



## Distribution Transformer Impedance and Fault Currents

### Short Circuit Current Table for 1Ø Transformers:

1Ø Transformer kVA Rating	Secondary Volts	Pad-Mounted		Overhead	
		Impedance (%)	Fault Current Amps	Impedance (%)	Fault Current Amps
15	120	1.78	7,006	2.13	5,876
	240	1.30	4,808	1.55	4,032
25	120	1.78	11,677	1.92	10,843
	240	1.30	8,013	1.40	7,440
37.5	120	2.11	14,819	2.09	14,919
	240	1.50	10,417	1.49	10,487
50	120	2.05	20,346	1.99	20,928
	240	1.44	14,468	1.40	14,881
75	120	1.91	32,749	2.22	28,101
	240	1.33	23,496	1.55	20,161
100	120	1.95	42,719	2.24	37,207
	240	1.35	30,864	1.55	26,882
167	120	2.02	68,964	2.49	55,983
	240	1.38	50,423	1.70	40,931

### Short Circuit Current Table for 3Ø Transformers:

3Ø Transformer kVA Rating	Line-Line Secondary Volts	Pad-Mounted		Overhead	
		Impedance (%)	Fault Current Amps	Impedance (%)	Fault Current Amps
45	208	1.40	8,922	1.55	8,059
	240	---	---	1.55	6,984
	480	1.40	3,866	1.55	3,492
75	208	1.40	14,881	1.40	14,870
	240	---	---	1.40	12,887
	480	1.44	6,255	1.40	6,444
112.5	208	1.09	28,670	1.49	20,958
	240	---	---	1.49	18,163
	480	1.20	11,282	1.49	9,082
150	208	1.50	27,778	1.40	29,740
	240	---	---	1.40	25,775
	480	1.44	12,535	1.40	12,887

(continued)

3Ø Transformer kVA Rating	Line-Line Secondary Volts	Pad-Mounted		Overhead	
		Impedance (%)	Fault Current Amps	Impedance (%)	Fault Current Amps
300	208	1.62	51,440	1.55	53,724
	240	---	---	1.55	46,561
	480	1.39	25,972	1.55	23,280
500	208	1.60	86,806	1.70	81,639
	240	---	---	1.70	70,754
	480	1.24	48,523	1.70	35,377
750	208	5.00	41,667	1.80	115,655
	240	---	---	1.80	100,234
	480	5.00	18,051	1.80	50,117
1000	208	5.00	55,566	1.50	185,048
	240	---	---	1.50	160,375
	480	5.00	26,067	1.60	75,176
1500	208	---	---	1.80	231,310
	240	---	---	1.80	200,469
	480	5.00	36,101	1.50	120,281
2000	480	5.00	48,135	---	---
2500	480	5.00	60,168	---	---