OPTIONAL CALCULATION: ONE-FAMILY DWELLING

1. HEATING and A/C: *220-30(c)(1 – 6)*

Heating units (3 or less) = _____ VA × 65% =	_____ VA		
Heating units (4 or more) = _____ VA × 40% =	_____ VA		
A/C unit = _____ VA × 100% =	_____ VA		
Heat pump = _____ VA × 100% =	_____ VA	**PHASES**	
Largest Load	_____ VA		
Total	_____ VA	_____ VA	

2. GENERAL LOADS: *220-30(b)(1 – 4)*

General lighting: *220-30(b)(2)*

_____ sq ft × 3 VA _____ VA

Small appliance and laundry loads: *220-30(b)(1)*

_____ VA × _____ circuits = _____ VA

Special loads: *220-30(b)(3)(4)*

Dishwasher =	_____ VA	
Disposer =	_____ VA	
Compactor =	_____ VA	
Water heater =	_____ VA	
_____ =	_____ VA	
_____ =	_____ VA	
_____ =	_____ VA	
_____ =	_____ VA	
_____ =	_____ VA	
	_____ VA	_____ VA
	Total	_____ VA

Applying Demand Factors: *220-30(b)*

First 10,000 VA × 100% =	10,000 VA	
Remaining _____ VA × 40% =	_____ VA	
Total	_____ VA	_____ VA

NEUTRAL (Loads from Standard Calculation)

1. General lighting =	_____ VA
2. Fixed appliances =	_____ VA
3. Dryer =	_____ VA
4. Cooking equipment =	_____ VA
5. Heating or A/C =	_____ VA
6. Largest motor =	_____ VA
Total	☐ VA

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

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

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