



## 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:

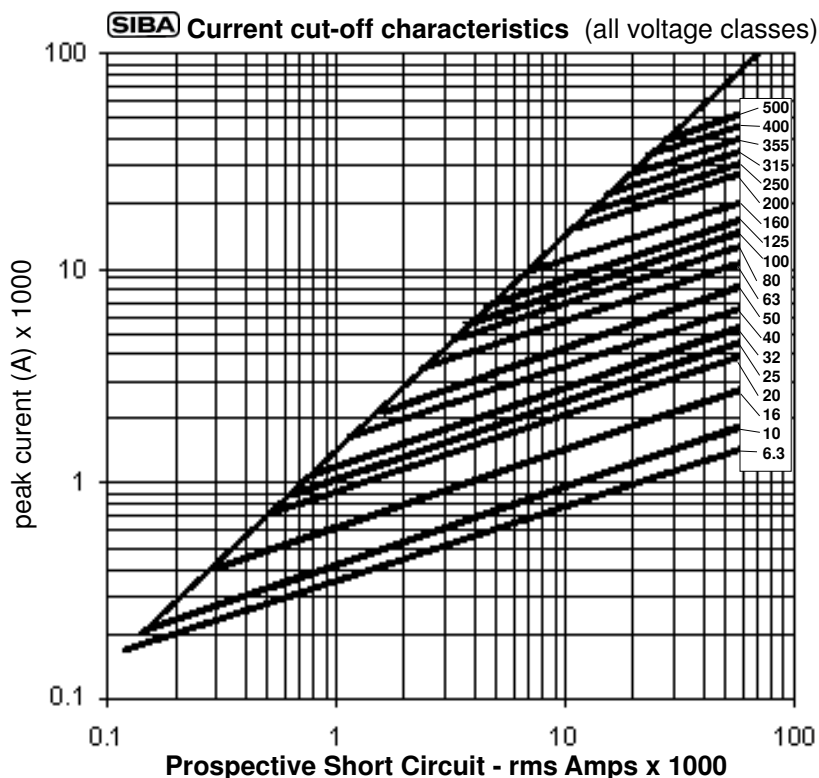
- Fuses must pass normal primary winding magnetising inrush currents: These are taken as 12x the normal full load current (FLC) at .1 sec, and 25x FLC at .01 sec. Certain applications may require the use of a higher fuse rating. Please contact FUSETEK with application details.
- After a sustained power 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

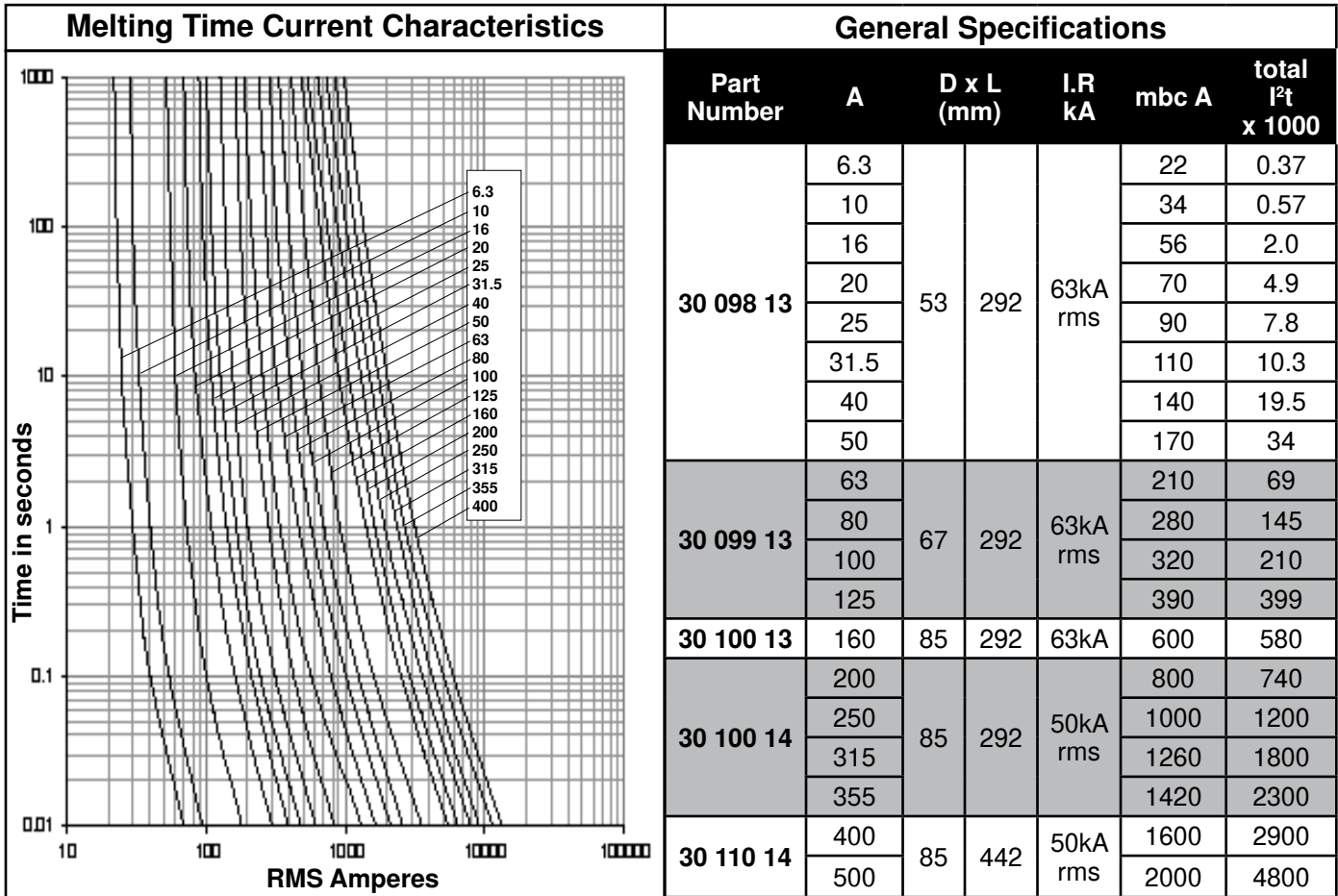
Insulators, clips, single pole bases



### Note:

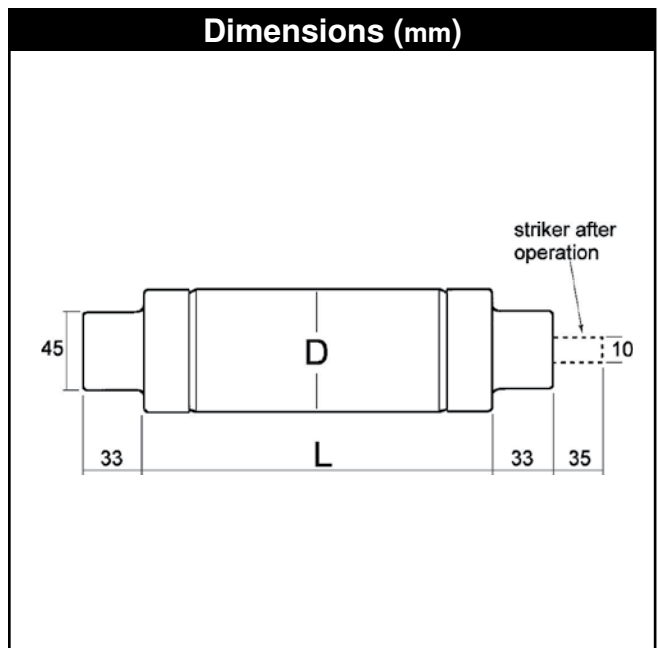
$I^2t$  and interrupting ratings shown in following tables are at maximum system voltage.

## 3.0/7.2kV

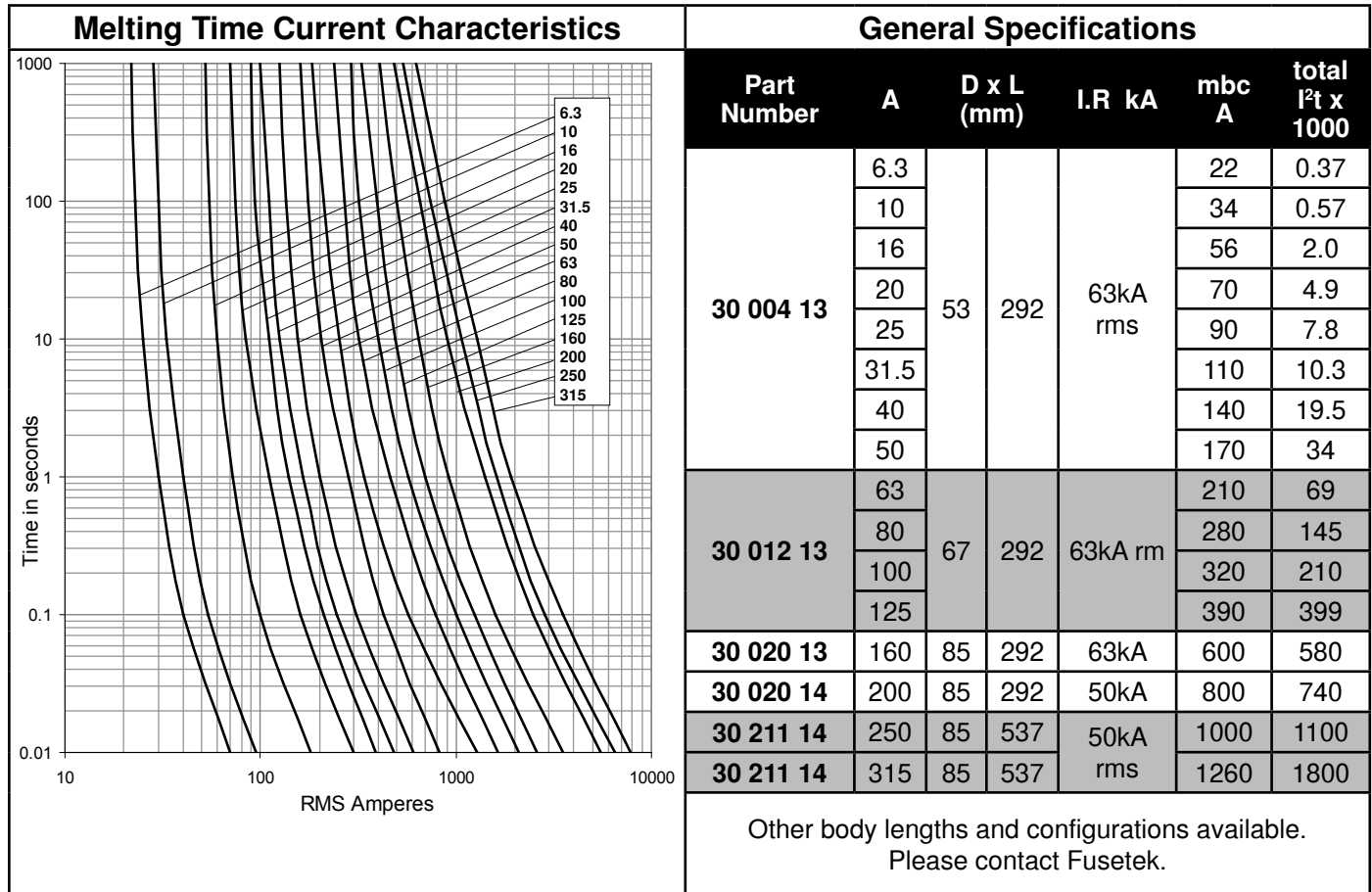


Other body lengths and configurations available. Please contact Fusetek.

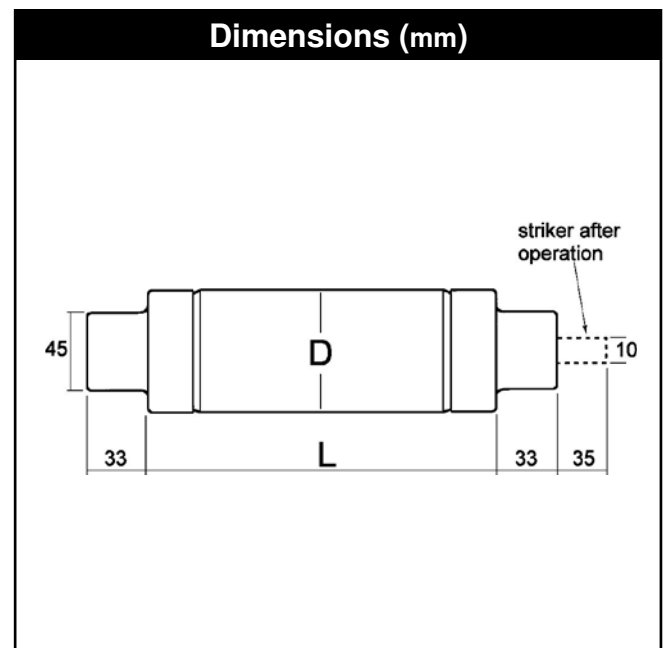
Minimum fuse for transformers rated 7.2kV or less				
kVA	2.4kV	4.16kV	4.8kV	6.9kV
15	10A	6.3A	6.3A	6.3A
30	16A	16A	10A	10A
45	25A	16A	16A	16A
75	40A	25A	20A	16A
112.5	50A	40A	25A	20A
150	50A	40A	31.5A	25A
225	80A	50A	50A	40A
300	100A	63A	50A	40A
500	160A	100A	80A	63A
750	250A	125A	100A	80A
1000	315A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



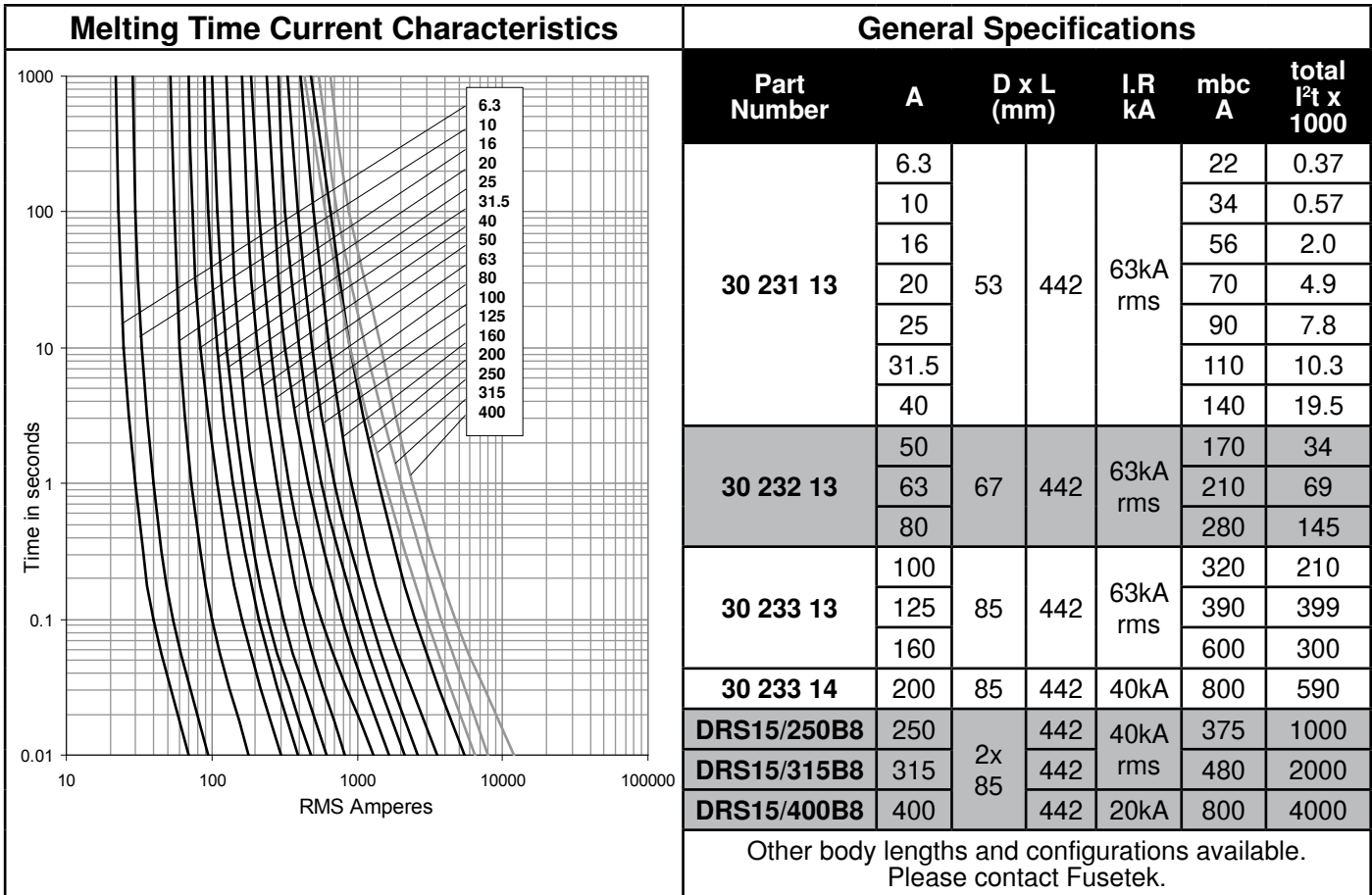
# 6/12kV



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

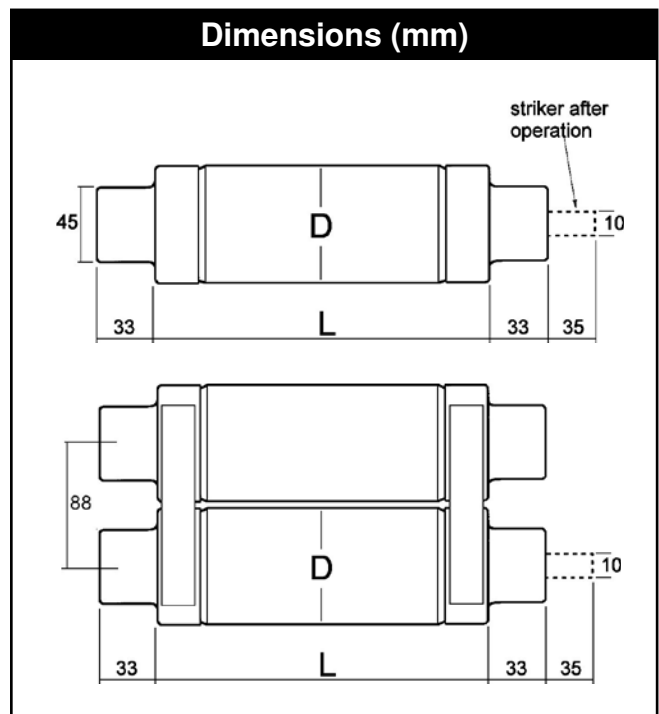


# 10/17.5kV

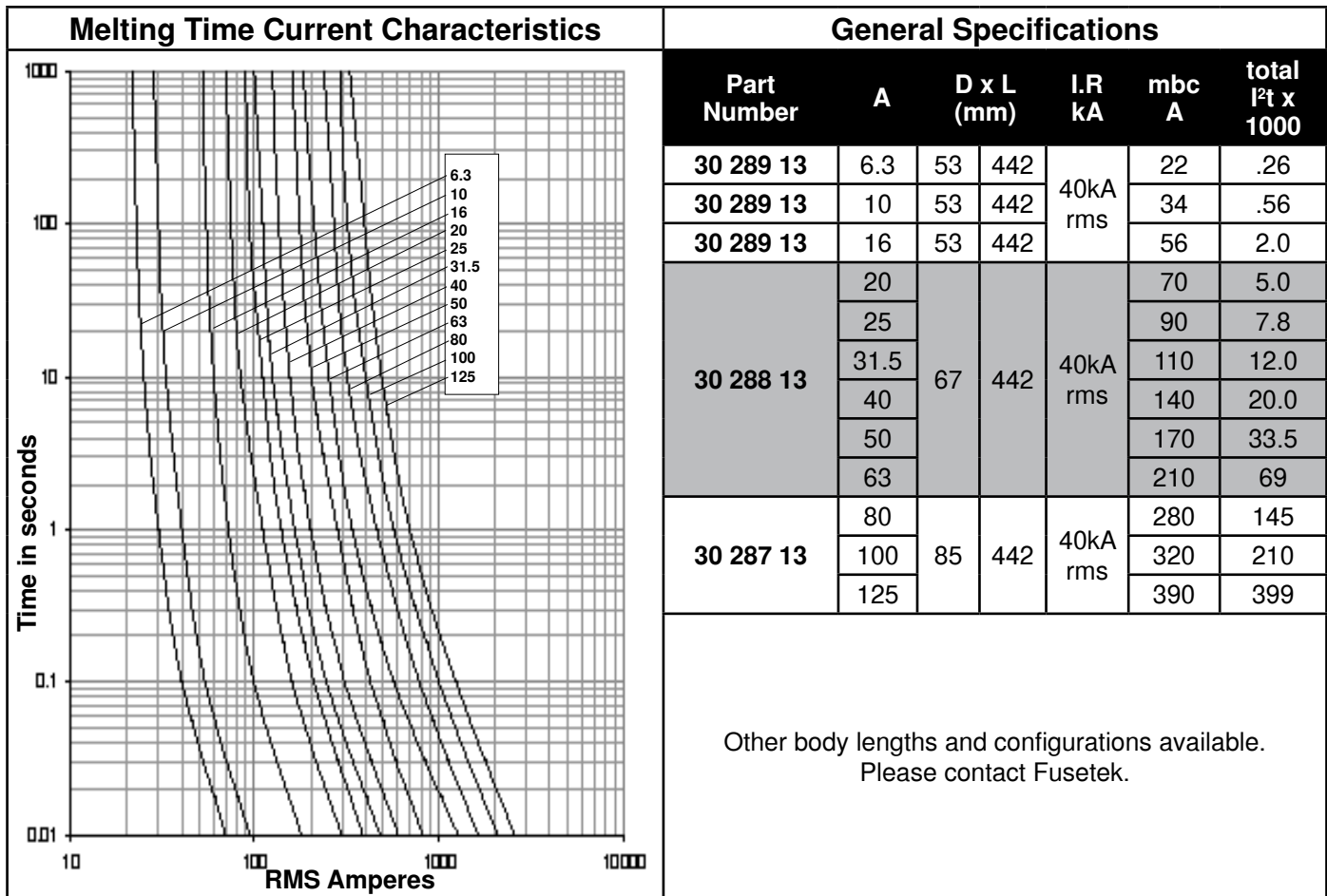


### Minimum fuse for transformers rated 17.5kV or less

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

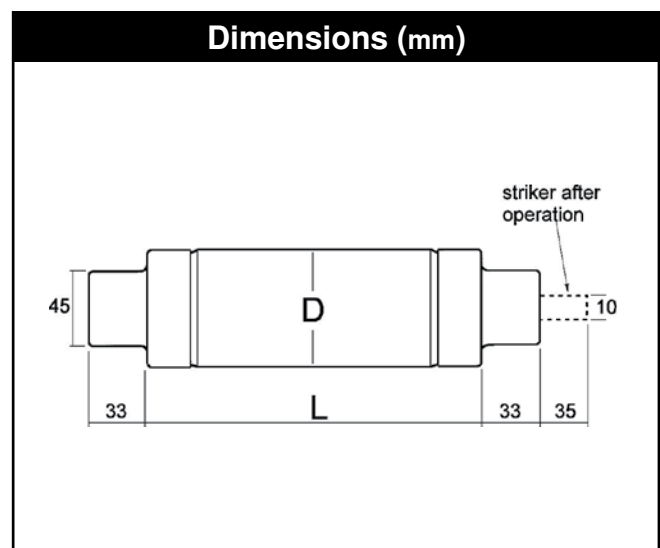


# 20/27.6kV

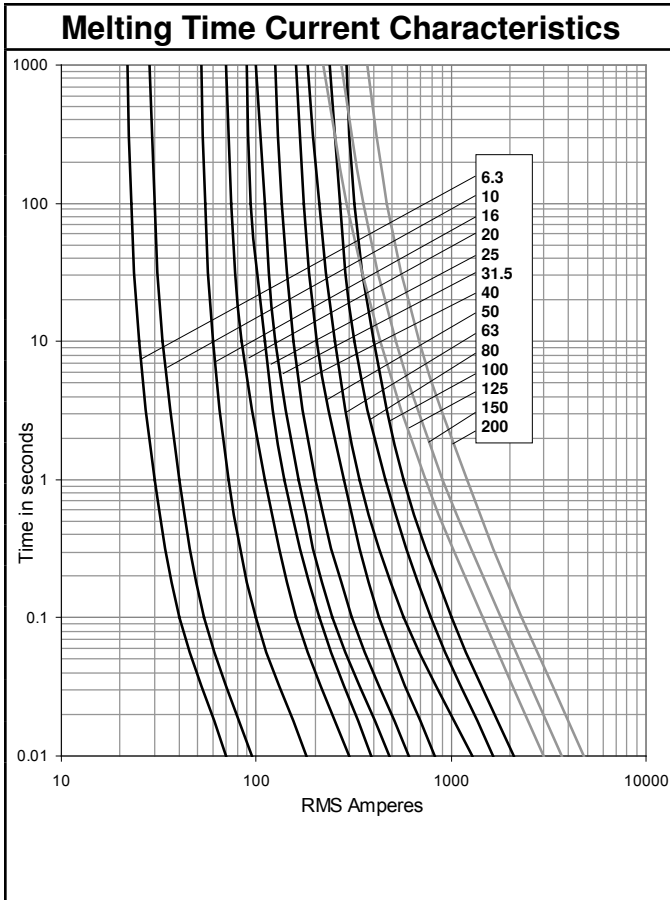


### Fuse selection for transformers rated 25.8kV or less

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



# 20/36kV



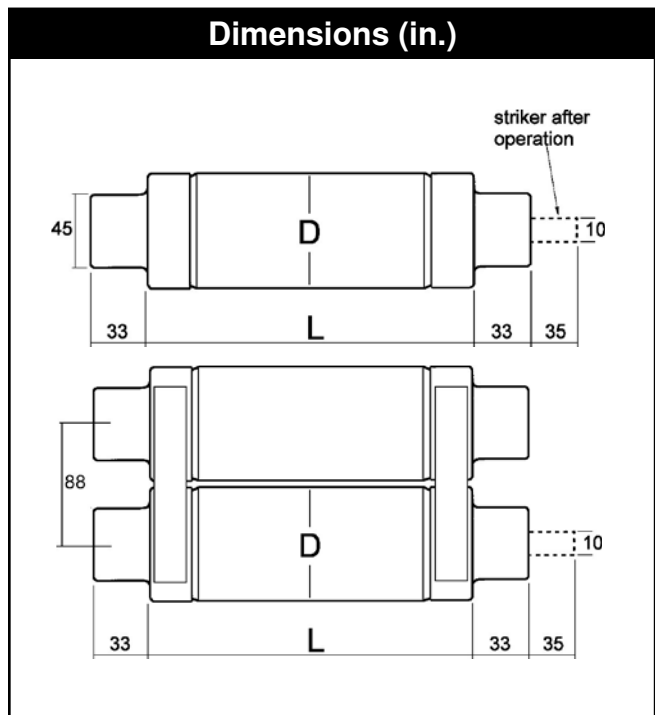
### General Specifications

Part Number	A	D x L (mm)		I.R kA	mbc A	total I <sup>2</sup> t x 1000
<b>30 008 13</b>	6.3	53	537	40kA rms	22	0.37
	10				34	0.57
	16				56	2.0
	20				70	4.9
	25				90	7.8
<b>30 016 13</b>	31.5	67	537	40kA rms	110	10.3
	40				140	19.5
<b>30 024 13</b>	50	85	537	40kA rms	170	34
	63				210	69
	80	85	537	40kA rms	280	145
	100				320	210
<b>DRS30/125A9</b>	125	2x 66	537	16kA	158	140
<b>DRS30/150B9</b>	150	2x 85	537	20kA rms	225	200
<b>DRS30/200B9</b>	200				300	580

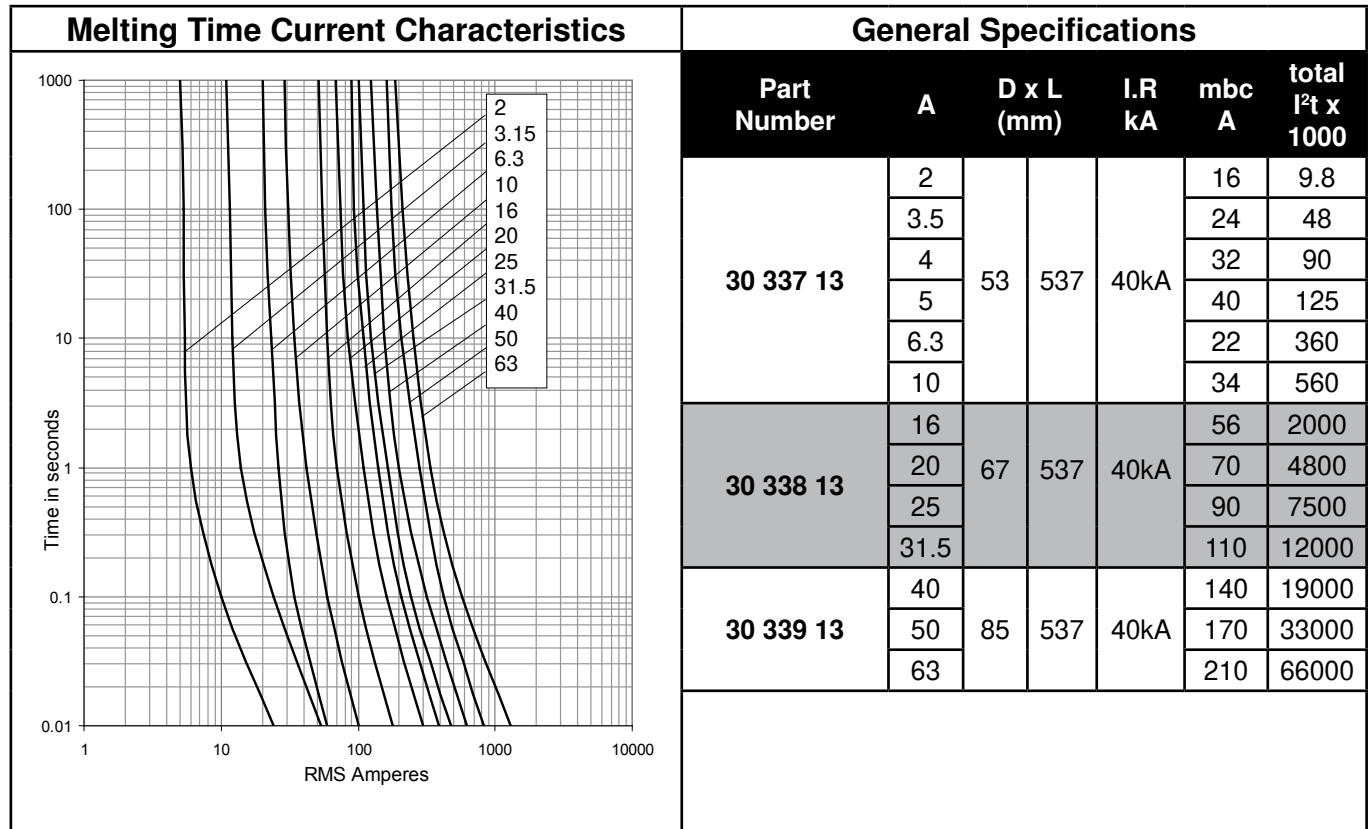
Other body lengths and configurations available.

### Fuse selection for transformers rated 36kV or less

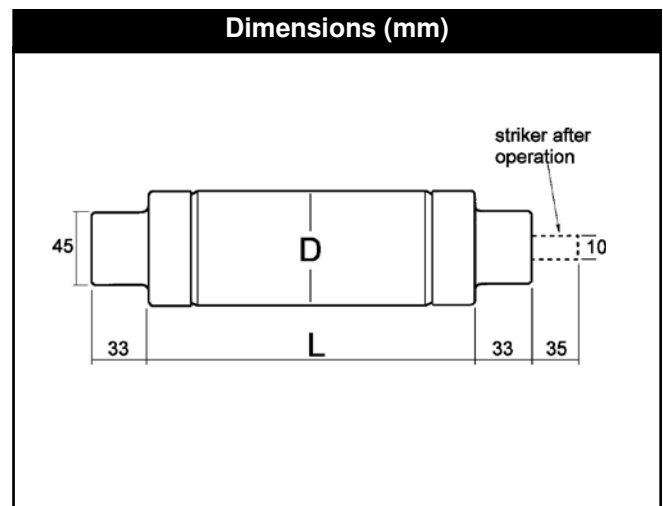
kVA	25.8kV	27.6kV	34.5kV	36kV
112.5	10A	6.3A	6.3A	6.3A
150	10A	10A	10A	6.3A
225	16A	16A	10A	10A
300	16A	16A	16A	16A
500	20A	20A	16A	16A
750	25A	25A	20A	20A
1000	40A	31.5A	25A	25A
1500	50A	50A	40A	40A
2000	63A	63A	50A	50A
2500	80A	75A	63A	63A
3000	80A	100A	75A	75A
4000	160A	125A	100A	100A
5000	200A	160A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

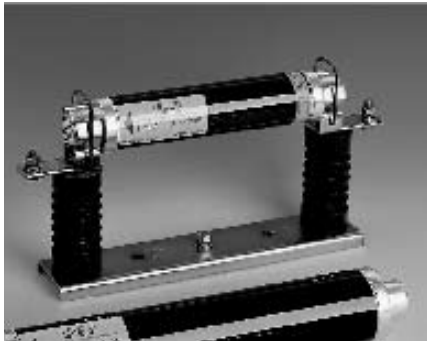


# 38kV



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





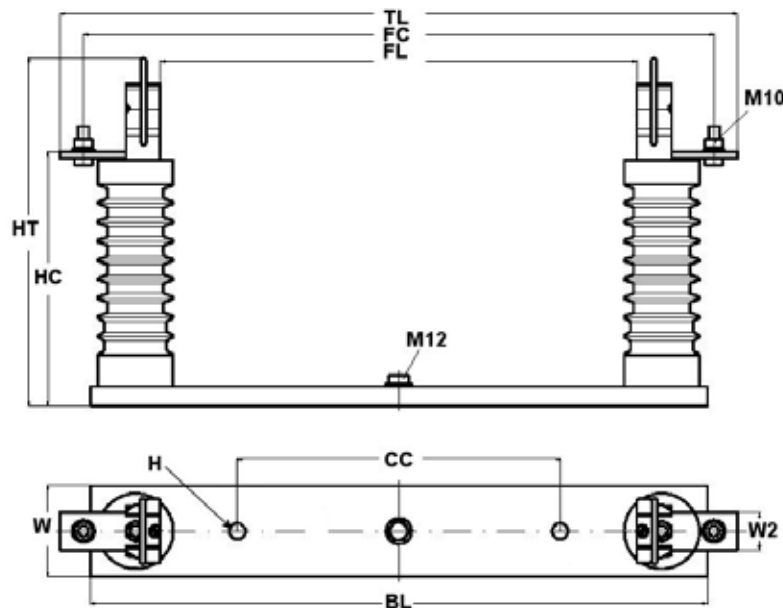
## HV - 200A DIN fuse bases

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