Curto Circuito:

$$|Z_t| = \frac{V_{cc}}{I_{cc}}$$

$$|Z_t| = 2.2\Omega$$

$$R_t = \frac{P_{cc}}{I_{cc}^2}$$

$$R_t = 2.07\Omega$$

$$X_t = \sqrt{|Z_t|^2 - R_t^2} = 0.745\Omega$$

Circuito Aberto:

$$R'_{m} = \frac{V_{oc}^{2}}{P_{oc}}$$

$$|Z_{oc}|' = \frac{V_{oc}}{I_{oc}}$$

$$X'_{m} = \left(\sqrt{\frac{1}{|Z_{oc}|'^{2}} - \frac{1}{R'_{m}^{2}}}\right)^{-1}$$

$$X_{m} = N^{2}X'_{m}$$

$$R_{m} = N^{2}R'_{m}$$