

5.3 SINGLE-PHASE TRANSFORMERS

FULL-LOAD CURRENTS SINGLE-PHASE TRANSFORMERS

FULL-LOAD CURRENT IN AMPERES

KVA RATING	RATED VOLTAGE					
	120V	208V	240V	480V	600V	2400V
1	8.3	4.8	4.2	2.1	1.7	.42
1.5	12.5	7.2	6.2	3.1	2.5	.62
2	16.7	9.6	8.3	4.2	3.3	.83
3	25	14.4	12.5	6.2	5.0	1.25
5	41.7	24	20.8	10.4	8.3	2.1
7.5	62.5	36.1	31.2	15.6	12.5	3.1
10	83.4	48	41.6	20.8	16.7	4.16
15	125	72	62.5	31.2	25	6.25
25	208	120	104	52	41.7	10.4
37.5	312	180	156	78	62.5	15.6
50	417	240	208	104	83.5	20.8
75	625	361	312	156	125	31.2
100	834	480	416	208	167	41.6
125	1042	600	520	260	208	52.0
167.5	1396	805	698	349	279	70.0
200	1666	960	833	416	333	83.3
250	2080	1200	1040	520	417	104
333	2776	1600	1388	694	555	139
500	4170	2400	2080	1040	835	208

For other kVA ratings or voltages:

$$\text{Amperes} = \frac{\text{kVA} \times 1000}{\text{Volts}}$$