Her kan man teste sine formler
Fra Sk til Z

$$\overline{Z}_{min} = \frac{U_n^2 \cdot c_{max}}{S_{kn,max}} \angle \text{arccot}\left(\frac{R}{X}\right) [\Omega]$$
$$= \frac{10000^2 \cdot 1}{115 \cdot 10^6} \angle \text{arccot}(0,2)$$
$$= 0.17 + j0.85\Omega$$

Kabel dimensionering strøm

$$I_{z,min} = \frac{I_B}{K_t \cdot K_s \cdot K_{tm} \cdot K_n}$$
$$= \frac{132}{1.03 \cdot 0.85 \cdot 0.85 \cdot 1}$$
$$= 181$$

$$Z_{trafo,prim,t1} = \frac{U_n^2 \cdot e_k}{S_n} \angle cos^{-1}\left(\frac{P_{cu}}{S_n \cdot e_k}\right)$$
$$= \frac{10500^2 \cdot 0.04}{630000} \angle cos^{-1}\left(\frac{4600}{630000 \cdot 0.04}\right)$$
$$= 1.28 + j6.88\Omega$$

$$Z_{kabel} = l \cdot (r + jx) = 1 \cdot (0.125 + j0.087) = 0.13 + j0.09\Omega$$

1.452647927062851637
w

$$I_{1f.max.T1} = \frac{U_n}{\sqrt{3} \cdot (Z_{net.min} + Z_{trafo.T1} + Z_{W1})}$$
$$= \frac{10000}{\sqrt{3} \cdot ((0.5 + j0.2) + (0.175 + j0.88) + (0.206 + j0.075))}$$
$$= 3974.47A$$