



$$S = 30 \text{ kVA}$$

$$V_{HV} = 415 \text{ V}$$

$$V_{LV} = 240$$

$$Z\% = 3$$

$$I_{FLA-HV} = 72.29 \text{ A}$$

$$I_{FLA-LV} = 125 \text{ A}$$

$$Z_{BASE} = 1.92 \Omega$$

$$Z_T = 0.0576 \Omega$$

$$I_{F(A-N)} = 4166.667 \text{ A}$$

$$I_{F(A-E)} = ???$$

$$S = 90 \text{ kVA}$$

$$V_{HV} = 415 \text{ V}$$

$$V_{LV} = 415.6922$$

$$Z\% = 3$$

$$I_{FLA-HV} = 125.21 \text{ A}$$

$$I_{FLA-LV} = 125.42 \text{ A}$$

$$Z_{BASE} = 1.92 \Omega$$

$$Z_T = 0.0576 \Omega$$

$$I_{F(3\Theta)} = 4166.667 \text{ A}$$

$$\text{PTW } I_{F(3\Theta)} = 3480 \text{ A}$$

PTW value is less because of source impedance.