Discrete
5e-05 s.
powergui

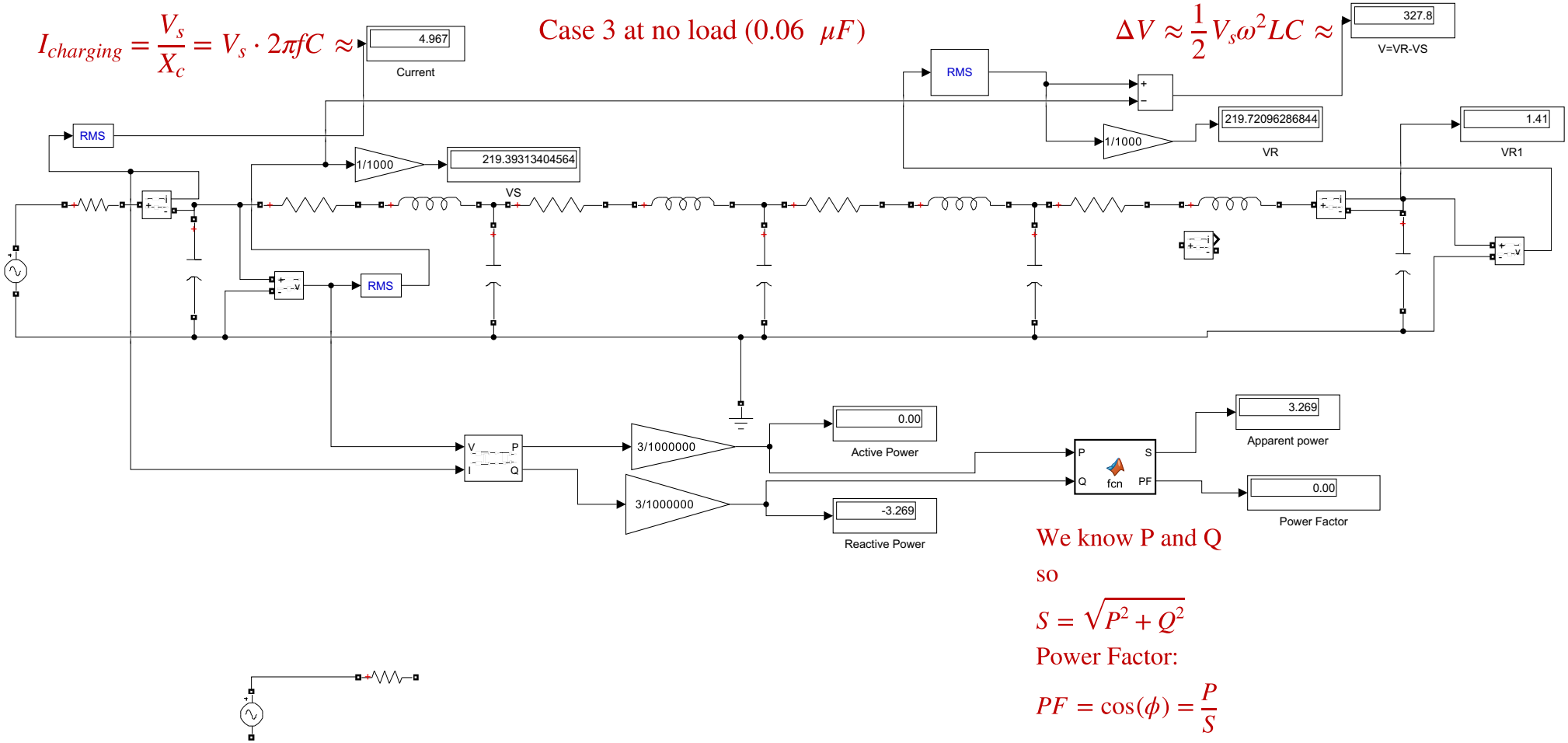
Charging Current:

$$I_{charging} = \frac{V_s}{X_c} = V_s \cdot 2\pi f C \approx$$

Case 3 at no load (0.06 μF)

Ferranti Effect Voltage Rise:

$$\Delta V \approx \frac{1}{2} V_s \omega^2 LC \approx$$



We know P and Q

so

$$S = \sqrt{P^2 + Q^2}$$

Power Factor:

$$PF = \cos(\phi) = \frac{P}{S}$$