



SPECIALTY PRODUCT GUIDE

VOLUME
FTK 102 **B**



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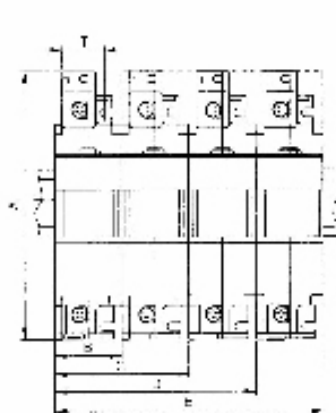
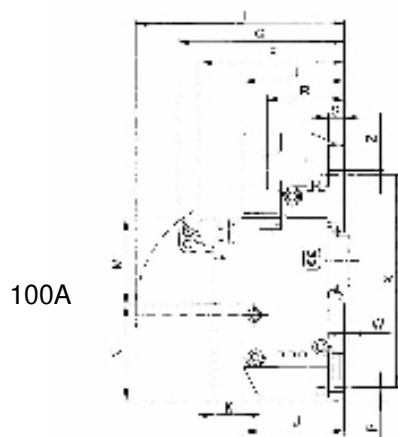
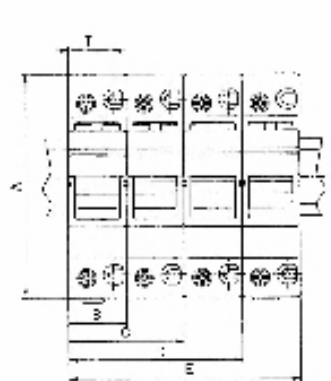
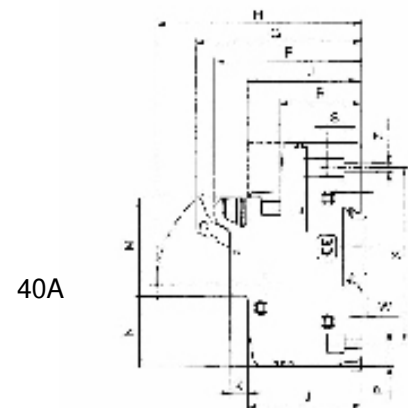
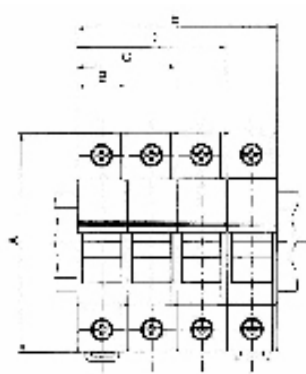
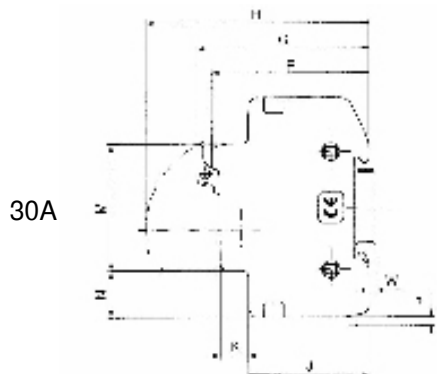


SIBA 600V 'ZS' DIN fuseholders

ZS modules are DIN rail mountable, deadfront fuseholders that accept standard metric ferrule fuses.

ZS modules in 14 x 51mm and 22 x 58mm versions are available with a microswitch option.

- UR recognised. 10x38mm version is cUR recognised (file E186970)
- Available in 1, 2, & 3 pole versions.



Size 10 x 38

Part No.	51 063 04.DC for 1000 V Dc	
	51 063 04	1 pol.
	51 063 04.2	2 pol.
	51 063 04.3	3 pol.

Power acceptance: 4W

A	307" (78 mm)	H	3.13" (79.5 mm)
B	0.70" (17.8 mm)	J	1.69" (43 mm)
C	1.40" (35.6 mm)	K	0.40" (10 mm)
D	2.10" (53.4 mm)	M	1.77" (45 mm)
E	2.80" (71.2 mm)	N	0.65" (16.5 mm)
F	2.20" (56 mm)	P	0.13" (3.2 mm)
G	2.40" (61 mm)	W	0.10" (2.5 mm)

Size 14 x 51

Part No.	51 058 04	51 058 04.S	1 pol.
	51 058 04.2		2 pol.
	51 058 04.3	51 058 04.3S	3 pol.

S= Microswitch

Power acceptance: 6W

A	404" (102.5 mm)	M	1.77" (45 mm)
B	1.04" (26.5 mm)	N	1.69" (32.5 mm)
C	2.10" (53 mm)	P	0.40" (10.5 mm)
D	3.13" (79.5 mm)	R	1.48" (37.5 mm)
E	4.17" (106 mm)	S	0.30" (8 mm)
F	2.66" (67.5 mm)	T	0.80" (20.5 mm)
G	3.00" (76 mm)	U	0.33" (8.5 mm)
H	3.70" (94.2 mm)	W	0.1" (2.5 mm)
J	2.07" (52.5 mm)	X	3.17" (80.5 mm)
K	0.30" (8 mm)	Z	0.17" (4.4 mm)

Size 22 x 58

Part No.	51 060 04	51 063 04.S	1 pol.
	51 060 04.2		2 pol.
	51 060 04.3	51 063 04.3S	3 pol.

S= Microswitch

Power acceptance: 12W

A	5.50" (140 mm)	M	1.77" (45 mm)
B	1.40" (35.6 mm)	N	2.00" (50.5 mm)
C	2.80" (71.2 mm)	P	0.30" (7.5 mm)
D	4.20" (106.8 mm)	R	1.57" (40 mm)
E	5.60" (142.4 mm)	S	0.30" (8 mm)
F	2.97" (75.5 mm)	T	1.06" (27 mm)
G	3.44" (87.5 mm)	W	0.10" (2.5 mm)
H	4.35" (110.5 mm)	X	4.30" (109.5 mm)
J	2.10" (53 mm)	Z	0.17" (4.4 mm)
K	0.63" (16 mm)		



Elastimold

Specifications

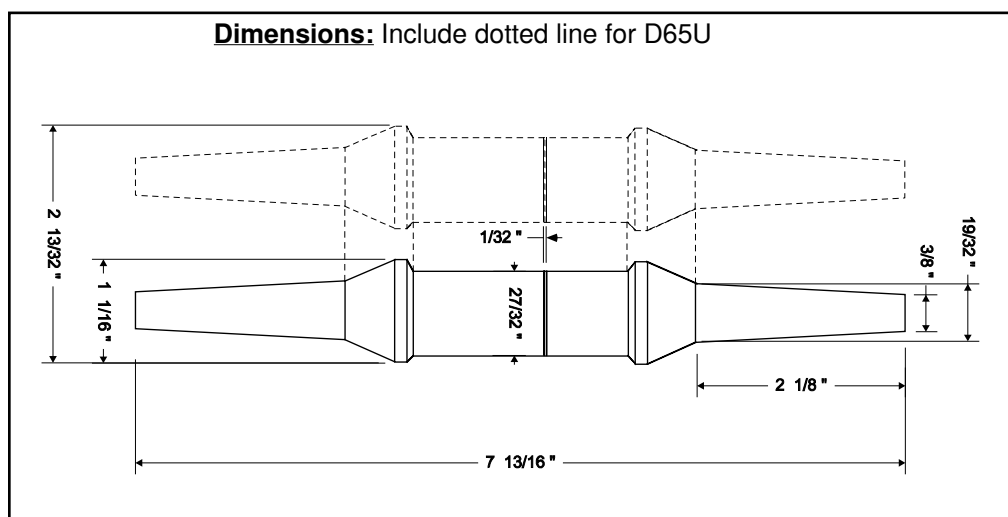
Voltage Rating:	600Vac dielectric - 2.2kVac / 1 min.
Ampere Rating:	30A max.
Load Break Rating:	15A - 250Vac
Material:	Santoprene
Waterproof:	Submersible to 12" for 24hr.
Wire Size - Std	#14 - #6 awg copper
LC version	#4 - #2 awg copper
Approvals	CSA c22.2 no. 39

Description

65U and D65U are fully waterproof in-line fuseholders designed to accept standard midget (13/32 x 1-1/2" & 10 x 38mm) fuses. They have integral moulded boots and 'break-away' safety design as standard features. Their primary use is in the fusing of street lighting ballasts, but they could be used for any application requiring weatherproof or waterproof fuseholders.

Features & Benefits

- Will accept any 13/32 x 1-1/2" or 10 x 38mm fuse. (except glass body or indicating types.)
 - Integral boots and 'Break-away' feature means no costly add-ons.
 - Fully waterproof to 12" submersion (when installed per mfrs. recommendations)
 - Flexible 'Santoprene' rubber has excellent environmental withstand.
 - Load-break capability - (15A at 250Vac)
 - Standard unit covers #14 thru #6 CU awg wire size.
- See PowrGard PF101 digest for Littelfuse LEB series 'screw-apart' in-line waterproof fuseholders.





DAITO alarm indicating fuses

Daito fuses are frequently used in machine tools, CNC and robotic equipment, telecommunications and equipment from Fanuc, Yaskawa, Toshiba and NEC.

They are DC rated fuses with an integral alarm contact that is closed on fuse operation, signaling that the fuse has operated.

They are a unique size and cannot be interchanged with other fuse types.

	Daito series	Amp Rating Designation	Voltage Rating	Breaking Capacity	Speed	Alarm contact rating
	MP C  US	032, 05, 063, 10, 16, 20, 32, 50, 63, 75	125V ac/dc	100A	Fast	200VA
	SMP C 	10, 16, 20, 32, 50, 75	125V ac/dc	100A	Delay	200VA
	GP  	.032, 5, 10, 16, 20, 25, 32, 40, 50, 75, 80, 100, 125, 150, 200	250Vac/dc	200A	Normal	200VA
	P3 P4	03, 05, 13, 20, 30, 35, 50	220V ac	2500A	Normal	P4 200VA
			250V dc	1500A		
		75, 100	125V ac	2500A		P3 50VA
			125V dc	1500A		
		150	125V ac/dc	1000A		
	P4H  	04, 05, 13, 20, 30, 35, 50	125V ac	10,000A	Normal	200VA
			250V ac/dc	1500A		
		75, 100	125V ac	10,000A		
			250V ac/dc	200A		
	P4L 	04, 05, 13, 20, 30, 35, 50, 75	125V ac	10,000	Normal	200VA
			125V dc	1500A		
		100, 150	125V ac/dc	100A		
			60V ac/dc	200A		
	SP3, SP4	01, 02, 03, 05, 10, 15, 20	220V ac	2500A	Delay	SP3 - 50VA, SP4 - 200VA
			250V dc	1500A		
		30, 35	220V ac	1500A		
			250V dc	300A		
		50	125V ac/dc	1000A		
	SP4L 	03, 05, 10, 15, 20, 30, 35	125V ac	10,000A	Delay	200VA
			250V ac/dc	200A		



HV Motor Fuses

Description

MR series fuses are current-limiting partial range fuses intended for the protection of medium voltage motor control.

They have standardised dimensions and are fully interchangeable with other fuses of the same type and rating. Blown fuse indication is standard on all types.

The design of the striker travel and force meets international requirements for mechanical actuation and can be used for visual indication or mechanical actuation.

Features

- Integral indicating pin for visual or mechanical operation.
- 2.5kV and 5.5kV fuses can be hermetically sealed and supplied with out indicator for use in hazardous location application.
- Fully plated metal parts for low contact resistance.
- Standard 'R' ratings ensure interchangeability.

Installation notes

When replacing motor starting fuses, always match the 'R' rating - not the amp rating - to maintain identical co-ordination and motor starting capability. These fuses can replace any manufacturers' motor fuse having the same dimensions and R rating. Ensure that the fuse clips still have good tension and clean all contact surfaces before re-installing fuses. The striker pin should be pointing up when installing fuses.

'R' Rating Defined

The 'R' rating for a fuse is established by dividing the 20-35 second melt current of the fuse by 100.

In this way, fuses having the same 'R' rating will melt at the same current level at 20s - thus ensuring identical motor starting capability and co-ordination with the overload relays.

Fuses should be replaced in sets of three to avoid nuisance blowing caused by element damage.

Motor Circuits

There are motor/fuse selection charts in each section. To use these fuse charts it is necessary to know the starting current and run-up time of the motor. For starting conditions not shown, please contact Fusetek.

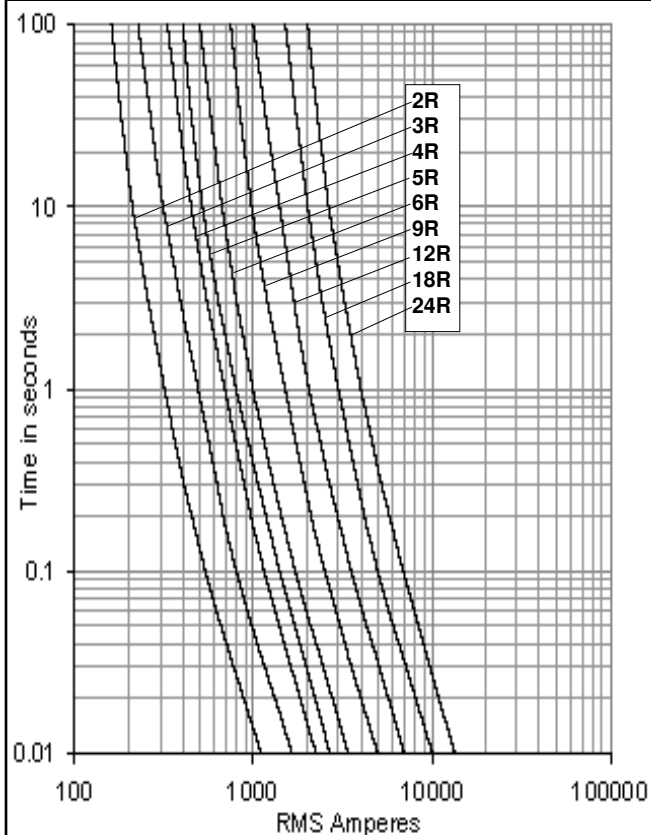
- Select appropriate run-up time (6 or 15 seconds)
- Read down to appropriate starting current range.
- Read across to find 'R' rating.

Tag Variations

A variety of end contact arrangements are available. Add the following suffix to the part number for; Hookeye - W, 2" longer Body - X, Bolt in end tags - BI

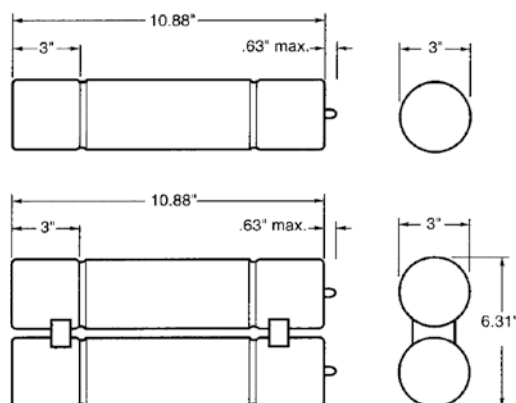
2.5kV Motor fuses - 7" centre Clip-in style

Melting Time Current Characteristics



General Specifications

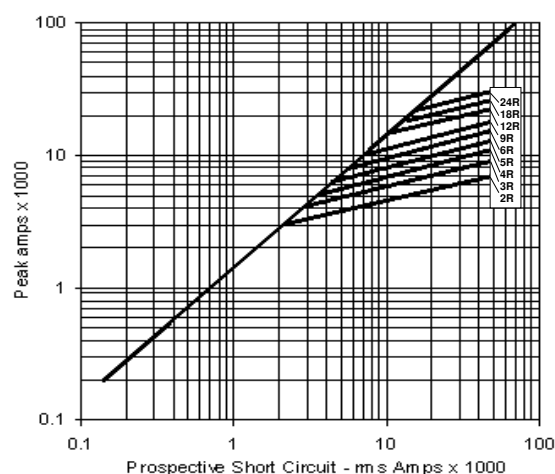
Part Number	'R'	FLA	D x L (inches)		I.R kA	total I ² t x 1000
70-2R-1C-2.75	2R	70	3	10.8	50 kA rms	75
100-3R-1C-2.75	3R	100	3	10.8		150
130-4R-1C-2.75	4R	130	3	10.8		230
150-5R-1C-2.75	5R	150	3	10.8		300
170-6R-1C-2.75	6R	170	3	10.8		380
200-9R-1C-2.75	9R	200	3	10.8		550
230-12R-1C-2.75	12R	230	3	10.8		720
390-18R-2C-2.75	18R	390	2x3	10.8		1700
450-24R-2C-2.75	24R	450	2x3	10.8		2200



Fuse selection for Motors rated 2.5kV or less

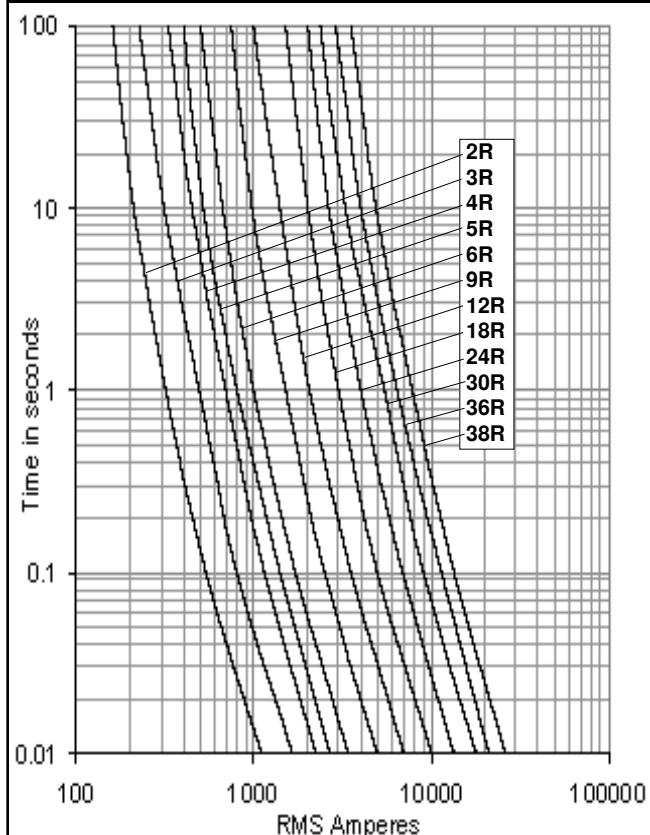
Fuse Rating	Motor Starting Current (A)			
	for 6 sec. run-up		for 15 sec. run-up	
	from	to	from	to
2R	140	165	120	150
3R	165	250	150	215
4R	250	340	215	350
5R	340	430	300	420
6R	430	550	420	480
9R	550	800	480	680
12R	800	1400	680	1200
18R	1400	1650	1200	1400
24R	1650	2300	1400	1800

Current Cut-off at rated voltage



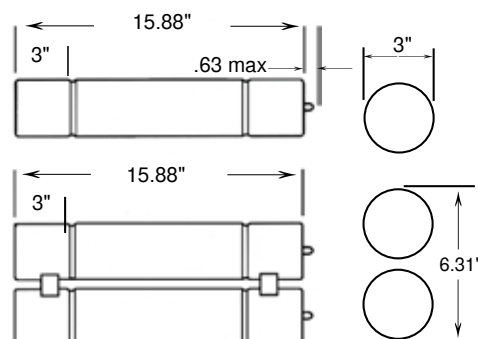
5.5kV Motor fuses - 12" centre Clip-in style

Melting Time Current Characteristics



General Specifications

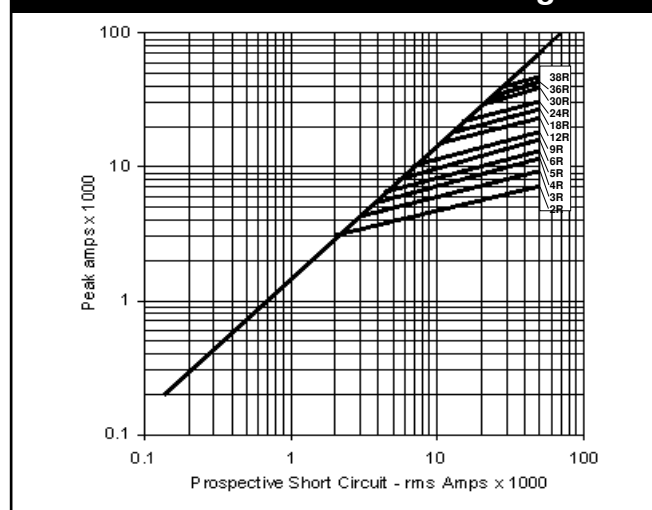
Part Number	A	F.L.A	D x L (inches)		I.R kA	total I ² t x1000
70-2R-1C-5.5	2R	70	3	15.8	50kA rms	75
100-3R-1C-5.5	3R	100	3	15.8		150
130-4R-1C-5.5	4R	130	3	15.8		230
150-5R-1C-5.5	5R	150	3	15.8		300
170-6R-1C-5.5	6R	170	3	15.8		380
200-9R-1C-5.5	9R	200	3	15.8		550
230-12R-1C-5.5	12R	230	3	15.8		720
390-18R-2C-5.5	18R	390	2x3	15.8		1700
450-24R-2C-5.5	24R	450	2x3	15.8		2200
550-30R-2C-5.5	30R	550	2x3	15.8		3300
650-36R-2C-5.5	36R	650	2x3	15.8		5200



Fuse selection for Motors rated 5.5kV or less

Fuse Rating	Motor Starting Current (A)			
	for 6 sec. run-up		for 15 sec. run-up	
	from	to	from	to
2R	140	165	120	150
3R	165	260	150	225
4R	260	360	225	315
5R	360	435	315	375
6R	435	540	375	450
9R	540	780	450	675
12R	780	1080	675	950
18R	1080	1650	950	1350
24R	1650	2100	1350	1800
30R	2100	2750	1800	2250
36R	2750	3300	2250	2850

Current Cut-off at rated voltage





E Rated Distribution fuses

E rated power fuses are current limiting partial-range fuses usually used for fusing the primary windings of medium voltage distribution transformers and associated distribution circuits.

Their high degree of current limitation greatly reduces the thermal and mechanical stresses imposed on system components during a short circuit. They can be used indoors or outdoors in a suitable enclosure and conform to standard N.American dimensions.

Features

- General purpose 'E' rated characteristics.
- Pure silver elements
- Fully plated metal parts for cool running.
- Excellent current limitation for substantial reduction of short circuit stresses.
- Blown fuse indicator pin for visual indication or mechanical actuation (except 2" body)
- All D Case 3" Diameter fuses can be hermetically sealed and supplied without indicator for use in hazardous location application.

Companion Products

Standoff insulators, fuse clips and bases. Please see accessories section in rear of this section. For other ratings and designs, please contact Fusetek.

Retrofitting

Fusetek power fuses are dimensionally compatible with and interchangeable with other manufacturers' fuses having the same dimensions and ratings. Standard 'E' rated characteristics ensure electrical equivalency.

Fuses should be replaced in sets of three to avoid nuisance blowing caused by element damage.

Tag Variations

3" diameter E rated fuses are available with the following options. Add the suffixes shown to the end of the part number - example;

- X - 2" longer tube to line up with some manufacturers' longer bodies.
- Bi - Offset mounting brackets for bolt mounting.
- W - Hookeye disconnect feature.
- CL - ITE/Gould style clip-lock mounting.

E Rating Defined

100E or less:

Fuse must open in 300sec at 200-240% of its rated current

over 100E:

Fuse must open in 600sec. at 220-264% of its rated current.

Thus, fuses with identical E ratings will provide similar overload protection and co-ordination with transformer and other protective devices.

“3” Format (D diam.)							
Dimensions						I.R	
Vac	Type	L	CC	Fig.	Part Number	Ratings Available	rms sym.
2.4/2.75kV	D	10.8	7.0	1	***E-1C-2.75	10, 15, 20, 25, 30, 40, 50, 65, 80, 100, 125, 150, 175, 200E	50kA
	DD	10.8	7.0	2	***-2C-2.75	125, 150, 175, 200, 225, 250, 300, 350, 400, 450E	
4.8/5.5kV	D	15.8 17.8	12.0 14.0	1	***-1C-5.5 5NLE-***	10, 15, 20, 25, 30, 40, 50, 65, 80, 100, 125, 150, 175, 200E	50kA
	D-ITE			4	***-1CL-5.5		
	DD	15.8 17.8	12.0 14.0	2	***-2C-5.5 5NLE2-***	150, 200, 225, 250, 300, 350, 400, 450E	
7.2/8.3kV	D	15.8 17.8	12.0 14.0	1	***-1C-8.3 8NLE-***	10, 15, 20, 25, 30, 40, 50, 65, 80, 100E	50kA
	DD	15.8 17.8	12.0 14.0	2	***-2C-8.3 8NLE2-***	125, 150, 175 200, 250, 300E	50kA
13.8/15.5kV	D	18.8 21.8 23.8	15.0 18.0 20.0	1	***-1C-15.5 15GSE-*** 15NLE-***	10, 15, 20, 25, 30, 40, 50, 65, 80, 100E	37.5kA
	D-ITE			4	***-1CL-15.5		
	DD	18.8 21.8 23.8	15.0 18.0 20.0	2	***-2C-15.5 15GSE2-*** 15NLE-***	65, 80, 100, 125, 150, 175, 200E	
23/25.8kV	D	22.5	20.0	1	***-1C-25.8	15, 20, 25, 30, 40, 50E	25kA
	DD			2	***-2C-25.8	65, 80, 100E	
30/38kV	D	30.8	27.0	1	***-1C-38	15, 20, 25, 30, 40E	12.5kA
	DD			2	***-2C-38	50, 65, 80E	

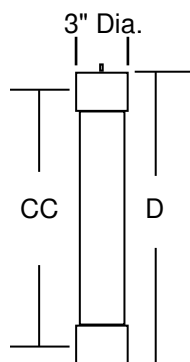


Fig. 1

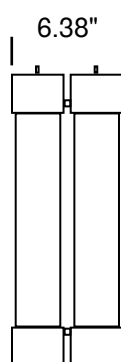


Fig. 2

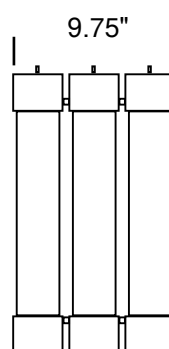


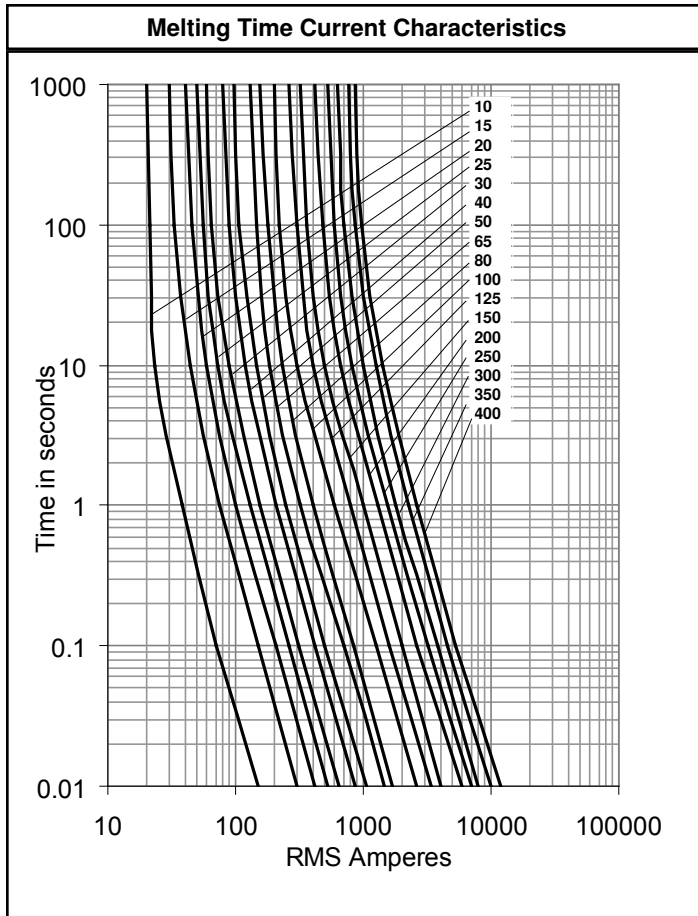
Fig. 3



Fig. 4

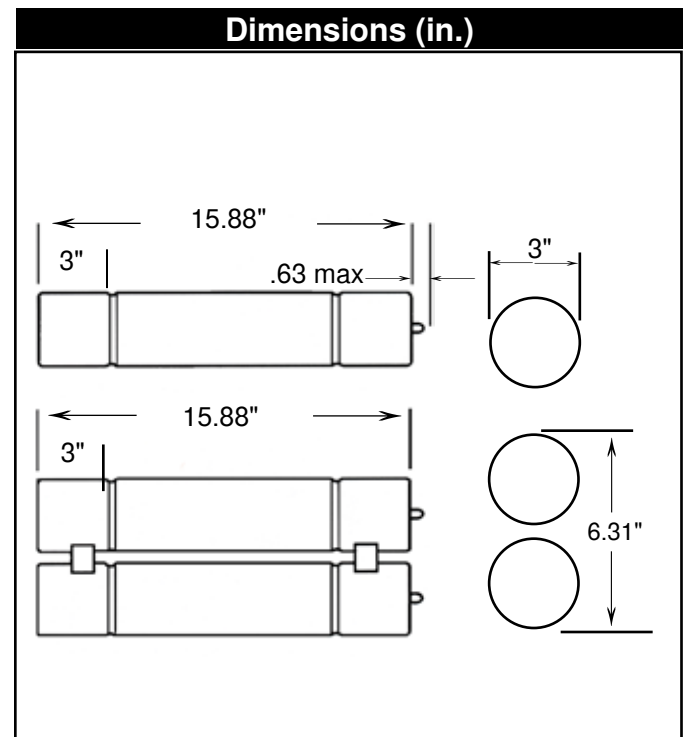


5.5kV - 3" Body 'E' rated Distribution fuses

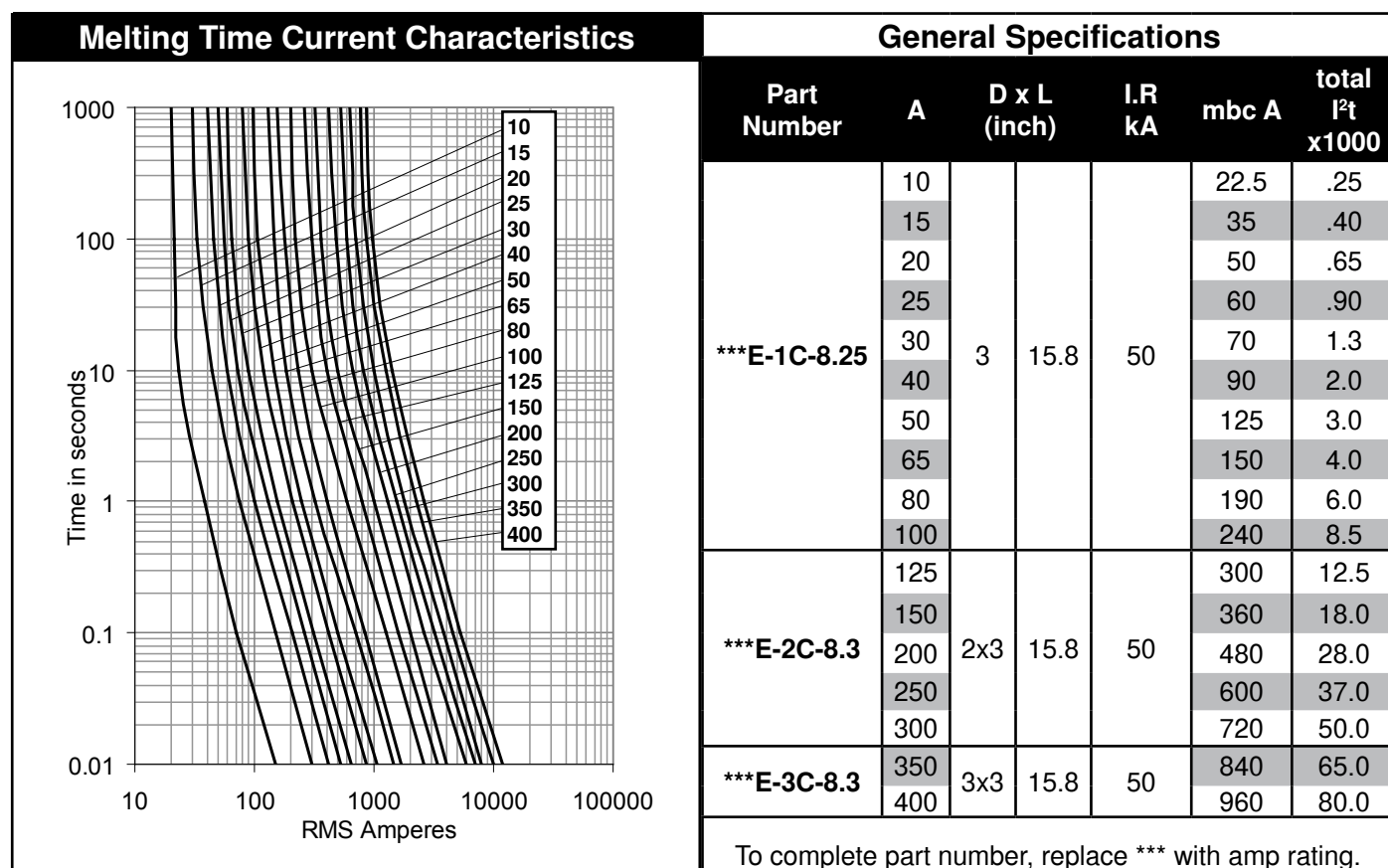


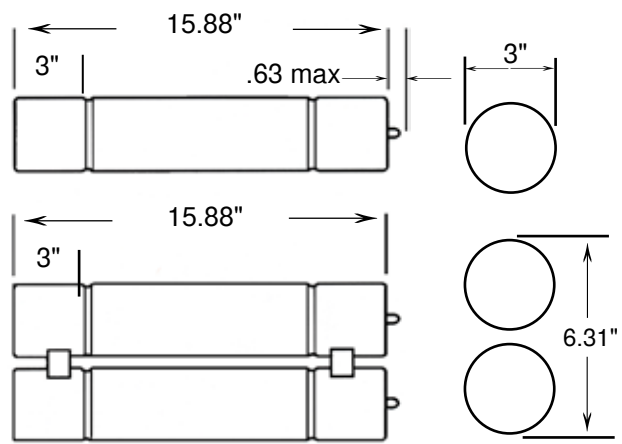
General Specifications					
Part Number	A	D x L inches		I.R kA	mbc
***E-1C-5.5	10	3	15.8	50	20
	15				30
	20				40
	25				50
	30				60
	40				80
	50				100
	65				130
	80				160
	100				200
	125				250
	150				300
	200				400
***E-2C-5.5	250	2x3	15.8	50	500
	300				600
	350				700
	400				800
	450				900

Fuse selection for transformers rated 5.5kV or less				
kVA	2.4kV	4.16kV	4.8kV	5.5kV
15	10E	-	-	-
30	15E	15E	10E	10E
45	20E	15E	15E	15E
75	30E	20E	15E	15E
112.5	40E	25E	20E	20E
150	65E	30E	30E	25E
225	80E	50E	40E	40E
300	100E	65E	65E	50E
500	125E	100E	100E	80E
750	250E	125E	100E	100E
1000	300E	200E	125E	125E
1500	450E	250E	250E	200E
2000	-	350E	300E	250E
2500	-	450E	350E	350E
3000	-	-	450E	400E



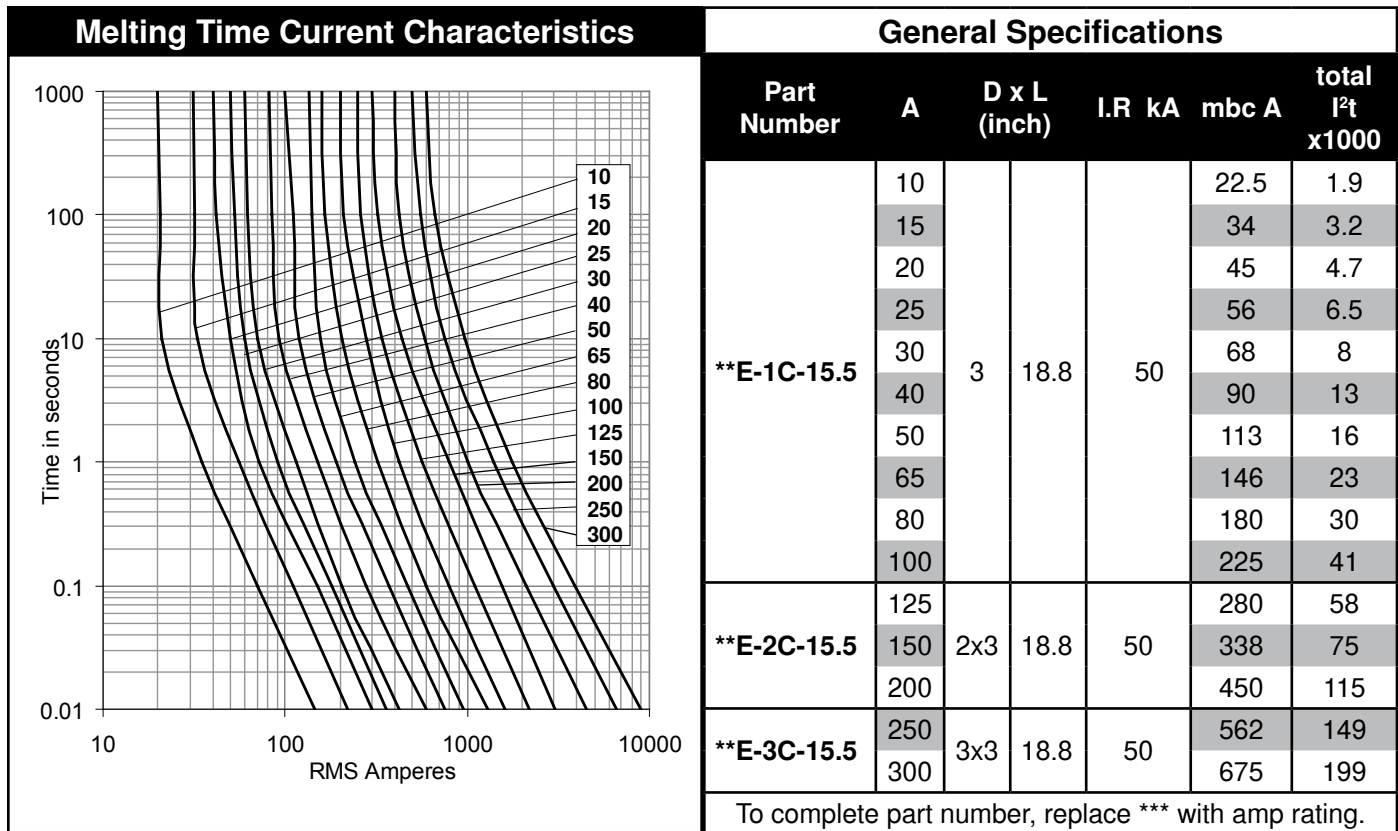
8.3kV - 3" Body 'E' rated Distribution fuses



Fuse selection for transformers rated 8.3kV or less					Dimensions (in.)	
kVA	5.5kV	6.9kV	7.2kV	8.3kV		
45	10E	10E	10E	-		
75	15E	15E	15E	-		
112.5	20E	15E	15E	10E		
150	25E	20E	20E	15E		
225	40E	30E	30E	20E		
300	40E	40E	40E	30E		
500	80E	65E	65E	50E		
750	100E	100E	100E	80E		
1000	150E	125E	100E	100E		
1500	250E	125E	150E	150E		
2000	300E	200E	200E	200E		
2500	350E	300E	250E	250E		
3000	400E	350E	350E	300E		
3500	-	350E	350E	350E		
4000	-	-	400E	350E		



15.5kV - 3" Body 'E' rated Distribution fuses



Fuse selection for transformers rated 15.5kV or less					Dimensions (in.)	
kVA	12.47kV	13.2kV	13.8kV	14.4kV		
112.5	15E	15E	15E	10E		
150	15E	15E	15E	15E		
225	25E	20E	20E	20E		
300	30E	30E	30E	30E		
500	50E	50E	50E	50E		
750	80E	80E	80E	65E		
1000	100E	100E	100E	80E		
1500	125E	125E	125E	125E		
2000	150E	150E	150E	150E		
2500	200E	150E	150E	150E		
3000	200E	200E	200E	200E		



Potential Transformer fuses

PT series fuses are current limiting, non-indicating, partial range HRC fuses available in a variety of voltage, amperage and interrupting ratings. (see chart).

FC series are North American dimensioned PT fuses and provide equals to Westinghouse and CGE. BPT series are British dimensioned PT fuses and offer equals to GEC, Brush, CCL, and EMP.

- Pure silver elements.
- Fully plated metal parts for cool running.
- Excellent current limitation for substantial reduction of short circuit stresses.

Retrofitting

Fusetek PT fuses can replace any other manufacturers' PT fuse with same dimensions and voltage/amp rating. When replacing fuses, ensure that fuse clips still have good spring tension. Adjust or replace if necessary. Make sure contact surfaces are clean and free of corrosion.

Companion Products

Insulators, fuse clips and bases. Please see the end of this section for these items.

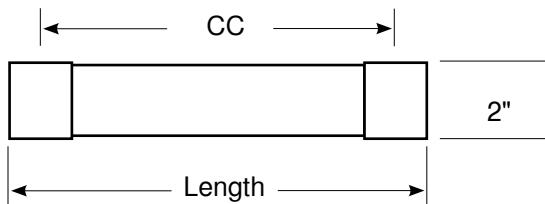
PT Fuses - General Specifications

Vac	Part Number	Ratings	Dimensions D X L			I.R rms symm.
North American dimensions						
625Vac	FC460	1/2, 1, 2, 3, 5, 7, 10, 15, 20E	13/16	4.6	37.5kA	
2.75kV	FC461	1/4, 1/2, 1, 2, 3, 5E	13/16	4.6	37.5kA	
2.75kV	FC462	1/2, 1, 2, 3, 5E	1-9/16	7.4	37.5kA	
	FC463		1-9/16	9.5	37.5kA	
4.8kV	4.8NPT	1/2, 1, 2, 3, 5E	13/16	5.6	50kA	
5.5kV	FC464	1/2, 1, 2, 3, 5E	1-9/16	7.4	50kA	
	FC465		1-9/16	9.5	50kA	
8.3kV	FC466	1/2, 1, 2, 3, 5E	1-9/16	9.5	50kA	
15.5kV	FC467	1/2, 1, 2, 3, 5E	1-9/16	12.8	35kA	
25.8kV	FCA22	1/2, 1, 2, 3, 5E	1-9/16	17.5	32kA	
British dimensions						
5.5kV	5.5BPT	1/2, 1, 2, 3, 5E	1.0	5.6	40kA	
8.5kV	8.5BPT	1/2, 1, 2, 3E	1.0	7.6	40kA	
Other types						
1.2kV	184000	32mA-6.3A	8mm	50mm	35A	
3.0kV	185000	32mA-4A	8mm	85mm	35A	
6.0kV	186000	32mA-4A	8mm	120mm	35A	
10.0kV	187000	32mA-2A	8mm	150mm	35A	
15.5kV	FC493	Ozonator 1/2A only	15mm	153mm	30kA	

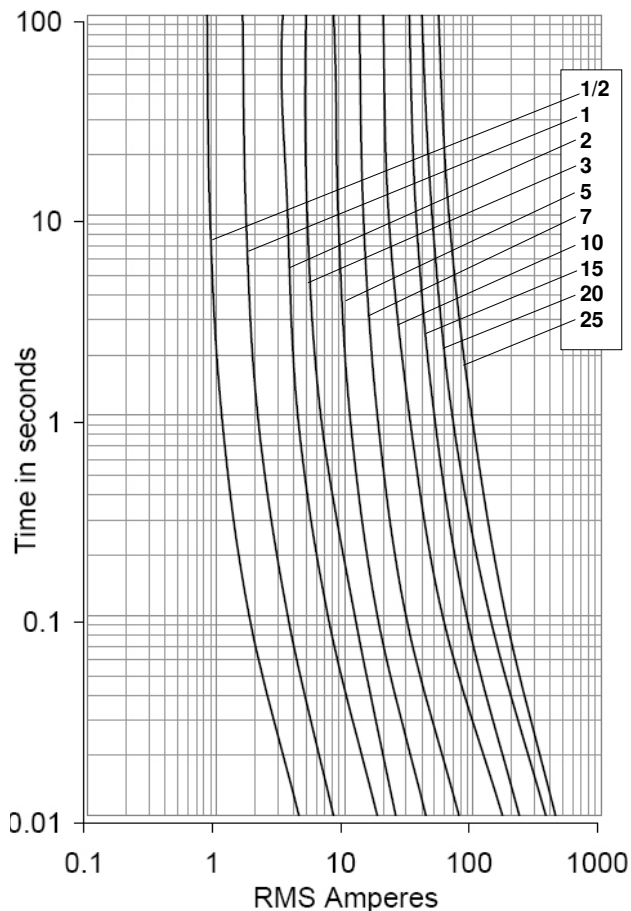


2" Format (B diam.) - General Specifications

Part Number	Vac	Ratings available	Diam.	L	CC	I.R
FC468	2.5/2.7kV	1, 2, 3, 5, 7, 10, 15, 20, 25A	2"	9.2"	7.0"	50kA
FC469	4.8/5.5kV	1, 2, 3, 5, 7, 10, 15, 20, 25A	2"	11.2"	9.0"	50kA
FC471	7.2/8.3kV	1, 2, 3, 5, 7, 10, 15, 20, 25A	2"	14.2"	12.0"	50kA
FC472	13.8/15.5kV	1, 2, 3, 5, 7, 10, 15A	2"	14.2"	12.0"	50kA
FC473	23/25.8kV	1, 3, 5, 7, 10, 15A	2"	17.2"	15.0"	40kA
FC474	23/25.8kV	1, 3, 5, 7, 10A	2"	22.5"	21.0"	32kA



Melting Time current Characteristics

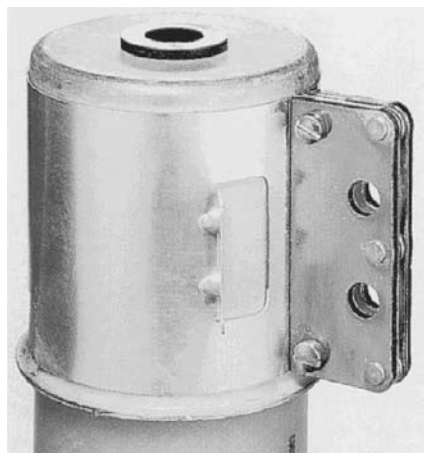


For all PT fuses

Transformer Fuse Table		
Transformer Primary FLC (A) from	Transformer Primary FLC (A) to	Fuse rating (A)
0	.15	1/2
.16	0.30	1
0.31	0.62	2
0.63	1.0	3
1.1	1.5	5
1.6	2.5	7
2.6	4.8	10
4.9	7.5	15
7.6	11.2	20
11.3	15.0	25

Other types and tag arrangements

Our 3" diameter R and E rated ferrule (clip-in) are available with modified caps/tags as shown below. The modification of the end fittings does not affect the electrical performance of the fuse. Please refer to the appropriate basic ferrule fuse data.



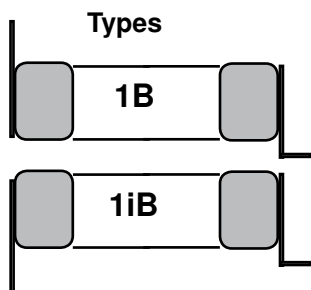
Hookey Feature
- add 'W' to part number



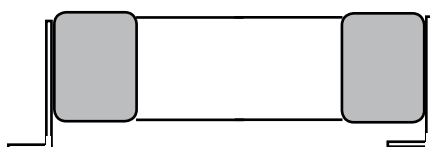
Bolt-in Tags
- add 'Bi' to part number



2" Extension
- add 'X' to part number



GE Bolt in tags
add 1B or 1iB to part number



ITE Clip-Loc feature
- add 'CL' to part number

Option Availability									
	2.75kV - R	5.5kV - R	8.3kV - R	2.75kV - E	5.5kV - E	8.3kV - E	15.5kV - E	25.8kV - E	38kV - E
Plain Ferrule	•	•	•	•	•	•	•	•	•
Bi bolt-in	•	•	•						
W Hookey				•	•	•	•	•	•
1B bolt-in	•	•							
1iB bolt-in	•	•	•						
CL ClipLoc					•	•	•		
X body extension		•			•	•	•		



DIN HV Distribution

DIN HV fuses are partial-range high voltage current-limiting fuses for use in distribution circuits from 2.3 - 38kV.

Their compact dimensions and non-venting characteristics make them ideal for restricted enclosures. DIN HV fuses have excellent short circuit performance and good low overcurrent clearing capability. When used in combination with fusible switches with fuse-activated trip feature, full range clearing capability is achieved.

True full-range fuses are available in certain voltage and amp ranges. Please contact Fusetek for more information.

Features

- Highly standardised DIN 43 625 dimensions.
- Excellent short circuit performance. Ceramic bodies, pure silver elements.
- '30' series fuses have a temperature sensitive striker to protect against extended overload conditions, or external overheating.
- Sealed for indoor or outdoor use.
- Striker pin can be used for visual indication or mechanical actuation of other devices. (Std-80N, HD - 120N)
- High amp ratings available for larger installations.
- Fully plated parts for cool running.

Installation Notes

1. DIN fuses are partial range devices with a minimum interrupting rating. Care must be taken to ensure that anticipated currents below the fuse's minimum breaking current (m.b.c) are cleared by other devices. In this regard, DIN fuses are similar to ANSI - 'E' rated fuses. Full range DIN fuses are available in limited voltage and amp ranges. Please contact Fusetek for information.
2. When DIN fuses are used in conjunction with a trip-all-phase-device, the minimum breaking capacity of the switch or contactor must be equal to or greater than the m.b.c of the fuse.
3. Maximum voltages listed are absolute maximums for safe operation. Utility system tolerances on voltage must be considered when selecting a voltage range.
4. When replacing fuses in the field, ensure that contact clips are clean and free of corrosion, dirt, grease etc... Ensure that the fuse clips still have good tension. (if the fuse will spin easily in the fuse clips, the clips have lost their tension and should be replaced)
5. ***Fuses should be replaced in sets of three to avoid nuisance blowing caused by element damage.***

Dimensions

All DIN fuse share common end fittings which fit into 45mm fuse clips. The only dimensional variables are the body length (L) and body diameter (D). As this varies depending on voltage, amperage and other factors, please refer to the tables in this section for D and L dimensions. Striker pins meet industry and DIN requirements for force/travel and can be used for mechanical actuation or visual indication.

Transformer application

The fuse ratings recommended in the following tables have been chosen with the following conditions in mind:

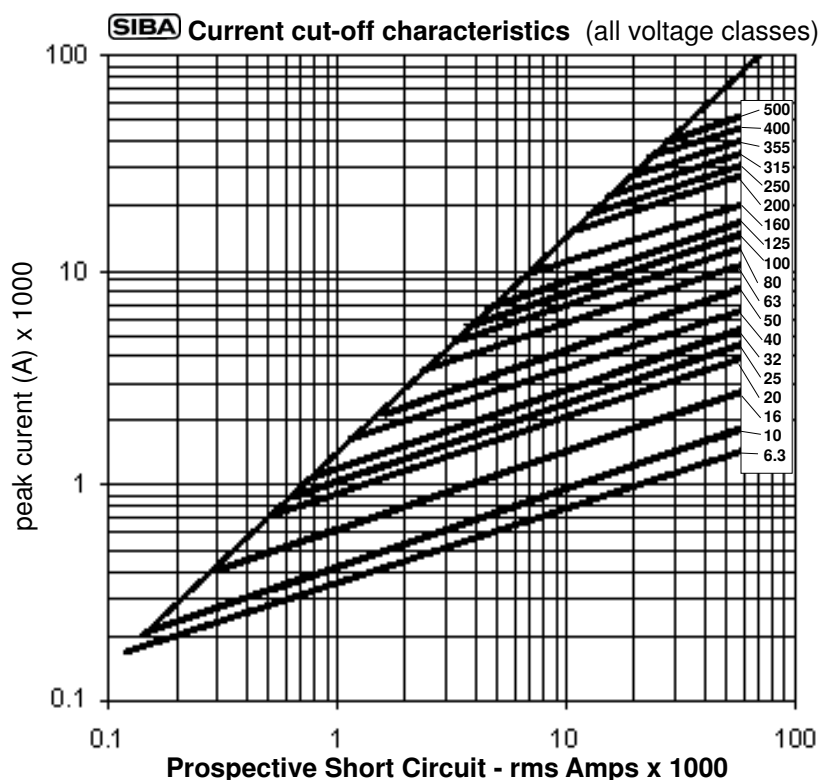
- Fuses must pass normal primary winding magnetising inrush currents: These are taken as 12x the normal full load current (FLC) at .1 sec, and 25x FLC at .01 sec. Certain applications may require the use of a higher fuse rating. Please contact FUSETEK with application details.
- After a sustained power outage, the fuse must be able to withstand an overload of approximately 6 x FLC for 1 sec. and 3 x FLC for 10 sec.
- The maximum voltage rating of the fuse must be equal to, or greater than the maximum line-to-line system voltage.

Capacitor application

Refer to capacitor selection chart on page 27. Be sure to consider the switching options and proximity of other banks when establishing a base FLC to apply.

Companion Products

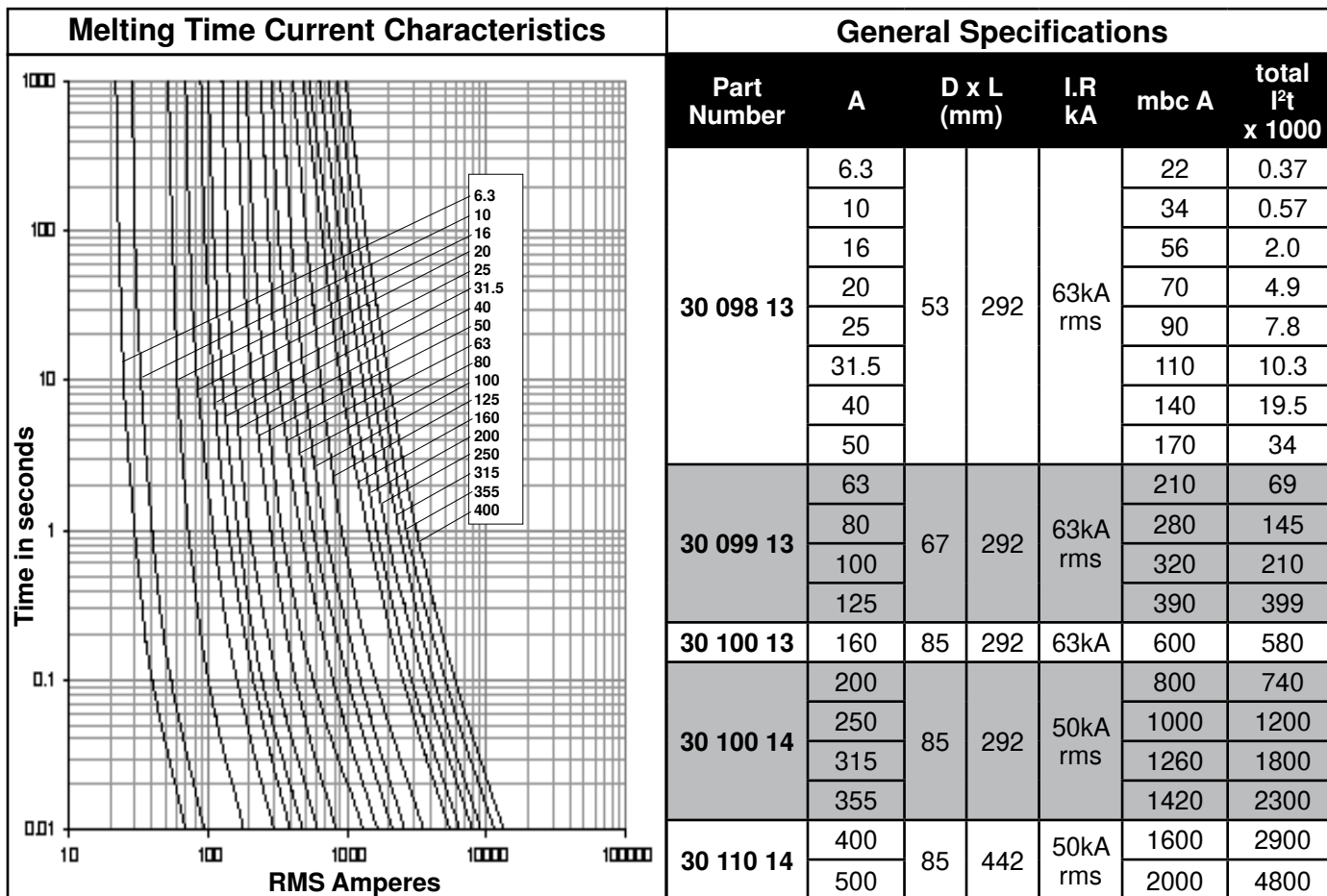
Insulators, clips, single pole bases



Note:

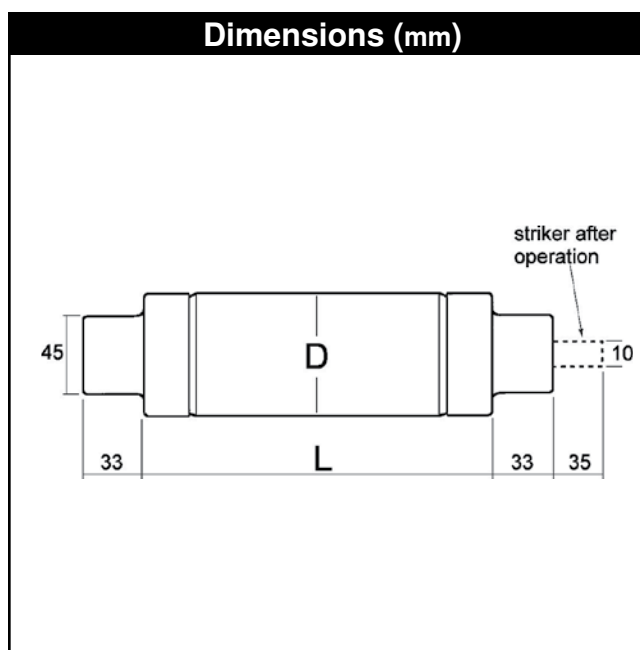
I^2t and interrupting ratings shown in following tables are at maximum system voltage.

3.0/7.2kV

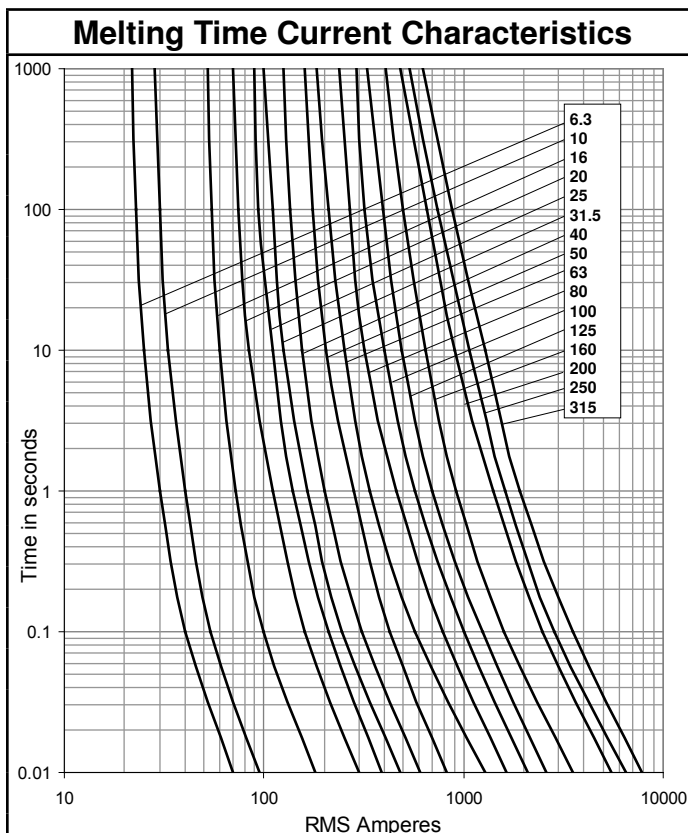


Other body lengths and configurations available.
Please contact Fusetek.

Minimum fuse for transformers rated 7.2kV or less				
kVA	2.4kV	4.16kV	4.8kV	6.9kV
15	10A	6.3A	6.3A	6.3A
30	16A	16A	10A	10A
45	25A	16A	16A	16A
75	40A	25A	20A	16A
112.5	50A	40A	25A	20A
150	50A	40A	31.5A	25A
225	80A	50A	50A	40A
300	100A	63A	50A	40A
500	160A	100A	80A	63A
750	250A	125A	100A	80A
1000	315A	160A	160A	100A
1500	500A	250A	250A	160A
2000	-	355A	315A	200A
2500	-	500A	400A	250A
3000	-	-	500A	315A
4000	-	-	-	400A



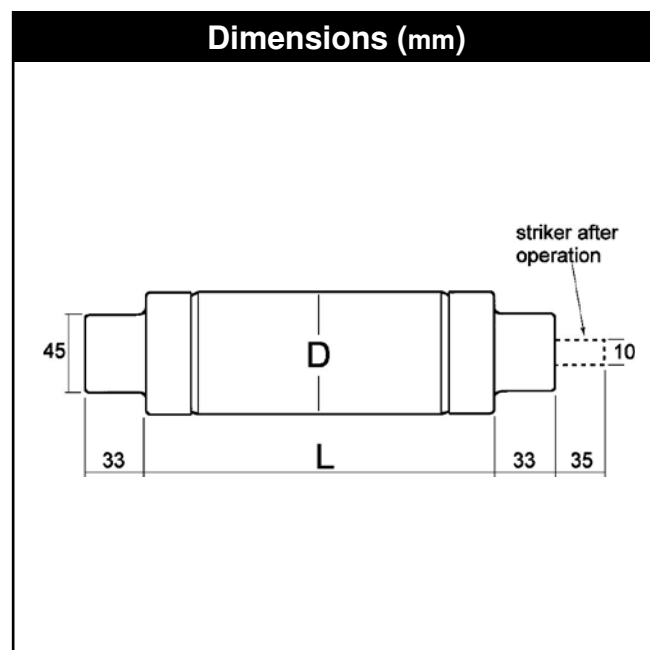
6/12kV



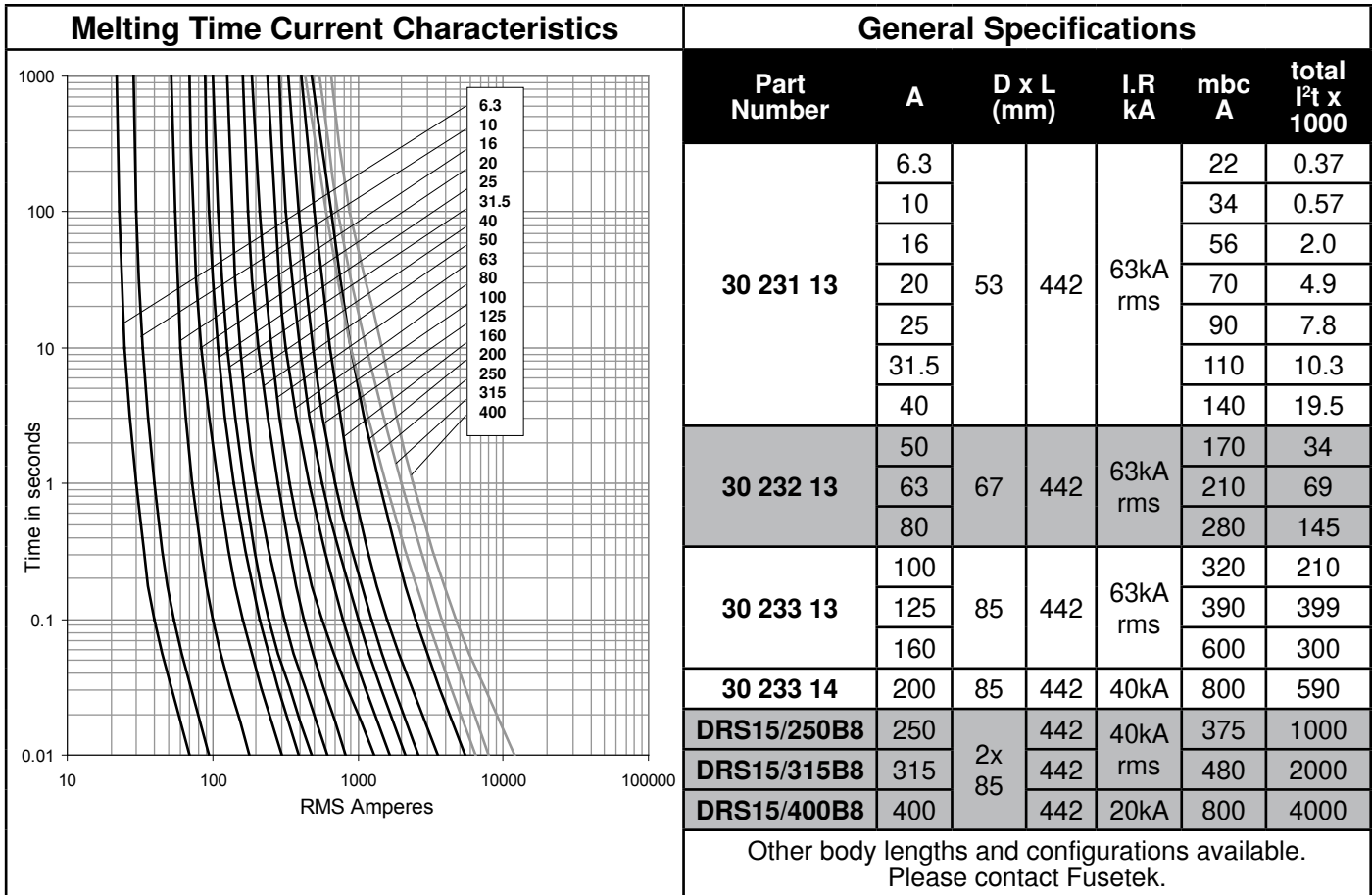
General Specifications						
Part Number	A	D x L (mm)		I.R kA	mbc A	total l ² t x 1000
30 004 13	6.3	53	292	63kA rms	22	0.37
	10				34	0.57
	16				56	2.0
	20				70	4.9
	25				90	7.8
	31.5				110	10.3
	40				140	19.5
	50				170	34
30 012 13	63	67	292	63kA rm	210	69
	80				280	145
	100				320	210
	125				390	399
30 020 13	160	85	292	63kA	600	580
30 020 14	200	85	292	50kA	800	740
30 211 14	250	85	537	50kA rms	1000	1100
30 211 14	315	85	537		1260	1800

Other body lengths and configurations available.
Please contact Fusetek.

Minimum fuse for transformers rated 12kV or less				
kVA	6.9kV	7.2kV	8.3kV	12kV
15	6.3A	6.3A	6.3A	6.3A
30	10A	6.3A	6.3A	6.3A
45	16A	16A	10A	6.3A
75	16A	16A	16A	10A
112.5	20A	20A	20A	16A
150	25A	25A	25A	16A
225	40A	31.5A	31.5A	20A
300	40A	40A	40A	25A
500	63A	63A	63A	40A
750	80A	80A	80A	50A
1000	100A	100A	100A	63A
1500	160A	160A	125A	100A
2000	200A	200A	160A	125A
2500	250A	250A	250A	160A
3000	315A	315A	315A	200A
4000	see 7.2kV class		-	250A

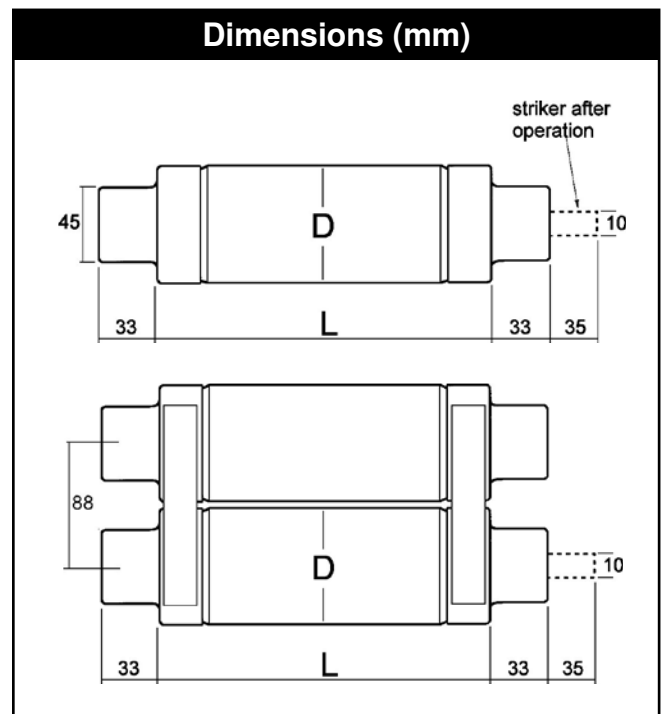


10/17.5kV

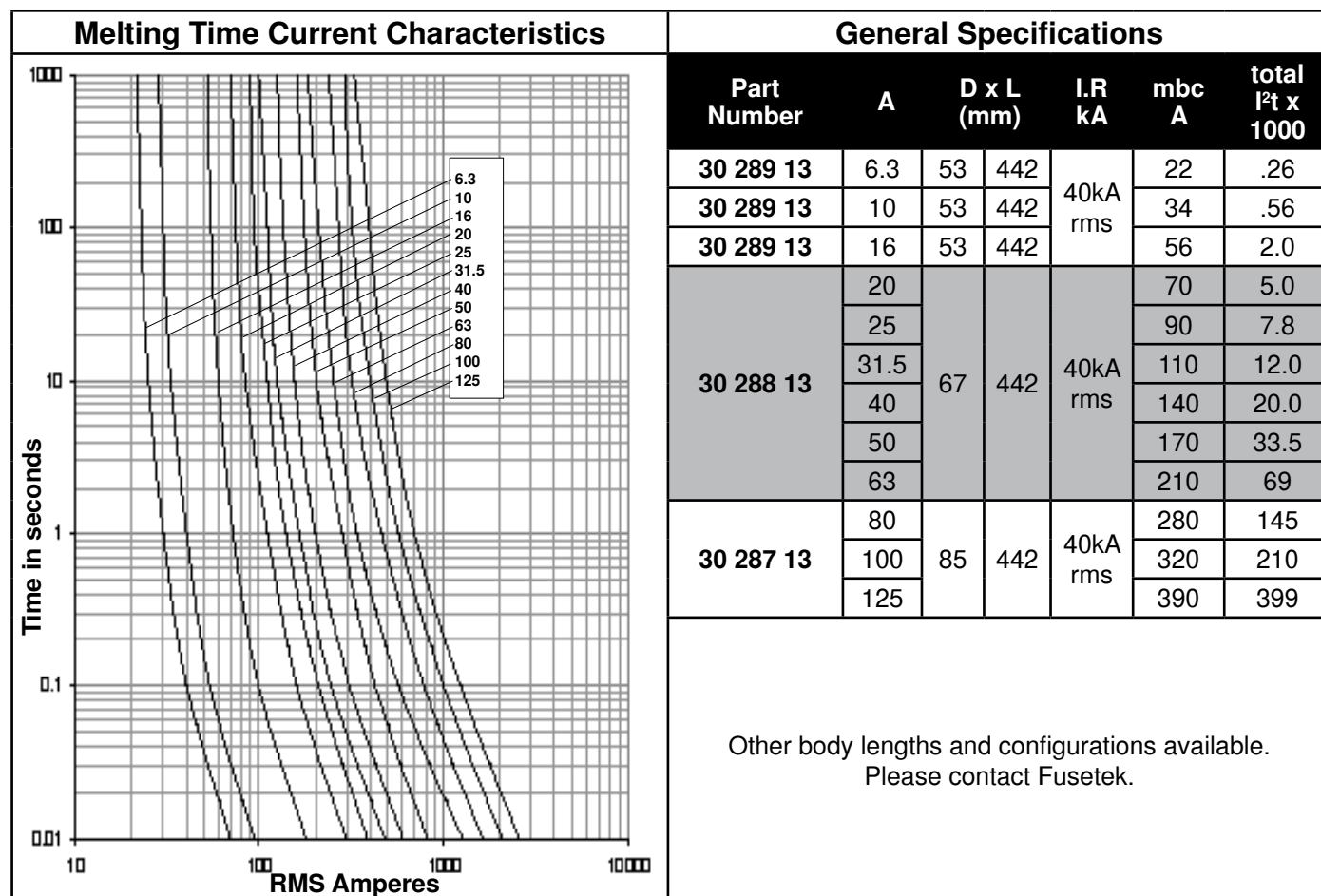


Minimum fuse for transformers rated 17.5kV or less

kVA	12.47kV	13.2kV	13.8kV	14.4kV
45	6.3A	6.3A	6.3A	6.3A
75	10A	10A	10A	6.3A
112.5	16A	16A	16A	10A
150	16A	16A	16A	16A
225	20A	20A	20A	20A
300	25A	20A	20A	20A
500	40A	40A	31.5A	31.5A
750	50A	50A	50A	50A
1000	63A	63A	63A	63A
1500	100A	100A	80A	80A
2000	125A	125A	100A	100A
2500	160A	125A	125A	125A
3000	200A	200A	200A	200A
4000	250A	250A	250A	250A
5000	315A	315A	315A	315A
6000	400A	400A	400A	315A
7000	400A	400A	400A	400A



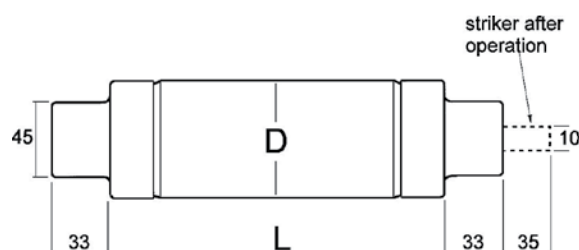
20/27.6kV



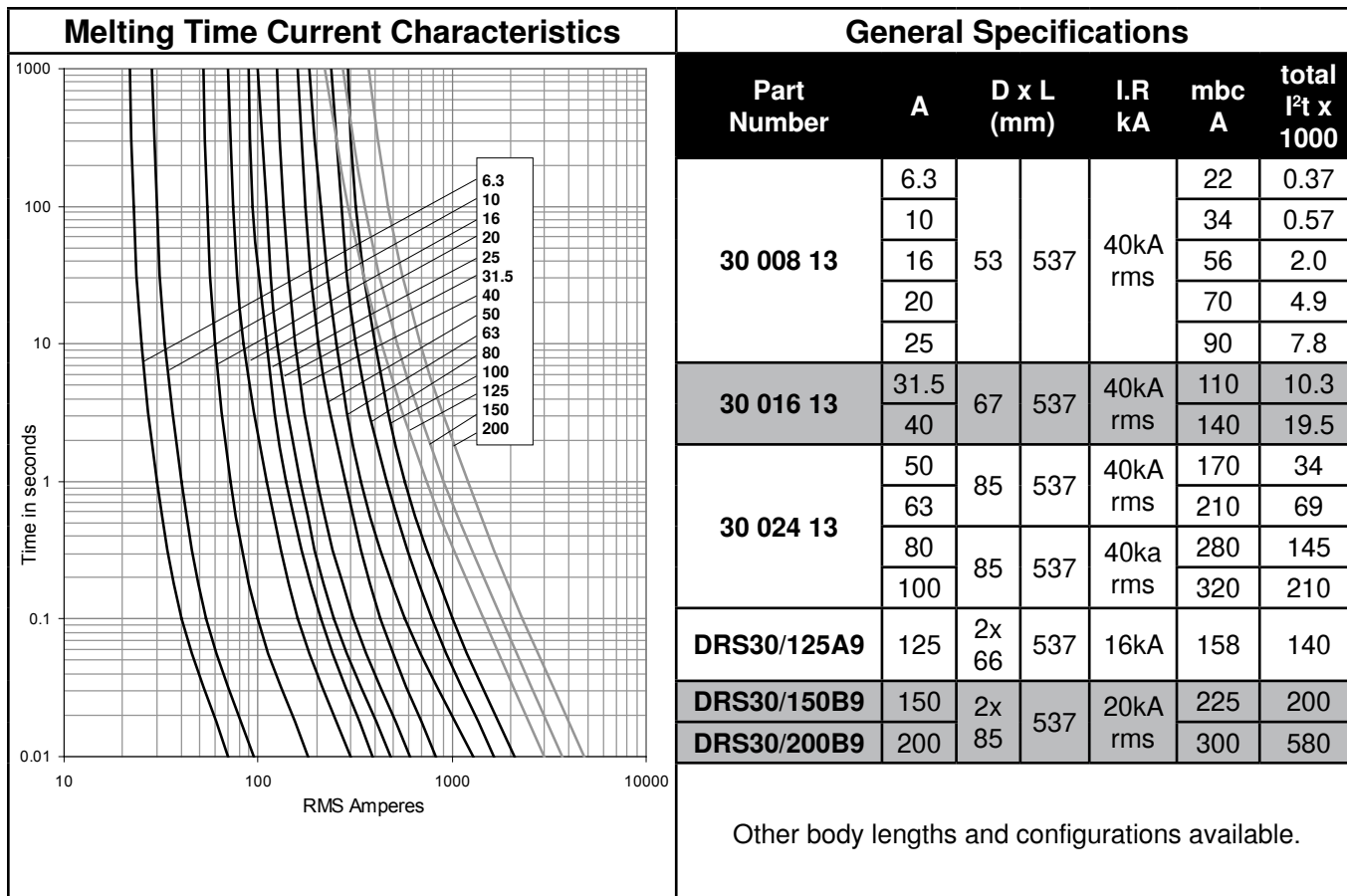
Fuse selection for transformers rated 25.8kV or less

kVA	17kV	23kV	24kV	25.8kV
112.5	10A	10A	10A	10A
150	16A	10A	10A	10A
225	20A	16A	16A	16A
300	20A	16A	16A	16A
500	25A	20A	20A	20A
750	40A	31.5A	31.5A	25A
1000	50A	40A	40A	40A
1500	80A	63A	63A	50A
2000	100A	80A	80A	63A
2500	125A	80A	80A	80A
3000	-	100A	100A	80A

Dimensions (mm)

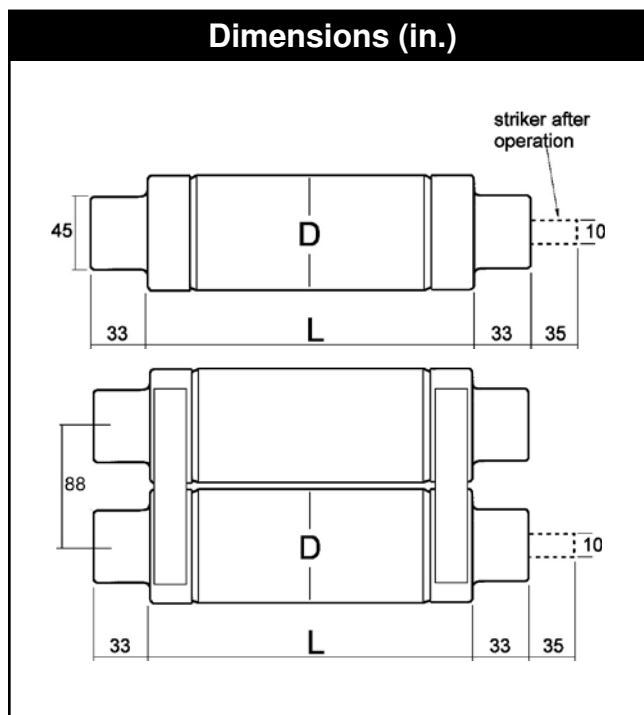


20/36kV

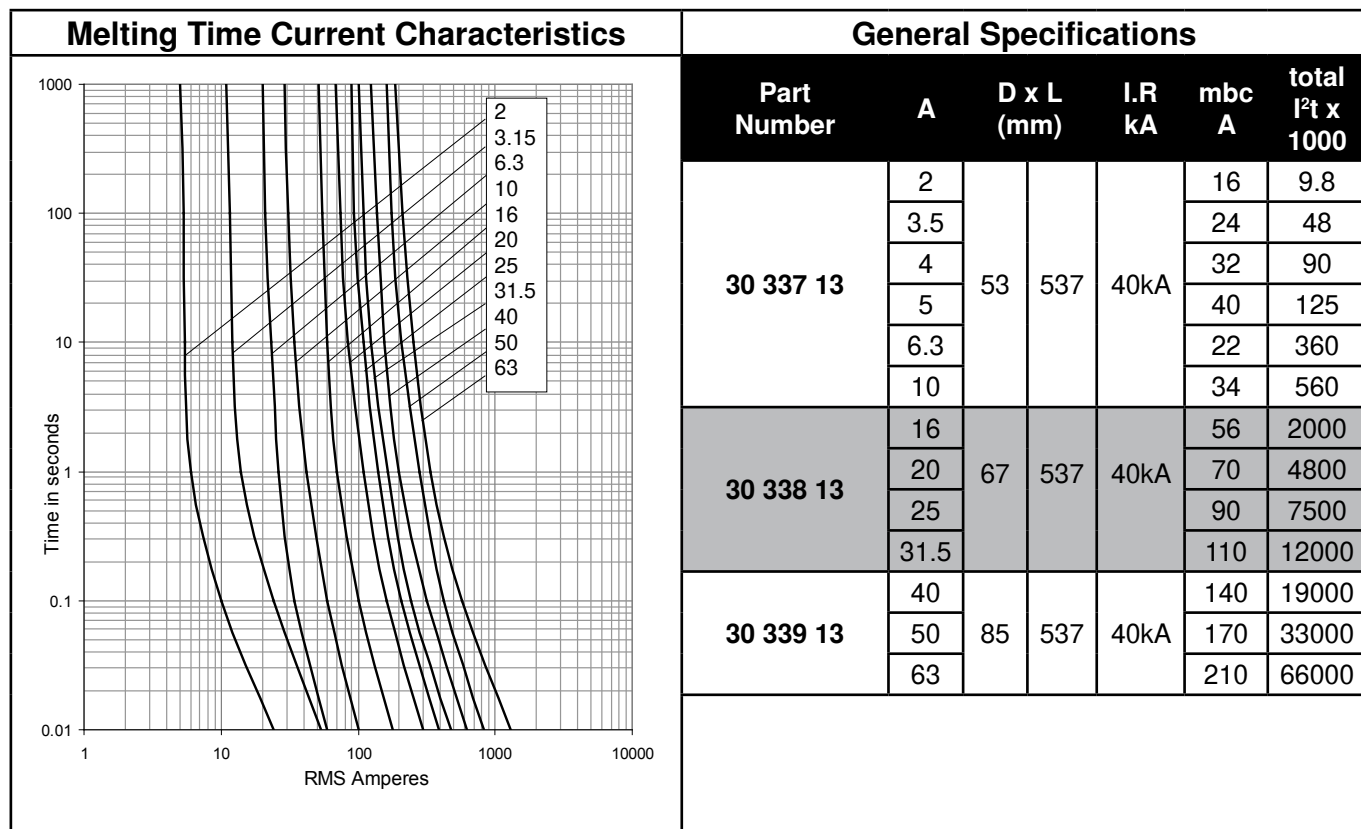


Fuse selection for transformers rated 36kV or less

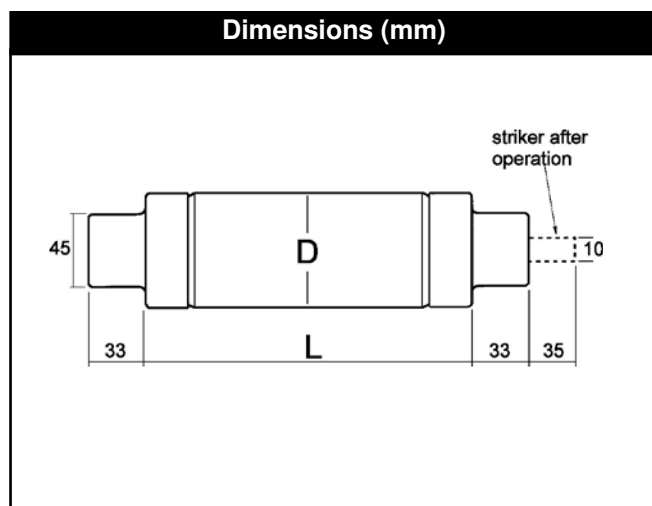
kVA	25.8kV	27.6kV	34.5kV	36kV
112.5	10A	6.3A	6.3A	6.3A
150	10A	10A	10A	6.3A
225	16A	16A	10A	10A
300	16A	16A	16A	16A
500	20A	20A	16A	16A
750	25A	25A	20A	20A
1000	40A	31.5A	25A	25A
1500	50A	50A	40A	40A
2000	63A	63A	50A	50A
2500	80A	75A	63A	63A
3000	80A	100A	75A	75A
4000	160A	125A	100A	100A
5000	200A	160A	125A	125A
6000	200A	200A	160A	160A
7000	250A	200A	200A	200A
10000	315A	315A	250A	250A

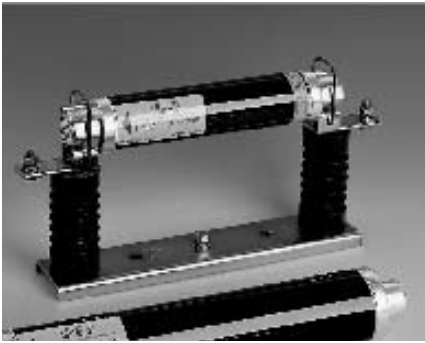


38kV



Fuse selection for transformers rated 38kV or less				
kVA	27.6kV	34.5kV	36kV	38kV
112.5	6.3A	6.3A	6.3A	4A
150	10A	10A	6.3A	6.3A
225	16A	10A	10A	10A
300	16A	16A	16A	16A
500	20A	16A	20A	20A
750	25A	20A	20A	20A
1000	31.5A	25A	25A	25A
1500	50A	40A	40A	40A
2000	63A	50A	50A	50A
2500		63A	63A	63A





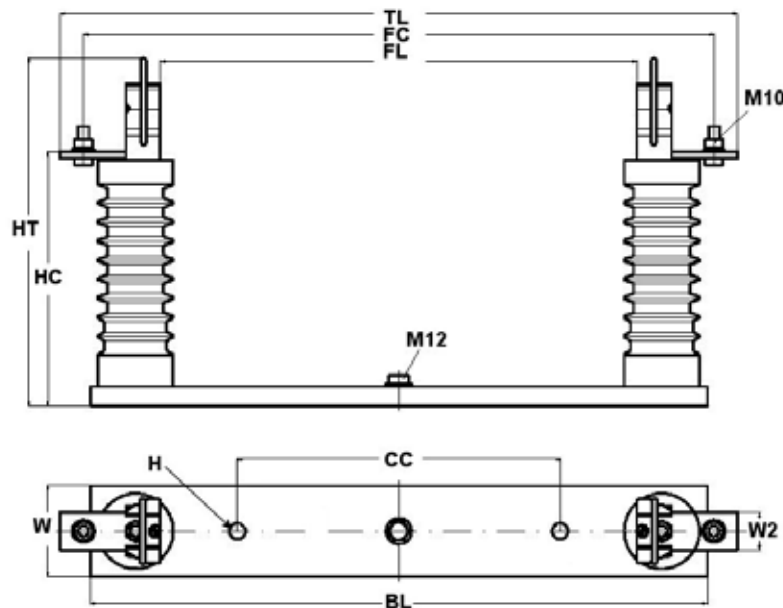
HV - 200A DIN fuse bases

SIBA single pole fuse bases are designed for indoor use and will accept standard DIN 43625 fuses.

Channel base is heavy duty zinc plated steel with epoxy resin standoff insulators and grounding provision.

Standard 200A clips are nickel plated with backup spring. 400A clips are optional.

These bases are available in outdoor versions also. Please contact Fusetek.



	p/n 31 001 02	p/n 31 003 02	p/n 31 005 02	p/n 31 007 02
max Voltage	7.2kV	12kV	24kV	36kV
Clip rating	200A	200A	200A	200A
DIN fuse length	192mm	292mm	442mm	537mm
Dimensions - in. (mm)				
BL	12.20 (310mm)	16.14 (410mm)	22.60 (574mm)	26.60 (676mm)
CC	2.17 (55mm)	7.10 (180mm)	11.80 (300mm)	14.96 (380mm)
H	0.60' (15mm)	0.60' (15mm)	0.60' (15mm)	0.60' (15mm)
FC	13.78 (350mm)	17.72 (450mm)	23.62 (600mm)	27.36 (695mm)
FL	7.60 (193mm)	11.54 (293mm)	17.44 (443mm)	21.18 (538mm)
HT	9.53 (242mm)	9.63 (242mm)	12.68 (322mm)	16.22 (412mm)
HC	6.14 (156mm)	6.14 (156mm)	9.30 (236mm)	12.83 (326mm)
TL	14.96 (380mm)	18.9 (480mm)	24.8 (630mm)	28.54 (725mm)
W	3.35 (85mm)	3.35 (85mm)	3.35 (85mm)	3.35 (85mm)
W2	1.38 (35mm)	1.38 (35mm)	1.38 (35mm)	1.38 (35mm)



TCCF 2.4/4.8kV Capacitor fuses

TCCF fuses are current-limiting, partial range fuse designed for the individual unit fusing of three phase capacitors in metal enclosed equipments. They are non-indicating and non-disconnecting.

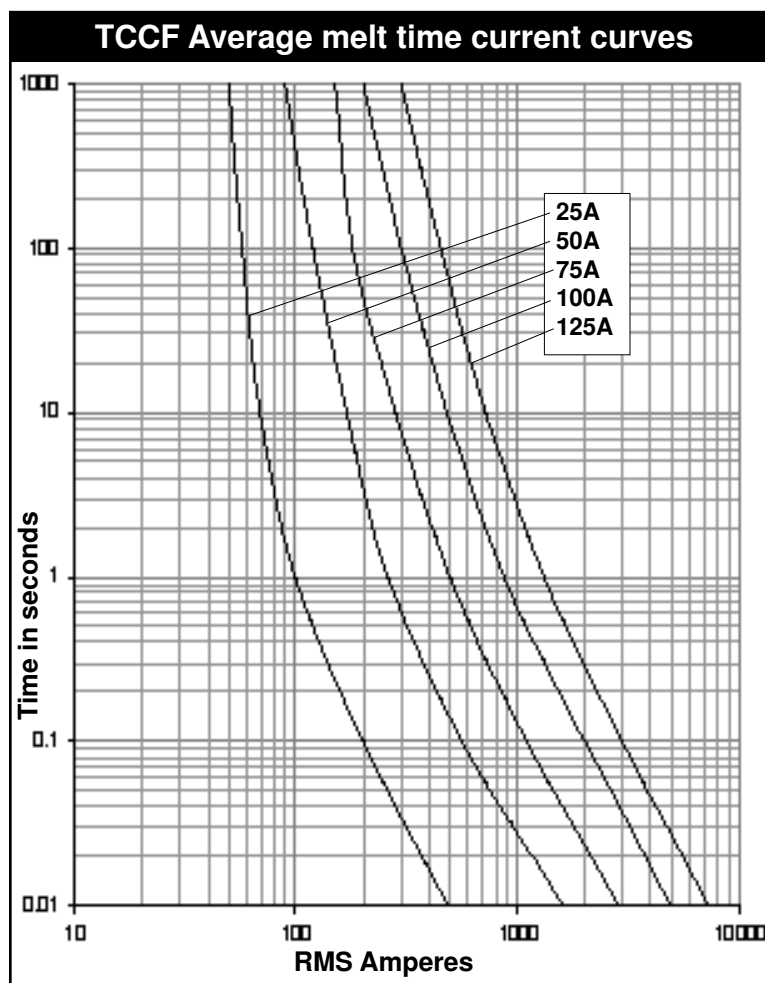
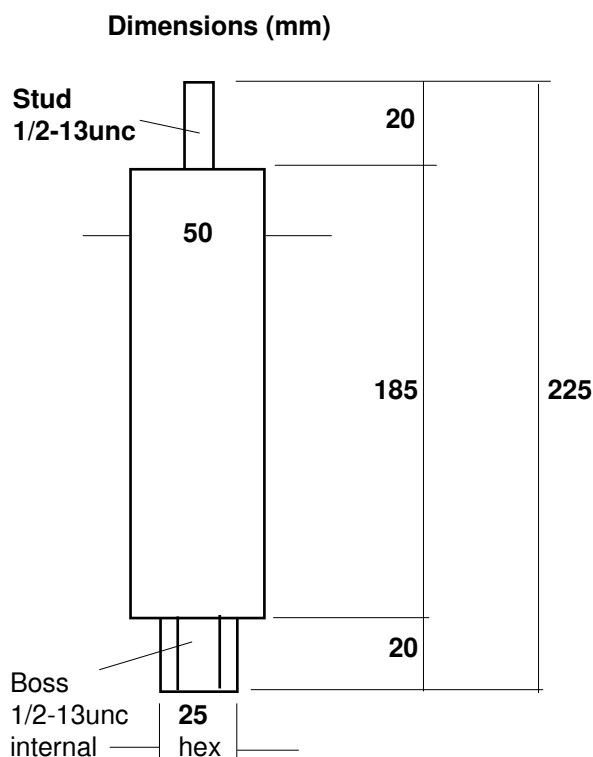
- Direct stud-mounting on 1/2-13 capacitor studs eliminates separate holder.
- replaces Westinghouse, GE and some McGraw fuses
- Adapters are available to convert to other stud threads

p/n example TCCF- 50

Ratings: 25, 50, 75, 100, 125
Vac: 25 - 75A 4.8kV
 100 - 125A 2.4kV
I.R: 50kA rms symm
m.b.c 200% of rating
Approvals: designed in accordance with ANSI 47.40

Application

Please refer to the fuse selection chart on page 27 of this publication.





SIBA 600V Capacitor fuses

SIBA capacitor fuses offer increased voltage and amp ratings for larger capacitor applications. They feature ceramic bodies and higher interrupting ratings. Imperial UNC thread pattern is standard. Metric styles also available.

Rated Voltage AC 4.8kV	Class Back up	Thread 1/2" UNC		Standard IEC 60 282-1 - IEC 60 549		
Rated Current	Part No.	D= Diameter inch	mm	Rated Breaking Capacity kA	Weight (kg/1)	Pack
6.3A	30 349 21	2.5	63.5	63	1.8	1
10A	30 349 21	2.5	63.5	63	1.8	1
16A	30 349 21	2.5	63.5	63	1.8	1
20A	30 349 21	2.5	63.5	63	1.8	1
25A	30 349 21	2.5	63.5	63	1.8	1
31.5A	30 349 21	2.5	63.5	63	1.8	1
40A	30 349 21	2.5	63.5	63	1.8	1
50A	30 349 21	2.5	63.5	63	1.8	1
63A	30 349 21	2.5	63.5	63	1.8	1
80A	30 349 21	2.5	63.5	63	1.8	1
100A	30 349 21	2.5	63.5	63	1.8	1
125A	30 350 21	2.99	76	63	2.5	1
160A	30 350 21	2.99	76	63	2.5	1
200A	30 351 21	2.99	76	63	3.6	1
250A	30 351 21	2.99	76	63	3.6	1

Rated Voltage AC 7.2kV	Class Back up	Thread 1/2" UNC		Standard IEC 60 282-1 - IEC 60 549		
Rated Current	Part No.	D= Diameter inch	mm	Rated Breaking Capacity kA	Weight (kg/1)	Pack
6.3A	30 352 21	2.5	63.5	63	1.8	1
10A	30 352 21	2.5	63.5	63	1.8	1
16A	30 352 21	2.5	63.5	63	1.8	1
20A	30 352 21	2.5	63.5	63	1.8	1
25A	30 352 21	2.5	63.5	63	1.8	1
31.5A	30 352 21	2.5	63.5	63	1.8	1
40A	30 352 21	2.5	63.5	63	1.8	1
50A	30 352 21	2.5	63.5	63	1.8	1
63A	30 352 21	2.5	63.5	63	1.8	1
80A	30 352 21	2.5	63.5	63	1.8	1
100A	30 352 21	2.5	63.5	63	1.8	1
125A	30 353 21	2.99	76	63	2.5	1
160A	30 353 21	2.99	76	63	2.5	1
200A	30 353 21	2.99	76	63	3.6	1



TFCF 600V Capacitor fuses

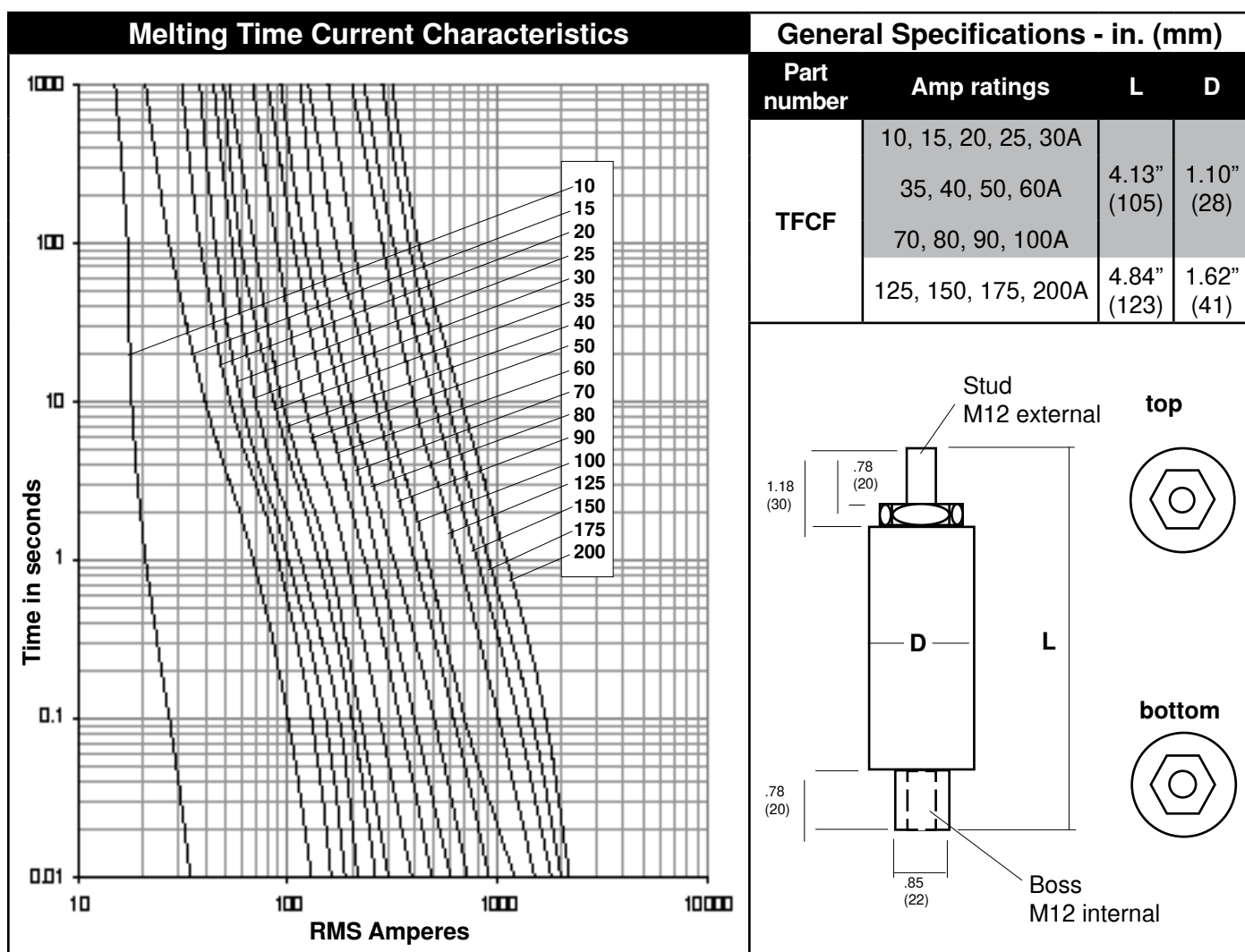
TFCF fuses are current limiting fuses designed for the unit fusing of 600v (or less) capacitors. They are threaded for M12 metric capacitor bushings, but may be adapted to other thread patterns with the adapters shown elsewhere in this publication.

- Metric threaded for direct screw on mounting to metric capacitor studs.
- Excellent short circuit performance.
- Fully plated metal parts for cooler running.

TFCF fuses should be selected at 250-300% of the nominal capacitor full load current or next nearest size up. If capacitor is installed in close proximity to other capacitor banks, or is switched frequently, select higher amp fuses within this range.



p/n example TFCF- 50

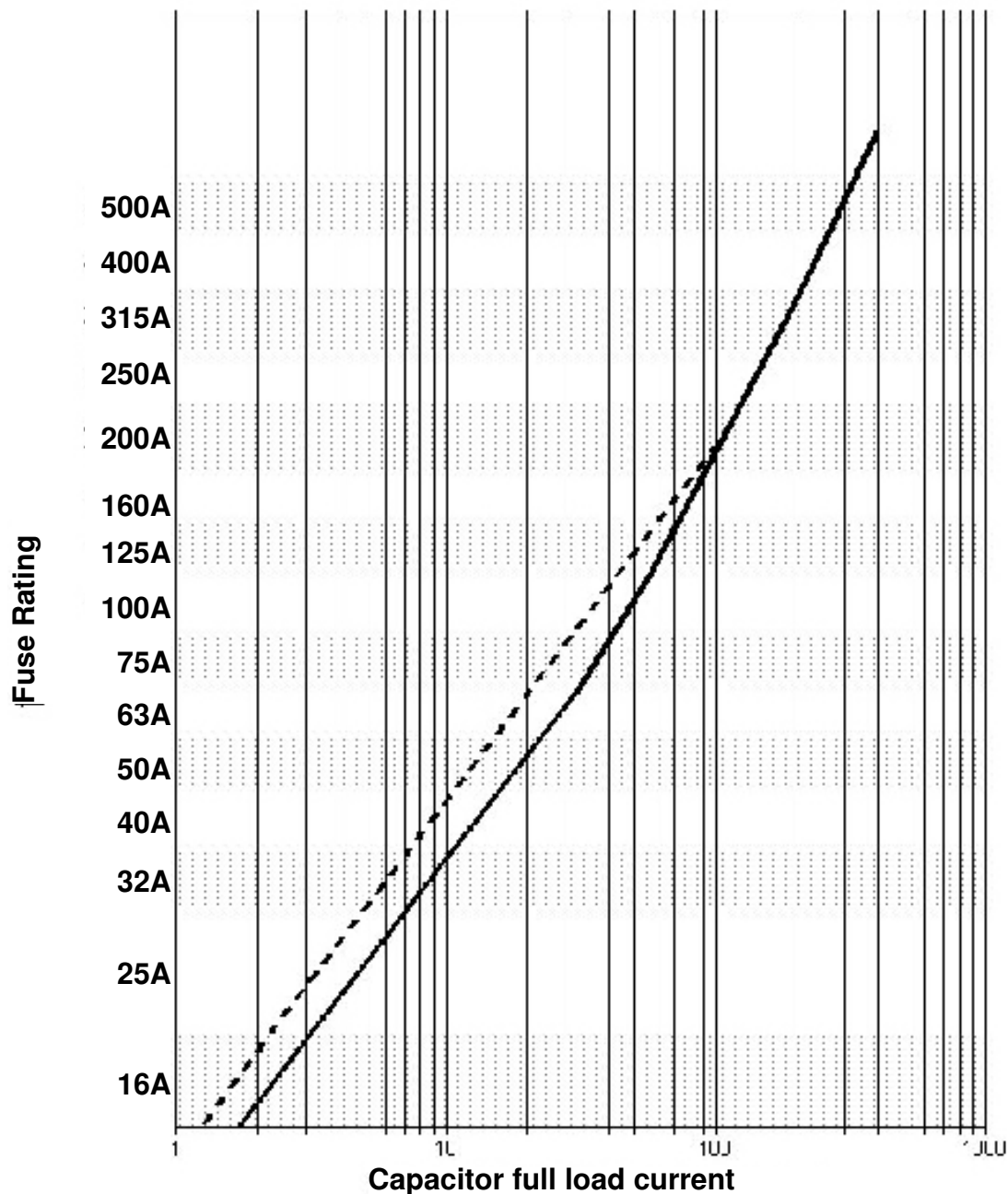




Fuse Selection chart for Capacitor fuses

Applicable for all current limiting fuses - high and low voltage. Use dotted line for single phase and star connections, solid line for delta connections. Above 100A, curves are identical.

For auto-switching, or switching in close proximity to other capacitor banks, multiply capacitor FLA x 1.6 before using scale at bottom. Read up from capacitor FLA scale at bottom to intersection of appropriate curve (star or delta). Fuse rating is whatever band intersection occurs in. Read fuse rating on left scale.



HV Expulsion cut-out fuselinks



Specifications

Voltage Rating: 7.2-34.5kV
Speeds K - fast
 T - slow

O/L Capacity 150% for both speeds
Amp Range: 1-200A
Approvals: complies with ANSI/NEMA
Ratings: 1, 2, 3, 6, 8, 10, 12, 15, 20, 25,
 30, 40, 50, 65, 70, 80, 100, 140, 200A

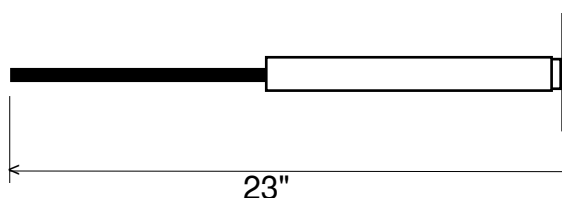
CHANCE

Description

Fusetek expulsion links are universal semi-enclosed buttonhead pattern fuse-links for use in standard expulsion distribution cut-outs.

They are available in 'K' (fast) or 'T' (slow) speed and have industry standard, removeable button heads. Their braided leads are tin-plated copper and of sufficient length for all standard voltage ratings encountered in the field.

Part Numbers		
Amps	K Speed	T Speed
1	M1KA23	M1TA23
2	M2KA23	M2TA23
3	M3KA23	M3TA23
6	M6KA23	M6TA23
8	M8KA23	M8TA23
10	M10KA23	M10TA23
12	M12KA23	M12TA23
15	M15KA23	M15TA23
20	M20KA23	M20TA23
25	M25KA23	M25TA23
30	M30KA23	M30TA23
40	M40KA23	M40TA23
50	M50KA23	M50TA23
65	M65KA23	M65TA23
80	M80KA23	M80TA23
100	M100KA23	M100TA23
140	M140KA23	M140TA23
200	M200KA23	M200TA23



Delle Fuse adapter kits

Delle Fuse p/n	KV Class	Delle Amp Range	Adapter kit p/n	SIBA part number	Std Din Body	comments
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Delle Standard DIN fuses

FD3	7.2kV	6.3-50A	not req'd	3009813 - 6.3A to 50A	292mm	Note: Delle body is 537mm ours is 442mm. Clips must be moved to accommodate shorter body.
		63 - 100A	not req'd	3009913 - 63A to 125A		
FD4	12kV	6.3-50A	not req'd	3000413 - 6.3A to 50A	292mm	
		63A	not req'd	3001213 - 63A		
		80-125A	not req'd	3010213 - 80A to 125A	442mm	
		160A	not req'd	3010313 - 160A		
FD5	17.5kV	6.3-40A	not req'd	3023113 - 6.3A to 40A	442mm	
		50-80A	not req'd	3023213 - 50A to 80A		
		100-125A	not req'd	3023313 - 100 to 160A	537mm	
FD6	24kV	6.3-16A	not req'd	3028913 - 6.3A to 16A	442mm	
		20A - 63A	not req'd	3028813 - 20A to 63A		
		80A	not req'd	3020413 - 80A	537mm	
FD7	36kV	6.3-25A	not req'd	3000813 - 6.3A to 25A	537mm	
		32-40A	not req'd	3001613 - 31.5 to 40A		
		50A	not req'd	3002413 - 50A		

Obsolete Delle fuses

FLR3	6.6kV	63-125A	FK101	3009913	292mm
	5.5kV	160A	FK101	3010013	
FLR4	10kV	160A	FK107	3010313	442mm
FLR5	15kV	63-80A	FK107	3023213	
	15kV	100-125A	FK107	3023313	
FLR7	25kV	63-100A	FK107	3002413	537mm
FLP2	5.5kV	160A	FK111	3010013	292mm
	5.5kV	200A	FK111	3010014	
	3.2kV	250A	FK111	3010014	
FLP3	6.6kV	160A	FK105	3011013	442mm
	6.6kV	200A	FK105	3011014	
	5.5kV	250A	FK105	3011014	
FLP6	20kV	63A	FK107	3028813	
	20kV	80-100A	FK107	3028713	
FTR3	6.6kV	2-10A	FK105	3009813	292mm
	6.6kV	16-50A	FK101	3009813	
FTR4	10kV	40-50A	FK107	3000413	442mm
FTR5	15kV	2-10A	FK105	3023113	
	15kV	16-32A	FK111	3023113	
	15kV	40A	FK107	3023113	
	15kV	50A	FK107	3023213	
FTR6	20kV	2-10A	FK111	3028913	
	20kV	16A	FK107	3028913	
	20kV	20-50A	FK107	3028813	
	20kV	16A	FK107	3028913	
	20kV	20-50A	FK107	3028813	
FTR7	30kV	2-10A	FK111	3000813	537mm
	30kV	16-25A	FK107	3000813	
	30kV	32-40A	FK107	3001613	
	30kV	50A	FK107	3002413	

Note: Adapter kits are length specific, do not sub shorter or longer body lengths.

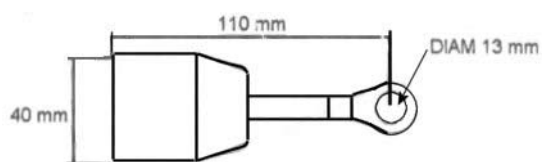


ZIPL75-B13 HV Indicator

The ZIPL-75 is a solid state device that signals the presence of system voltage by flashing an array of 3 high brightness LED's.

The ZIPL-75 works on the principle of capacitively coupling the device through air to ground, so there is no high voltage wiring or clearance issues.

- mounts directly to live parts
- flashing LED is easy to see.
- Solid state design for long life
- Compact dimensions
- No maintenance required
- One model does all service voltages



Voltage Rating	3Kv - 75kV phase to phase
Weight	50 grams
LEd array	White - 3 cluster high brightness
Mounting hole	max size M12 or 1/2-13unc
Body Material	glass filled polyester

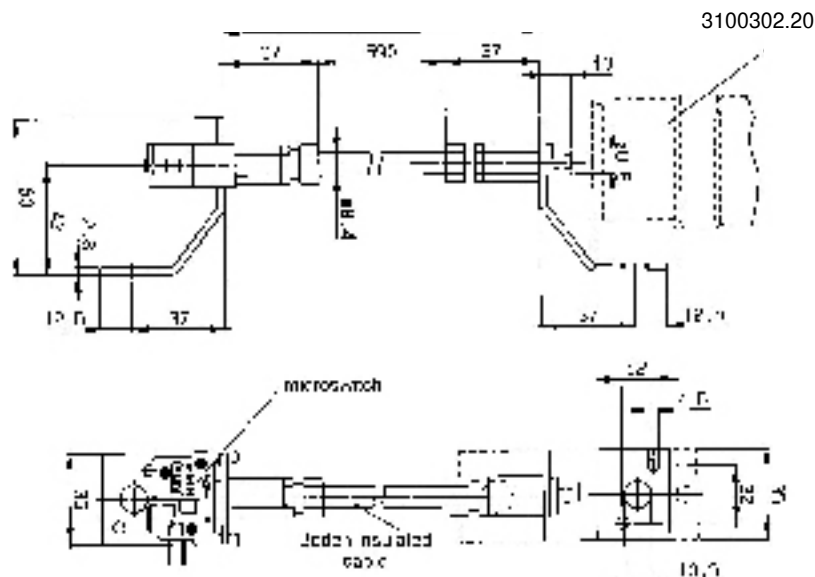
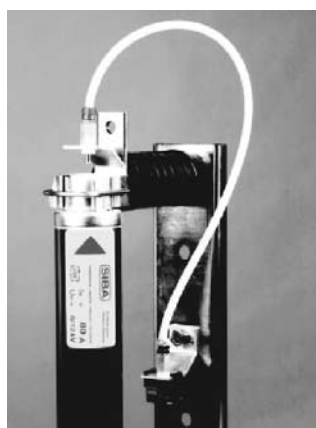
HV Indicators for remote signaling

Our microswitch assembly allows remote annunciation of fuse operation. It consists of an insulated Bowden cable operating a microswitch. One end of the cable is terminated in a bracket at the fuse end, the other terminating in a bracket that also houses the microswitch. The actuating force is provided by the fuse striker pin.

- Provide remote annunciation of fuse operation (per phase.)
- Easily adaptable to a variety of clip/fuse configurations.
- No maintenance required
- Standard Form C NO/NC contacts.

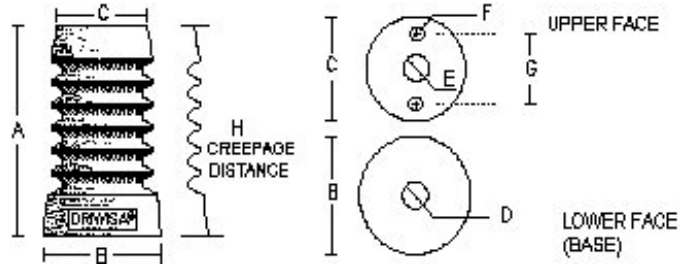
Insulation rating up to 36kV
Max cable length 590mm

Part Number 31 001 10



Epoxy resin insulators

Use our epoxy resin insulators for supporting busbar, mounting hardware or as mechanical standoffs. Rated for indoor use. Cover all popular voltage classes. Bolt pattern is directly compatible with our fuseclips listed at the end of this section.

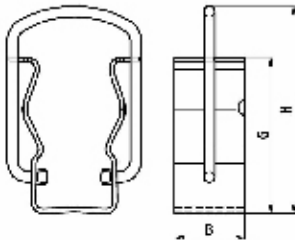


Cantilever Strength N			Dimensions - mm						
			A	B	C	D	E	F	G
DWA-07A	7.2	4000	100	60	60	1/2	3/8	1/4	115
DWA-15A	17.5	4000	165	75	57	5/8	3/8	1/4	230
DWA-20A	25.8	4000	210	82	57	5/8	3/8	1/4	290
DWA-30A	38.0	4000	300	100	71	5/8	3/8	1/4	430



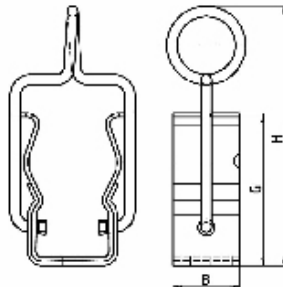
45mm DIN fuse clips

The DIN fuse system's best feature is its guaranteed interchangeability. Our 45mm fuse clips will fit any DIN 43 625 HV DIN fuse regardless of origin. In addition, our clips deliver high pressure contacts, a safety backup spring, and bolt directly to our epoxy insulators listed elsewhere. They are available in 200 and 400A variants. The 400A version has a 'hot stick' operable bailing spring.



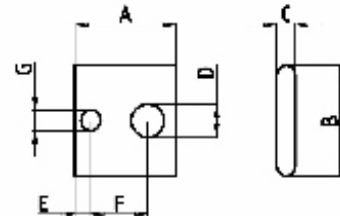
Part No.	
31 003 02.20	
B	1.26" (32mm)
G	2.80" (71.5mm)
H	3.74" (95mm)

31 003 02.20 (200A)



Part No.	
34 001 01.20	
B	1.26" (32mm)
G	2.90" (73.5mm)
H	4.92" (125mm)

34 001 02.20 (400A)



A	1.26" (32mm)
B	1.30" (35mm)
C	0.24" (6mm)
D	0.40" (10mm)
E	0.20" (5mm)
F	0.70" (18mm)
G	0.26" (6.5mm)

Bolt pattern for both

DW-820-13 1200A dual 45mm



Rating - 1200A
H - 92mm
W - 171mm
L - 82mm incl. tang
Mntg. holes -to fit our insulators.

DW-820-2 600A 45mm clip



Rating - 630A
H - 92mm
W - 80mm
L - 96.5mm incl. tang
mntg. holes - drilled to match our insulator bolt pattern.

FC3R - 3" spring clip



Rating - 600A
H - 4.5"
W - 4.3"
L - 1.5"
Mntg. holes - 2 x 3/8" holes, 2" apart on clip centerline.

PT156 - 1-9/16" spring clip



Rating - 200A
H - 95mm
W - 40mm
L - 32mm w/o tang
Mntg hole - 1 x 1/2" on clip centerline.
see below for tang info.

M164 - 1" spring clip



Rating - 60A
H - 1.30"
W - 1.12"
L - 0.625"
Mntg. hole - 0.26" on clip centerline.

Metric/UNC Adapter



Part No.	Stud	Receptacle
S13-R12	1/2-13 unc	M12
S38-R12	3/8-16 unc	M12
S12-R13	M12	1/2-13 unc
S12-R38	M12	3/8-16 unc

Extension for 3100302.20 & PT156

Use terminal tang when clip is mounted to non conducting support or alternate termination is required.

For use with PT156

part no. PT156-EXT



For use with 3100302.20

part no. 3100302.2



British semiconductor fuses (BS88)

These fuses are British dimension, ultra fast acting types for the protection of semiconductor devices such as diodes, rectifiers, SCR's, thyristors, ect..

They are used in electronic speed control devices such as soft-starts or inverters, in power conversion equipment, or anywhere where sensitive electronic components need protection.

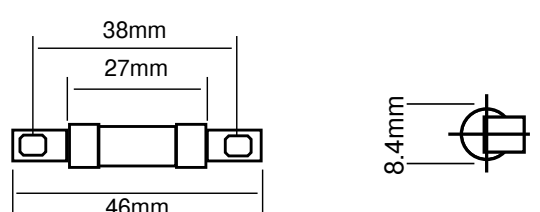
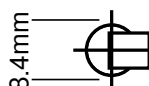
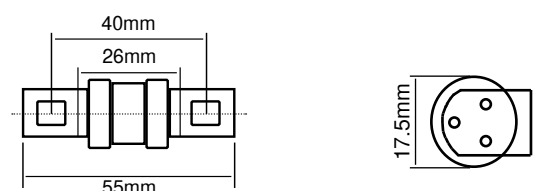
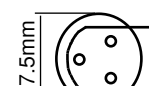
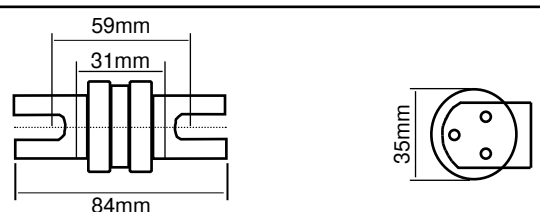
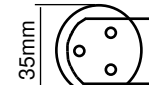
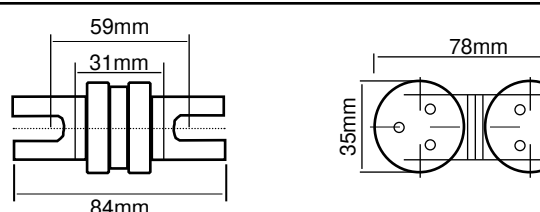
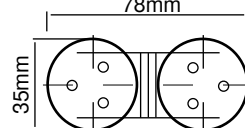
SIBA UR fuses have excellent energy let-thru characteristics under short circuit conditions.

Companion products

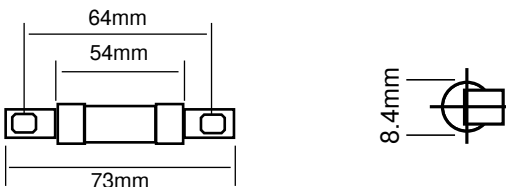
LSCR001 and LSCR002 stud mount fuseholders. Refer to Littelfuse PowrGard catalogue.



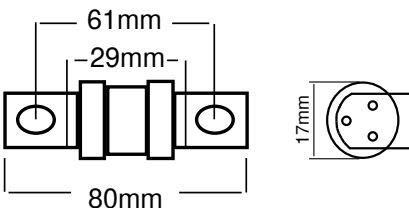
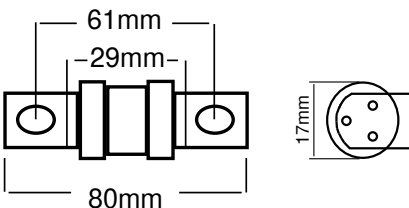
240Vac

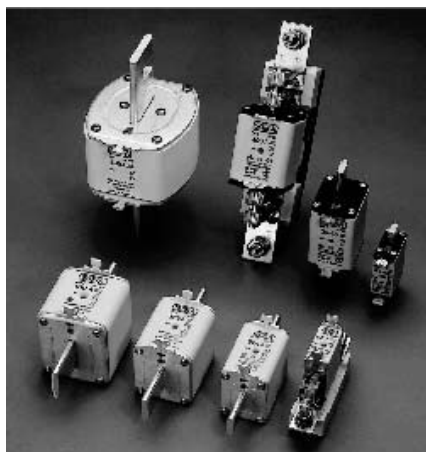
		Part Number	Amps	Watts Loss (W)	I ² t (A ² s) melting	I ² t (A ² s) total	I.R (rms symm)
		5007606	5	1.5	1.7	9.5	100kA
			6	1.7	2.9	16	
			10	3.3	4.2	24	
			12	2.0	8.0	41	
			16	2.4	18	92	
			20	3.3	25	130	
		5005306	25	3.6	39	260	100kA
			32	4.5	40	270	
			35	5.0	63	430	
			40	5.3	100	700	
			50	6.7	130	900	
			63	7.7	250	1700	
			75	9.4	330	2300	
			80	9.7	420	2900	
			100	12.7	620	4300	
			125	16	1000	6800	
			160	22	1500	10200	
		5005406	160	23	1300	8000	100kA
			200	27	2500	15300	
			250	34	4600	28000	
			315	36	7800	48000	
			355	38	11800	72000	
			400	40	18500	113000	
			450	46	26600	163000	
			400	55	10000	61000	
		5007106	450	56	19000	116000	100kA
			500	59	27000	165000	
			630	62	50000	305000	
			710	72	70000	427000	
			800	74	106000	647000	
			900	90	150000	915000	

690Vac

		Part Number	Watts Loss (W)	I2t (A2s) melting	I2t (A2s) total	I.R (rms symm)
5007706	6	3.2	3	20	100kA	
	10	3.7	8	53		
	12	3.9	11	77		
	16	5.5	18	120		
	20	7.5	32	215		
5007306	25	7	25	110	100kA	
	32	9	50	210		
	35	10	60	260		
	40	11	80	330		
	50	12	190	780		
	63	15	290	1200		
	80	18	420	1700		
	100	23	740	3100		
5007406	100	22	1000	6500	100kA	
	125	29	1700	11000		
	160	30	4000	26000		
	200	31	9000	58000		
	250	40	18000	116000		
	315	44	27000	173000		
	355	56	36000	231000		
5007506	315	48	18500	119000	100kA	
	355	55	22300	143000		
	400	58	26100	167000		
	450	63	52300	335000		
	500	68	70100	449000		
	630	87	106000	679000		
	710	104	145000	928000		
2055920	32	8	52	290	600V 300kA	
	35	9	66	360		
	40	10	90	500		
	50	12	140	770		
	63	14	250	1400		
	80	18	470	2600		
	100	22	730	4000		
	125	26	1300	7200	700V 200kA	
	160	21	2800	15400		
	180	35	3700	20400		
	200	39	4500	25000		
	250	47	8000	44000		
	315	58	14000	77000		

250Vac (Kyosan equals)

	Part Number	Amps	Watts Loss (W)	I ² t (A ² s) Total	I.R (rms symm)
	NAK	75	9	2300	100kA
		100	10	4300	
		125	14	6800	
		140	18	7200	
		160	20	10200	



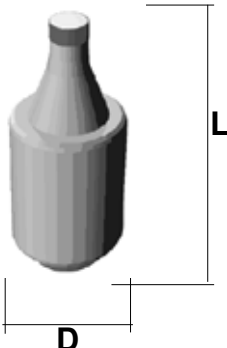
Eurofuses

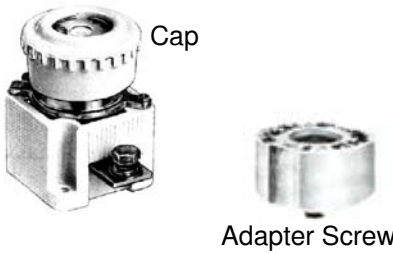
European fuses are used in imported equipment, or in projects destined overseas. Eurofuses are available in two broad categories - bottle fuses and square body fuses. Both categories have many different types within the group. See the individual tables. All European fuses are current and energy limiting.

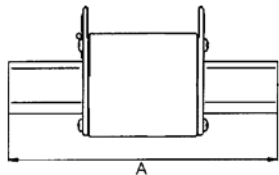
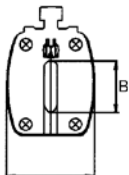
- Higher voltage rating insures compatible with Canadian voltage levels.
- Interchangeable with all imported makes.
- Built in blown fuse indicator.
- Current and energy limiting.

The following operating classifications are used for these fuses;

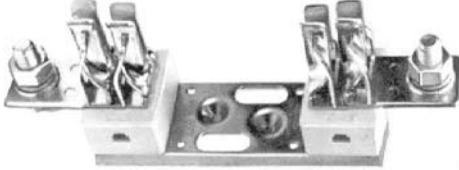
gL, gG, gT General purpose characterisitic for distribution
aM Back up characterisitic for motor circuits
aR/gR Ultrafast characterisitic for semiconductor circuits.

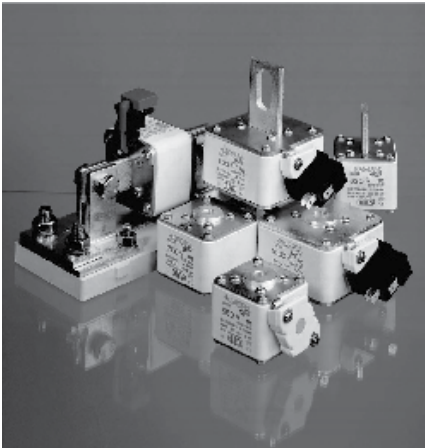
Type D Bottle fuses	General Specifications							
	Size	Part Number	Amp Range	D x L (mm)		Speed	Vac	I.R kA
	D01	Neozed	2-16A	11	36	gL	380V	100
	D02	Neozed	20-63A	15	36	gL	380V	
	D03	Neozed	80-100A	22	43	gL	380V	
	ND	1000204	2-25A	13	50	gT	500V	
	DII	D2gT	2-30A	22	50	gT	500V	
		D2gR	2-30A	22	50	gR	500V	
	DIII	D3gT	35-63A	28	50	gT	500V	
		D3gR	35-63A	28	50	gR	500V	
	DIVH	D4gT	80 - 100A	34	65	gT	500V	
	DVH	D5gT	125 - 200A	46	65	gT	500V	
DIII	1001101	2 - 63A	28	70	gG	750V		
Ratings Available: 2, 4, 6, 10, 16, 20, 25, 32, 35, 50, 63, 80, 100, 125, 160, 200A								

Accessories for bottle fuses	Part Numbers				
	Size	Thread pattern	Amp Rating	Base	Adapter Screw
	ND	E13	25	0038	DSC-1
	DII	E17	25	0039	DSC-2
	DIII	E33	63	0040	DSC-3
	DIVH	-	100	0041	DSC-4
	DVH	-	200	0042	DSC-5

'NH' Eurofuses		Size	speed	Part	Amperes	Vac	kA																											
DIN 43 620		Taille	vitesse	number																														
   <table border="1" data-bbox="215 1001 544 1323"><thead><tr><th>size taille</th><th>'A' mm</th><th>'B' mm</th><th>'C' mm</th></tr></thead><tbody><tr><td>'000'</td><td>78</td><td>15</td><td>20</td></tr><tr><td>'00'</td><td>78</td><td>15</td><td>29</td></tr><tr><td>'0'</td><td>125</td><td>15</td><td>29</td></tr><tr><td>'1'</td><td>135</td><td>20</td><td>46</td></tr><tr><td>'2'</td><td>150</td><td>26</td><td>56</td></tr><tr><td>'3'</td><td>150</td><td>32</td><td>66</td></tr></tbody></table>	size taille	'A' mm	'B' mm	'C' mm	'000'	78	15	20	'00'	78	15	29	'0'	125	15	29	'1'	135	20	46	'2'	150	26	56	'3'	150	32	66	'000'	gG	2045213	2, 4, 6, 10, 16, 20, 25, 32, 35, 40, 50A	690	120
	size taille	'A' mm	'B' mm	'C' mm																														
	'000'	78	15	20																														
	'00'	78	15	29																														
	'0'	125	15	29																														
	'1'	135	20	46																														
	'2'	150	26	56																														
	'3'	150	32	66																														
	'00'	gL	NH00gL	63, 80, 100, 125A	660	100																												
	'000'	gRL	2047734	16, 20, 25, 32 40, 50, 63, 80A	690	100																												
	'00'	gR	NH00gR	2, 4, 6, 10, 16, 63A 80, 100, 125, 160A	660	100																												
	'0'	gG	2021013	6, 10, 16, 20, 25A	690	120																												
		gL	NH0gL	32, 35, 50, 63A 80, 100, 125A	600	100																												
		gR	NH0gR	25, 32, 35, 50, 63A 80, 100, 125, 160A	660	100																												
		gR	2038404	16, 20, 25, 32, 40, 50A 63, 80, 100, 125, 160A	1000	100																												
'1'	gG	2021113	16, 20, 25, 32, 35, 50, 63A 80, 100, 125, 160, 200A 224, 250A	690	120																													
	gR	2021120	16, 20, 25, 32, 35, 40, 50, 63A 80, 100,	690	100																													
	aR	2021120	125, 160, 200, 224, 250, 315A																															
'2'	gG	2021213	35, 40, 50, 63, 80, 100, 125A 160, 224, 250, 315, 350, 400A	690 600	120																													
	aR	2021220	160, 200, 250, 315, 350, 400, 450A	660	100																													
'3'	gG	2021313	300, 315, 355, 400A 425, 450, 500A	690 600	120																													
	aR	2021320	315, 350, 400, 450, 500, 550, 630, 770A	690	100																													

size taille	'A' mm	'B' mm	'C' mm
'000'	78	15	20
'00'	78	15	29
'0'	125	15	29
'1'	135	20	46
'2'	150	26	56
'3'	150	32	66

'NH' Fuseholders Porte Fusibles 'NH'		Part number	Fuse Size Taille	# Poles	Max Amps
690 Vac					
	2100101	NH00/000	1	160A	
	2100103		3		
	2100204	NH0	1	160A	
	2100301	NH1	1	250A	
	2100303		3		
	2100401	NH2	1	400A	
	2100403		3		
	2100501	NH3	1	630A	
	2138401	NH0	1	160A	



DIN 43 625 Ultrafast

Square body rectifier fuses are used in large drives and power conversion equipment where larger amp ratings and superior short circuit performance are required. SIBA UR fuses are fully compatible with other manufacturers' fuses.

- Integral blown fuse indicator and microswitch bracket
- extremely low levels of energy let-thru
- N. American and European pattern dimensions
-  approved

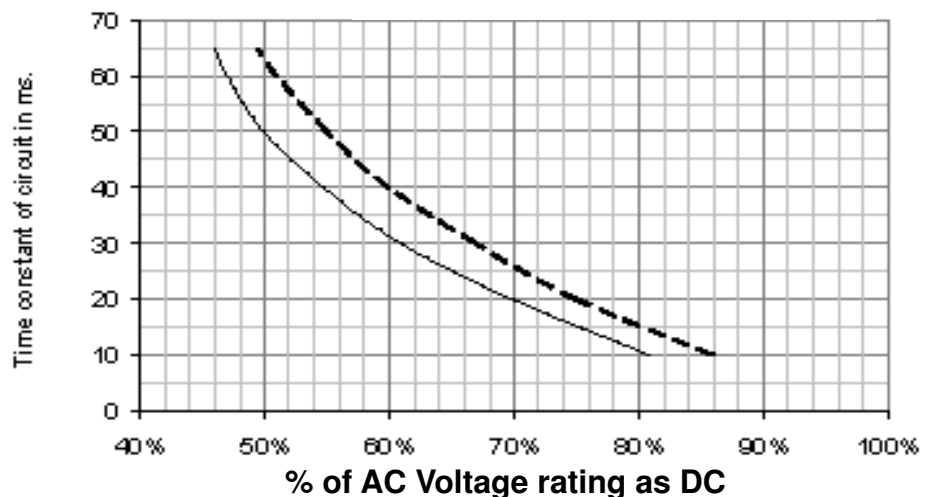
DIN 43625 fuses come in 5 case sizes - 000, 00, 1, 2, & 3. Within these case sizes - UR fuses come in two voltage ratings (700 & 1300Vac) and two fixing centers (80 and 110mm). These fuses can easily be fitted with a microswitch for remote annunciation, or may be used without this option.

DC Application

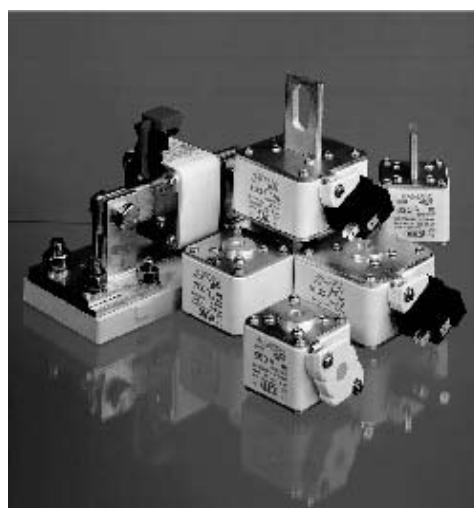
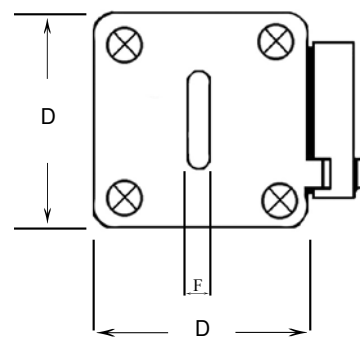
URS series fuses can be used on DC circuits with voltage levels dictated by the time constant of the circuit (I/r) is known. Shorter time constants are easier duty on the fuse and so higher DC voltages can be tolerated. Usually, time constants are 20ms or less.

Refer to the chart at right to get the equivalent working DC voltage once the time constant is known.

DC de-rating factors

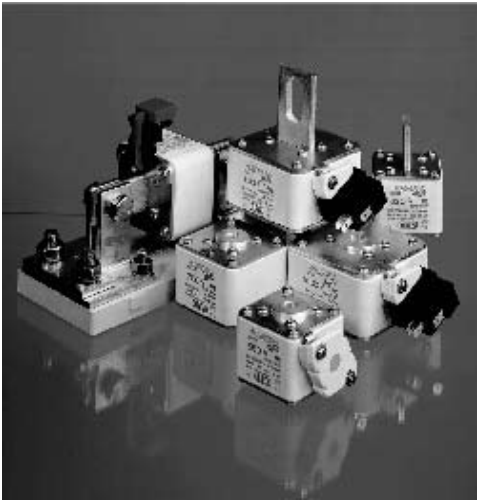


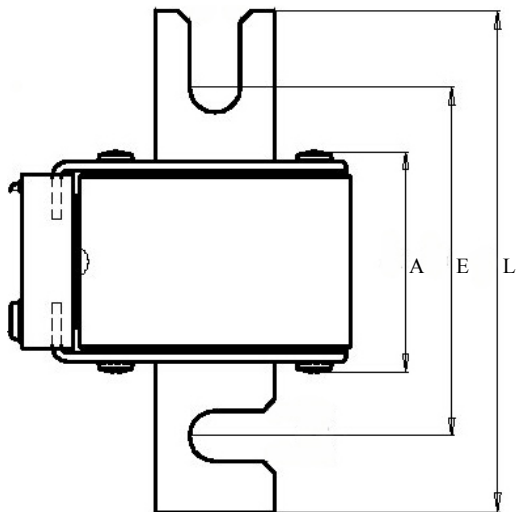
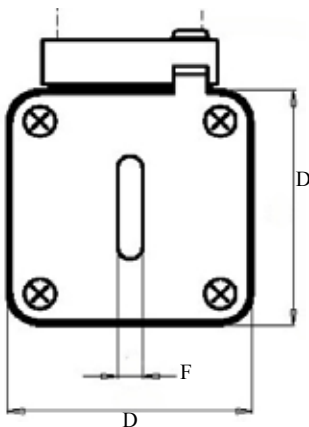
	000 & 00	SBQ1	SBQ2	SBQ3
Dotted Curve	<=250A	<=250A	<=400A	<=630A
Solid Curve	>250A	>250A	>400A	>630A

N.A Pattern SQB 1 - 3 with tags		Size Taille	Vac	I.R rms	Part number	Amperes
 	SQB1 D80	700	200	2061632	63, 80, 100, 125, 160, 200, 250, 315, 350, 400, 450, 500, 550, 630, 700, 800A	
		690			900A	
	SQB2 D80	700	200	2062632	400, 450, 500, 550, 630, 700, 800, 900, 1000A	
		600			1100, 1250A	
	SQB3 D80	700	200	2063632	500, 550, 630, 700, 800, 900, 1000, 1100, 1250, 1400A	
		600			1500, 1600A	
	SQB1 D110	700	200	2061832	63, 80, 100, 125, 160, 200, 250, 315, 350, 400, 450, 500, 550, 630, 700, 800A	
		600			900A	
	SQB2 D110	700	200	2062832	400, 450, 500, 550, 630, 700, 800, 900, 1000A	
		600			1100, 1250A	
	SQB3 D110	700	200	2063832	500, 550, 630, 700, 800, 900, 1000, 1100, 1250, 1400A	
		600			1500, 1600A	
	SQB1 D110	1300	100	2071832	63, 80, 100, 125, 160, 200, 250, 280, 315, 350, 400, 450A,	
		1200			500, 550, 630A	
	SQB2 D110	1300	100	2072832	250, 280, 315, 350, 400, 450, 500, 550A	
		1200			630, 700A	
		1100			800A	
	SQB3 D110	1300	100	2073832	315, 350, 400, 450, 500, 550, 630, 700, 800, 900A	
		1000			1000, 1100A	
		900			1250, 1400A	
						

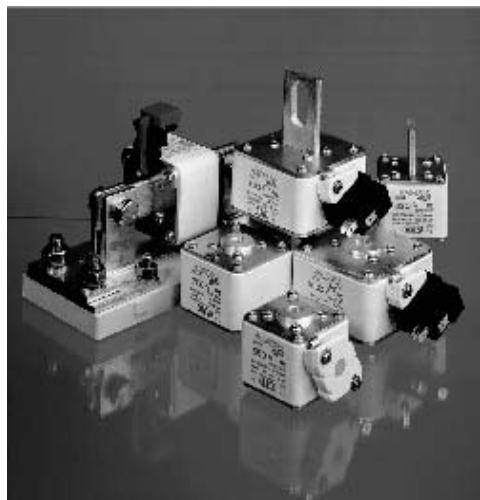
SQB

		N.A dimensions (mm)							
Size Taille	DIN	Part no.	L	A	EI	E2	D	F	
1	80mm	2061632	134	47.5	109	68	51	6	
	110mm	2061832	154	47.5	128	94	51	6	
2	80mm	2062632	134	47.5	109	73	60	6	
	110mm	2062832	154	47.5	128	94	60	6	
3	80mm	2063632	134	49.0	109	75	73	6	
	110mm	2063832	154	49.0	128	94	73	6	
1		2071832	157	70.5	132	96	51	6	
2		2072832	157	70.5	132	96	60	6	
3		2073832	157	70.5	132	98	73	6	

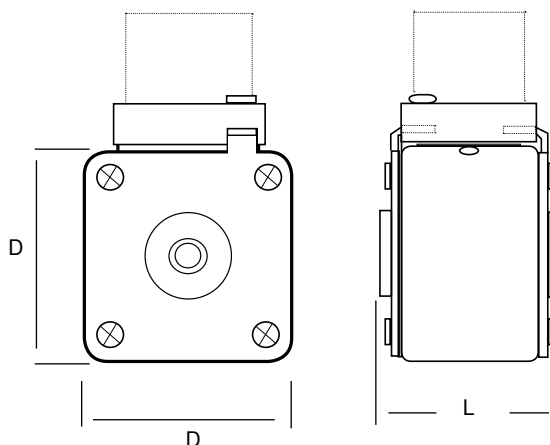
EURO Pattern SQB 1 - 3 with tags						Size Taille	Vac	I.R rms	Part number	Amperes
						SQB1 D80	700	200	2061232	63, 80, 100, 125, 160, 200, 250, 315, 350, 400, 450, 500, 550, 630, 700, 800A,
							600	200		900A
						SQB2 D80	700	200	2062232	400, 450, 500, 550, 630, 700, 800, 900, 1000A
							600			1100, 1250A
						SQB3 D80	700	200	2063232	500, 550, 630, 700, 800, 900, 1000, 1100, 1250, 1400A,
							600			1500, 1600A
						SQB1 D110	660	200	2061532	63, 80, 100, 125, 160, 200, 250, 315, 350, 400, 450, 500, 550, 630, 700, 800, (900A@600V)
						SQB2 D110		200	2062532	400, 450, 500, 550, 630, 700, 800, 900, 1000, 1100, 1250A
						SQB3 D110		200	2063532	500, 550, 630, 700, 800, 900, 1000, 1100, 1250, 1400, 1500, 1600A
						SQB1 D110	1250	100	2071532	50, 63, 80, 100, 125, 160, 200, 250, 280, 315, 350, 400, 450A
							1200			500, 550, 630
						SQB2 D110	1250		2072532	250, 280, 315, 350, 400, 450, 500, 550, 630A
							1200			700A, (800A @1100V)
						SQB3 D110	1250		2073532	315, 350, 400, 450, 500, 550, 630, 700, 800, 900A
							1000			1000, 1100A
							900			1000, 1250, 1400A



Size Taille SQB	DIN	Part no.	Dimensions (mm)				
			L	A	E	D	F
SQB1	80mm	2061232	110	47.5	76	51	6
	110mm	2061532	134	47.5	106	51	6
SQB2	80mm	2062232	110	47.5	76	60	6
	110mm	2062532	134	47.5	106	60	6
SQB3	80mm	2063232	110	49	76	73	6
	110mm	2063532	134	49	106	73	6
SQB1	110mm	2071532	138	70.5	106	73	6
SQB2	110mm	2072532	138	70.5	106	73	6
SQB3	110mm	2073532	138	70.5	106	73	6

N.A & Euro SQB 1-3 face mount		Size Taille	Vac	I.R rms	Part number	Amperes		
 		North American Pattern - UNC threads						
		SQB1	700	200	2066432	63, 80, 100, 125, 160, 200A 250, 315, 350, 400, 450, 500A 550, 630, 700, 800A		
			600			900A		
		SQB2	700	200	2067432	400, 450, 500, 550, 630, 700, 800, 900, 1000A		
			600			1100, 1250A		
		SQB3	700	200	2068432	500, 550, 630, 700, 800, 900A 1000, 1100, 1250, 1400A		
			600			1500, 1600A		
		SQB1	1300	100	2076432	50, 63, 80, 100, 125, 160, 200A 250, 315, 350, 400, 450A		
			1200			500, 550, 630A		
		SQB2	1300	100	2077432	250, 280, 315, 350, 400, 550, 500, 550, 630A		
			1200			700A, (800A @ 1100V)		
		SQB3	1300	100	2078432	315, 350, 400, 450, 500, 550, 630, 700, 800, 900A		
			1000			1000, 1100, (1250, 1400A @ 900V)		
		European Pattern - Metric threads						
		SQB1	660	200	2066132	63, 80, 100, 125, 160, 200A 250, 315, 350, 400, 450, 500A 550, 630, 700, 800A		
			600			900A		
		SQB2	660	200	2067132	400, 450, 500, 550, 630, 700, 800, 900, 1000A		
			600			1100, 1250,		
		SQB3	660	200	2068132	500, 550, 630, 700, 800, 900A 1000, 1100, 1250, 1400A		
			600			1500, 1600A		
		SQB1	1250	100	2076132	50, 63, 80, 100, 125, 160, 200A 250, 280, 315, 350, 400, 450A		
			1200			500, 550, 630A		
		SQB2	1250	100	2077132	250, 280, 315, 350, 400, 450A 500, 550, 630A		
			1200			700A, (800A @ 1100V)		
		SQB3	1250	100	2078132	315, 350, 400, 450, 500, 550, 630A 700, 800, 900A		
			1000			1000, 1100A, (1250, 1400A @900V)		

Size Taille SQB	Vac	Part no.	Dimensions (mm)		
			D	L	Thread
1	700	2066432	51	50.5	5/16-18unc
		2066132	51	50.5	M8
2		2067432	60	50.5	3/8-16 unc
		2067132	60	50.5	M10
3		2068432	73	50.5	1/2-13unc
		2068132	73	50.5	M12)
1	1300	2076432	51	73.5	5/16-18unc
		2076132	51	73.5	M8
2		2077432	60	73.5	3/8-16unc
		2077132	60	73.5	M10
3		2078432	73	73.5	1/2-13unc
		2078132	73	73.5	M12



Electrical Characteristics 600-690/700V SQB 1 - 3 Operating class "aR"

Body Size	Amp rating	IEC voltage (Vac)	UL voltage (Vac)	Power Loss (W)	Pre-arcing 1 ² t (A ² s)	Total I ² t 600V A ² s
SQB1	63	690	700	19	160	850
	80	690	700	24	260	1400
	100	690	700	30	420	2300
	125	690	700	35	600	3100
	160	690	700	40	1400	7500
	200	690	700	44	2400	13000
	250	690	700	51	3700	21000
	315	690	700	59	6600	39000
	350	690	700	61	9900	55000
	400	690	700	65	17000	96000
	450	690	700	70	22000	130000
	500	690	700	72	31000	180000
	550	690	700	75	41000	250000
	630	690	700	80	61000	370000
	700 *	690	700	85	86000	490000
	800 *	690	700	99	120000	750000
	900 *	690	700	105	170000	990000
* TESTED AT 1.05 X U _N						
	Amp rating	IEC voltage (Vac)	UL voltage (Vac)	Power Loss (W)	Pre-arcing 1 ² t (A ² s)	Total I ² t 600V A ² s
SQB2	400	690	700	65	13000	75000
	450	690	700	75	18000	110000
	500	690	700	80	26000	150000
	550	690	700	85	36000	195000
	630	690	700	94	55000	300000
	700	690	700	99	74000	410000
	800	690	700	108	100000	580000
	900 *	690	700	111	170000	950000
	1000 *	690	700	115	230000	1260000
	1100 *	600	600	130	290000	1600000
	1250 *	600	600	140	370000	2140000
* TESTED AT 1.05 X U _N						
	Amp rating	IEC voltage (Vac)	UL voltage (Vac)	Power Loss (W)	Pre-arcing 1 ² t (A ² s)	Total I ² t 600V A ² s
SQB3	500	690	700	90	18000	100000
	550	690	700	100	22000	130000
	630	690	700	108	31000	190000
	700	690	700	113	50000	300000
	800	690	700	118	85000	480000
	900	690	700	120	115000	660000
	1000	690	700	131	140000	860000
	1100 *	690	700	136	210000	1200000
	1250 *	690	700	147	290000	1750000
	1400 *	690	700	161	380000	2200000
	1500 *	600	600	170	490000	3000000
	1600 *	600	600	190	590000	3700000

TESTED AT 1.05 X U_N

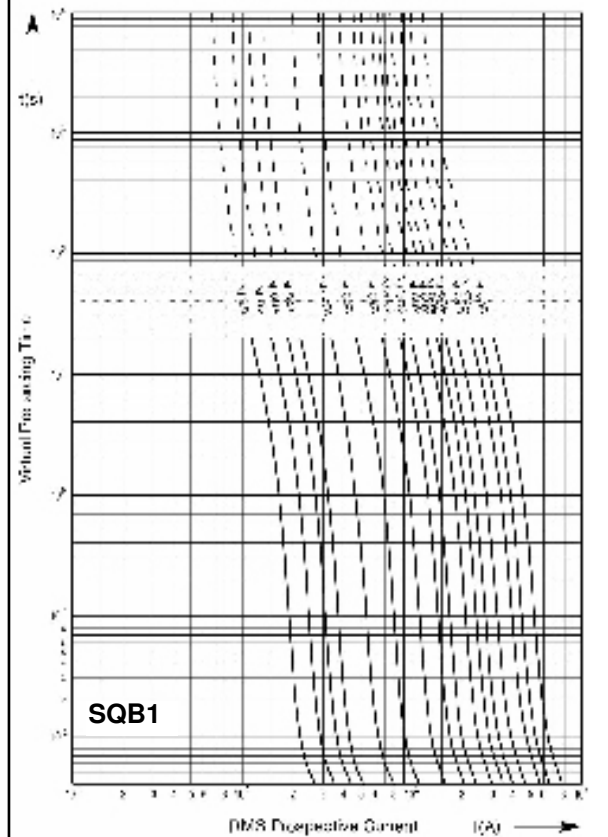
Electrical Characteristics 900-1250/1300 SQB 1 - 3 Operating class "aR"

Body Size	Amp rating	IEC voltage (Vac)	UL voltage (Vac)	Power Loss (W)	Pre-arcing 1 st (A ² s)	Total I ² t @1000V A ² s
SQB1	50	1250	1300	29	130	730
	63	1250	1300	32	250	1400
	80	1250	1300	35	410	2300
	100	1250	1300	38	930	5200
	125	1250	1300	41	1400	7800
	160	1250	1300	45	2500	14000
	200	1250	1300	49	4600	25000
	250	1100	1200	58	8400	46000
	280	1250	1300	60	12500	64000
	315	1250	1300	67	15000	81000
	350	1250	1300	70	22000	120000
	400	1250	1300	75	36000	200000
	450	1250	1300	80	44000	250000
	500	1100	1200	87	66000	340000
	550	1100	1200	94	83000	430000
	630	1100	1200	99	126000	670000
	Amp rating	IEC voltage (Vac)	UL voltage (Vac)	Power Loss (W)	Pre-arcing 1 st (A ² s)	Total I ² t @1000V A ² s
SQB2	250	1250	1300	55	8200	45000
	280	1250	1300	59	9900	56000
	315	1250	1300	66	14000	78000
	350	1250	1300	71	20000	110000
	400	1250	1300	75	31000	170000
	450	1250	1300	80	42000	240000
	500	1250	1300	90	56000	310000
	550	1100	1300	105	71000	350000
	630	1250	1300	110	105000	540000
	700	1100	1200	115	148000	710000
	800	1100	1100	123	225000	1180000
	Amp rating	IEC voltage (Vac)	UL voltage (Vac)	Power Loss (W)	Pre-arcing 1 st (A ² s)	Total I ² t @1000V A ² s
SQB3	315	1250	1300	83	11000	60000
	350	1250	1300	85	15000	90000
	400	1250	1300	92	22000	130000
	450	1250	1300	99	33000	190000
	500	1250	1300	110	42000	230000
	550	1250	1300	115	56000	320000
	630	1250	1300	120	83000	480000
	700	1250	1200	131	113000	640000
	800	1250	1300	135	201000	1070000
	900	1200	1300	140	236000	1300000
	1000	1000	1000	150	350000	1900000
	1100	1000	1000	174	443000	2400000
	1250	900	-	198	652000	3300000
	1400	900	-	210	852000	3900000

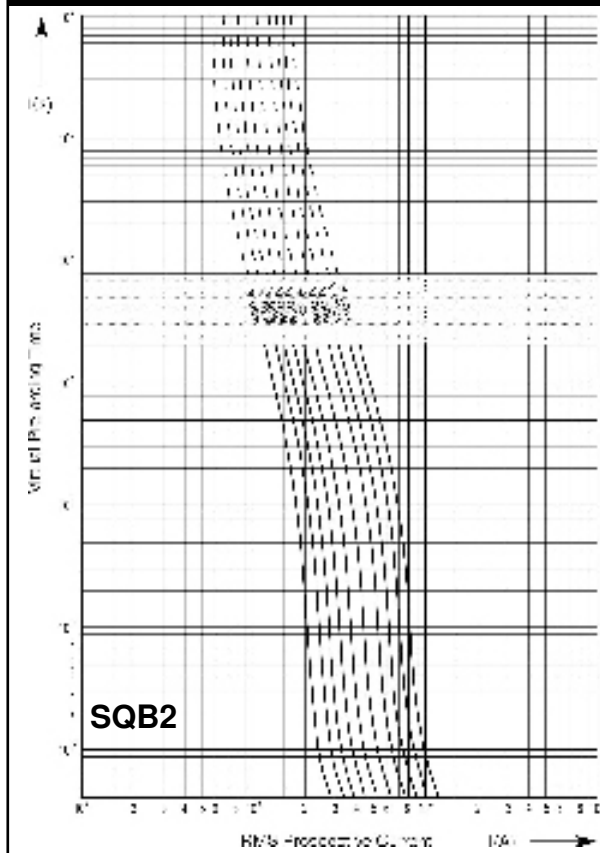


Time Current Curves for 600-690/700V SQB 1-3

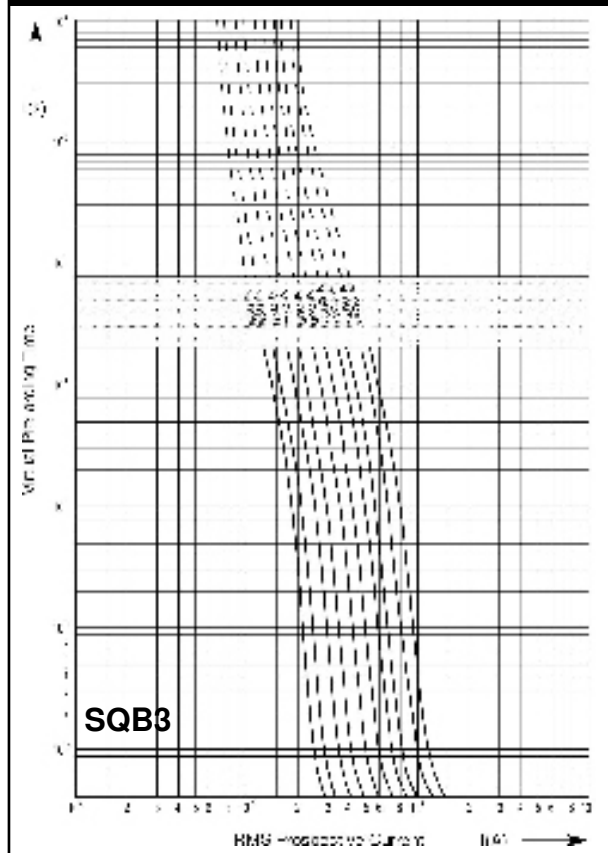
Time Current Characteristics



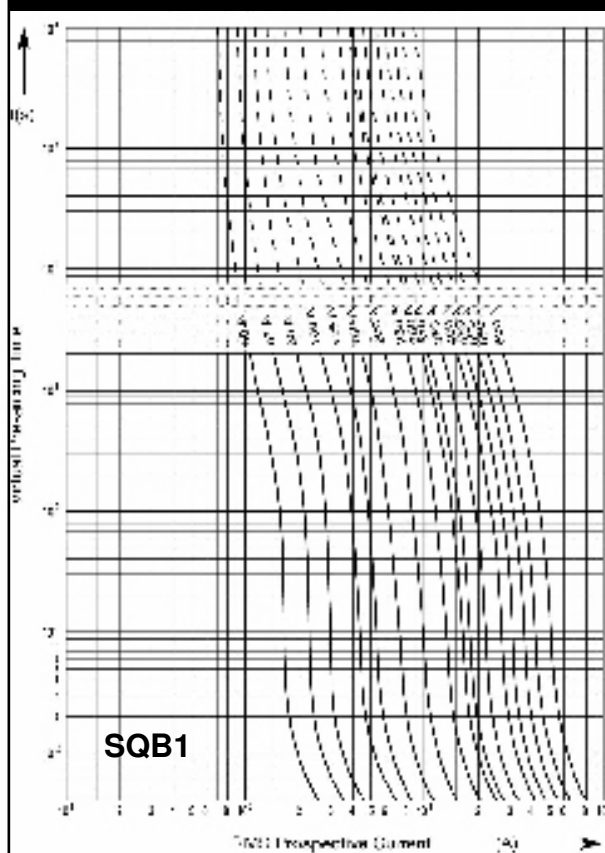
Time Current Characteristics



Time Current Characteristics

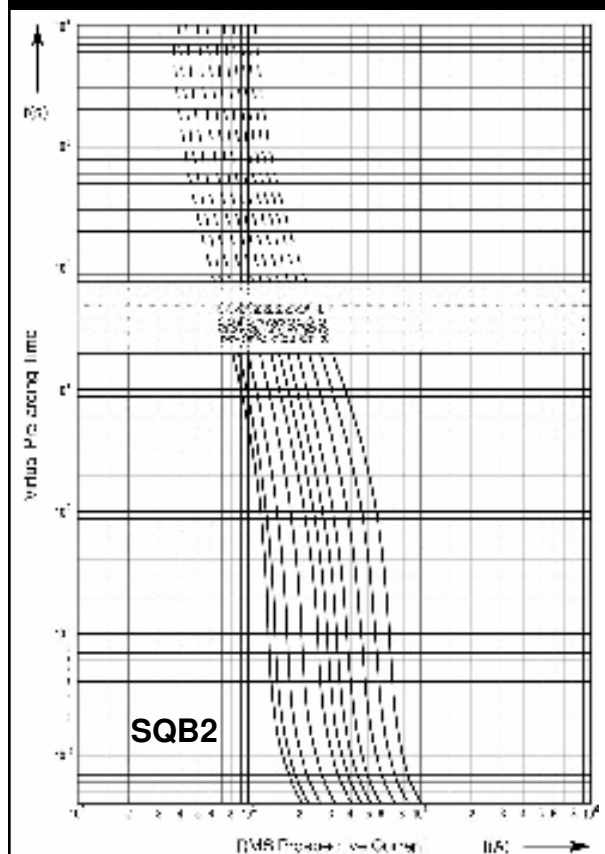


Time Current Characteristics

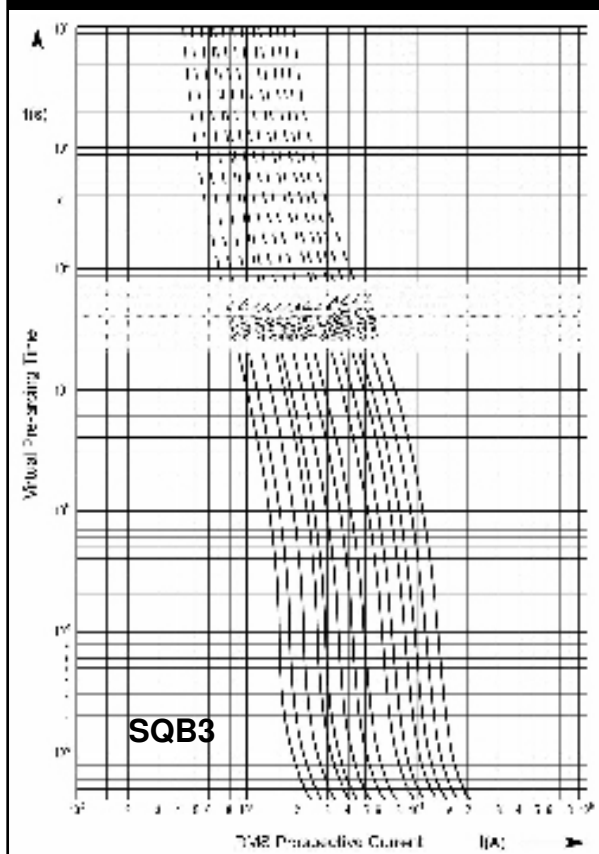


Time Current Curves for 900-1250/1300V SQB 1-3

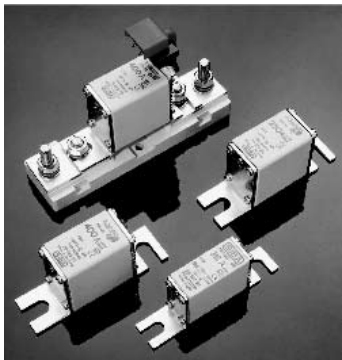
Time Current Characteristics

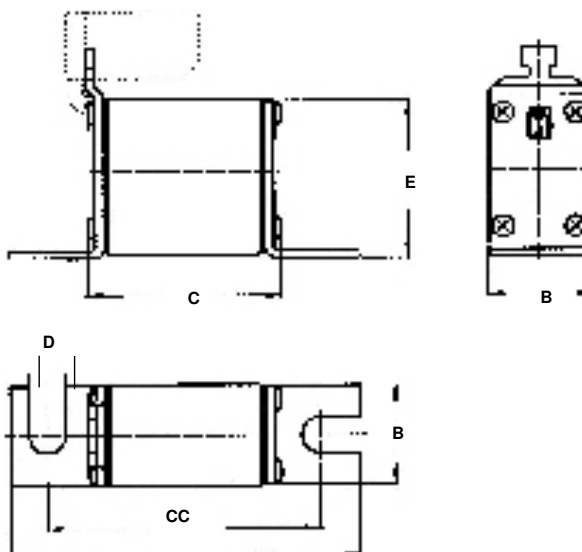


Time Current Characteristics

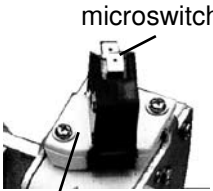


Electrical Characteristics 690/700V Operating class "gRL"

SIZE 000 & 00 - D80	Size Taille	I.R kA rms	Vac	Part number	Amperes
	c  US 000	200	690	*2055834	16, 20, 25, 32, 40, 50, 63, 80A
		200	700	*2055820	100, 125, 160, 200, 250, 315A
		200	700	2028220	32, 35, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315A
	00	200	700	2018920	32, 35, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 350, 400A
		200	700	*2041204	16, 20, 25A
		200	700	*2041220	32, 35, 40, 50, 63, 80, 100, 125A 160, 200, 250, 315, 350, 400A
	00	200	1000	*2056220	32, 35, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315A
	* With bracket for micro switch				



Dimensions (mm)		
	00	000
A	105	100
B	29.5	20.4
C	47	38
CC	80	80
D	10.3	8.5
E	28.8	20

Accessories/ Accessoires	for/pour	
 microswitch adapter	Adaptor for SQB 80mm fuses	2800102
	Adapter for SQB 110mm fuses	2800103
	GL-Microswitch 250V / 10A	2800104
	GL-Microswitch for NH00 DIN 80 SBQ 1-3 250V / 5A one change over contact	2800201
	GL-Microswitch for NH00 DIN 80 NH000-4 250V / 5A one change over contact	2800202

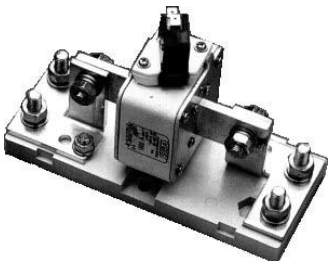
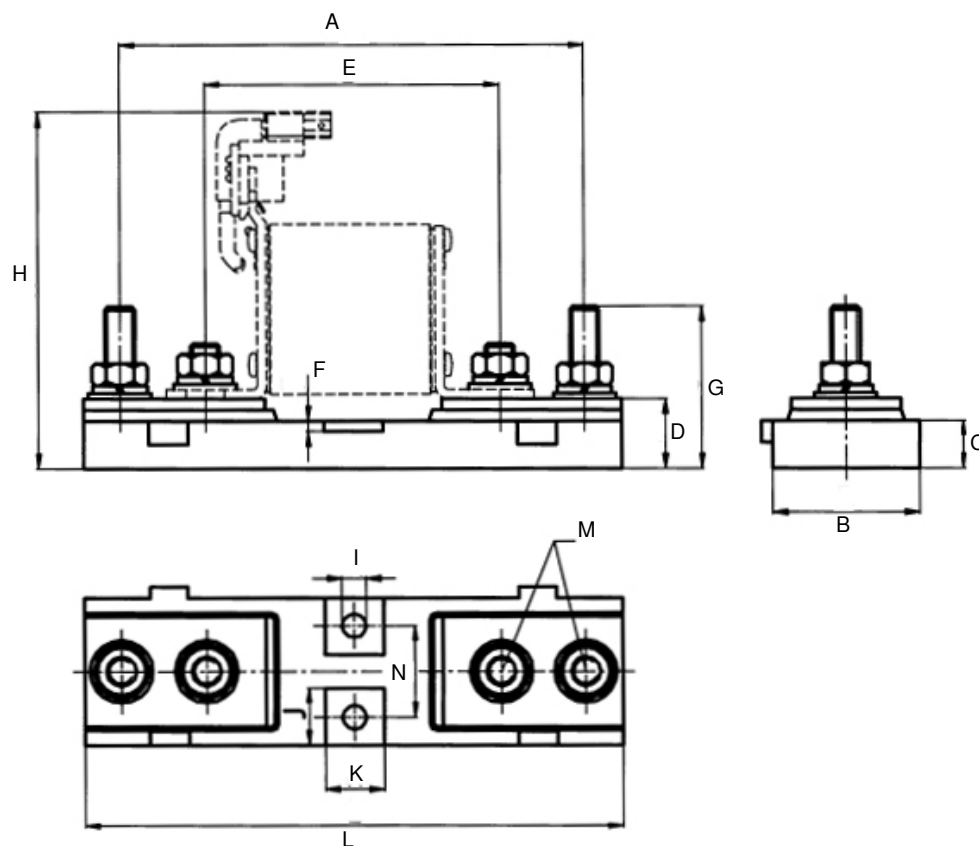
Bases for DIN 43653 fuses	Part number	fuse type	Amps	E	Fig.
	21 189 01	1000V - 00, 000	400A	80	1
	21 313 01	900V - 1, 2, 3	630A	80	2
	21 313 02	900V - 1, 2, 3	1250A	80	2
	21 323 01	1400V - 1, 2, 3	630A	110	2
	21 323 02	1400V - 1, 2, 3	1250A	110	2

Figure 1



2118901 Fixing Center 80 mm	
A	4.96" (126 mm)
B	1.57" (40 mm)
C	0.50" (13 mm)
D	0.75" (19 mm)
E	3.15" (80 mm)
F	0.12" (3 mm)
G	1.73" (44 mm)
H	3.82" (97 mm)
I	0.26" (6.5 mm)
J	0.60" (15.5 mm)
K	0.63" (16 mm)
L (Max)	5.75" (146 mm)
M	M8
N	0.98" (25 mm)

SQB 1-3 Bases

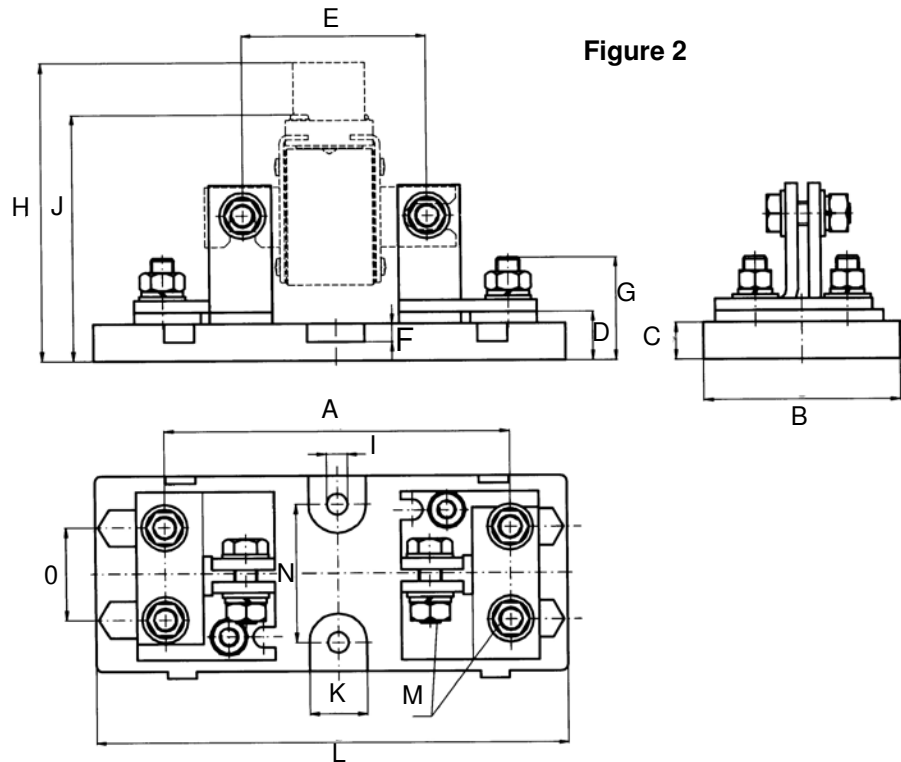


Figure 2

630A

2131301 Fixing Center 80 mm			2132301 Fixing Center 110 mm		
A	5.90"	(150 mm)	A	7.10"	(180 mm)
B	3.35"	(85 mm)	B	3.35"	(85 mm)
C	0.63"	(16 mm)	C	0.63"	(16 mm)
D	0.83"	(21 mm)	D	0.83"	(21 mm)
E	3.15"	(90 mm)	E	4.33"	(110 mm)
F	0.30"	(8 mm)	F	0.30"	(8 mm)
G	1.80"	(46 mm)	G	1.80"	(46 mm)
H (Size 1)	5.00"	(127 mm)	H (Size 1)	5.00"	(127 mm)
H (Size 2)	5.12"	(130 mm)	H (Size 2)	5.12"	(130 mm)
H (Size 3)	5.40"	(137 mm)	H (Size 3)	5.40"	(137 mm)
I	0.35"	(9 mm)	I	0.35"	(9 mm)
J (Size 1)	4.10"	(104 mm)	J (Size 1)	4.10"	(104 mm)
J (Size 2)	4.25"	(108 mm)	J (Size 2)	4.25"	(108 mm)
J (Size 3)	4.53"	(115 mm)	J (Size 3)	4.53"	(115 mm)
K	0.98"	(25 mm)	K	0.98"	(25 mm)
L (Max)	8.07"	(205 mm)	L (Max)	8.07"	(205 mm)
M	M10		M	M10	
N	2.36"	(60 mm)	N	2.36"	(60 mm)
O	1.57"	(40 mm)	O	1.57"	(40 mm)

1250A

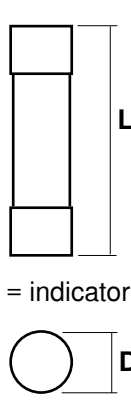
2131302 Fixing Center 80 mm			2132302 Fixing Center 110 mm		
A	5.90"	(150 mm)	A	7.10"	(180 mm)
B	3.35"	(85 mm)	B	3.35"	(85 mm)
C	0.63"	(16 mm)	C	0.63"	(16 mm)
D	0.83"	(21 mm)	D	0.83"	(21 mm)
E	3.15"	(90 mm)	E	4.33"	(110 mm)
F	0.30"	(8 mm)	F	0.30"	(8 mm)
G	1.80"	(46 mm)	G	1.80"	(46 mm)
H (Size 1)	5.00"	(127 mm)	H (Size 1)	5.00"	(127 mm)
H (Size 2)	5.12"	(130 mm)	H (Size 2)	5.12"	(130 mm)
H (Size 3)	5.40"	(137 mm)	H (Size 3)	5.40"	(137 mm)
I	0.35"	(9 mm)	I	0.35"	(9 mm)
J (Size 1)	4.10"	(104 mm)	J (Size 1)	4.10"	(104 mm)
J (Size 2)	4.25"	(108 mm)	J (Size 2)	4.25"	(108 mm)
J (Size 3)	4.53"	(115 mm)	J (Size 3)	4.53"	(115 mm)
K	0.98"	(25 mm)	K	0.98"	(25 mm)
L (Max)	8.07"	(205 mm)	L (Max)	8.07"	(205 mm)
M	M10		M	M10	
N	2.36"	(60 mm)	N	2.36"	(60 mm)
O	1.57"	(40 mm)	O	1.57"	(40 mm)



Ferrule fuses

Usually found in imported equipment. Available in the following characteristics;

F	= Fast - overload and short circuit.
M	= medium - overload and short circuit.
FF	= Ultrafast - short circuit only.
gL	= General purpose-overload and short circuit.
aM	= Motor circuit - short circuit only.
gR	= Ultrafast-overload and short circuit.

Metric	Diam x Length (mm)	Vac	Speed	Part number	Ratings available
Ferrule and Electronic fuses - General Specifications					
 ind = indicator	5 x 20	250	FF	7000140	100ma - 12.5A
	5 x 20	380	FF	7000740	100mA - 4A
	5 x 25	250	M	172525	32mA - 10A
	5 x 25 w. ind.	250	M	172526	50mA - 10A
	5 x 25 w/ind.	450	F	7008913	250mA - 10A
	5 x 30	500	M	172530	32mA - 10A
	6 x 32	700	FF	7012540	100mA - 20A (2.5-20A - 500V)
	6 x 32	500	F	189020	160mA - 25A (20&25A - 440V)
	6 x 32	500	T	189140	100mA - 32A (20&25A - 440V, 32A - 250V)
	6 x 32	1000	FF	7017240	315, 500mA, 1, 1.6, 2A
	8 x 32	380	gL	5006608	2 - 20A
	10 x 38	700	gR	5017906	1 - 30A
	10 x 38	1000	gR	5019906	4, 6, 8, 10, 12, 16A
	10x51	60		7001908	500mA - 6.3A
	14x 51	660	gL	5005808	1 - 25A (32&40A - 500V only)
	14x 51	660	aM	5005807	1/4 - 40A (32&40A - 500V only)
	14 x 51 w. ind.	690	gL	5005908	2 - 40A (32-40A - 500V)
	14x 51	700	gR	5012406	2, 4, 6, 8, 10, 12, 16, 20, 25, 32, 40, 50A
	14 x 51 ind.	700	gR	5012606	2, 4, 6, 8, 10, 12, 16, 20, 25, 32, 40, 50A
	22 x 58	660	gL	5006008	(1-30A - use Class J) 40, 50, 63, 80, 100A
	22 x 58 w. ind.	660	gL	5006108	2 - 100A (63 to 100A - 500V)
	22 x 58	660	aM	5006007	(1-30A - use Class J) 40, 50, 63, 80, 100A
	22 x 58 w. ind.	660	aM	5006107	2 - 100A (63 to 100A - 500V)
	22 x 58	700	gR	5014006	12, 16, 20, 25, 32, 40, 50, 63, 80, 100A
	22 x 58 ind.	700	gR	5014206	12, 16, 20, 25, 32, 40, 50, 63, 80, 100A
Standard ratings available: mA 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800mA, 1, 1.25, 1.6, 2, 2.5, 3.15, 4, 5, 6.3, 8, 10, 12, 16, 20, 25, 32, 40, 50, 63, 80, 100A					



DC rated fuses

Fusetek DC fuses are current limiting HRC fuses for protection of traction equipment and semiconductor devices. They are specifically designed for use on more difficult DC circuits.

They are available in a variety of voltage ratings and characteristics as shown in the table below. All are ferrule style fuses unless marked otherwise.

Available in the following characteristics.

- D - Slow blow for protection of motor circuits
- F - fast acting for protection of distribution circuits.
- gR/aR - ultra-fast acting for protection of semiconductor devices.

Note: Other body lengths, voltages and sizes are available.
Contact Fusetek for your requirements.

Features

- Pure silver elements and fully plated metal parts for cool running.
- Excellent current limitation for substantial reduction of short circuit stresses.

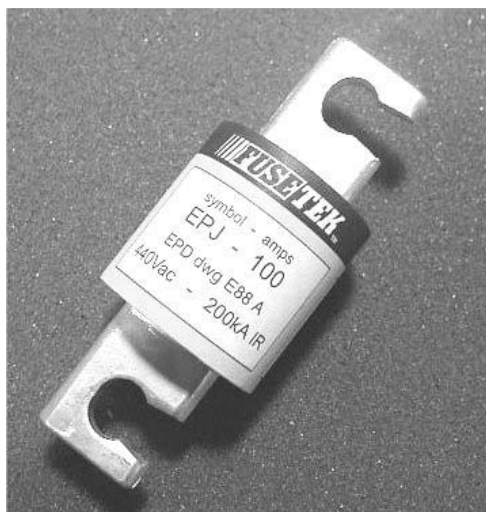
Companion Products

Insulators, fuse clips and bases.

General Specifications

DC RATED	Vdc	D (mm)	L (mm)	Speed	Part number	Ratings available
	600V	see Powrgard Cat.			IDSR	1-600A
	660V	27	60	gR	5019106	8, 10, 12, 16, 20, 25, 32, 40, 50, 63, 80, 110A
	700V	14	51	gR**	5011806	6, 8, 10, 12, 16, 20, 25, 30, 35, 40, 50A
	1000Vac/dc	10	35	F	FLU- 44	44/100A
		10	38	F	FLU-11	11A
		10	38	gR	5019906	10, 12, 16A
	1000V	6	32	aR	7017240	315, 500ma, 1, 1.6, 2, 2.5A
	1000V w. ind.	20	127	gR	9008210	6, 8, 10, 16, 20, 25, 32, 40, 50, 63A
	1500V w. ind.	20	127	gR	9008110	6, 8, 10, 12, 16, 20, 25A
		20	190	aR	9009210	6, 8, 10, 16, 20, 25, 32A
	1500V w. ind.	36	190	gR	9009510	20, 25, 32, 40, 50, 63, 80, 100A

** UR listed



EPJ Pedestal fuses

Specifications

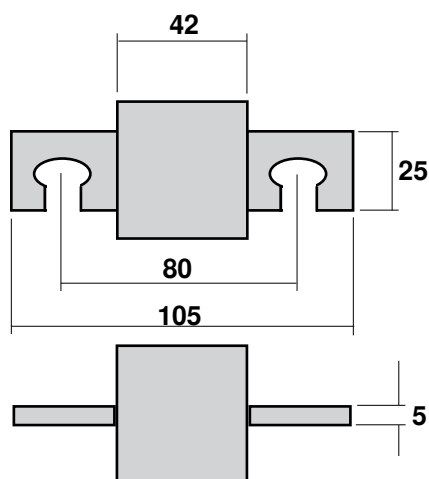
Voltage Rating: 440Vac
Interrupting Rating: 200kA rms
Amp Range: 100-200A
Ratings available: 100, 125, 150, 200A

part number example EPJ-125

These fuses are typically used in lighting pedestal distribution enclosures. Edmonton Power drawing E-80-A

They will fit Burndy SPB-1 terminal blocks or equal.

dimensions (mm)



EPD Distribution fuses

Specifications

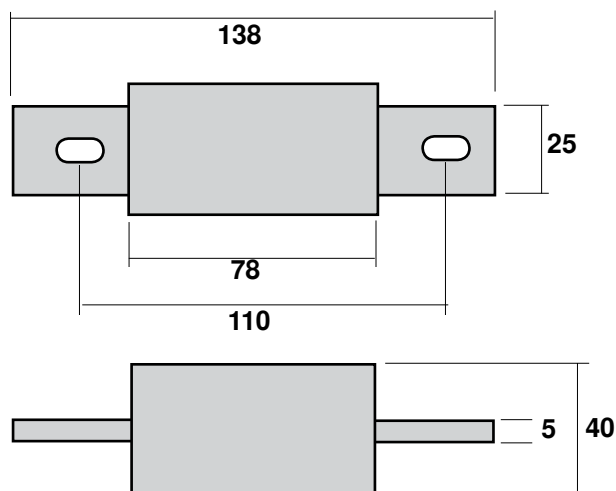
Voltage Rating: 600Vac
Interrupting Rating: 200kA rms
Ratings available: 125, 150, 200A

part number example EPD-200

These fuses are typically used in residential distribution applications as a bus mounted splitter fuse.

Edmonton Power drawing: 2E-74-A

dimensions (mm)



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This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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