CONSTRUCTION ELECTRICIAN IP FORMULAS

$$E_{line} = E_{phase} \times \sqrt{3}$$

$$\frac{E_p}{E_s} = \frac{N_p}{N_s} = \frac{I_s}{I_p}$$

$$\text{Frequency} = \frac{\text{poles} \times \text{speed}}{120}$$

$$I = \frac{E}{R}$$

$$I_{line} = I_{phase} \times \sqrt{3}$$

$$I_{line} = \left(Va/V_{line} \times \sqrt{3}\right) \times 1.25$$

$$I_{\text{short circuit}} = \frac{I_{\text{secondary}}}{\%Z}$$

$$kVA = 1.73 \times E_{line} \times I_{line}$$

$$\frac{N_p}{N_s} = \frac{E_p}{E_s}$$

CONSTRUCTION ELECTRICIAN IP FORMULAS (continued)

$$\frac{E_p}{E_s} = \frac{N_p}{N_s} = \frac{I_s}{I_p}$$

$$\text{Frequency} = \frac{\text{Poles} \times \text{Speed}}{120}$$

$$I_{\text{Short Circuit}} = \frac{I_{\text{Secondary}}}{\%\,Z}$$