

# X-Limiter Full Range Current Limiting Fuse Transformer Application Chart

## 3Ø Transformer Fuse Selection Chart Current Limiting Fuse, Drywell Canister Applications

kVA		Recommended Fuse-Current Rating (Amperes)																			
		Column A = 140%-200% Transformer Rating		Column B = 200%-300% Transformer Rating		Fuse Voltage (kV)		8.33/15.5		15.53/23.3		23 <sup>3</sup>									
		Transformer Three Phase Voltage Rating (kV)																			
		2.4		4.16		4.8		7.2 - 7.96		8.32		12.47		13.2/14.4		20.8		22.9/24.9		34.5	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
15	6	10	3	6	3	6 <sup>3</sup>	3	-	3	-	3 <sup>5</sup>	-	3 <sup>5</sup>	-	3 <sup>5</sup>	-	3 <sup>5</sup>	-	3 <sup>5</sup>	-	3 <sup>5</sup>
30	12	20	8	12	6	10	6	3	6	3	3	3	3	3	3	3	3	3	3	3	3
45	18	30	10	18	8	18 <sup>5</sup>	10	6	10	6	6	6	6	6	6	6	6	6	6	6	6
75	30	50	18	30	18	25	18	10	18	10	10	10	10	10	10	10	10	10	10	10	10
112.5	40	75	25	40	20	30	20	18	25	12	20	8	12	8	12	6	8	6	8	3	6 <sup>5</sup>
150	65	100	30	50	30	50	30	20	30	20	20	12	20	12	20	8	12	6	10	6	6
225	80	140 <sup>P</sup>	50	80	40	80 <sup>P</sup>	30	30	50	25	40	18	25	18	25	12	18	10	18	6	10
300	125 <sup>P</sup>	200 <sup>P</sup>	65	125 <sup>P</sup>	65	100	40	40	50	30	50	20	30	20	40	20	20	12	18	10	12
500	200 <sup>P</sup>	-	100	200 <sup>P</sup>	100	140 <sup>P</sup>	60 <sup>P</sup>	60 <sup>P</sup>	100 <sup>P</sup>	50	80 <sup>P</sup>	40	65 <sup>P</sup>	30	50	25	40	25	30	12	25
750	-	-	160 <sup>P</sup>	-	140 <sup>P</sup>	-	100 <sup>P</sup>	100 <sup>P</sup>	-	80 <sup>P</sup>	-	65 <sup>P</sup>	65 <sup>P</sup>	40	65 <sup>P</sup>	40	65 <sup>P</sup>	40	65 <sup>P</sup>	25	40
1000	-	-	200 <sup>P</sup>	-	200 <sup>P</sup>	-	-	-	-	-	-	80 <sup>P</sup>	100 <sup>P</sup>	50	80 <sup>P</sup>	40	65 <sup>P</sup>	65 <sup>P</sup>	80 <sup>P</sup>	40	65 <sup>P</sup>
1500	-	-	-	-	-	-	-	-	-	-	-	-	-	100 <sup>P</sup>	-	-	-	80 <sup>P</sup>	80 <sup>P</sup>	50	80 <sup>P</sup>
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100 <sup>P</sup>	100 <sup>P</sup>	65 <sup>P</sup>	80 <sup>P</sup>
2500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100 <sup>P</sup>	80 <sup>P</sup>
3000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100 <sup>P</sup>	80 <sup>P</sup>

- Note:
- Not all current ratings are available in all voltage ratings. Check fuse size listing.
  - 8.3 kV fuse can be used on 2.4, 4.16 and 4.8 kV applications. Mounting requirements may be different.
  - Phase to ground voltage rated fuses are frequently recommended for Y-Y connected transformers. Application of this voltage rating limited to ground wye/ground wye transformers with no more than 50% delta connected secondary load.
  - Fuses selected to meet inrush criteria and cold load pickup criteria of:
    - 12 times transformer full load current for .1 seconds.
    - 25 times transformer full load current for .01 seconds.
    - 3 times transformer full load current for 10 seconds.
  - Fuse application allows in excess of 300% load.
  - Drywell application limited to 50A with 8.3-15.5 and 23 kV fuses.
  - 8.3 kV fuses 6 through 40 Amp (paralleled to 80A) have been tested to 9.8 kV. 15.5 kV fuses 6 through 50 Amp (paralleled to 100A) have been tested to 17.1 kV.
- P Recommendation consists of 2 fuses of equal current rating connected in parallel.