

## TRANSFORMER FULL LOAD CURRENT RATINGS

### Three Phase 600V Class

To calculate **full load current**, use this formula:

$$\text{Amps} = \text{KVA} \div \text{Volts} \div 1.732 \times 1000$$

To calculate **KVA**, use this formula:

$$\text{KVA} = \text{Volts} \times \text{Amps} \times 1.732 \div 1000$$

GENERAL PURPOSE					
KVA	VOLTAGE				
	208	240	480	575	600
1	2.8	2.4	1.2	1.0	1.0
2	5.6	4.8	2.4	2.0	1.9
3	8.3	7.2	3.6	3.0	2.9
5	13.9	12.0	6.0	5.0	4.8
6	16.7	14.4	7.2	6.0	5.8
7.5	20.8	18.0	9.0	7.5	7.2
9	25.0	21.7	10.8	9.0	8.7
10	27.8	24.1	12.0	10.0	9.6
15	41.6	36.1	18.0	15.1	14.4
30	83.3	72.2	36.1	30.1	28.9
45	124.9	108.3	54.1	45.2	43.3
75	208.2	180.4	90.2	75.3	72.2
112.5	312.3	270.6	135.3	113.0	108.3
150	416.4	360.9	180.4	150.6	144.3
225	624.6	541.3	270.6	225.9	216.5
300	832.7	721.7	360.9	301.2	288.7
500	1387.9	1202.8	601.4	502.1	481.1
750	2081.9	1804.3	902.1	753.1	721.7
1000	2775.8	2405.7	1202.8	1004.1	962.3
1500	4163.7	3608.5	1804.3	1506.2	1443.4
2000	-	-	2405.7	2008.2	1924.6
2500	-	-	3007.1	2510.3	2405.7
3000	-	-	3608.5	3012.4	2886.8
3750	-	-	4510.7	3765.4	3608.5

DRIVE ISOLATION		
KVA	VOLTAGE	
	230	460
7.5	18.8	9.4
11	27.6	13.8
14	35.1	17.6
20	50.2	25.1
27	67.8	33.9
34	85.3	42.7
40	100.4	50.2
51	128.0	64.0
63	158.1	79.1
75	188.3	94.1
93	233.5	116.7
118	296.2	148.1
145	364.0	182.0
175	439.3	219.7
220	552.3	276.1
275	690.3	345.2
330	828.4	414.2
440	1104.5	552.3
550	1380.7	690.3
660	1656.8	828.4
770	1932.9	966.5
880	2209.1	1104.5
990	2485.2	1242.6

Fields containing " - " indicate the current value exceeds the capacity of some current-carrying components such as bushings, cables, bussing, etc.

### Single Phase 600V Class

To calculate **full load current**, use this formula:

$$\text{Amps} = \text{KVA} \div \text{Volts} \times 1000$$

To calculate **KVA**, use this formula:

$$\text{KVA} = \text{Volts} \times \text{Amps} \div 1000$$

KVA	VOLTAGE				
	120	240	277	480	600
10	83.3	41.7	36.1	20.8	16.7
15	125.0	62.5	54.2	31.3	25.0
25	208.3	104.2	90.3	52.1	41.7
37.5	312.5	156.3	135.4	78.1	62.5
50	416.7	208.3	180.5	104.2	83.3
75	625.0	312.5	270.8	156.3	125.0
100	833.3	416.7	361.0	208.3	166.7
167	1391.7	695.8	602.9	347.9	278.3
250	2083.3	1041.7	902.5	520.8	416.7
333	2775.0	1387.5	1202.2	693.8	555.0
500	4166.7	2083.3	1805.1	1041.7	833.3