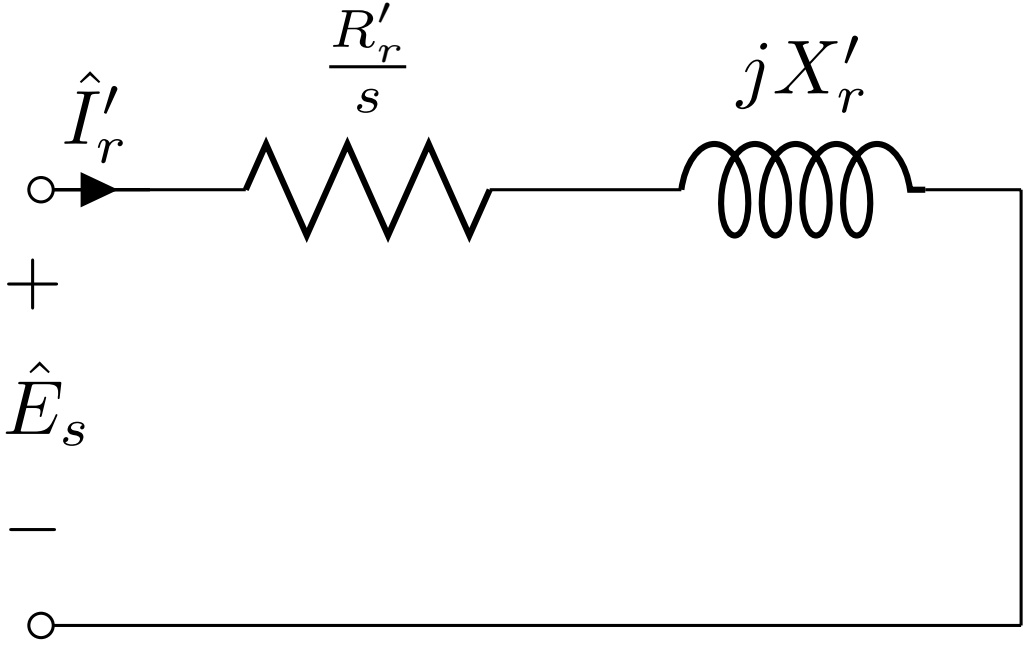

$$R'_r = \left(\frac{N_s}{N_r}\right)^2 R_r$$

$$X'_r = \left(\frac{N_s}{N_r}\right)^2 X_r$$

$$i'_a(t) = \frac{sE_s}{\sqrt{R'^2_r + s^2 X'^2_r}} \cos(s\omega_e t - \theta_0 - \phi_z)$$