

## 12. CONVERSION TABLES

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## 12. CONVERSION TABLES

### 12.1 Metric to English Conductor Size

Table 12.1—Conductor size conversion: metric to English and English to metric

Metric Conductor Area	Standard Metric Sizes	Standard English Sizes	English Conductor Area
mm <sup>2</sup>	mm <sup>2</sup>	kcmil	cmil
1,015	—	2,000	2,000,000
1,000	1,000	—	1,970,000
900	—	—	1,780,000
888	—	1,750	1,750,000
800	800	—	1,580,000
761	—	1,500	1,500,000
635	—	1,250	1,250,000
630	630	—	1,240,000
626	—	—	1,233,000
520	—	—	1,024,000
508	—	1,000	1,000,000
500	500	—	987,000
449	—	—	884,000
400	400	—	788,000
381	—	750	750,000
380	—	—	748,000
322	—	—	634,000
305	—	600	600,000
300	300	—	592,000
273	—	—	537,000
254	—	500	500,000
240	240	—	474,000
231	—	—	455,000
230	—	400	400,000
195	—	—	384,000
185	185	—	365,000
178	—	350	350,000
165	—	—	325,000
152	—	300	300,000
150	150	—	296,000

Continued



## 12. CONVERSION TABLES

Table 12.1—Conductor size conversion: metric to English and English to metric

Continued

Metric Conductor Area	Standard Metric Sizes	Standard English Sizes	English Conductor Area
mm <sup>2</sup>	mm <sup>2</sup>	kcmil or AWG	cmil
140	—	—	276,000
127	—	250	250,000
120	120	—	237,000
119	—	—	234,000
107	—	4/0	211,600
100	—	—	197,000
95	95	—	187,000
85	—	3/0	167,800
72	—	—	141,800
70	70	—	138,000
67	—	2/0	133,100
60.9	—	—	119,900
54	—	1/0	105,600
51.6	—	—	101,600
50	50	—	98,500
43.7	—	—	86,100
42	—	1	83,700
37	—	—	72,900
35	35	—	69,100
34	—	2	66,360
31.3	—	—	61,660
27	—	3	52,620
25	25	—	49,300
22.4	—	—	44,128
21	—	4	41,740
19	—	—	37,430
17	—	5	33,090
16.1	—	—	31,717
16	16	—	31,600
13.6	—	—	26,792
13.3	—	6	26,240
11.5	—	—	22,655
10.5	—	7	20,820

Continued

## 12. CONVERSION TABLES

Table 12.1—Conductor size conversion: metric to English and English to metric

Continued

Metric Conductor Area	Standard Metric Sizes	Standard English Sizes	English Conductor Area
mm <sup>2</sup>	mm <sup>2</sup>	AWG	cmil
10.00	10.00	—	19,700
9.77	—	—	19,246
8.38	—	8	16,510
8.27	—	—	16,292
7.00	—	—	13,790
6.64	—	9	13,090
6.00	6.00	—	11,800
5.93	—	—	11,682
5.26	—	10	10,380
5.02	—	—	9,889
4.25	—	—	8,372
4.00	4.00	—	7,890
3.60	—	—	7,092
3.31	—	12	6,530
2.58	—	—	5,082
2.50	2.50	—	4,930
2.18	—	—	4,294
2.08	—	14	4,110
1.85	—	—	3,644
1.57	—	—	3,093
1.50	1.50	—	2,960
1.33	—	—	2,620
1.31	—	16	2,580
1.12	—	—	2,206
1.00	1.00	—	1,970
0.95	—	—	1,871
0.82	—	18	1,620
0.75	0.75	—	1,480
0.68	—	—	1,339
0.58	—	—	1,142
0.52	—	20	1,020
0.50	0.50	—	987
0.49	—	—	965

Continued



## 12. CONVERSION TABLES

Table 12.1—Conductor size conversion: metric to English and English to metric

Continued

Metric Conductor Area	Standard Metric Sizes	Standard English Sizes	English Conductor Area
mm <sup>2</sup>	mm <sup>2</sup>	AWG	cmil
0.324	—	22	640
0.205	0.20	24	404
0.128	—	26	253
0.081	—	28	159
0.051	—	30	100
0.032	—	32	63.2
0.020	—	34	39.8
0.013	—	36	25.0
0.0080	—	38	15.7
0.0050	—	40	9.61
0.0032	—	42	6.25
0.0020	—	44	4.00
0.0013	—	46	2.56

Reference: IEC 228

## 12. CONVERSION TABLES

### 12.2 Circular Measurements — Diameter, Circumference, Area

Table 12.2—Circular measurements — diameter, circumference, area

Diameter		Circumference	Area
Inches		Inches	Sq. Inches
$\frac{1}{64}$	0.015625	0.049087	0.00019
$\frac{1}{32}$	0.031250	0.098175	0.00019
$\frac{3}{64}$	0.046875	0.147262	0.00173
$\frac{1}{16}$	0.062500	0.196350	0.00307
$\frac{3}{32}$	0.093750	0.294524	0.00690
$\frac{1}{8}$	0.125000	0.392699	0.01227
$\frac{5}{32}$	0.156250	0.490874	0.01917
$\frac{3}{16}$	0.187500	0.589049	0.02761
$\frac{7}{32}$	0.218750	0.687223	0.03758
$\frac{1}{4}$	0.250000	0.785398	0.04909
$\frac{9}{32}$	0.281250	0.883573	0.06213
$\frac{5}{16}$	0.312500	0.981748	0.07670
$1\frac{1}{32}$	0.343750	1.07992	0.09281
$\frac{3}{8}$	0.375000	1.17810	0.11045
$1\frac{3}{32}$	0.406250	1.27627	0.12962
$\frac{7}{16}$	0.437500	1.37445	0.15033
$1\frac{5}{32}$	0.468750	1.47262	0.17257
$\frac{1}{2}$	0.500000	1.57080	0.19635
$1\frac{7}{32}$	0.531250	1.66897	0.22166
$\frac{9}{16}$	0.562500	1.76715	0.24850
$1\frac{9}{32}$	0.593750	1.86532	0.27688
$\frac{5}{8}$	0.625000	1.96350	0.30680
$2\frac{1}{32}$	0.656250	2.06167	0.33824
$1\frac{1}{4}$	0.687500	2.15984	0.37122
$2\frac{3}{32}$	0.718750	2.25802	0.40574
$\frac{3}{4}$	0.750000	2.35619	0.44179
$2\frac{5}{32}$	0.781250	2.45437	0.47937
$1\frac{3}{4}$	0.812500	2.55254	0.51849
$2\frac{7}{32}$	0.843750	2.65072	0.55914
$\frac{7}{8}$	0.875000	2.74889	0.60132

Continued



## 12. CONVERSION TABLES

Table 12.2—Circular measurements — diameter, circumference, area

Continued

Diameter		Circumference	Area
Inches		Inches	Sq. Inches
$\frac{29}{32}$	0.906250	2.84707	0.64504
$\frac{15}{16}$	0.937500	2.94524	0.69029
$\frac{31}{32}$	0.968750	3.04342	0.73708
1	1.000000	3.14159	0.78540
$1\frac{1}{16}$	1.062500	3.33794	0.88664
$1\frac{1}{8}$	1.125000	3.53429	0.99402
$1\frac{3}{16}$	1.187500	3.73064	1.1075
$1\frac{1}{4}$	1.250000	3.92699	1.2272
$1\frac{5}{16}$	1.312500	4.12334	1.3530
$1\frac{3}{8}$	1.375000	4.31969	1.4849
$1\frac{7}{16}$	1.437500	4.51604	1.6230
$1\frac{1}{2}$	1.500000	4.71239	1.7671
$1\frac{9}{16}$	1.562500	4.90874	1.9175
$1\frac{5}{8}$	1.625000	5.10509	2.0739
$1\frac{11}{16}$	1.687500	5.30144	2.2365
$1\frac{3}{4}$	1.750000	5.49779	2.4053
$1\frac{13}{16}$	1.812500	5.69414	2.5802
$1\frac{7}{8}$	1.875000	5.89049	2.7612
$1\frac{15}{16}$	1.937500	6.08684	2.9483
2	2.000000	6.28319	3.1416
$2\frac{1}{16}$	2.062500	6.47953	3.3410
$2\frac{1}{8}$	2.125000	6.67588	3.5466
$2\frac{3}{16}$	2.187500	6.87223	3.7583
$2\frac{1}{4}$	2.250000	7.06858	3.9761
$2\frac{5}{16}$	2.312500	7.26493	4.2000
$2\frac{3}{8}$	2.375000	7.46128	4.4301
$2\frac{7}{16}$	2.437500	7.65763	4.6664
$2\frac{1}{2}$	2.500000	7.85398	4.9087
$2\frac{9}{16}$	2.562500	8.05033	5.1572
$2\frac{5}{8}$	2.625000	8.24668	5.4119
$2\frac{11}{16}$	2.687500	8.44303	5.6727
$2\frac{3}{4}$	2.750000	8.63938	5.9396
$2\frac{13}{16}$	2.812500	8.83573	6.2126
$2\frac{7}{8}$	2.875000	9.03208	6.4978
$2\frac{15}{16}$	2.937500	9.22843	6.7771

Continued

## 12. CONVERSION TABLES

Table 12.2—Circular measurements — diameter, circumference, area

Continued

Diameter		Circumference	Area
Inches		Inches	Sq. Inches
3	3.000000	9.42478	7.0686
3 <sup>1</sup> / <sub>6</sub>	3.062500	9.62113	7.3662
3 <sup>1</sup> / <sub>8</sub>	3.125000	9.81748	7.6699
3 <sup>3</sup> / <sub>16</sub>	3.187500	10.0138	7.9798
3 <sup>1</sup> / <sub>4</sub>	3.250000	10.2102	8.2958
3 <sup>5</sup> / <sub>16</sub>	3.312500	10.4065	8.6179
3 <sup>3</sup> / <sub>8</sub>	3.375000	10.6029	8.9462
3 <sup>7</sup> / <sub>16</sub>	3.437500	10.7992	9.2806
3 <sup>1</sup> / <sub>2</sub>	3.500000	10.9956	9.6211
3 <sup>5</sup> / <sub>8</sub>	3.562500	11.1919	9.9678
3 <sup>9</sup> / <sub>16</sub>	3.625000	11.3883	10.3206
3 <sup>1</sup> / <sub>2</sub>	3.687500	11.5846	10.6796
3 <sup>3</sup> / <sub>4</sub>	3.750000	11.7810	11.0447
3 <sup>1</sup> / <sub>2</sub>	3.812500	11.9773	11.4159
3 <sup>7</sup> / <sub>8</sub>	3.875000	12.1737	11.7932
3 <sup>9</sup> / <sub>16</sub>	3.937500	12.3700	12.1767
4	4.000000	12.5664	12.566
4 <sup>1</sup> / <sub>6</sub>	4.062500	12.7627	12.962
4 <sup>1</sup> / <sub>8</sub>	4.125000	12.9591	13.364
4 <sup>3</sup> / <sub>16</sub>	4.187500	13.1554	13.772
4 <sup>1</sup> / <sub>4</sub>	4.250000	13.3518	14.186
4 <sup>5</sup> / <sub>16</sub>	4.312500	13.5481	14.607
4 <sup>3</sup> / <sub>8</sub>	4.375000	13.7445	15.033
4 <sup>7</sup> / <sub>16</sub>	4.437500	13.9408	15.466
4 <sup>1</sup> / <sub>2</sub>	4.500000	14.1372	15.904
4 <sup>9</sup> / <sub>16</sub>	4.562500	14.3335	16.349
4 <sup>5</sup> / <sub>8</sub>	4.625000	14.5299	16.800
4 <sup>1</sup> / <sub>2</sub>	4.687500	14.7262	17.257
4 <sup>3</sup> / <sub>4</sub>	4.750000	14.9226	17.721
4 <sup>1</sup> / <sub>2</sub>	4.812500	15.1189	18.190
4 <sup>7</sup> / <sub>8</sub>	4.875000	15.3153	18.665
4 <sup>1</sup> / <sub>2</sub>	4.937500	15.5116	19.147
5	5.000000	15.7050	19.635
5 <sup>1</sup> / <sub>6</sub>	5.062500	15.9043	20.129

Continued



## 12. CONVERSION TABLES

**Table 12.2—Circular measurements — diameter, circumference, area**

Continued

Diameter		Circumference	Area
Inches		Inches	Sq. Inches
5/8	5.125000	16.1007	20.629
5/16	5.187500	16.2970	21.135
5/4	5.250000	16.4943	21.648
5/16	5.312500	16.6897	22.166
5/8	5.375000	16.8861	22.691
5/16	5.437500	17.0824	23.221
5/2	5.500000	17.2788	23.758
5/16	5.562500	17.4751	24.301
5/8	5.625000	17.6715	24.850
5 <sup>11</sup> / <sub>16</sub>	5.687500	17.8678	25.406
5 <sup>3</sup> / <sub>4</sub>	5.750000	18.0642	25.967
5 <sup>13</sup> / <sub>16</sub>	5.812500	18.2605	26.535
5/8	5.875000	18.4589	27.109
5 <sup>15</sup> / <sub>16</sub>	5.937500	18.6532	27.688
6	6.000000	18.8496	28.274
6/8	6.125000	19.2423	29.465
6/4	6.250000	19.6350	30.680
6 <sup>3</sup> / <sub>8</sub>	6.375000	20.0277	31.919
6 <sup>1</sup> / <sub>2</sub>	6.500000	20.4202	33.183
6 <sup>5</sup> / <sub>8</sub>	6.625000	20.8131	34.472
6 <sup>3</sup> / <sub>4</sub>	6.750000	21.2058	35.785
6 <sup>7</sup> / <sub>8</sub>	6.875000	21.5984	37.122
7	7.000000	21.9911	38.485
7 <sup>1</sup> / <sub>8</sub>	7.125000	22.3838	39.871
7 <sup>1</sup> / <sub>4</sub>	7.250000	22.7765	41.282
7 <sup>3</sup> / <sub>8</sub>	7.375000	23.1692	42.718
7 <sup>1</sup> / <sub>2</sub>	7.500000	23.5619	44.179
7 <sup>5</sup> / <sub>8</sub>	7.625000	23.9546	45.664
7 <sup>3</sup> / <sub>4</sub>	7.750000	24.3473	47.173
7 <sup>7</sup> / <sub>8</sub>	7.875000	24.7400	48.707
8	8.000000	25.1327	50.265
8 <sup>1</sup> / <sub>8</sub>	8.125000	25.5254	51.849
8 <sup>1</sup> / <sub>4</sub>	8.250000	25.9181	53.456
8 <sup>3</sup> / <sub>8</sub>	8.375000	26.3108	55.088
8 <sup>1</sup> / <sub>2</sub>	8.500000	26.7035	56.745
8 <sup>5</sup> / <sub>8</sub>	8.625000	27.0962	58.426

Continued

## 12. CONVERSION TABLES

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Table 12.2—Circular measurements — diameter, circumference, area

Continued

Diameter		Circumference	Area
Inches		Inches	Sq. Inches
8¼	8.750000	27.4889	60.132
8½	8.875000	27.8816	61.862
9	9.000000	28.2743	63.617
9¼	9.125000	28.6670	65.397
9½	9.250000	29.0597	67.201
9¾	9.375000	29.4524	69.029
9½	9.500000	29.8451	70.882
9¾	9.625000	30.2378	72.760
9¾	9.750000	30.6305	74.662
9¾	9.875000	31.0232	76.589
10	10.000000	31.4159	78.540

- Notes: 1. Multiply square inches by 645.16 to calculate mm<sup>2</sup>.  
 2. Multiply inches by 25.4 to calculate mm.  
 3. Multiply inches by 1,000 to calculate mils.

### 12.3 Length, Weight, Area, Power, etc.

Table 12.3–Conversion factors

To Convert From	To	Multiply By
<b>AREA</b>		
Circular mils	Square inches	0.0000007854
Circular mils	Square mils	0.7854
<b>Circular mils</b>	<b>Square millimeters</b>	<b>0.0005067</b>
Square centimeters	Square inches	0.155
Square feet	Square meters	0.0929
Square inches	Circular mils	1,273,240
Square inches	Square centimeters	6.4516
Square inches	Square millimeters	645.16
Square inches	Square mils	1,000,000
Square meters	Square feet	10.764
Square millimeters	Square inches	0.00155
<b>Square millimeters</b>	<b>Circular mils</b>	<b>1,973.53</b>
Square mils	Circular mils	1.2732
Square mils	Square inches	0.000001
<b>LENGTH</b>		
Centimeters	Inches	0.3937
Centimeters	Feet	0.03281
Feet	Centimeters	30.48
<b>Feet</b>	<b>Meters</b>	<b>0.3048</b>
Inches	Centimeters	2.54
Inches	Meters	0.0254
<b>Inches</b>	<b>Millimeters</b>	<b>25.4</b>
Inches	Mils	1,000
Kilometers	Miles	0.6214
<b>Meters</b>	<b>Feet</b>	<b>3.2808</b>
Meters	Inches	39.3701
Meters	Yards	1.0936
Miles	Kilometers	1.6093
<b>Millimeters</b>	<b>Inches</b>	<b>0.03937</b>
Millimeters	Mils	39.3701
Mils	Inches	0.001
Mils	Millimeters	0.0254
Yards	Meters	0.9144

Continued

## 12. CONVERSION TABLES

Table 12.3—Conversion factors

Continued

To Convert From	To	Multiply By
<b>POWER</b>		
Foot-Pounds per minute	Horsepower	0.000303
Foot-Pounds per minute	Watts	0.0226
Foot-Pounds per second	Horsepower	0.001818
Foot-Pounds per second	Watts	1.356
Horsepower	Foot-Pounds per minute	33,000
Horsepower	Foot-Pounds per second	550
<b>Horsepower</b>	<b>Watts</b>	<b>746</b>
Kilogram-meters per sec.	Watts	9.807
Watts	Foot-Pounds per minute	44.25
Watts	Foot-Pounds per second	0.7375
Watts	Horsepower	0.001341
Watts	Kilogram-meters per sec.	0.1020
<b>ENERGY</b>		
British thermal units	Foot-pounds	778
British thermal units	Joules	1,055
British thermal units	Watt-hours	0.293
Foot-pounds	British thermal units	0.001285
Foot-pounds	Joules	1.356
Foot-pounds	Kilogram-meters	0.1383
Gram calories	Joules	4.186
Joules	British thermal units	0.000947
Joules	Ergs	107
Joules	Foot-pounds	0.7375
Joules	Gram-calories	0.2388
Joules	Kilogram-meters	0.10198
Kilogram-meters	Foot-pounds	7.233
Kilogram-meters	Joules	9.8117
Watt-hours	British thermal units	3.4126

Continued

**Table 12.3–Conversion factors**

Continued

To Convert From	To	Multiply By
<b>MISCELLANEOUS</b>		
Kilograms	Pounds	2.205
<b>Kilograms per kilometer</b>	<b>Pounds per 1,000 feet</b>	<b>0.6719</b>
Ohms per kilometer	Ohms per 1,000 feet	0.3048
Ohms per 1,000 feet	Ohms per kilometer	3.2808
Ohms per 1,000 yards	Ohms per kilometer	1.0936
Pounds	Kilograms	0.4536
<b>Pounds per 1,000 feet</b>	<b>Kilograms per kilometer</b>	<b>1.488</b>
Pounds per 1,000 yards	Kilograms per kilometer	0.4960
Pounds per 1,000 yards	Pounds per kilometer	1.0936
Newtons	Pound-force	0.2248
Pound-force	Newtons	4.4482
Diam. circle	Circumference	3.1416
Diam. circle	Side of equal square	0.8862
Diam. sphere cubed	Volume of sphere	0.5236
U.S. gallons	Imperial gallons (British)	0.8327
U.S. gallons	Cubic feet	0.1337
U.S. gallons	Pounds of water (20°C)	8.33
Cubic feet	Pounds of water (4°C)	62.427
Feet of water (4°C)	Pounds per square inch	0.4336
Inches of mercury (0°C)	Pounds per square inch	0.4912
Knots	Miles per hour	1.1516

Note: Frequently used conversions are shown in bold type. To convert in the reverse direction, divide by the factor given in the table.

## 12. CONVERSION TABLES

### 12.4 Temperature Conversion

Table 12.4—Degrees centigrade (Celsius) vs. degrees Fahrenheit

Conversion Formula: °F = 9/5 °C + 32°  
°C = 5/9 (°F – 32°)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
-80	-112.0	-15	5.0	15	59.0	45	113.0	75	167.0	105	221.0	135	275.0	600	1,112
-70	-94.0	-14	6.8	16	60.8	46	114.8	76	168.8	106	222.8	136	276.8	700	1,292
-60	-76.0	-13	8.6	17	62.6	47	116.6	77	170.6	107	224.6	137	278.6	800	1,472
-50	-58.0	-12	10.4	18	64.4	48	118.4	78	172.4	108	226.4	138	280.4	900	1,652
-45	-49.0	-11	12.2	19	66.2	49	120.2	79	174.2	109	228.2	139	282.2	1,000	1,832
-40	-40.0	-10	14.0	20	68.0	50	122.0	80	176.0	110	230.0	140	284.0	1,000	2,012
-39	-38.2	-9	15.8	21	69.8	51	123.8	81	177.8	111	231.8	141	285.8	1,200	2,192
-38	-36.4	-8	17.6	22	71.6	52	125.6	82	179.6	112	233.6	142	287.6	1,300	2,372
-37	-34.6	-7	19.4	23	73.4	53	127.4	83	181.4	113	235.4	143	289.4	1,400	2,552
-36	-32.8	-6	21.2	24	75.2	54	129.2	84	183.2	114	237.2	144	291.2	1,500	2,732
-35	-31.0	-5	23.0	25	77.0	55	131.0	85	185.0	115	239.0	145	293.0	1,600	2,912
-34	-29.2	-4	24.8	26	78.8	56	132.8	86	186.8	116	240.8	146	294.8	1,700	3,092
-33	-27.4	-3	26.6	27	80.6	57	134.6	87	188.6	117	242.6	147	296.6	1,800	3,272
-32	-25.6	-2	28.4	28	82.4	58	136.4	88	190.4	118	244.4	148	298.4	1,900	3,452
-31	-23.8	-1	30.2	29	84.2	59	138.2	89	192.2	119	246.2	149	300.2	2,000	3,632
-30	-22.0	*0	*32.0	30	86.0	60	140.0	90	194.0	120	248.0	150	302.0		
-29	-20.2	1	33.8	31	87.8	61	141.8	91	195.8	121	249.8	160	320.0		
-28	-18.4	2	35.6	32	89.6	62	143.6	92	197.6	122	251.6	170	338.0		
-27	-16.6	3	37.4	33	91.4	63	145.4	93	199.4	123	253.4	180	356.0		
-26	-14.8	4	39.2	34	93.2	64	147.2	94	201.2	124	255.2	190	374.0		
-25	-13.0	5	41.0	35	95.0	65	149.0	95	203.0	125	257.0	200	392		
-24	-11.2	6	42.8	36	96.8	66	150.8	96	204.8	126	258.8	210	410		
-23	-9.4	7	44.6	37	98.6	67	152.6	97	206.6	127	260.6	220	428		
-22	-7.6	8	46.4	38	100.4	68	154.4	98	208.4	128	262.4	230	446		
-21	-5.8	9	48.2	39	102.2	69	156.2	99	210.2	129	264.2	240	464		
-20	-4.0	10	50.0	40	104.0	70	158.0	†100	†212.0	130	266.0	250	482		
-19	-2.2	11	51.8	41	105.8	71	159.8	101	213.8	131	267.8	300	572		
-18	-0.4	12	53.6	42	107.6	72	161.6	102	215.6	132	269.6	350	662		
-17	1.4	13	55.4	43	109.4	73	163.4	103	217.4	133	271.4	400	752		
-16	3.2	14	57.2	44	111.2	74	165.2	104	219.2	134	273.2	500	932		

\*Freezing

†Boiling

**12.5 KVA to Amperes**

Table 12.5–KVA to amperes

SINGLE PHASE			
KVA Rating	Amperes		
	120V	240V	480V
1	8.33	4.16	2.08
1.5	12.5	6.24	3.12
2	16.66	8.33	4.16
3	25	12.5	6.1
5	41	21	10.4
7.5	62	31	15.6
10	83	42	21
15	124	62	31
25	208	104	52
37.5	312	156	78
50	416	208	104
75	624	312	156
100	830	415	207
167	1,390	695	348
200	1,660	833	416

Continued

## 12. CONVERSION TABLES

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Table 12.5–KVA to amperes

Continued

THREE PHASE				
KVA Rating	Amperes			
	208V	240V	480V	600V
3	8.3	7.2	3.6	2.9
6	16.6	14.4	7.2	5.8
9	25.0	21.6	10.8	8.7
15	41.6	36	18	14.4
30	83.0	72	36	28.8
45	125	108	54	43
75	208	180	90	72
112.5	312	270	135	108
150	415	360	180	144
200	554	480	240	192
225	625	540	270	216
300	830	720	360	288
400	1,110	960	480	384
500	1,380	1,200	600	480
750	2,080	1,800	900	720