Single Phase $\overline{S}$: $\overline{S} = \overline{V} \cdot \overline{I}^*$

Q for L and C: $Q_L = \frac{V^2}{X_L}$ $\qquad$ $Q_C = \frac{V^2}{X_C}$

Y Connection: $\overline{V_{ll}} = \sqrt{3}\angle 30^o \cdot \overline{V_\phi}$

Δ Connection: $\overline{I_l} = \sqrt{3}\angle -30^o \cdot \overline{I_\phi}$

3 Phase Power: $\overline{S_{3\phi}} = 3 \cdot \overline{V_\phi} \cdot \overline{I_\phi^*}$

$S = \sqrt{3} \cdot V_{ll} \cdot I_l$

$P = S \cdot pf$ $\qquad$ $S^2 = P^2 + Q^2$