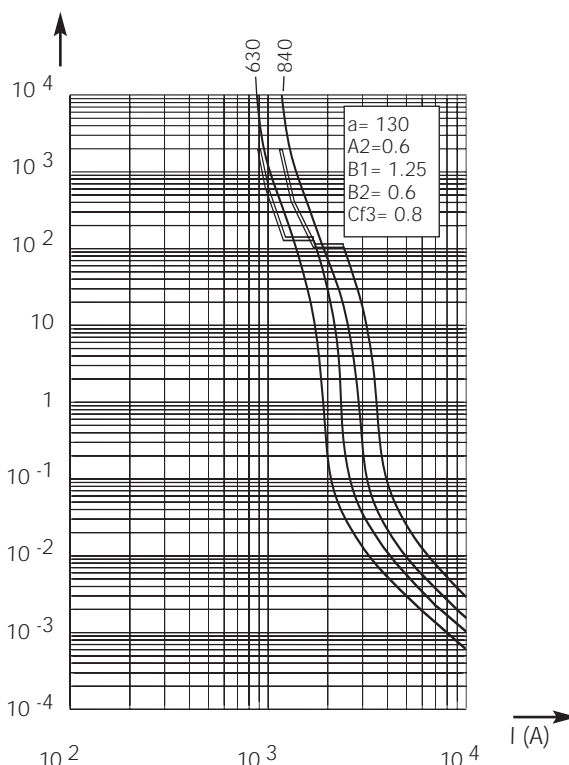
#### Peak arc voltage vs. working voltage



1 : L/R = 45 ms  
2 : L/R = 15 ms

Above: Curves indicate for various time constants L/R the peak arc voltage which may appear across the fuse terminals, vs. DC working voltage

#### Time vs. current characteristics

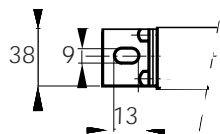
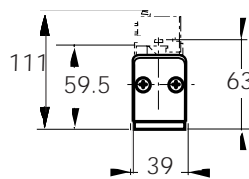
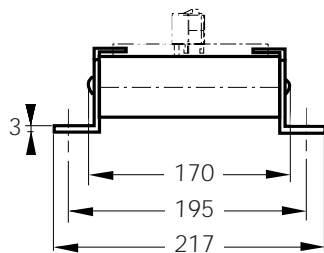


Above, left and right: These curves indicate, for each rated current, pre-arcing time vs. R.M.S. pre-arcing current.

## DC Square-body Fuses Sizes 120- 122 - 2x122 SR 2000V DC

Size 120  
SRC from 20 to 215 A

### Dimensions



Weight : 900 g



### Main Characteristics

Size	Current rating $I_N$ (A)	Breaking Capacity	Watts loss		Max. $I^2t$ @ 1600 V		Designation	Ref. Number	Catalog Number
			0.8 $I_N$ (W)	$I_N$ (W)	L/R = 15 ms (A <sup>2</sup> S)	L/R = 45 ms (A <sup>2</sup> S)			
120	20	@ 2000 V= 100 kA L/R = 15 ms	8	16	180	310	CC 20 SRC 120 QF 0020	J079450	D120SC20C20QF
	25		12.5	25	180	310	CC 20 SRC 120 QF 0025	K079451	D120SC20C25QF
	32		14.5	29.5	350	610	CC 20 SRC 120 QF 0032	L079452	D120SC20C32QF
	40		17.5	36	580	1000	CC 20 SRC 120 QF 0040	M079453	D120SC20C40QF
	50		20.5	42	1030	1800	CC 20 SRC 120 QF 0050	N079454	D120SC20C50QF
	63		26	53.5	1600	2800	CC 20 SRC 120 QF 0063	P079455	D120SC20C63QF
	80		30	61.5	3100	5400	CC 20 SRC 120 QF 0080	Q079456	D120SC20C80QF
	100		35	70.5	5800	10000	CC 20 SRC 120 QF 0100	R079457	D120SC20C100QF
	125		43	87.5	9200	16000	CC 20 SRC 120 QF 0125	S079458	D120SC20C125QF
	160		49	99	19200	33200	CC 20 SRC 120 QF 0160	T079459	D120SC20C160QF
	200		49.5	101	45000	78500	CC 20 SRC 120 QF 0200	V079460	D120SC20C200QF
215	52	106	55000	95000	CC 20 SRC 120 QF 0215	W079461	D120SC20C215QF		

Microswitch: MCR 3E 1-5N BS Ref. Number : G310023

Pack: 1 piece

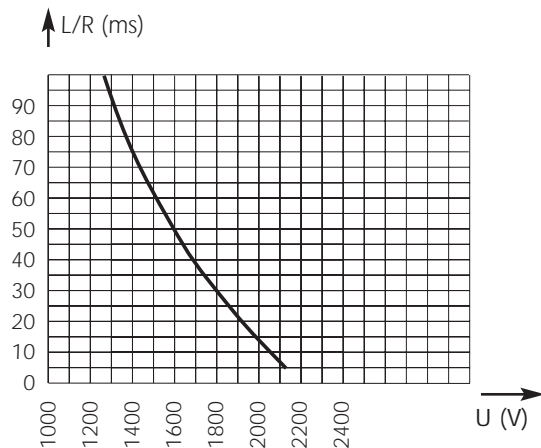


## DC Square-body Fuses Sizes 120- 122 - 2x122 SR 2000V DC

Size 120  
SRC from 20 to 215 A

### Electrical characteristics

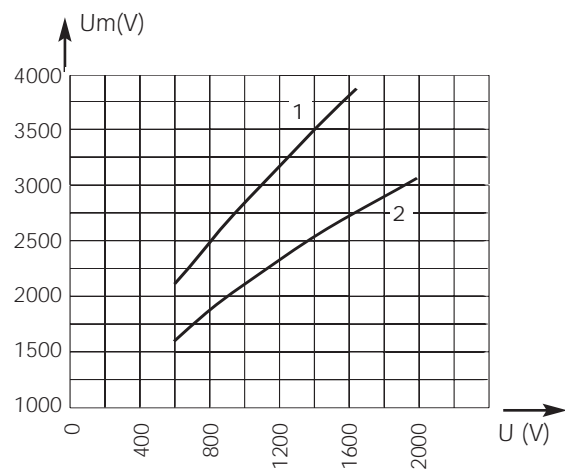
#### DC applications data



Above: Curve indicates the maximum permissible value of time constant L/R as a function of the DC working voltage

**Max. AC voltage (50/60 Hz):**  
1500 V with breaking capacity of 100 kA

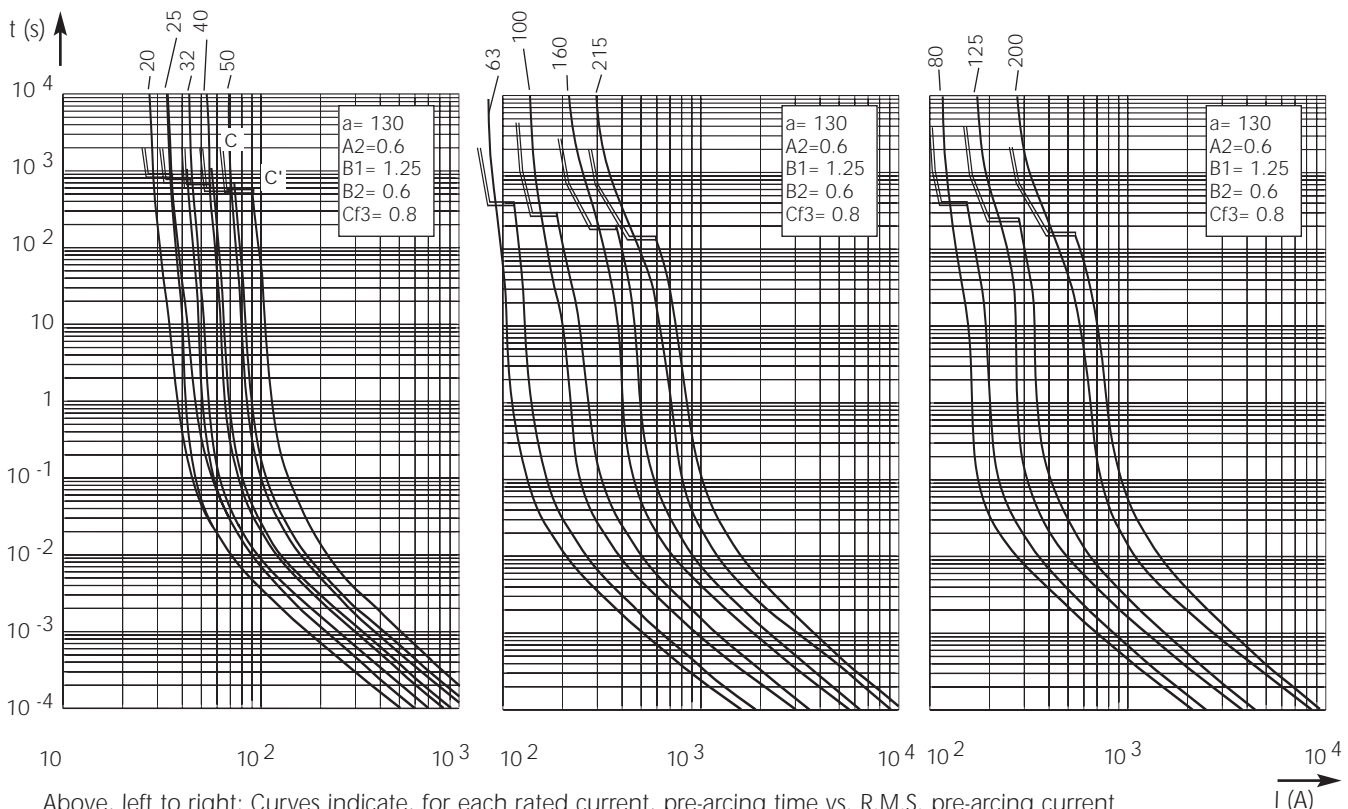
#### Peak arc voltage vs. working voltage



1 : L/R = 45 ms  
2 : L/R = 15 ms

Above: Curves indicate for various time constants L/R the peak arc voltage which may appear across the fuse terminals, vs. DC working voltage

#### Time vs. current characteristics



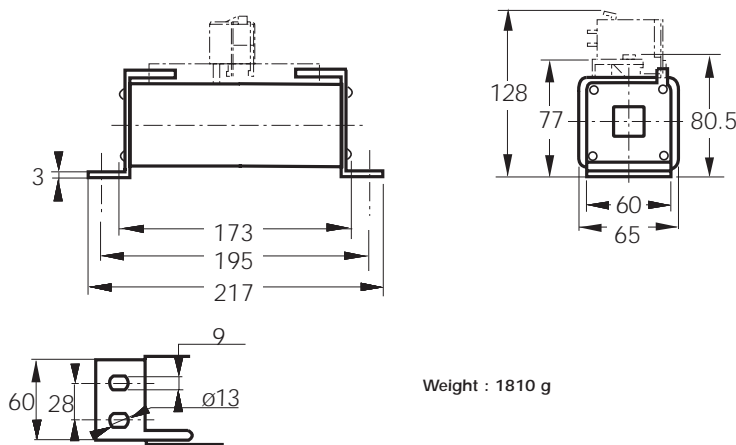
Above, left to right: Curves indicate, for each rated current, pre-arcing time vs. R.M.S. pre-arcing current



## DC Square-body Fuses Sizes 120- 122 - 2x122 SR 2000V DC

Size 122  
SRD from 160 to 400 A

### Dimensions



Weight : 1810 g



### Main Characteristics

Size	Current rating $I_N$ (A)	Breaking capacity	Watts loss		Max. $I^2t$ @ 1600 V		Designation	Ref. Number	Catalog Number
			0.8 $I_N$ (W)	$I_N$ (W)	L/R = 15 ms (A <sup>2</sup> S)	L/R = 45 ms (A <sup>2</sup> S)			
122	60	@ 1800 V DC 100 kA	52.5	100	15000	25000	CC 20 SRD 122 QF 0160	D076639	D122SD20C160QF
	200	L/R = 30 ms	61.5	118	26000	44000	CC 20 SRD 122 QF 0200	X079462	D122SD20C200QF
	250	@ 2000 V	69	131	50000	87000	CC 20 SRD 122 QF 0250	Y079463	D122SD20C250QF
	315	DC	74	150	117000	200000	CC 20 SRD 122 QF 0315	Z079464	D122SD20C315QF
	400	100k A	87	175	219000	380000	CC 20 SRD 122 QF 0400	A079465	D122SD20C400QF
			L/R = 15 ms						

Microswitch: MCR 3E 1-5N BS Ref. Number : G310023

Pack: 1 piece

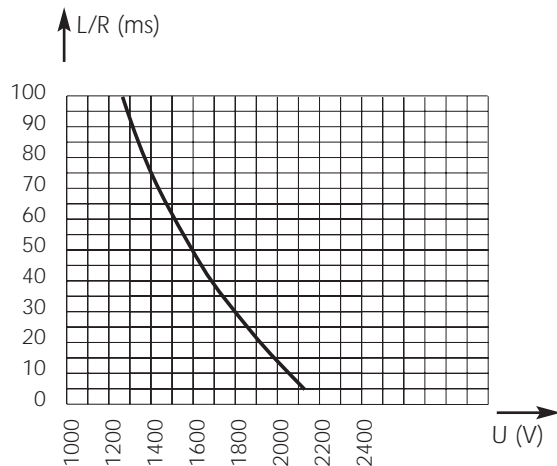


## DC Square-body Fuses Sizes 120- 122 - 2x122 SR 2000V DC

Size 122  
SRD from 160 to 400 A

### Electrical characteristics

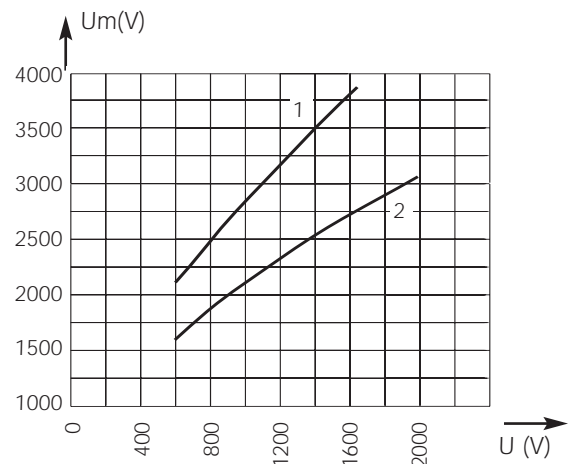
#### DC applications data



Above: Curve indicates maximum permissible value of time constant L/R as a function of DC working voltage

**Max. AC voltage (50/60 Hz):**  
1500 V with breaking capacity of 100 kA

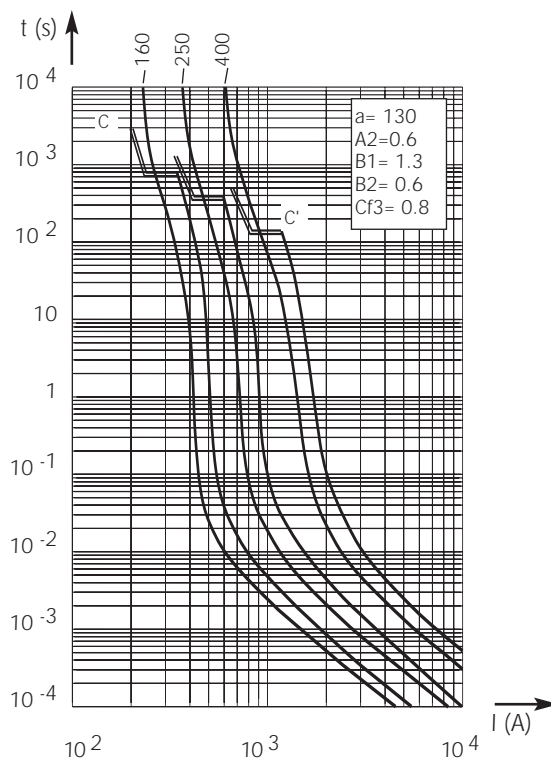
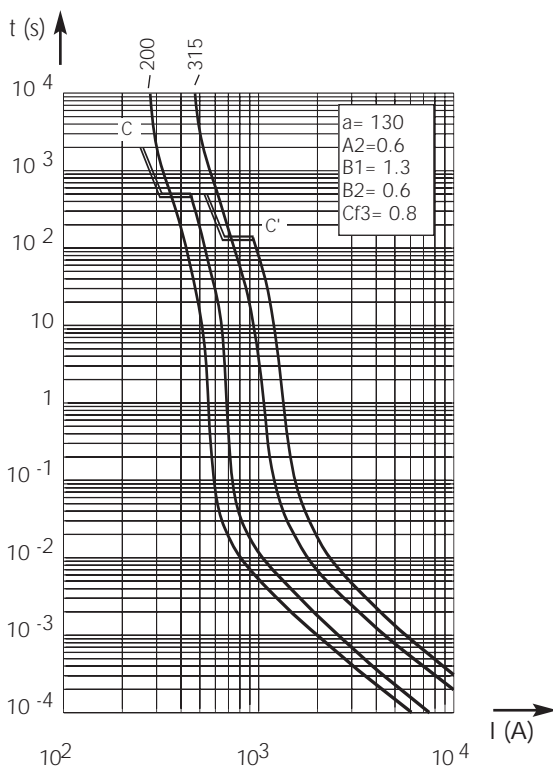
#### Peak arc voltage vs. working voltage



1 : L/R = 45 ms  
2 : L/R = 15 ms

Above: Curves indicate for various time constants L/R the peak arc voltage which may appear across fuse terminals, vs. DC working voltage

#### Time vs. current characteristics

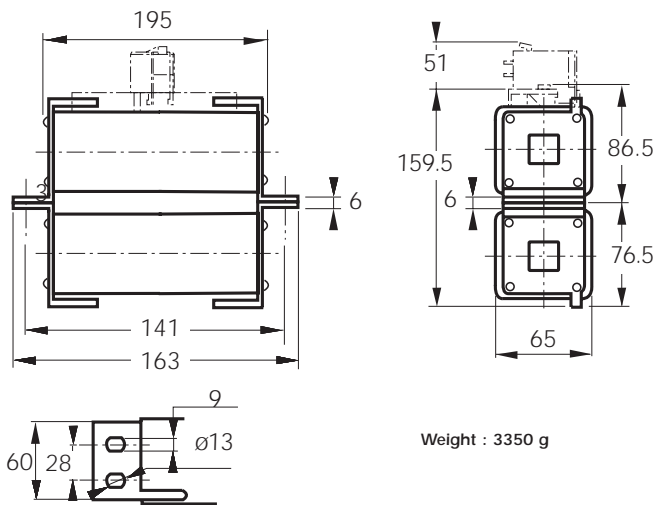


Above, left and right: Curves indicate, for each rated current, pre-arcing time vs. R.M.S. pre-arcing current.

## DC Square-body Fuses Sizes 120- 122 - 2x122 SR 2000V DC

Size 2x122  
SRD from 500 to 800 A

### Dimensions



### Main Characteristics

Size	Current rating $I_N$ (A)	Breaking capacity	Watts loss		Max. $I^2t$ @ 1600 V		Designation	Ref. Number	Catalog Number
			0.8 $I_N$ (W)	$I_N$ (W)	L/R = 15 ms (A <sup>2</sup> S)	L/R = 45 ms (A <sup>2</sup> S)			
2x122	500	@ 1800 V DC 100 kA	145	274	200000	348000	CC 20 SRD 2122 QF 500	E076640	D2122SD20C500QF
	630	L/R = 30 ms @ 2000 V DC	155	314	468000	800000	CC 20 SRD 2122 QF 630	F076641	D2122SD20C630QF
	800	100k A L/R = 15 ms	182	367	876000	1.520000	CC 20 SRD 2122 QF 800	V096066	D2122SD20C800QF

Microswitch: MCR 3E 1-5N BS Ref. Number : G310023

Pack: 1 piece

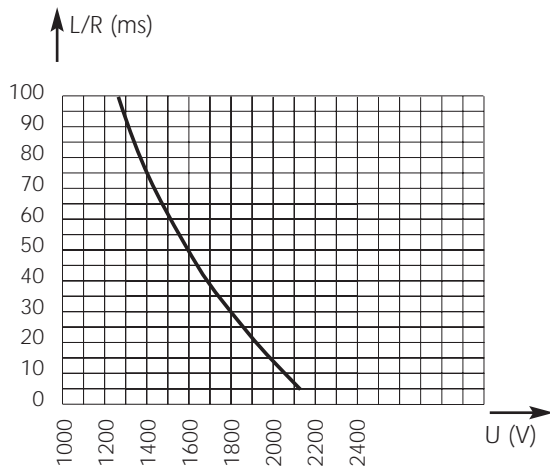


## DC Square-body Fuses Sizes 120- 122 - 2x122 SR 2000V DC

Size 2x122  
SRD from 500 to 800 A

### Electrical characteristics

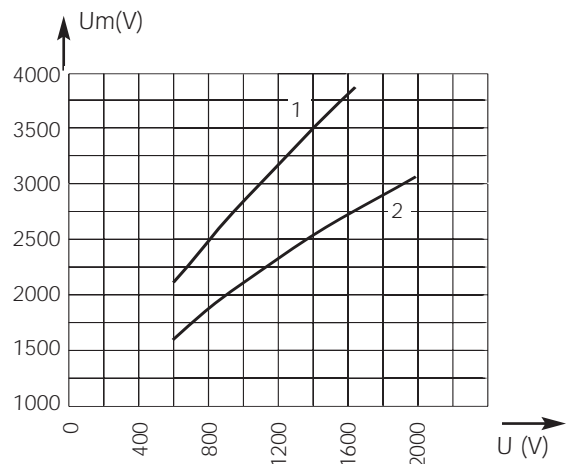
#### DC applications data



Above: Curve indicates maximum permissible value of time constant L/R as a function of DC working voltage

**Max. AC voltage (50/60 Hz):**  
1500 V with breaking capacity of 100 kA

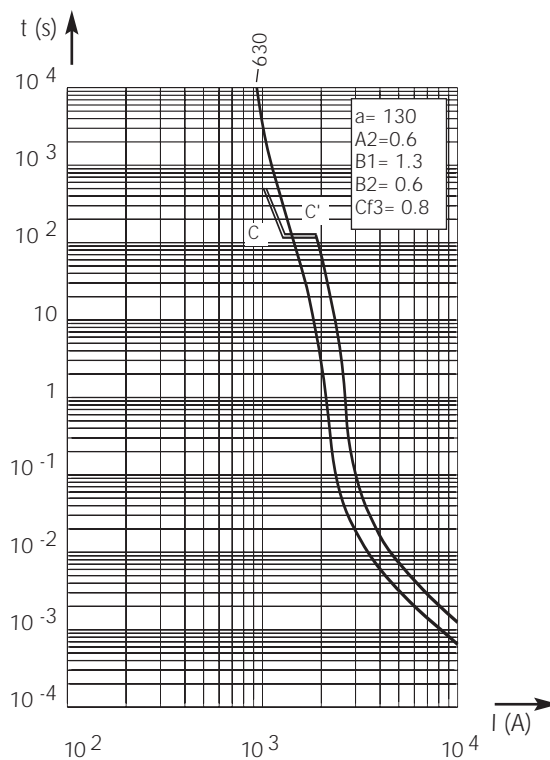
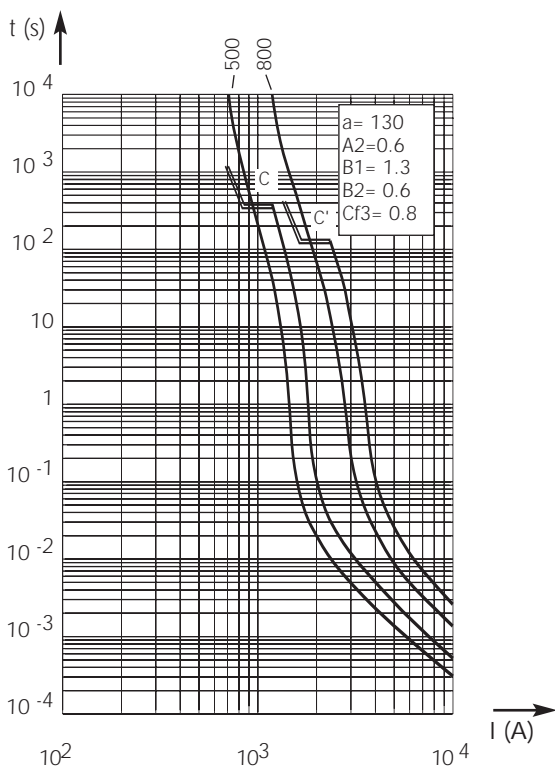
#### Peak arc voltage vs. working voltage



1 : L/R = 45 ms  
2 : L/R = 15 ms

Above: Curves indicate for various time constants L/R the peak arc voltage which may appear across fuse terminals, vs. DC working voltage

#### Time vs. current characteristics

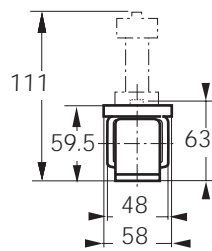
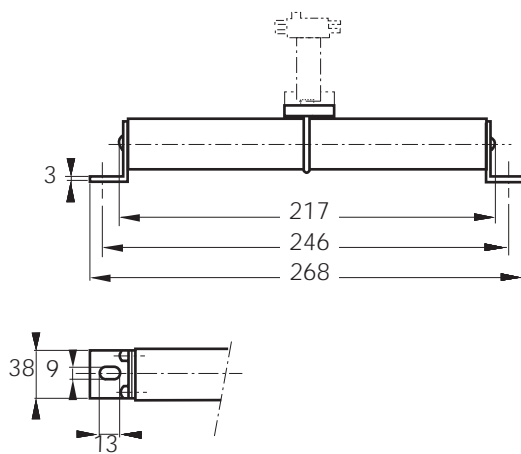


Above, left and right: Curves indicate, for each rated current, pre-arcing time vs. R.M.S. pre-arcing current.

## DC Square-body Fuses Sizes 300 - 302 - 2x302 gR Brackets size 300 - 1750 to 2000V DC

gRC-gRE from 6 to 125 A

### Dimensions



Weight: 1150 g

### Main Characteristics

Size	Current rating $I_N$ (A)	Breaking Capacity	Watts loss		Designation	Ref. Number	Catalog Number
			0.8 $I_N$ (W)	$I_N$ (W)			
300	6	@ 1750 V DC 30 kA L/R = 30 ms	3.4	6	CC 17,5 gRC 300 QF 0006	P083733	D300GC17C6QF
	8		4.4	8	CC 17,5 gRC 300 QF 0008	Q083734	D300GC17C8QF
	10		5.8	10.6	CC 17,5 gRC 300 QF 0010	M089435	D300GC17C10QF
	12		6	11	CC 17,5 gRC 300 QF 0012	R087898	D300GC17C12QF
	16		6.7	12	CC 17,5 gRC 300 QF 0016	N089436	D300GC17C16QF
	20		7.9	14	CC 20 gRC 300 QF 0020	R086932	D300GC20C20QF
	25	10	18	CC 20 gRC 300 QF 0025	S086933	D300GC20C25QF	
	32	13.5	24	CC 20 gRC 300 QF 0032	T086934	D300GC20C32QF	
	40	16	29	CC 20 gRC 300 QF 0040	V086935	D300GC20C40QF	
	50	19	34	CC 20 gRC 300 QF 0050	W086936	D300GC20C50QF	
	63	23.5	42.5	CC 20 gRC 300 QF 0063	X086937	D300GC20C63QF	
	80	28.5	51.5	CC 20 gRC 300 QF 0080	Y086938	D300GC20C80QF	
	80	@ 2000 V DC 30 kA L/R = 14 ms	22	40	CC 20 gRE 300 QF 0080	P075752	D300GE20C80QF
	100	@ 1800 V= 100 kA L/R = 20 ms	28	50	CC 20 gRE 300 QF 0100	Q075753	D300GE20C100QF
	125		30	55	CC 20 gRE 300 QF 0125	R075754	D300GE20C125QF

Microswitch: MC R 3E 1-5N Ref. Number: G310023

Pack: 1 piece



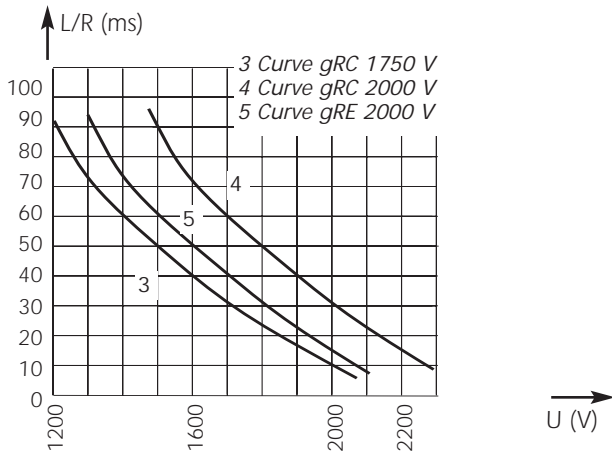
## DC Square-body Fuses

Sizes 300 - 302 - 2x302

gR Brackets size 300 - 1750 to 2000V DC

gRC-gRE from 6 to 125 A

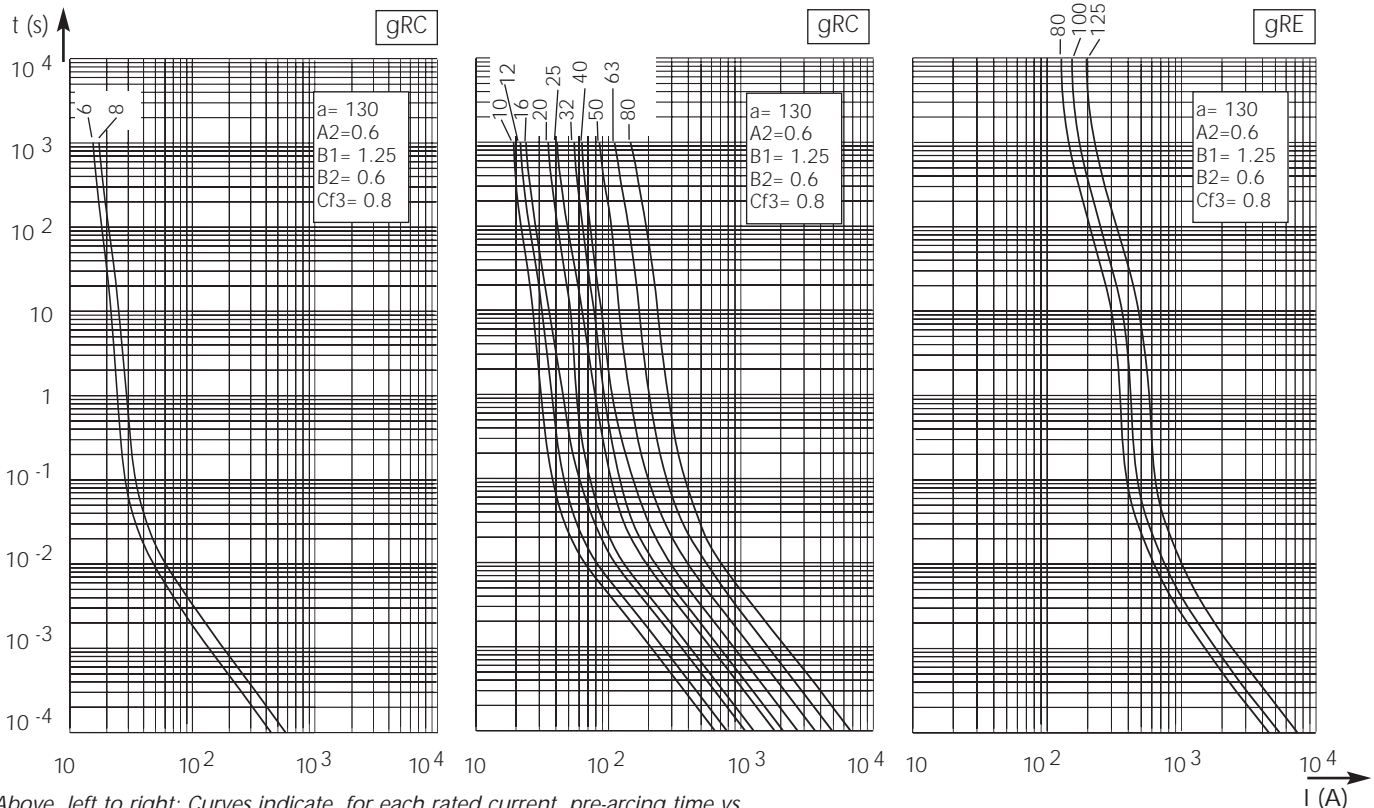
### Electrical characteristics DC applications data



Above: Curves indicate maximum permissible value of time constant L/R as a function of DC working voltage

**Max. AC voltage (50/60 Hz):**  
1,700 V with breaking capacity of 80 kA

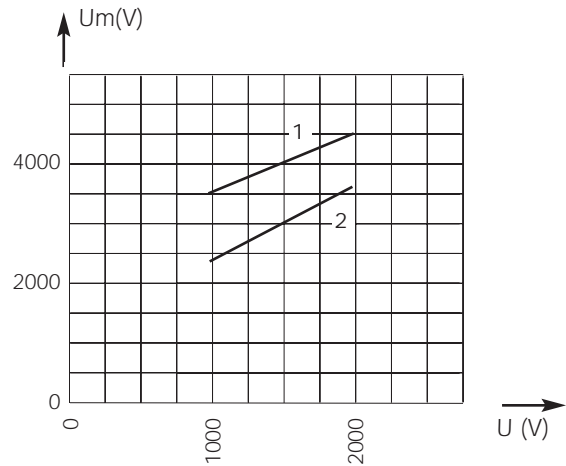
### Time vs. current characteristics



Above, left to right: Curves indicate, for each rated current, pre-arcing time vs. R.M.S. pre-arcing current

± 10% tolerance for mean pre-arcing current

### Peak arc voltage vs. working voltage



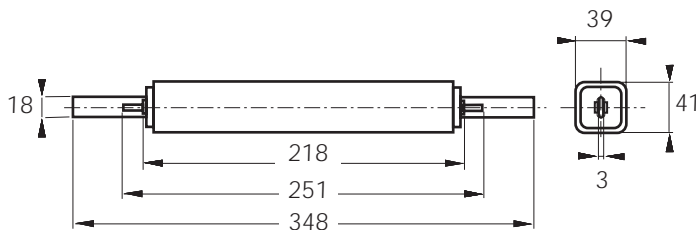
1 Curve gRC : L/R = 30 ms  
2 Curve gRE : L/R = 15 ms

Above: Curves indicate for various time constants L/R the peak arc voltage which may appear across fuse terminals, vs. DC working voltage

## DC Square-body Fuses Sizes 300 - 302 - 2x302 gR Blades size 300 - 1750 to 2000V DC

Size 300  
 gRC from 10 to 80 A

### Dimensions



Weight: 1050 g

### Main Characteristics

Size	Current rating $I_N$ (A)	Breaking Capacity	Watts loss		Designation	Ref. Number	Catalog Number
			$0.8 I_N$ (W)	$I_N$ (W)			
300	10	@ 1750 V DC	5.8	10.6	CC 17000 CV3 gRC 300PSP 10	Y088870	D 300 GC 17C 10P
	12	30 kA	6	11	CC 17000 CV3 gRC 300PSP 12	X081026	D 300 GC 17C 12P
	16	L/R = 30 ms	6.7	12	CC 17000 CV3 gRC 300PSP 16	L086996	D 300 GC 17C 16P
	20	@ 2000 V DC 30 kA L/R = 30 ms	7.9	14	CC 20000 CV3 gRC 300PSP 20	K086995	D 300 GC 20C 20P
	25		10	18	CC 20000 CV3 gRC 300PSP 25	Q081894	D 300 GC 20C 25P
	32		13.5	24	CC 20000 CV3 gRC 300PSP 32	J086994	D 300 GC 20C 32P
	40		16	29	CC 20000 CV3 gRC 300PSP 40	M086997	D 300 GC 20C 40P
	50		19	34	CC 20000 CV3 gRC 300PSP 50	G086992	D 300 GC 20C 50P
	63		23.5	42.5	CC 20000 CV3 gRC 300PSP 63	F086991	D 300 GC 20C 63P
	80		28.5	51.5	CC 20000 CV3 gRC 300PSP 80	E086990	D 300 GC 20C 80P

Pack: 1 piece

Microswitch MC 2R 3E 1-5N BS Reference number: J310025

# Protistor DC fuses



## DC Square-body Fuses

Sizes 300 - 302 - 2x302

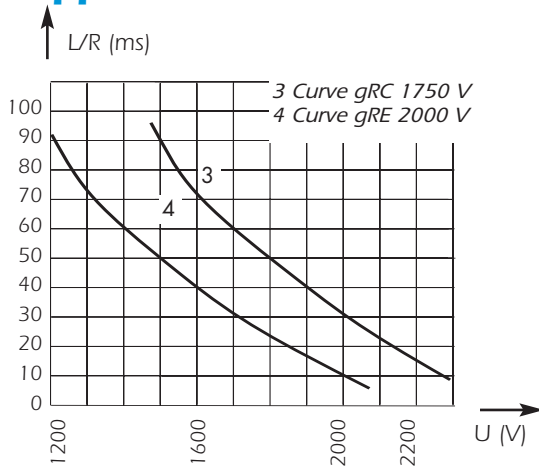
gR Blades size 300 - 1750 to 2000V DC

### Size 300

gRC-gRE from 200 to 560 A

### Electrical characteristics

#### DC applications data

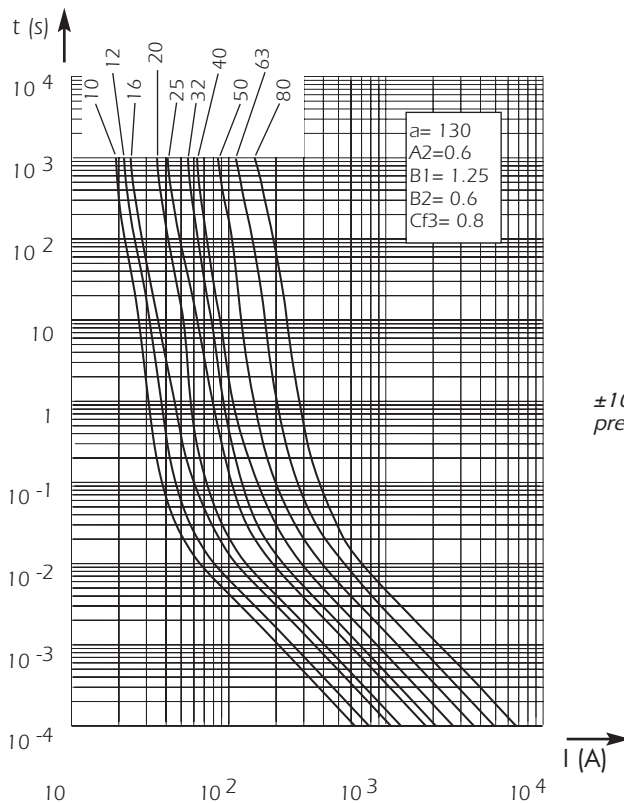


Above: Curves indicate maximum permissible value of time constant  $L/R$  as a function of DC working voltage

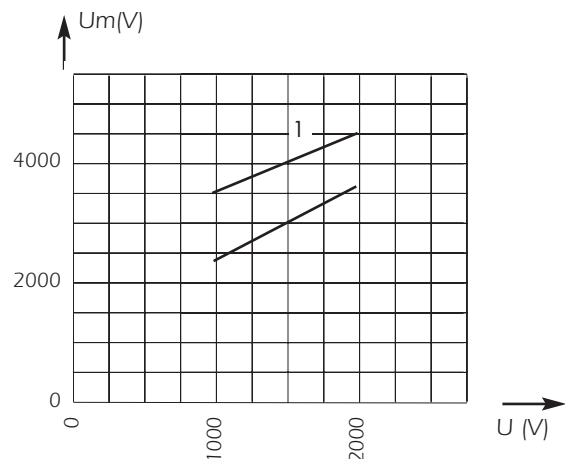
#### Max. AC voltage (50/60 Hz):

1700 V with breaking capacity of 80 kA

#### Time vs. current characteristics



#### Peak arc voltage vs. working voltage



1 Curve gRC :  $L/R = 30$  ms

Above: Curves indicate for various time constants  $L/R$  the peak arc voltage which may appear across the fuse terminals, vs. DC working voltage

$\pm 10\%$  tolerance for mean pre-arcing current

Above, left and right: Curves indicate, for each rated current, pre-arcing time vs. R.M.S. pre-arcing current

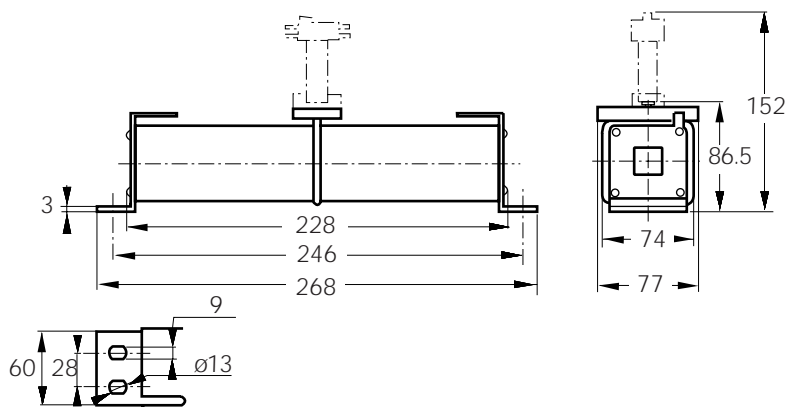


# Protistor DC fuses

## DC Square-body Fuses Sizes 300 - 302 - 2x302 gR Brackets size 302 - 2000V DC

gRC-gRE from 100 to 280 A

### Dimensions



Weight: 2200 g



### Main Characteristics

Size	Current rating $I_N$ (A)	Breaking Capacity	Watts loss		Designation	Ref. Number	Catalog Number
			$0.8 I_N$ (W)	$I_N$ (W)			
	100	@ 2000 V DC	30	58.5	CC 20 gRC 302 QF 0100	N086929	D302GC20C100QF
	125	30 kA	37	72	CC 20 gRC 302 QF 0125	P086930	D302GC20C125QF
	160	L/R = 30 ms	47.5	93	CC 20 gRC 302 QF 0160	Q086931	D302GC20C160QF
302	160	@ 2000 V DC	42	70	CC 20 gRE 302 QF 0160	S075755	D302GE20C160QF
	200	30 kA	48	80	CC 20 gRE 302 QF 0200	T075756	D302GE20C200QF
	250	L/R = 14 ms	57	95	CC 20 gRE 302 QF 0250	V075757	D302GE20C250QF
	280	@ 1800 V DC	60	100	CC 20 gRE 302 QF 0280	W075758	D302GE20C280QF
		100 kA					
		L/R = 20 ms					

Microswitch MC 2R 3E 1-5N BS Reference number: J310025

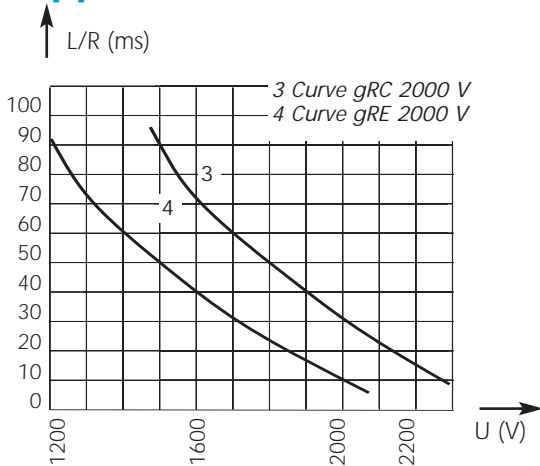
# Protistor DC fuses

DC Square-body Fuses  
 Sizes 300 - 302 - 2x302  
 gR Brackets size 302 - 2000V DC

gRC-gRE from 100 to 280 A

## Electrical characteristics

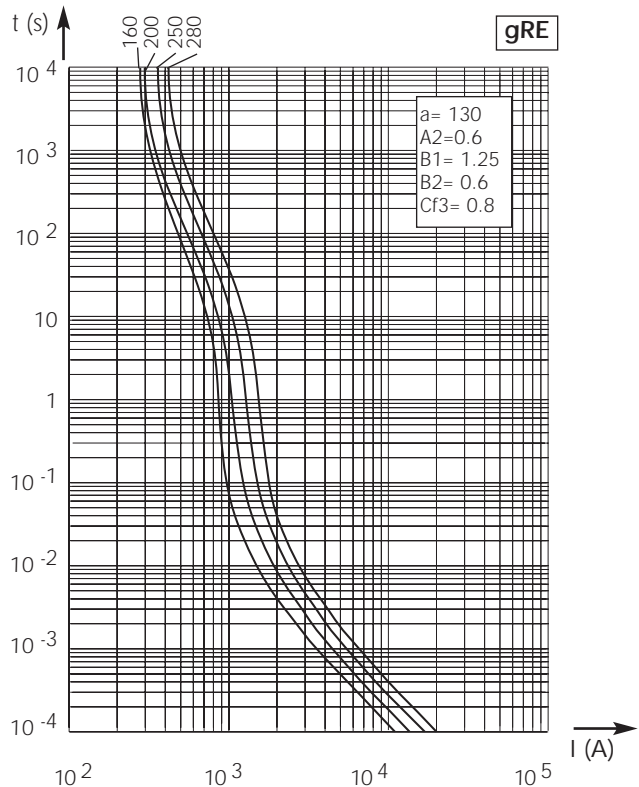
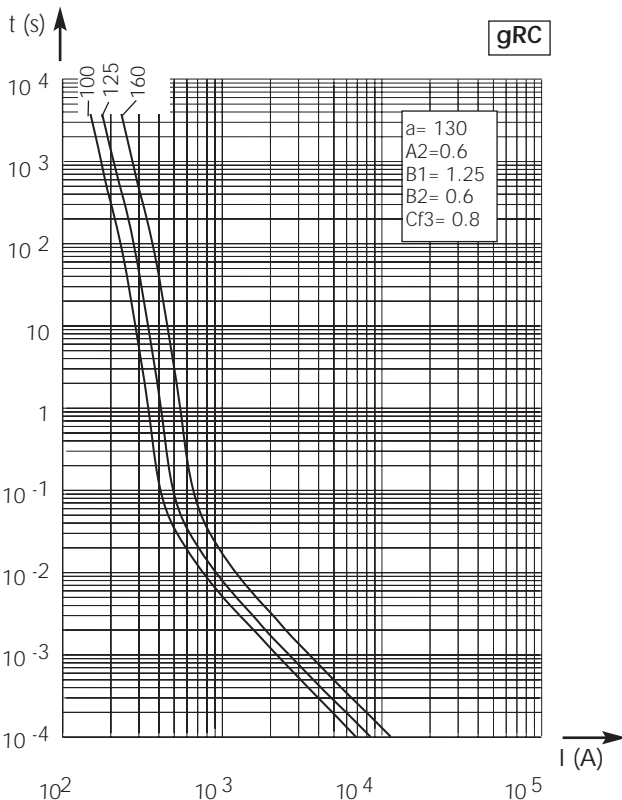
### DC applications data



Above: Curves indicate maximum permissible value of time constant  $L/R$  as a function of DC working voltage

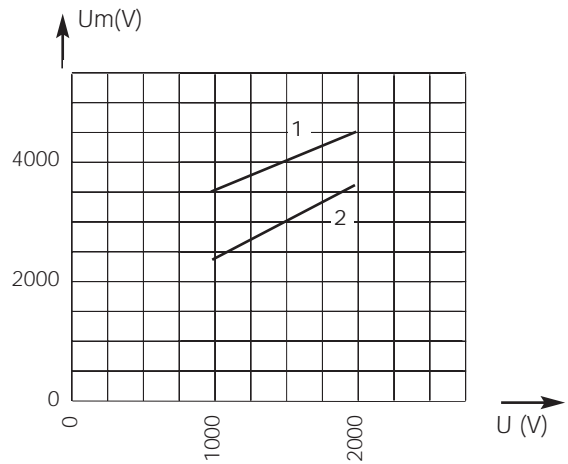
Max. AC voltage (50/60 Hz):  
 1700 V with breaking capacity of 80 kA

### Time vs. current characteristics



$\pm 10\%$  tolerance for mean pre-arcing current

### Peak arc voltage vs. working voltage



1 Curve gRC :  $L/R = 30$  ms  
 2 Curve gRE :  $L/R = 15$  ms

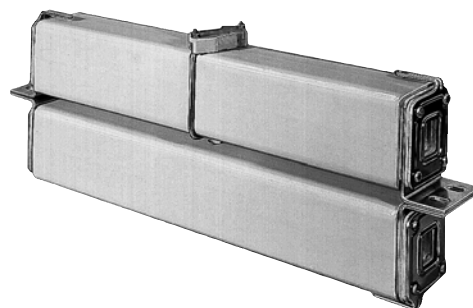
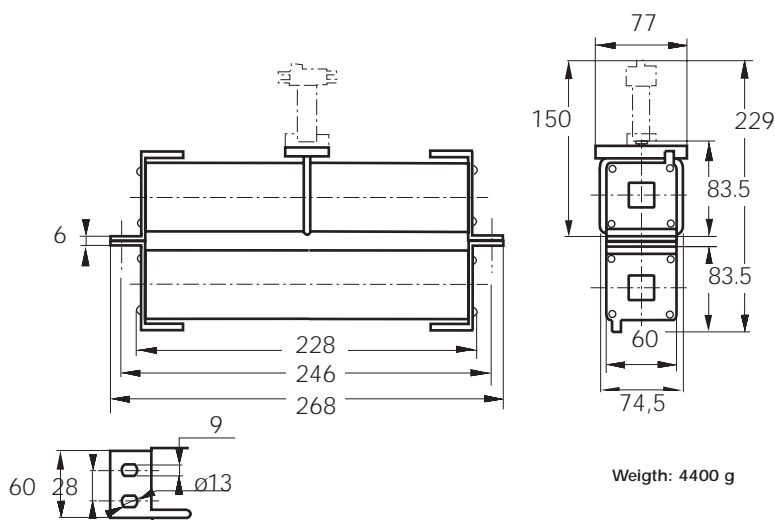
Above: Curves indicate for various time constants  $L/R$  the peak arc voltage which may appear across the fuse terminals, vs. DC working voltage

# Protistor DC fuses

## DC Square-body Fuses Sizes 300 - 302 - 2x302 gR Blades size 2x302 - 2000V DC

gRC-gRE from 200 to 560 A

### Dimensions



### Main Characteristics

Size	Current rating $I_N$ (A)	Breaking Capacity	Watts loss		Designation	Ref. Number	Catalog Number
			0.8 $I_N$ (W)	$I_N$ (W)			
2x302	200	@ 2000 V DC 30 kA	60	117	CC 20 gRC 2302 QF 200	B079903	D2302GC20C200QF
	250	L/R = 30 ms	74	144	CC 20 gRC 2302 QF 250	C079904	D2302GC20C250QF
	315	@ 2000 V DC 30 kA	84	140	CC 20 gRE 2302 QF 315	X075759	D2302GE20C315QF
	400	L/R = 14 ms	96	160	CC 20 gRE 2302 QF 400	Y075760	D2302GE20C400QF
	500		115	190	CC 20 gRE 2302 QF 500	Z075761	D2302GE20C500QF
	560	@ 1800 V DC 100 kA L/R = 20 ms	120	200	CC 20 gRE 2302 QF 560	A075762	D2302GE20C560QF

Pack: 1 piece

Microswitch MC 2R 3E 1-5N BS Reference number: J310025

# Protistor DC fuses

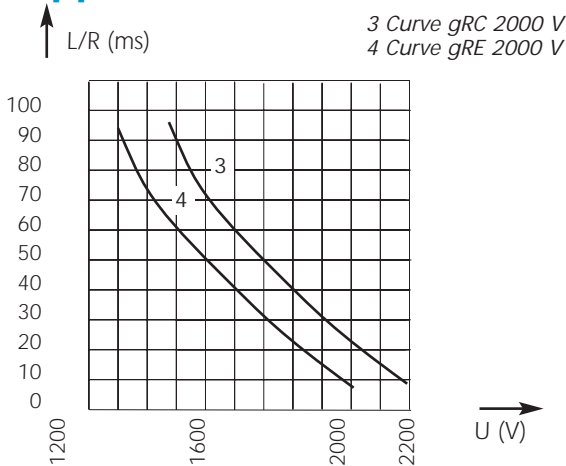
DC Square-body Fuses  
 Sizes 300 - 302 - 2x302  
 gR Blades size 2x302 - 2000V DC



gRC-gRE from 200 to 560 A

## Electrical characteristics

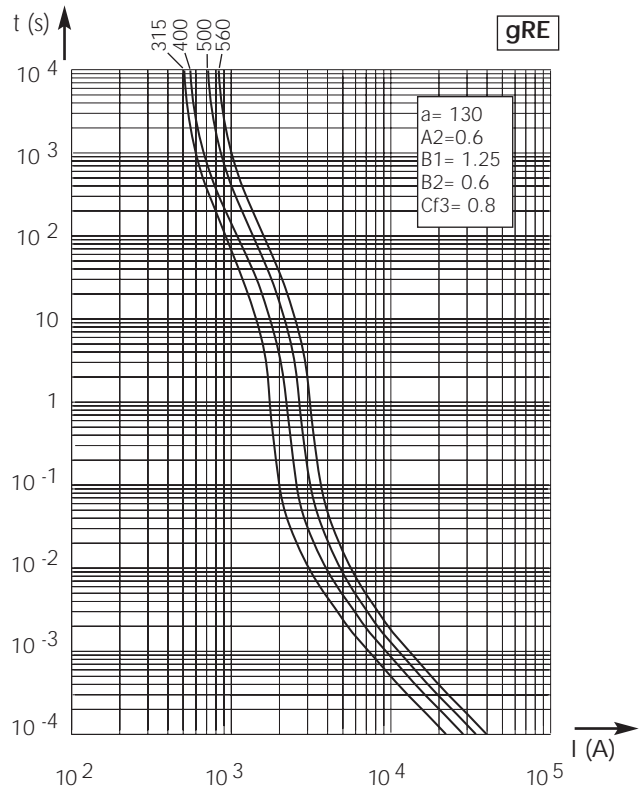
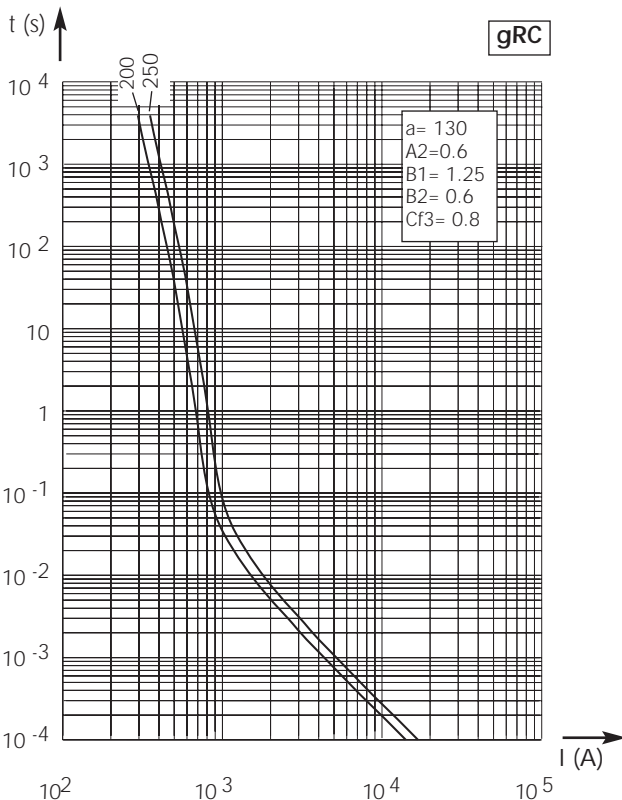
### DC applications data



Above: Curves indicate maximum permissible value of time constant  $L/R$  as a function of DC working voltage

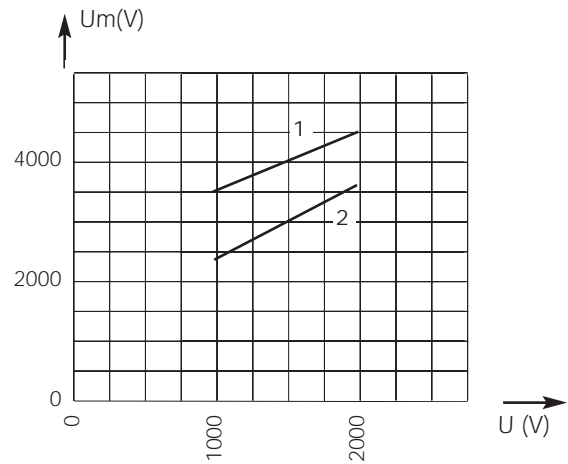
Max. AC voltage (50/60 Hz):  
 1700 V with breaking capacity of 80 kA

### Time vs. current characteristics



$\pm 10\%$  tolerance for mean pre-arcing current

### Peak arc voltage vs. working voltage



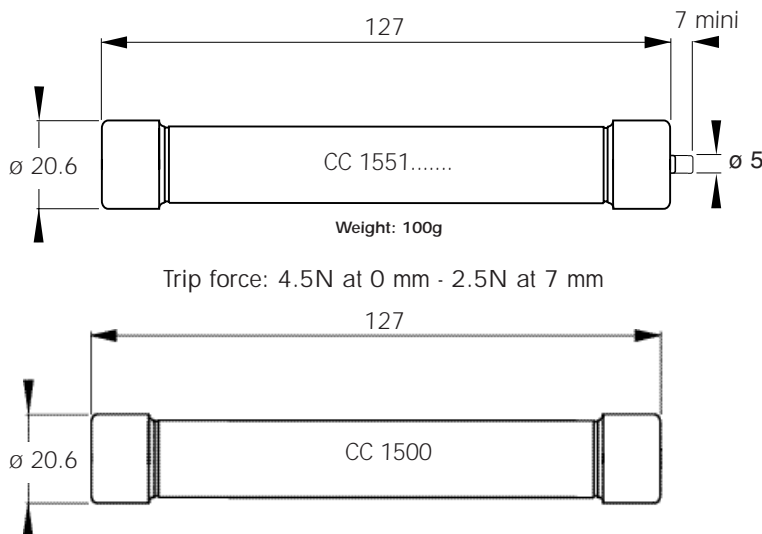
1 Curve gRC :  $L/R = 30$  ms  
 2 Curve gRE :  $L/R = 15$  ms

Above: Curves indicate for various time constants  $L/R$  the peak arc voltage which may appear across the fuse terminals, vs. DC working voltage

## DC Ferrule Fuses 20x127 gR 1500V DC

gRB - gRD from 0.8 to 25 A

### Dimensions



### Main Characteristics

Size	Current rating $I_N$ (A)	Breaking Capacity	Watts loss		Designation	Ref. Number	Catalog Number
			0.8 $I_N$ (W)	$I_N$ (W)			
20x127	0.8	@ 1000 V DC	0.5	0.9	CC 1551 CP gRB 20x127/0.8 D 150 gRB 0.8 VI <sup>(1)</sup>	E075743	FD20GB150V0,8T
	1		0.5	0.9	CC 1551 CP gRB 20x127/1 D 150 gRB 001 VI <sup>(1)</sup>	F075744	FD20GB150V1T
	1.5		0.8	1.4	CC 1551 CP gRB 20x127/1.5 D 150 gRB 01.5 VI <sup>(1)</sup>	G075745	FD20GB150V1,5T
	2		0.9	1.6	CC 1551 CP gRB 20x127/2 D 150 gRB 002 VI <sup>(1)</sup>	B088367	FD20GB150V2T
	3.15		1.2	2.1	CC 1551 CP gRB 20x127/3.15 D 150 gRB 3.15VI <sup>(1)</sup>	H075746	FD20GB150V3,15T
	4	1.3	2.1	CC 1551 CP gRB 20x127/4 D 150 gRB 004 VI <sup>(1)</sup>	J075747	FD20GB150V4T	
	5	1.4	2.3	CC 1551 CP gRB 20x127/5 D 150 gRB 005 VI <sup>(1)</sup>	C088368	FD20GB150V5T	
	0.8	@ 1500 V DC	0.5	0.9	CC 1500 CP gRB 20x127/0.8 D 150 gRB 0.8 V	J081842	FD20GB150V0,8
	1		0.5	0.9	CC 1500 CP gRB 20x127/1 D 150 gRB 001 V	R079894	FD20GB150V1
	1.5		0.8	1.4	CC 1500CP gRB 20x127/1.5 D 150 gRB 01.5 V	K081843	FD20GB150V1,5
	2		0.9	1.6	CC 1500 CP gRB 20x127/2 D 150 gRB 002 V	Y099243	FD20GB150V2
	3.15		1.2	2.1	CC 1500 CP gRB 20x127/3.15 D 150 gRB 3.15 V	L081844	FD20GB150V3,15
	4	1.3	2.1	CC 1500CP gRB 20x127/4 D 150 gRB 004 V	Z099244	FD20GB150V4	
	5	1.4	2.3	CC 1500 CP gRB 20x127/5 D 150 gRB 005 V	A099245	FD20GB150V5	
	6	@ 1500 V DC	3.4	6.3	CC 1500 CP gRD 20x127/6 D 150 gRD 006 V	E082804	FD20GD150V6
8	3.3		6.0	CC 1500 CP gRD 20x127/8 D 150 gRD 008 V	Z080867	FD20GD150V8	
10	3.5		6.1	CC 1500 CP gRD 20x127/10 D 150 gRD 010 V	F081655	FD20GD150V10	
12	3.9		6.8	CC 1500 CP gRD 20x127/12 D 150 gRD 012 V	B080593	FD20GD150V12	
16	5		8.9	CC 1500 CP gRD 20x127/16 D 150 gRD 016 V	Q081457	FD20GD150V16	
20	5.3	9.6	CC 1500 CP gRD 20x127/20 D 150 gRD 020 V	D082803	FD20GD150V20		
25	6.6	12	CC 1500 CP gRD 20x127/25 D 150 gRD 025 V	A080431	FD20GD150V25		

Minimum trip indicator operating voltage: 50 V

(1) Rating 0,8 to 5A with trip indicator arc. UL Recognized

See Fuse Blocks, Fuse Holders and Fuse clips

Pack: 3 and 10 pieces

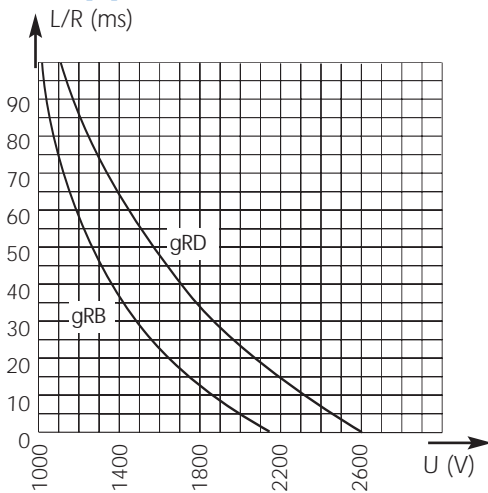


## DC Ferrule Fuses 20x127 gR 1500V DC



gRB - gRD from 0.8 to 25 A

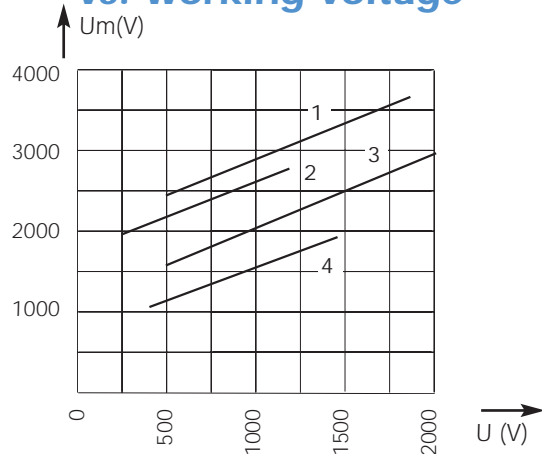
### Electrical characteristics DC applications data



Above: Curves indicate maximum permissible value of time constant  $L/R$  as a function of DC working voltage

**Max. AC voltage (50/60 Hz):**  
2500 V with breaking capacity of 50 kA

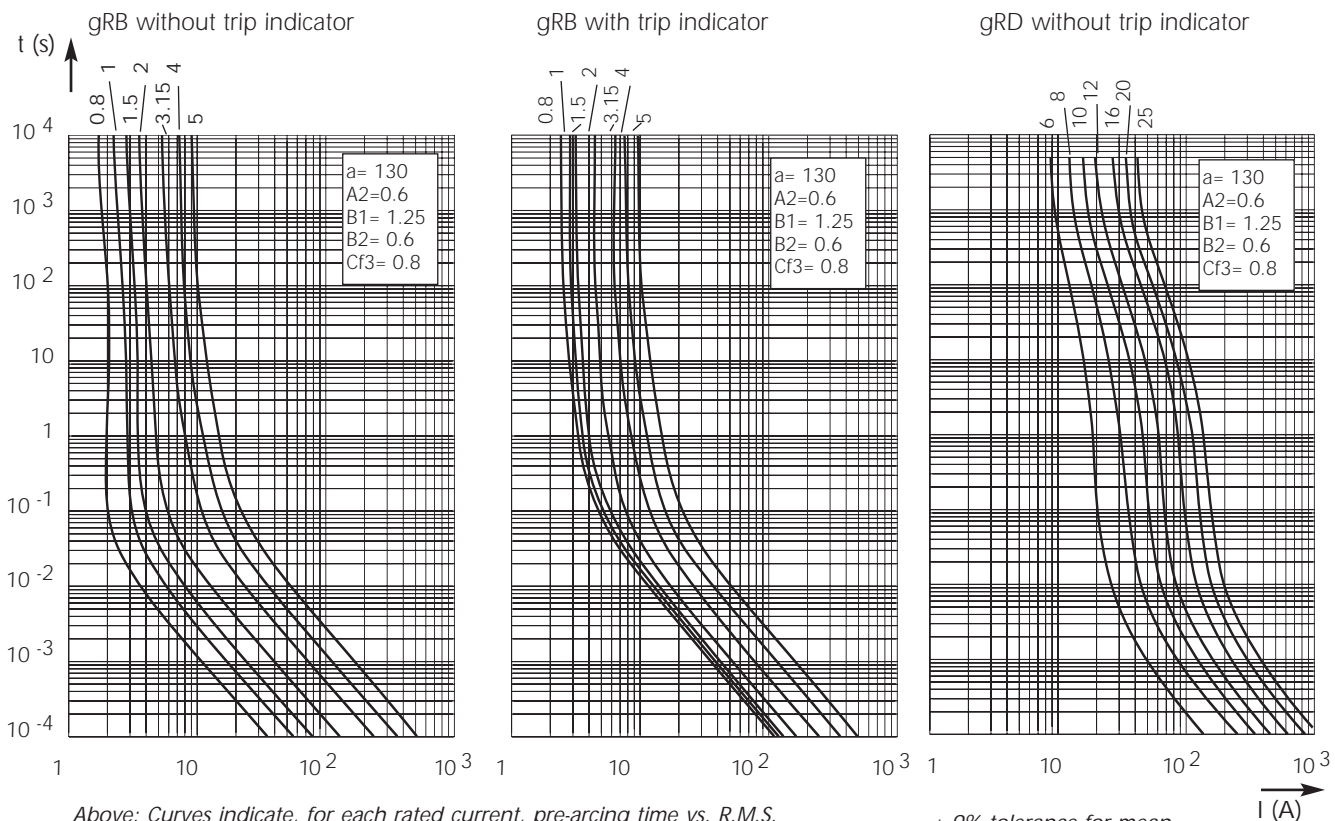
### Peak arc voltage vs. working voltage



Curve 1: gRD @  $L/R = 30$  ms  
Curve 2: gRB @  $L/R = 60$  ms  
Curve 3: gRD @  $L/R = 15$  ms  
Curve 4: gRB @  $L/R = 30$  ms

Above: Curves indicate for various time constants  $L/R$  peak arc voltage which may appear across the fuse terminals, vs. DC working voltage

### Time vs. current characteristics



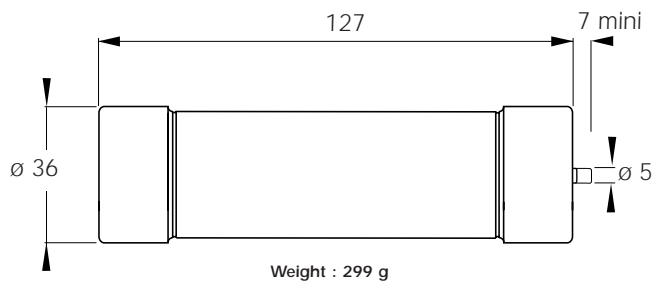
Above: Curves indicate, for each rated current, pre-arcing time vs. R.M.S. pre-arcing current.

$\pm 9\%$  tolerance for mean pre-arcing current

## DC Ferrule Fuses 36x127 gR 1000V DC

1000 V DC  
gRB-gRC from 25 to 100 A  
Size 36x127

### Dimensions



Trip force: 4.5N at 0 mm - 2.5N at 7 mm



### Main Characteristics

Size	Current rating $I_N$ (A)	Breaking Capacity	Watts loss		Designation	Reference Number	Catalog Number
			0.8 $I_N$ (W)	$I_N$ (W)			
36x127	25	1000 V	5.3	9.4	CC 1051 CP gRB 36x127/25	H 083980	FD36GB100V25T
	32	100 kA	6.4	11.5	CC 1051 CP gRB 36x127/32	R 086495	FD36GB100V32T
	40	20 ms	6.5	11.6	CC 1051 CP gRB 36x127/40	G 089499	FD36GB100V40T
	50		8.7	15.4	CC 1051 CP gRB 36x127/50	H 089500	FD36GB100V50T
	63	1000 V	10.5	18.8	CC 1051 CP gRC 36x127/63	J 089501	FD36GC100V63T
	80	100 kA	11.9	21.5	CC 1051 CP gRC 36x127/80	A 083651	FD36GC100V80T
	100	20 ms	13.2	24.1	CC 1051 CP gRC 36x127/100	Z 083650	FD36GC100V100T

Minimum trip indicator operating voltage: 50 V

See Fuse Blocks, Fuse Holders and Fuse clips

Pack: 3 pieces



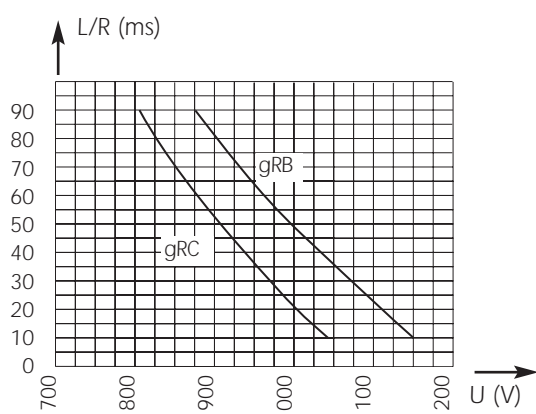
## DC Ferrule Fuses 36x127 gR 1000V DC



gRB-gRC from 25 to 100 A

### Electrical characteristics

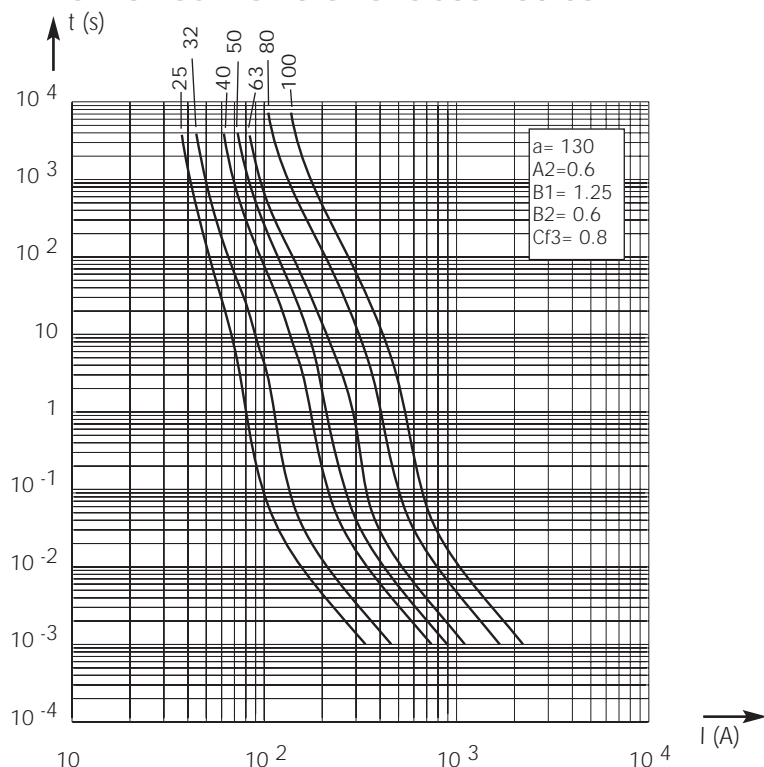
#### DC applications data



Above: Curves indicate maximum permissible value of time constant L/R as a function of DC working voltage

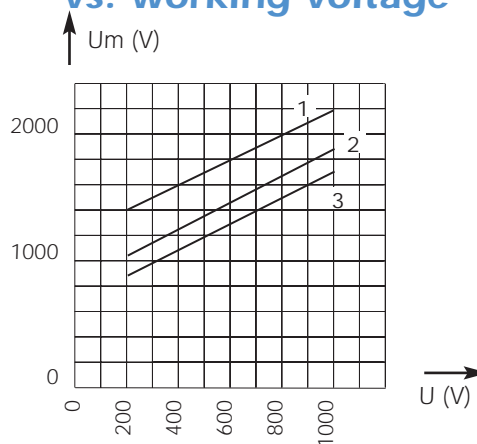
**Max. AC voltage (50/60 Hz):**  
1500 V with breaking capacity of 100 kA

#### Time vs. current characteristics



Above: Curves indicate, for each rated current, pre-arcing time vs. R.M.S. pre-arcing current.

#### Peak arc voltage vs. working voltage



- 1- L/R = 50 ms
- 2- L/R = 25 ms
- 3- L/R = 15 ms

Above: Curves indicate for various time constants L/R the peak arc voltage which may appear across fuse terminals, vs. DC working voltage

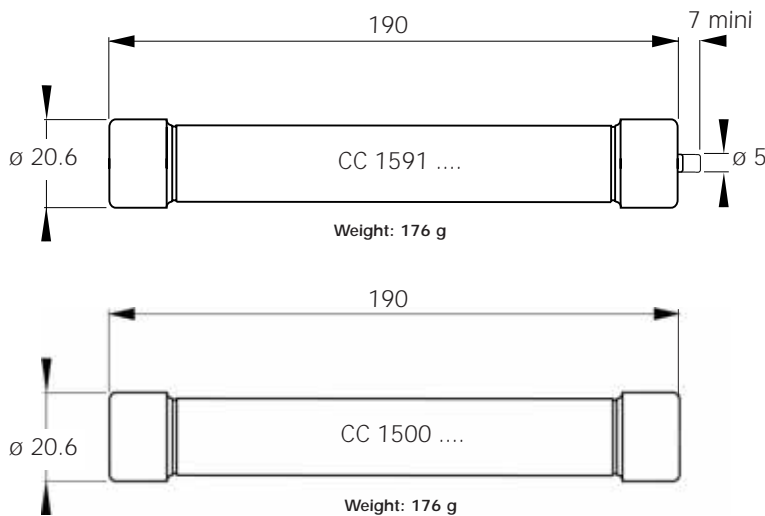
±7% tolerance for mean pre-arcing current



## DC Ferrule Fuses 20x190 gR 1500V DC

gRC from 6 to 32 A

### Dimensions



Trip force: 4.5N at 0 mm - 2.5N at 7 mm

### Main Characteristics

Size	Current rating $I_N$ (A)	Breaking Capacity	Watts loss		Designation	Reference Number	Catalog Number
			0.8 $I_N$ (W)	$I_N$ (W)			
20x190	6	@ 1500 V DC 60 kA L/R = 40 ms	4.8	7.8	CC 1591 CP gRC 20x190/6	D083102	FD20GC150V6T
	8		5.3	8.8	CC 1591 CP gRC 20x190/8	V083738	FD20GC150V8T
	10		6.5	10.5	CC 1591 CP gRC 20x190/10	G087245	FD20GC150V10T
	12		7.0	11.5	CC 1591 CP gRC 20x190/12	Y080429	FD20GC150V12T
	16		8.0	13	CC 1591 CP gRC 20x190/16	N088378	FD20GC150V16T
	20		9.5	15	CC 1591 CP gRC 20x190/20	Q087345	FD20GC150V20T
	25		12	19.5	CC 1591 CP gRC 20x190/25	Z080430	FD20GC150V25T
	32		16	26	CC 1591 CP gRC 20x190/32	G085911	FD20GC150V32T
	6		4.8	7.8	CC 1500 CP gRC 20x190/6	Z089469	FD20GC150V6
	8		5.3	8.8	CC 1500 CP gRC 20x190/8	A089470	FD20GC150V8
	10		6.5	10.5	CC 1500 CP gRC 20x190/10	B089471	FD20GC150V10
	12		7.0	11.5	CC 1500 CP gRC 20x190/12	C089472	FD20GC150V12
	16		8.0	13	CC 1500 CP gRC 20x190/16	D089473	FD20GC150V16
	20		9.5	15	CC 1500 CP gRC 20x190/20	E089474	FD20GC150V20
	25		12	19.5	CC 1500 CP gRC 20x190/25	F089475	FD20GC150V25
	32		16	26	CC 1500 CP gRC 20x190/32	G089476	FD20GC150V32

Minimum trip indicator operating voltage: 90 V

See Fuse Blocks, Fuse Holders and Fuse clips

Pack: 1 piece



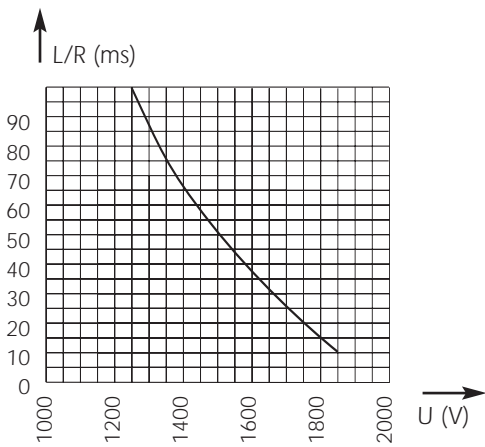
## DC Ferrule Fuses 20x190 gR 1500V DC



gRC from 6 to 32 A

### Electrical characteristics

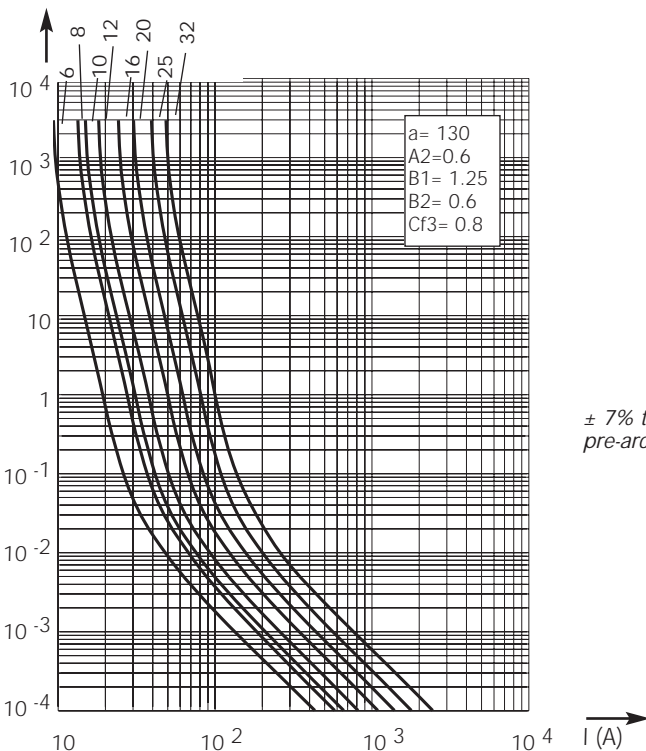
#### DC applications data



Above: Curve indicates maximum permissible value of time constant L/R as a function of DC working voltage

Max. AC voltage (50/60 Hz):  
3000 V with breaking capacity of 50 kA

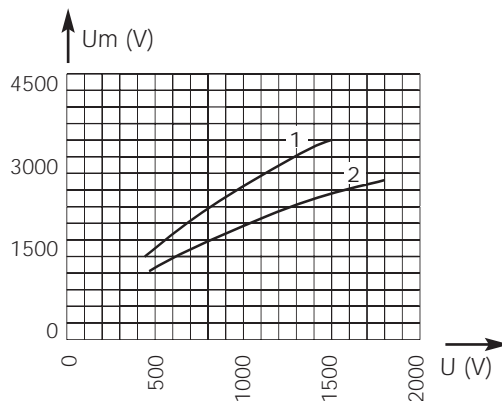
#### Time vs. current characteristics



± 7% tolerance for mean pre-arcing current

Above: Curves indicate, for each rated current, pre-arcing time vs. R.M.S. pre-arcing current.

#### Peak arc voltage vs. working voltage



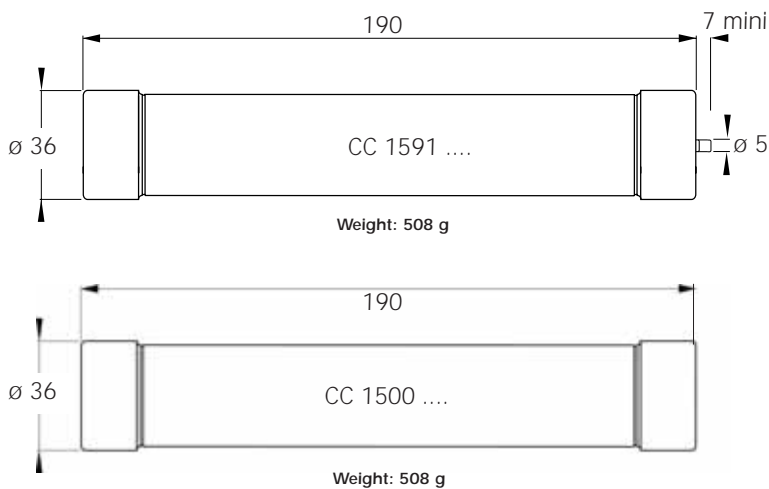
1- L/R = 45 ms  
2- L/R = 15 ms

Above: Curves indicate for various time constants L/R peak arc voltage which may appear across fuse terminals, vs. DC working voltage

## DC Ferrule Fuses 36x190 gR 1500V DC

gRC - gRD from 40 to 100 A

### Dimensions



Trip force: 4.5N at 0 mm - 2.5N at 7 mm

### Main Characteristics

Size	Current rating $I_N$ (A)	Breaking Capacity	Watts loss		Designation	Reference Number	Catalog Number
			0.8 $I_N$ (W)	$I_N$ (W)			
36x190	40	@ 1500 V DC 60 kA L/R = 60 ms	14	26	CC 1591 CP gRC 36x190/40	M 080419	FD36GC150V40T
	50		16.5	30	CC 1591 CP gRC 36x190/50	N 080420	FD36GC150V50T
	63		20.6	38	CC 1591 CP gRC 36x190/63	P 080421	FD36GC150V63T
	80		18	33	CC 1591 CP gRD 36x190/80	N 221134	FD36GD150V80T
	100		23	42	CC 1591 CP gRD 36x190/100	Y 220154	FD36GD150V100T
	40	@ 1500 V DC 100 kA L/R = 30 ms	14	26	CC 1500 CP gRC 36x190/40	H 089477	FD36GC150V40
	50		16.5	30	CC 1500 CP gRC 36x190/50	J 089478	FD36GC150V50
	63		20.6	38	CC 1500 CP gRC 36x190/63	K 089479	FD36GC150V63
	80		18	33	CC 1500 CP gRD 36x190/80	Q 078007	FD36GD150V80
	100		23	42	CC 1500 CP gRD 36x190/100	K 078025	FD36GD150V100

Minimum trip indicator operating voltage: 90 V

See Fuse Blocks, Fuse Holders and Fuse clips

Pack: 1 piece



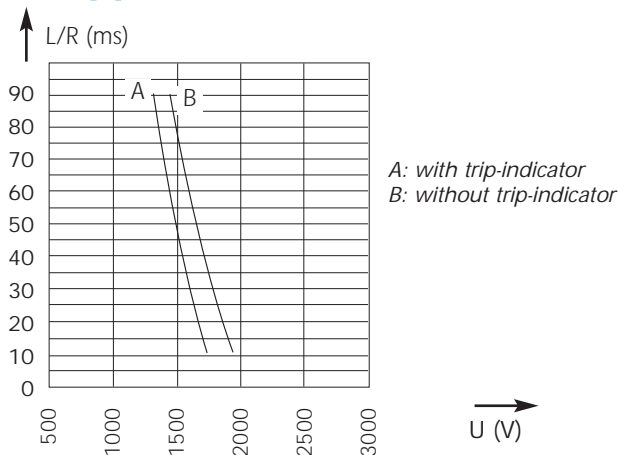
## DC Ferrule Fuses 36x190 gR 1500V DC



gRC - gRD from 40 to 100 A

### Electrical characteristics

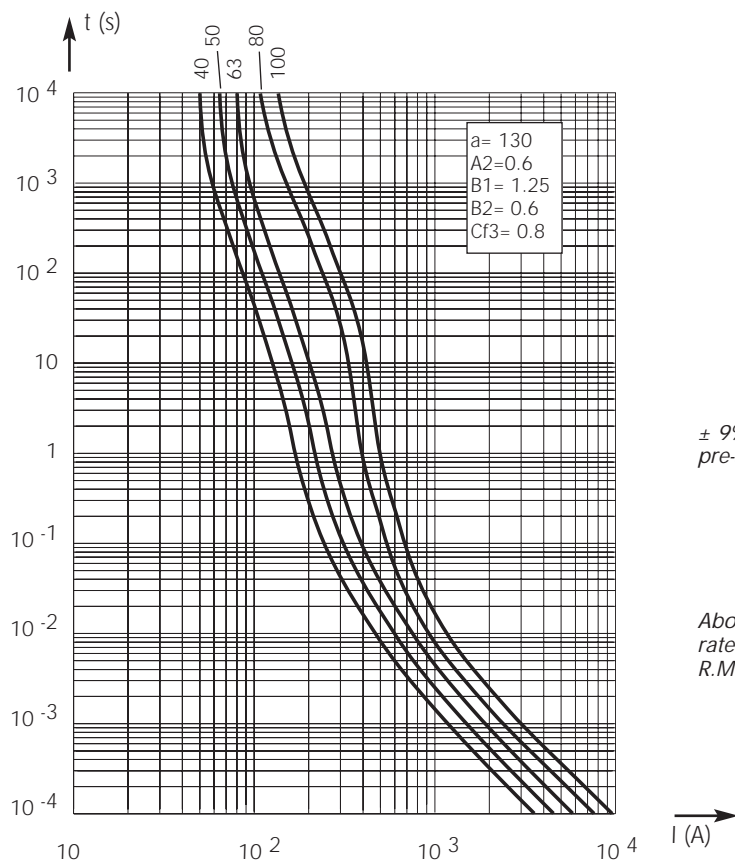
#### DC applications data



Above: Curve indicates maximum permissible value of time constant  $L/R$  as a function of DC working voltage

**Max. AC voltage (50/60 Hz):**  
3000 V with breaking capacity of 50 kA

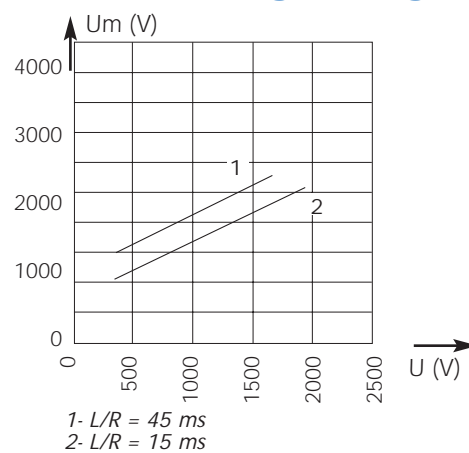
#### Time vs. current characteristics



$\pm 9\%$  tolerance for mean pre-arcing current

Above: Curves indicate, for each rated current, pre-arcing time vs. R.M.S. pre-arcing current.

#### Peak arc voltage vs. working voltage

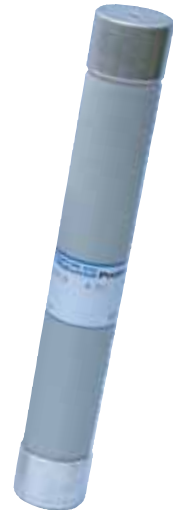
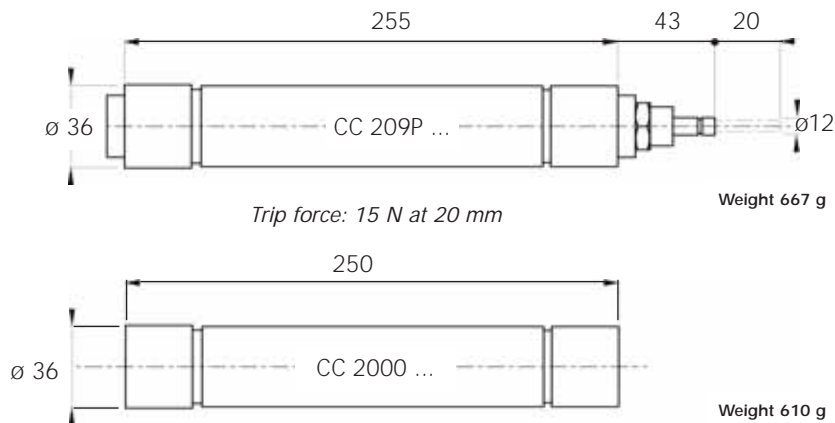


Above: Curves indicate for various time constants  $L/R$  the peak arc voltage which may appear across fuse terminals, vs. DC working voltage

## DC Ferrule Fuses 36x250 gR 2000V DC

gRB from 0.8 to 40 A

### Dimensions



### Main Characteristics

Size	Current rating $I_N$ (A)	Breaking Capacity	Watts loss		Designation	Reference Number	Catalog Number
			0.8 $I_N$ (W)	$I_N$ (W)			
36x250	0.8	@ 2000 V DC 30 kA L/R = 20 ms	1	1.8	CC 2000 CP gRB 36x250/0.8	P 221135	FD36GB200V0,8
	1		1.1	2	CC 2000 CP gRB 36x250/1	R 093096	FD36GB200V1
	1.5		1.8	3	CC 2000 CP gRB 36x250/1.5	S 093097	FD36GB200V1,5
	2		2	3.3	CC 2000 CP gRB 36x250/2	T 093098	FD36GB200V2
	3.15		2.8	5	CC 2000 CP gRB 36x250/3.15	V 093099	FD36GB200V3,15
	4		4	7	CC 2000 CP gRB 36x250/4	N 084951	FD36GB200V4
	5		5	8.8	CC 2000 CP gRB 36x250/5	Q 221136	FD36GB200V5
	6		5.3	9	CC 2000 CP gRB 36x250/6	S 084955	FD36GB200V6
	8		6	10	CC 2000 CP gRB 36x250/8	V 090339	FD36GB200V8
	10		7	12	CC 2000 CP gRB 36x250/10	H 093157	FD36GB200V10
	12		7.6	13	CC 2000 CP gRB 36x250/12	W 093100	FD36GB200V12
	16		10.5	18	CC 2000 CP gRB 36x250/16	X 093101	FD36GB200V16
	20		10	17.5	CC 2000 CP gRB 36x250/20	H 086257	FD36GB200V20
	25		12	21	CC 2000 CP gRB 36x250/25	Y 081441	FD36GB200V25
	32		15.2	26	CC 2000 CP gRB 36x250/32	X 081440	FD36GB200V32
	40		19.6	33.6	CC 2000 CP gRB 36x250/40	W 081439	FD36GB200V40
	10		7.0	12	CC 209P CP gRB 36x250/10	L 084949	FD36GB200V10K
	12		7.6	13	CC 209P CP gRB 36x250/12	M 098497	FD36GB200V12K
	20		10	17.5	CC 209P CP gRB 36x250/20	M 084950	FD36GB200V20K
	25		12	21	CC 209P CP gRB 36x250/25	R 087461	FD36GB200V25K
32	15.2	26	CC 209P CP gRB 36x250/32	L 081131	FD36GB200V32K		
40	19.6	33.6	CC 209P CP gRB 36x250/40	W 087373	FD36GB200V40K		

Minimum trip indicator operating voltage: 90 V  
See Fuse Blocks, Fuse Holders and Fuse clips

Pack: 1 piece