



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.)								
Vac	Dimensions				Fig.	Part Number	Ratings Available	I.R rms sym.
	Type	L	CC					
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		

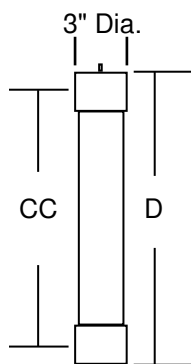


Fig. 1

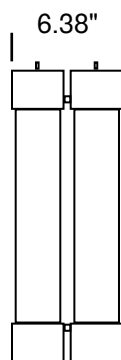


Fig. 2

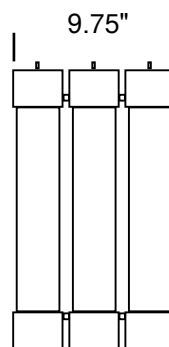
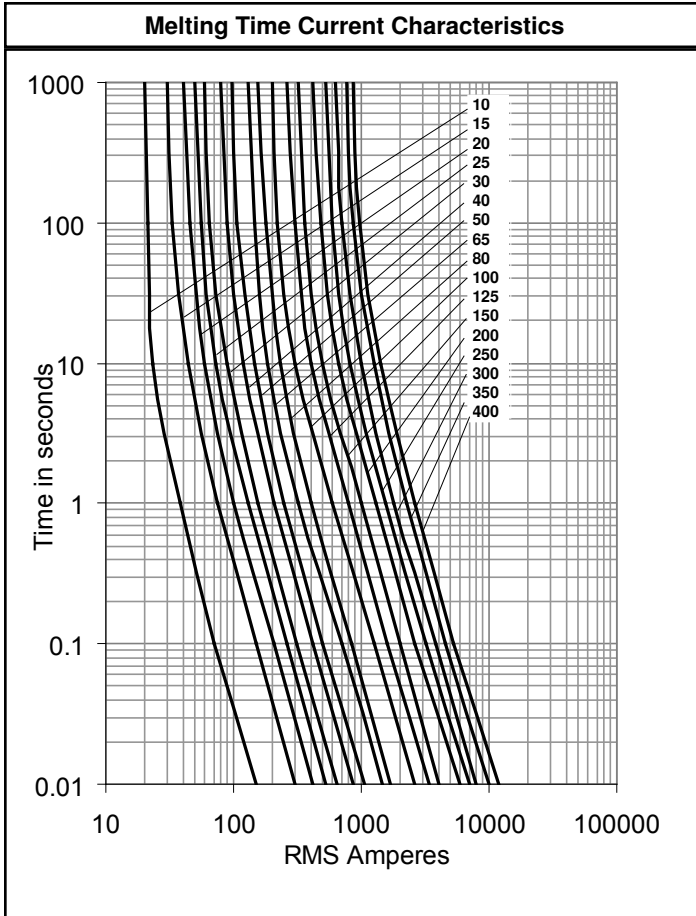


Fig. 3



Fig. 4

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

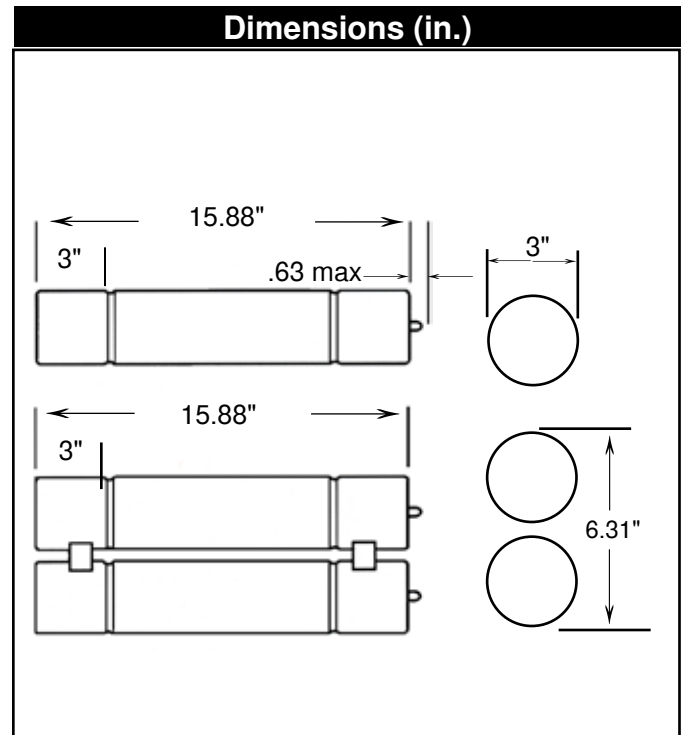


General Specifications

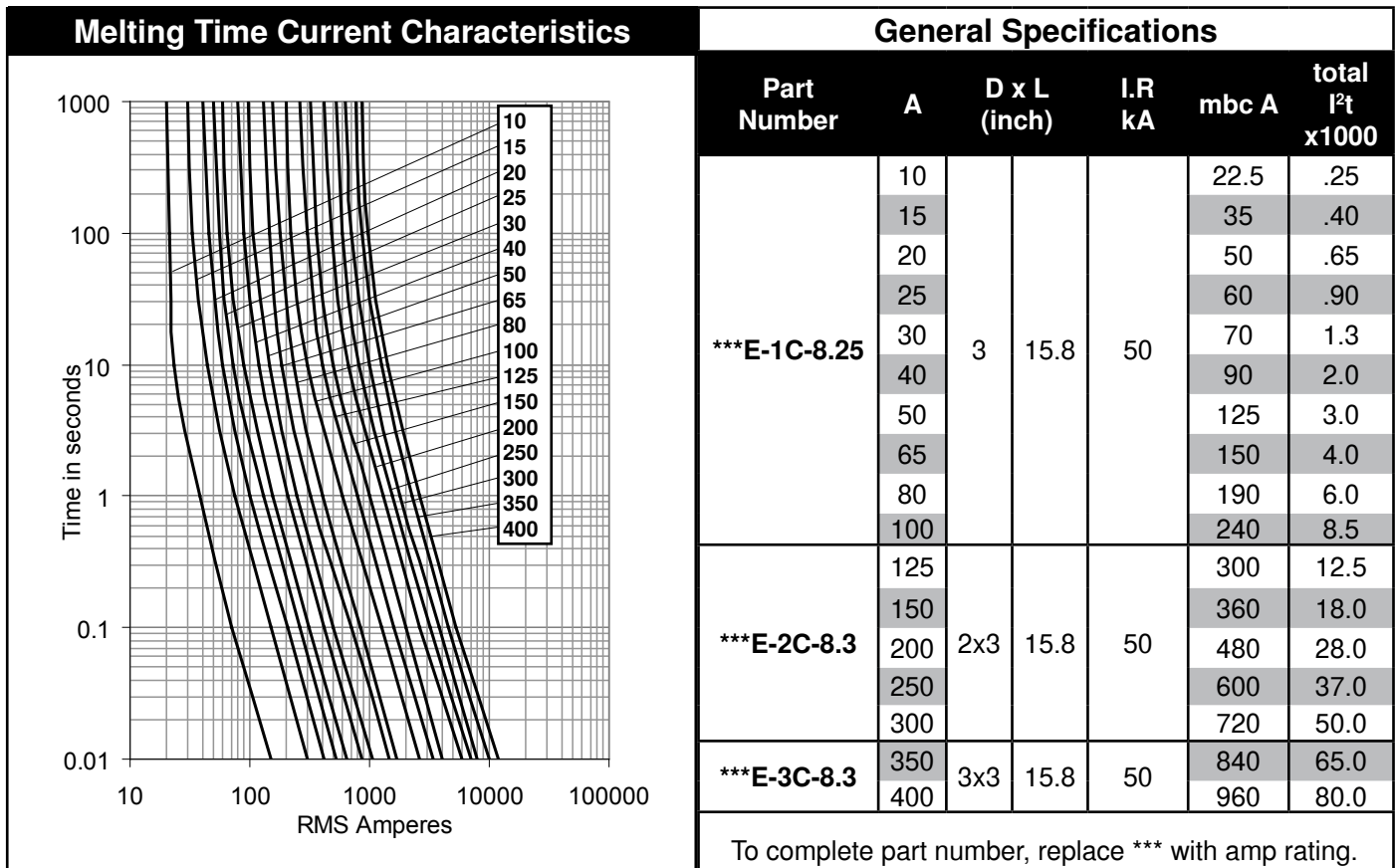
Part Number	D x L		I.R kA	mbc	
	A	inches			
***E-1C-5.5	10	3	15.8	50	20
	15				30
	20				40
	25				50
	30				60
	40				80
	50				100
	65				130
	80				160
	100				200
***E-2C-5.5	250	2x3	15.8	50	500
	300				600
	350				700
	400				800
	450				900

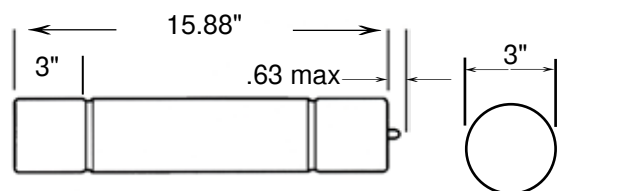
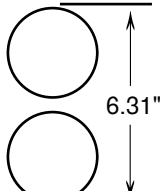
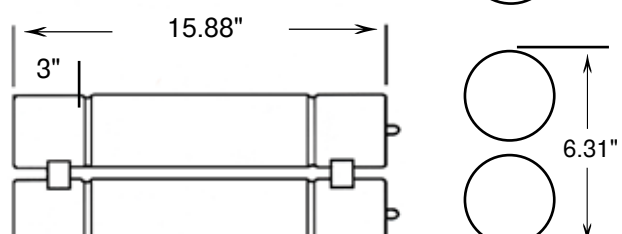
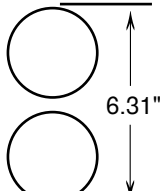
Fuse selection for transformers rated 5.5kV or less

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



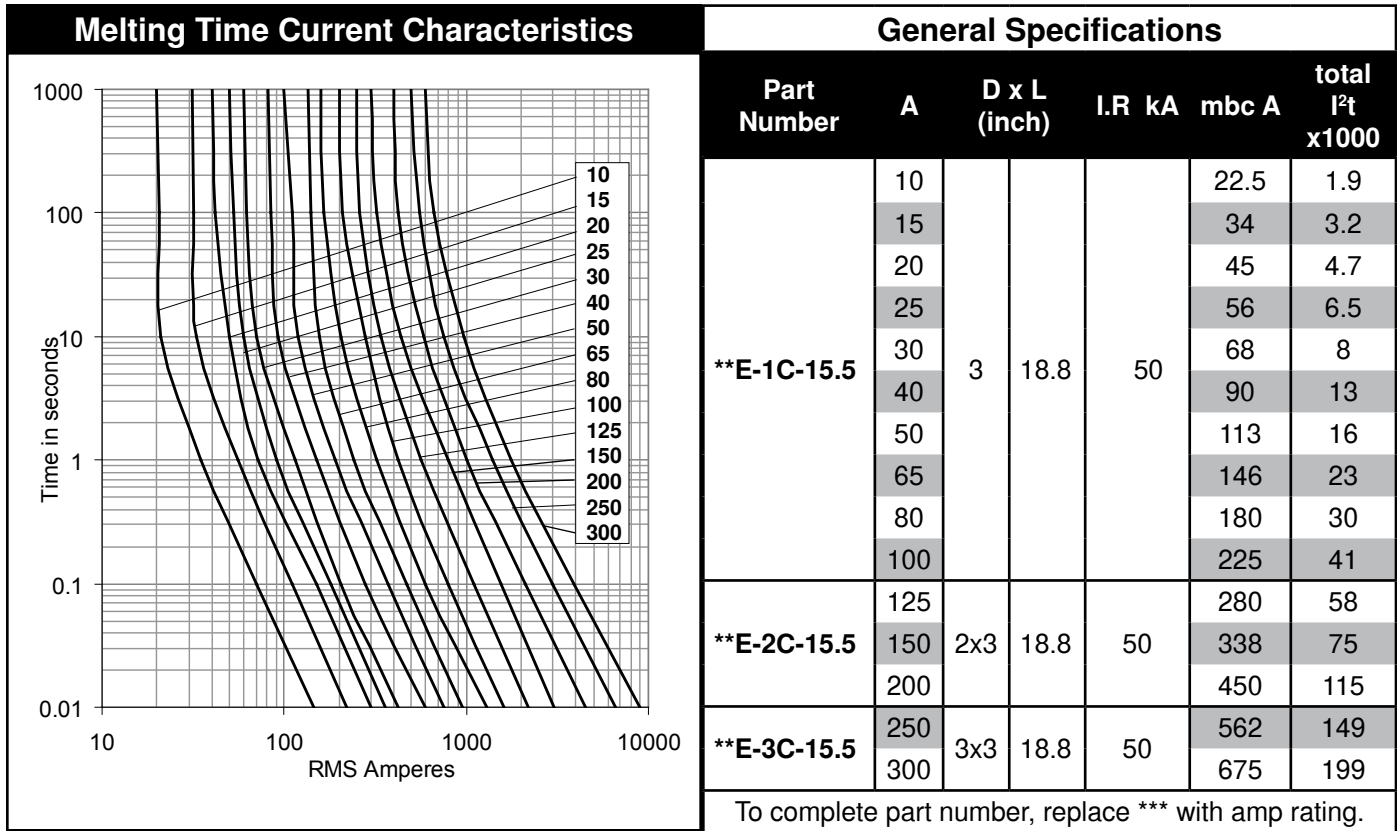
8.3kV - 3" Body 'E' rated Distribution fuses



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		