# Skupina 1

>> TRaVEDCast0Sk1

Un = 220

Um = 179.63

f = 50

Omega = 314.16

Sn = 200

Uk = 10

I0 = 0.50000

dPk = 0.50000

dP0 = 0.20000

dPcu = 0.50000

dPfe = 0.20000

Rk = 1.2100

Zk = 24.200

Xs = 24.170

Ls = 0.076935

Rk1 = 0.60500

Ls1 = 0.038467

Xs1 = 12.085

Gfe = 0.0000082645

Rfe = 121000

Yg = 0.000020661

Xh = 52808.72944

Lh = 168.10

>> TRaVEDCast1

Z0=sqrt(Rk1^2+Xh^2)

I0m=Um/Z0

Tau0=Lh/Rk1

Psi0=atan(Xh/Rk1)

Z0 = 52808.72944

I0m = 0.0034015

Tau0 = 277.84

Psi0 = 1.5708

>> TRaVEDCast2

In=Sn/(sqrt(3)\*Un)

I0mPom=In\*I0/100\*sqrt(2)\*2

Z02=Rk1+i\*Xs1+1/(1/Rfe+1/(i\*Xh))

I0m2=Um/abs(Z02)

Psi02=atan(imag(Z02)/real(Z02))

Zpozdeni0=Psi02/pi\*0.01

In = 0.52486

I0mPom = 0.0074227

Z02 = 19360.60500 + 44371.41759i

I0m2 = 0.0037105

Psi02 = 1.1594

Zpozdeni0 = 0.0036904

>> TRaVEDCast3

Ikm=(Uk/100)\*Um/Zk

TauK=Ls/Rk

PsiK=atan(Xs/Rk)

Ikm = 0.74227

TauK = 0.063582

PsiK = 1.5208

>> TRaVEDCast4

IkmPom=In\*sqrt(2)\*2

Zk2=  
Rk1+i\*Xs1+1/(1/Rfe+1/(i\*Xh)+1/(Rk1+i\*Xs1))

Ikm2=(Uk/100)\*Um/abs(Zk2)

PsiK2=atan(imag(Zk2)/real(Zk2))

ZpozdeniK=PsiK2/pi\*0.01

IkmPom = 1.4845

Zk2 = 1.2109 + 24.1669i

Ikm2 = 0.74236

PsiK2 = 1.5207

ZpozdeniK = 0.0048406

# Skupina 2

>> TRaVEDCast0Sk2

Un = 400

Um = 326.60

f = 50

Omega = 314.16

Sn = 350

Uk = 10

I0 = 0.40000

dPk = 1

dP0 = 0.30000

dPcu = 1

dPfe = 0.30000

Rk = 4.5714

Zk = 45.714

Xs = 45.485

Ls = 0.14478

Rk1 = 2.2857

Ls1 = 0.072392

Xs1 = 22.743

Gfe = 0.0000065625

Rfe = 152380.95238

Yg = 0.0000087500

Xh = 172783.75909

Lh = 549.99

>> TRaVEDCast1

Z0=sqrt(Rk1^2+Xh^2)

I0m=Um/Z0

Tau0=Lh/Rk1

Psi0=atan(Xh/Rk1)

Z0 = 172783.75911

I0m = 0.0018902

Tau0 = 240.62

Psi0 = 1.5708

>> TRaVEDCast2

In=Sn/(sqrt(3)\*Un)

I0mPom=In\*I0/100\*sqrt(2)\*2

Z02=Rk1+i\*Xs1+1/(1/Rfe+1/(i\*Xh))

I0m2=Um/abs(Z02)

Psi02=atan(imag(Z02)/real(Z02))

Zpozdeni0=Psi02/pi\*0.01

In = 0.50518

I0mPom = 0.0057155

Z02 = 85716.57143 + 75615.63717i

I0m2 = 0.0028573

Psi02 = 0.72287

Zpozdeni0 = 0.0023010

>> TRaVEDCast3

Ikm=(Uk/100)\*Um/Zk

TauK=Ls/Rk

PsiK=atan(Xs/Rk)

Ikm = 0.71443

TauK = 0.031671

PsiK = 1.4706

>> TRaVEDCast4

IkmPom=In\*sqrt(2)\*2

Zk2=  
Rk1+i\*Xs1+1/(1/Rfe+1/(i\*Xh)+1/(Rk1+i\*Xs1))

Ikm2=(Uk/100)\*Um/abs(Zk2)

PsiK2=atan(imag(Zk2)/real(Zk2))

ZpozdeniK=PsiK2/pi\*0.01

IkmPom = 1.4289

Zk2 = 4.5742 + 45.4815i

Ikm2 = 0.71449

PsiK2 = 1.4706

ZpozdeniK = 0.0046809