

**CONSTRUCTION GUIDELINE**

**FULL LOAD CURRENTS IN AMPERES –  
 SINGLE-PHASE CIRCUITS**

Full Load Current = (kVA x 1000) / Circuit Voltage

kVA	CIRCUIT VOLTAGE					
	120	240	480	2400	4160	14760
3	25.0	12.5	6.25	1.25	0.72	0.20
5	41.7	20.8	10.4	2.08	1.20	0.34
10	83.3	41.7	20.8	4.17	2.40	0.68
15	125	62.5	31.3	6.25	3.61	1.02
25	208	104	52.1	10.4	6.01	1.69
37.5	313	156	78.1	15.6	9.01	2.54
50	417	208	104	20.8	12.0	3.39
75	625	313	156	31.3	18.0	5.08
100	833	417	208	41.7	24.0	6.78
167	1392	696	348	69.6	40.1	11.3
250	2083	1042	521	104	60.1	16.9
333	2775	1388	694	139	80.0	22.6
500	4167	2083	1042	208	120	33.9

**FULL LOAD CURRENTS IN AMPERES –  
 THREE-PHASE CIRCUITS**

Full Load Current = (kVA x 1000) / ( $\sqrt{3}$  x Circuit Voltage)

kVA	CIRCUIT VOLTAGE						
	208	240	480	2400	4160	13800	26400
9	25.0	21.7	10.8	2.17	1.25	0.38	0.20
15	41.6	36.1	18.0	3.61	2.08	0.63	0.33
30	83.3	72.2	36.1	7.22	4.16	1.26	0.66
45	125	108	54	10.8	6.25	1.88	0.98
75	208	180	90.2	18.0	10.4	3.14	1.64
112.5	312	271	135	27.1	15.6	4.71	2.46
150	416	361	180	36.1	20.8	6.28	3.28
225	625	541	271	54.1	31.2	9.41	4.92
300	833	722	361	72.2	41.6	12.6	6.56
500	1388	1203	601	120	69.4	20.9	10.9
750	2082	1804	902	180	104	31.4	16.4
1000	2776	2406	1203	241	139	41.8	21.9
1500	4164	3608	1804	361	208	62.8	32.8
2000	5551	4811	2406	481	278	83.7	43.7
2500	6939	6014	3007	601	347	105	54.7

ORIGINATOR	STANDARDS COORDINATOR	STANDARDS SUPERVISOR	UNIT DIRECTOR
<i>Jim S. Horn</i>	<i>Charles L. Shaffer</i>	<i>John Skinner</i>	<i>Betty Robin</i>