

## TRANSFORMER SECONDARY FAULT CURRENT

Line-to-Line Short Circuit Amps (**SCA**) at the transformer secondary terminals based on an unlimited source.

### Common Transformer Banks (Verify the Impedance - %Z)

	KVA	Type	Phase	Voltage	% Z	SCA (L-L)
<b>Single Phase Transformer</b>	5	Pole / Pad	1	120/240	1.5	1,389
	10	Pole / Pad	1	120/240	1.5	2,778
	25	Pole / Pad	1	120/240	1.5	6,944
	37.5	Pole / Pad	1	120/240	1.5	10,417
	50	Pole / Pad	1	120/240	1.5	13,889
	75	Pole / Pad	1	120/240	1.5	20,833
	100	Pole / Pad	1	120/240	1.6	26,042
	167	Pole / Pad	1	120/240	1.6	43,490
	250	Pole	1	120/240	2.2	47,348
	333	Pole	1	120/240	2.2	63,068

	KVA	Type	Phase	Voltage	% Z	SCA (L-L)
<b>3 PH 120/208 Banks</b>	3 x 10	Pole	3	120/208	1.5	5,552
	3 x 15	Pole	3	120/208	1.5	8,327
	3 x 25	Pole	3	120/208	1.5	13,879
	3 x 37.5	Pole	3	120/208	1.5	20,819
	3 x 50	Pole	3	120/208	1.5	27,758
	3 x 75	Pole	3	120/208	1.5	41,637

	KVA	Type	Phase	Voltage	% Z	SCA (L-L)
<b>3 PH 277/480 Banks</b>	3 x 25	Pole	3	277/480	1.5	6,014
	3 x 37.5	Pole	3	277/480	1.5	9,021
	3 x 50	Pole	3	277/480	1.5	12,028
	3 x 75	Pole	3	277/480	1.5	18,043
	3 x 100	Pole	3	277/480	1.6	22,553
	3 x 167	Pole	3	277/480	1.6	37,589
	3 x 250	Pole	3	277/480	2.2	41,006
	3 x 333	Pole	3	277/480	2.2	54,675

	KVA	Type	Phase	Voltage	% Z	SCA (L-L)
<b>3 PH 120/208 Pad Mounted Transformers</b>	75	Pad	3	120/208	1.28	16,264
	112.5	Pad	3	120/208	1.28	24,397
	150	Pad	3	120/208	1.28	32,529
	225	Pad	3	120/208	1.28	48,793
	300	Pad	3	120/208	1.28	65,058
	500	Pad	3	120/208	2.00	69,395
	750	Pad	3	120/208	5.32	39,133
	1000	Pad	3	120/208	5.32	52,177

	KVA	Type	Phase	Voltage	% Z	SCA (L-L)
<b>3 PH 277/480 Pad Mounted Transformers</b>	75	Pad	3	277/480	1.28	7,048
	150	Pad	3	277/480	1.28	14,096
	225	Pad	3	277/480	1.28	21,144
	300	Pad	3	277/480	1.28	28,192
	500	Pad	3	277/480	2.00	30,071
	750	Pad	3	277/480	5.32	16,957
	1000	Pad	3	277/480	5.32	22,610
	1500	Pad	3	277/480	5.32	33,915
	2000	Pad	3	277/480	5.32	45,220
	2500	Pad	3	277/480	5.32	56,525
3000	Pad	3	277/480	5.78	62,432	

### Open Delta (Sample Combinations)

KVA-1 or 3	KVA-2	Phase	Voltage	%Z-1 or 3	%Z-2	SCA (L-L)
5	15	3	120/240	1.5	1.5	4811
10	25	3	120/240	1.5	1.5	8420
15	25	3	120/240	1.5	1.5	9623
25	37.5	3	120/240	1.5	1.5	15036
37.5	50	3	120/240	1.5	1.5	21050
50	75	3	120/240	1.5	1.5	30071
75	100	3	120/240	1.5	1.6	42100
25	50	3	120/240	1.5	1.5	18043
37.5	75	3	120/240	1.5	1.5	27064
50	100	3	120/240	1.5	1.6	36085

### Planner's Open or Closed Delta Combination (Input the Transformer Sizes)

KVA-1 or 3	KVA-2	Phase	Voltage	%Z-1 or 3	%Z-2	SCA (L-L)
5	10	3	120/240	1.5	1.5	3609

KVA-1 or 3 = Smallest Transformer (Input by Planner)

KVA-2 = Largest Transformer (Input by Planner)