



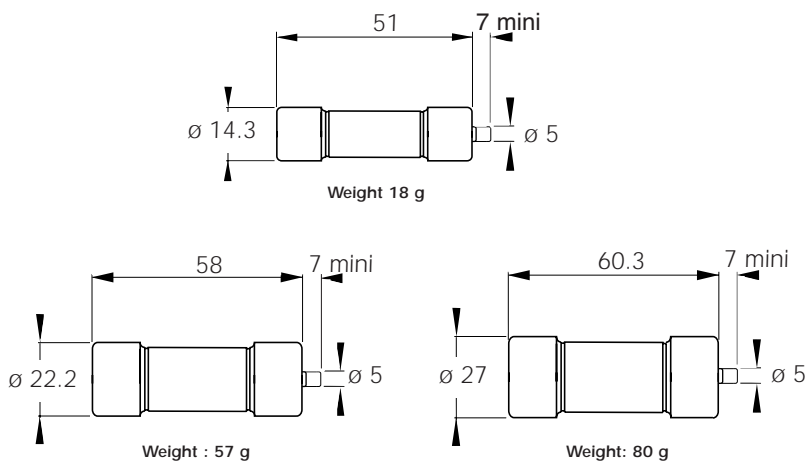
# Protistor DC fuses



## DC Ferrule Fuses 14x51, 22x58, 27x60 gLB 440V DC

gLB from 2 to 160 A

### Dimensions



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

### 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)			
14x51	2	@ 440 V DC 100 kA L/R = 30 ms	0.29	0.5	CC 4.421 CP gLB 14x51/2	E075720	FD14GB44V2T
	6		0.74	1.3	CC 4.421 CP gLB 14x51/6	Q094084	FD14GB44V6T
	8		1.1	1.8	CC 4.421 CP gLB 14x51/8	F075721	FD14GB44V8T
	10		1.1	1.9	CC 4.421 CP gLB 14x51/10	G075722	FD14GB44V10T
	12		1.2	2.0	CC 4.421 CP gLB 14x51/12	R094085	FD14GB44V12T
	16		1.2	2.1	CC 4.421 CP gLB 14x51/16	H075723	FD14GB44V16T
	20		1.4	2.5	CC 4.421 CP gLB 14x51/20	L221132	FD14GB44V20T
	25		1.6	2.8	CC 4.421 CP gLB 14x51/25	J075724	FD14GB44V25T
	32		2.4	4.2	CC 4.421 CP gLB 14x51/32	S098410	FD14GB44V32T
	40		2.9	5.0	CC 4.421 CP gLB 14x51/40	T098687	FD14GB44V40T
22x58	50	@ 440 V DC 100 kA L/R = 30 ms	3.3	5.7	CC 4.421 CP gLB 14x51/50	H076620	FD14GB44V50T
	50		3.9	6.7	CC 4.421 CP gLB 22x58/50	L076968	FD22GB44V50T
	63		4.9	8.5	CC 4.421 CP gLB 22x58/63	M221133	FD22GB44V63T
	80		6.2	10.8	CC 4.421 CP gLB 22x58/80	J098563	FD22GB44V80T
	100		7.5	13.2	CC 4.421 CP gLB 22x58/100	K099507	FD22GB44V100T
27x60	125	@ 440 V DC 100 kA L/R = 30 ms	12.6	22	CC 4.421 CP gLB 27x60/125	H098562	FD27GB44V125T
	160		13.8	24.2	CC 4.421 CP gLB 27x60/160	M075704	FD27GB44V160T

Minimum trip indicator operating voltage: 20 V

See Fuse Blocks, Fuse Holders and Fuse clips

Pack: 10 pieces



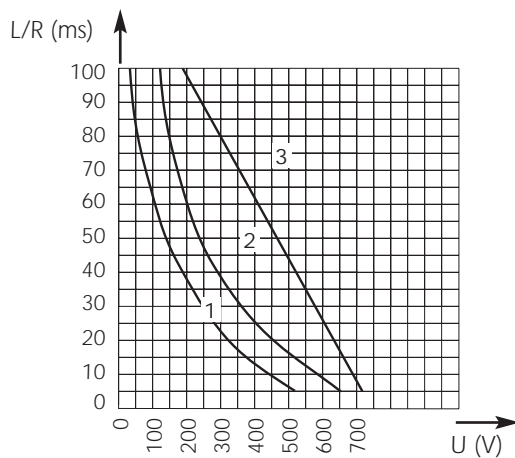
## DC Ferrule Fuses 14x51, 22x58, 27x60 gLB 440V DC



gLB from 2 to 160 A

### Electrical characteristics

#### DC applications data

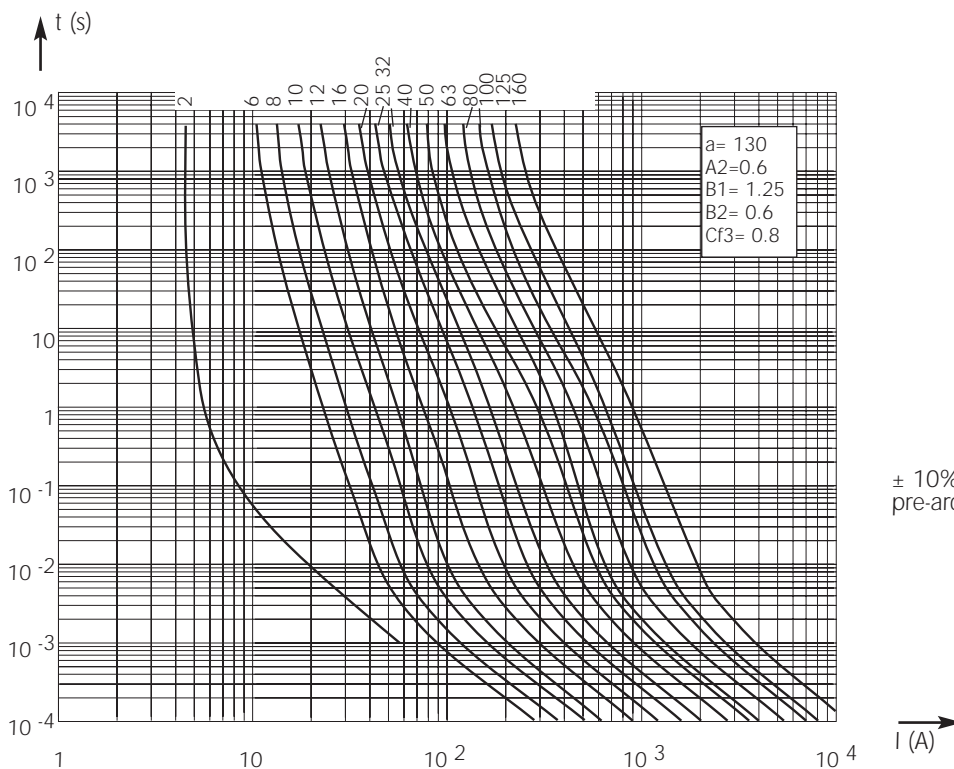


Left: Curves indicate maximum permissible value of time constant L/R as a function of DC working voltage

- 1- Size 14x51
- 2- Size 22x58
- 3- Size 27x60

Max. AC voltage (50/60 Hz): 500 V with breaking capacity of 100 kA

#### Time vs. current characteristics



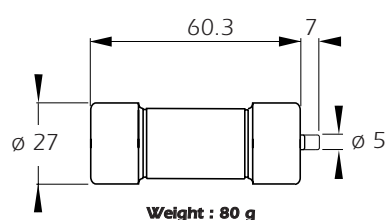
± 10% tolerance for mean pre-arcing current

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

## DC Ferrule Fuses 27x60 gRB 660V DC

gRB from 0.8 to 110 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)			
27x60	0.8	@ 660 V DC 50 kA L/R = 15 ms	0.25	0.4	CC 6.621 CP gRB 27x60/0.8	H098585	FD27GRB66V0,8T
	1		0.25	0.4	CC 6.621 CP gRB 27x60/1	J098586	FD27GRB66V1T
	1.5		0.35	0.6	CC 6.621 CP gRB 27x60/1.5	K098587	FD27GRB66V1,5T
	2		0.4	0.7	CC 6.621 CP gRB 27x60/2	P098591	FD27GRB66V2T
	3.15		0.6	1	CC 6.621 CP gRB 27x60/3.15	Q098592	FD27GRB66V3,15T
	4		0.6	1	CC 6.621 CP gRB 27x60/4	R098593	FD27GRB66V4T
	5		0.7	1.1	CC 6.621 CP gRB 27x60/5	T098595	FD27GRB66V5T
	6.3		0.8	1.3	CC 6.621 CP gRB 27x60/6.3	Z098600	FD27GRB66V6,3T
	8		1.2	2	CC 6.621 CP gRB 27x60/8	L076301	FD27GRB66V8T
	10		1.3	2.3	CC 6.621 CP gRB 27x60/10	M076302	FD27GRB66V10T
	12		1.4	2.4	CC 6.621 CP gRB 27x60/12	L075703	FD27GRB66V12T
	16		1.9	3.3	CC 6.621 CP gRB 27x60/16	N076303	FD27GRB66V16T
	20		2.4	4.1	CC 6.621 CP gRB 27x60/20	C077006	FD27GRB66V20T
	25		2.8	4.7	CC 6.621 CP gRB 27x60/25	M075635	FD27GRB66V25T
	32		3.5	6	CC 6.621 CP gRB 27x60/32	P076304	FD27GRB66V32T
	40		4.7	8	CC 6.621 CP gRB 27x60/40	Q076305	FD27GRB66V40T
	50		4.8	8.3	CC 6.621 CP gRB 27x60/50	R076306	FD27GRB66V50T
63	5.6	9.6	CC 6.621 CP gRB 27x60/63	P079961	FD27GRB66V63T		
80	6.4	11.2	CC 6.621 CP gRB 27x60/80	S079964	FD27GRB66V80T		
100	7.4	12.9	CC 6.621 CP gRB 27x60/100	T099400	FD27GRB66V100T		
110	7.7	13.7	CC 6.621 CP gRB 27x60/110	S076307	FD27GRB66V110T		

Minimum trip indicator operating voltage: 20 V

See Fuse Blocks, Fuse Holders and Fuse clips

Pack: 3 and 10 pieces

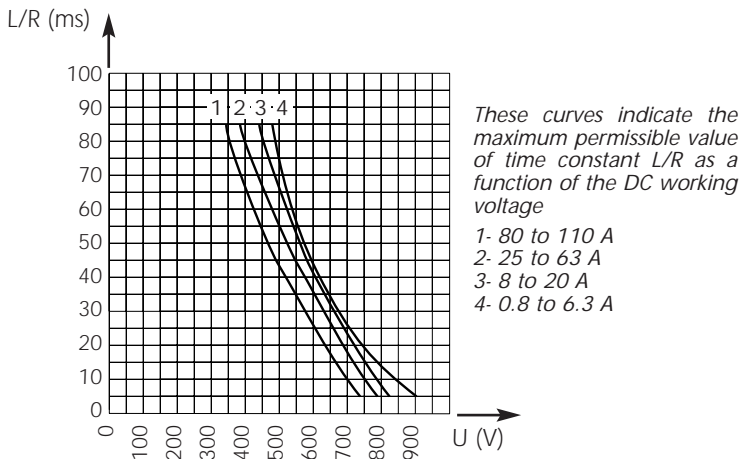


## DC Ferrule Fuses 27x60 gRB 660V DC



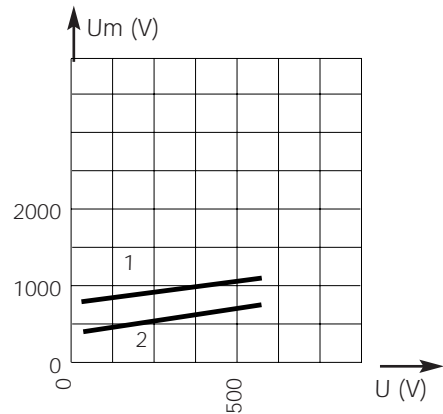
gRB from 0.8 to 110 A

### Electrical characteristics DC applications data



**Max. AC voltage (50/60 Hz):**  
660 V with 50 kA breaking capacity for  $I_N \leq 6.3A$   
660 V with 200 kA breaking capacity for  $I_N > 6.3A$

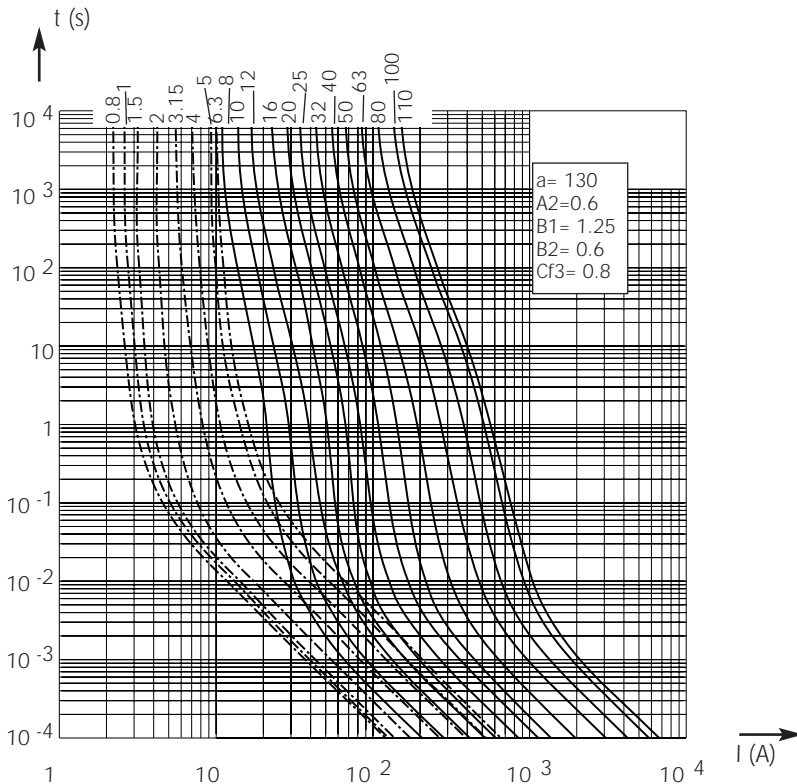
### Peak arc voltage vs. working voltage



1-  $L/R = 60$  ms  
2-  $L/R = 30$  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



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

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