

5.4 THREE-PHASE TRANSFORMERS

FULL-LOAD CURRENTS THREE-PHASE TRANSFORMERS

FULL-LOAD CURRENT IN AMPERES

| KVA RATING | RATED VOLTAGE (LINE TO LINE) | | | | | |
|---------------|------------------------------|-------|-------|------|-------|-------|
| | 208V | 240V | 480V | 600V | 2400V | 4160V |
| 3 | 8.3 | 7.2 | 3.6 | 2.9 | .72 | .42 |
| 6 | 16.6 | 14.4 | 7.2 | 5.8 | 1.44 | .83 |
| 9 | 25 | 21.6 | 10.8 | 8.7 | 2.16 | 1.25 |
| 15 | 41.6 | 36.0 | 18.0 | 14.4 | 3.6 | 2.1 |
| 22.5 | 62 | 54 | 27 | 21.6 | 5.4 | 3.1 |
| 25 | 69 | 60 | 30 | 24 | 6 | 3.5 |
| 30 | 83 | 72 | 36 | 29 | 7.2 | 4.15 |
| 37.5 | 104 | 90 | 45 | 36 | 9 | 5.2 |
| 45 | 125 | 108 | 54 | 43 | 10.8 | 6.25 |
| 50 | 139 | 120 | 60 | 48 | 12 | 7 |
| 75 | 208 | 180 | 90 | 72 | 18 | 10.4 |
| 112.5 | 312 | 270 | 135 | 108 | 27 | 15.6 |
| 150 | 416 | 360 | 180 | 144 | 36 | 20.8 |
| 225 | 625 | 542 | 271 | 217 | 54 | 31.2 |
| 300 | 830 | 720 | 360 | 290 | 72 | 41.5 |
| 500 | 1390 | 1200 | 600 | 480 | 120 | 69.4 |
| 600 | 1665 | 1443 | 722 | 577 | 144 | 83 |
| 750 | 2080 | 1800 | 900 | 720 | 180 | 104 |
| 1000 | 2775 | 2400 | 1200 | 960 | 240 | 139 |
| 1500 | 4150 | 3600 | 1800 | 1440 | 360 | 208 |
| 2000 | 5550 | 4800 | 2400 | 1930 | 480 | 277 |
| 2500 | 6950 | 6000 | 3000 | 2400 | 600 | 346 |
| 5000 | 13900 | 12000 | 6000 | 4800 | 1200 | 694 |
| 7500 | 20800 | 18000 | 9000 | 7200 | 1800 | 1040 |
| 10000 | 27750 | 24000 | 12000 | 9600 | 2400 | 1386 |

For other kVA ratings or voltages:

$$\text{Amperes} = \frac{\text{kVA} \times 1000}{\text{Volts} \times 1.732}$$