

## STANDARD CALCULATION: ONE-FAMILY DWELLING

### 1. GENERAL LIGHTING: Table 220-3(a)

_____ sq ft × 3 VA =	_____ VA			
Small appliances: 220-16(a)				
_____ VA × _____ circuits =	_____ VA			
Laundry: 220-16(b)				
_____ VA × 1 =	_____ VA			
	_____ VA			
Applying Demand Factors: Table 220-11				
First 3000 VA × 100% =	3000 VA			
Next _____ VA × 35% =	_____ VA	<b>PHASES</b>	<b>NEUTRAL</b>	
Remaining _____ VA × 25% =	_____ VA			
Total	_____ VA	_____ VA	_____ VA	

### 2. FIXED APPLIANCES: 220-17

Dishwasher = _____ VA				
Disposer = _____ VA				
Compactor = _____ VA				
Water heater = _____ VA				
_____ = _____ VA				
_____ = _____ VA				
_____ = _____ VA				
Total	_____ VA × 75% = _____ VA	_____ VA	_____ VA	(120 V Loads × 75%)

### 3. DRYER: 220-18; Table 220-18

_____ VA × _____% =	_____ VA	_____ VA × 70% =	_____ VA	
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### 4. COOKING EQUIPMENT: Table 220-19; Notes

Col A _____ VA × _____% =	_____ VA			
Col B _____ VA × _____% =	_____ VA			
Col C _____ VA × _____% =	_____ VA			
Total	_____ VA	_____ VA × 70% =	_____ VA	

### 5. HEATING or A/C: 220-21

Heating unit = _____ VA × 100% =	_____ VA			
A/C unit = _____ VA × 100% =	_____ VA			
Heat pump = _____ VA × 100% =	_____ VA			
Largest Load	_____ VA	_____ VA	_____ VA	

### 6. LARGEST MOTOR: 220-14

φ _____ VA × 25% =	_____ VA	_____ VA		
N _____ VA × 25% =	_____ VA			

1φ service: PHASES  $I = \frac{VA}{V} = \text{_____ A}$

NEUTRAL  $I = \frac{VA}{V} = \text{_____ A}$         VA        VA

220-22; First 200 A × 100% =	200 A			
Remaining _____ A × 70% =	_____ A			
Total	_____ A			