Use transformer MVA as base

IrunFullVoltage= $0.1 \cdot \left(0.8 - i \cdot \left(\sqrt{1 - 0.8^2}\right)\right)$ IrunFullVoltage= $0.08 - 0.06 \cdot i$

IstartFullVoltage= $0.6 \cdot \left(0.2 - i \cdot \sqrt{1 - 0.2^2}\right)$ IstartFullVoltage= 0.12 - 0.5879 i

$$X := \frac{(1 + 6 \cdot i)}{\sqrt{1^2 + 6^2}} \cdot 0.06$$

X = 0.0099 + 0.0592 i

Huge simplifying assumption... currents don't change with voltage

"(otherwise we need load flow or a little more work)

First solution is using magnitudes

Vlowside= 1-|X|·(6·|IrunFullVoltag+|IstartFullVoltag+)
Vlowside= 0.928

More exact solution using complex numbers

Vlowside = 1 - X (6 IrunFullVoltage IstartFullVoltage)

Vlowside= 0.938-0.0262 i

Vlowside = 0.9383