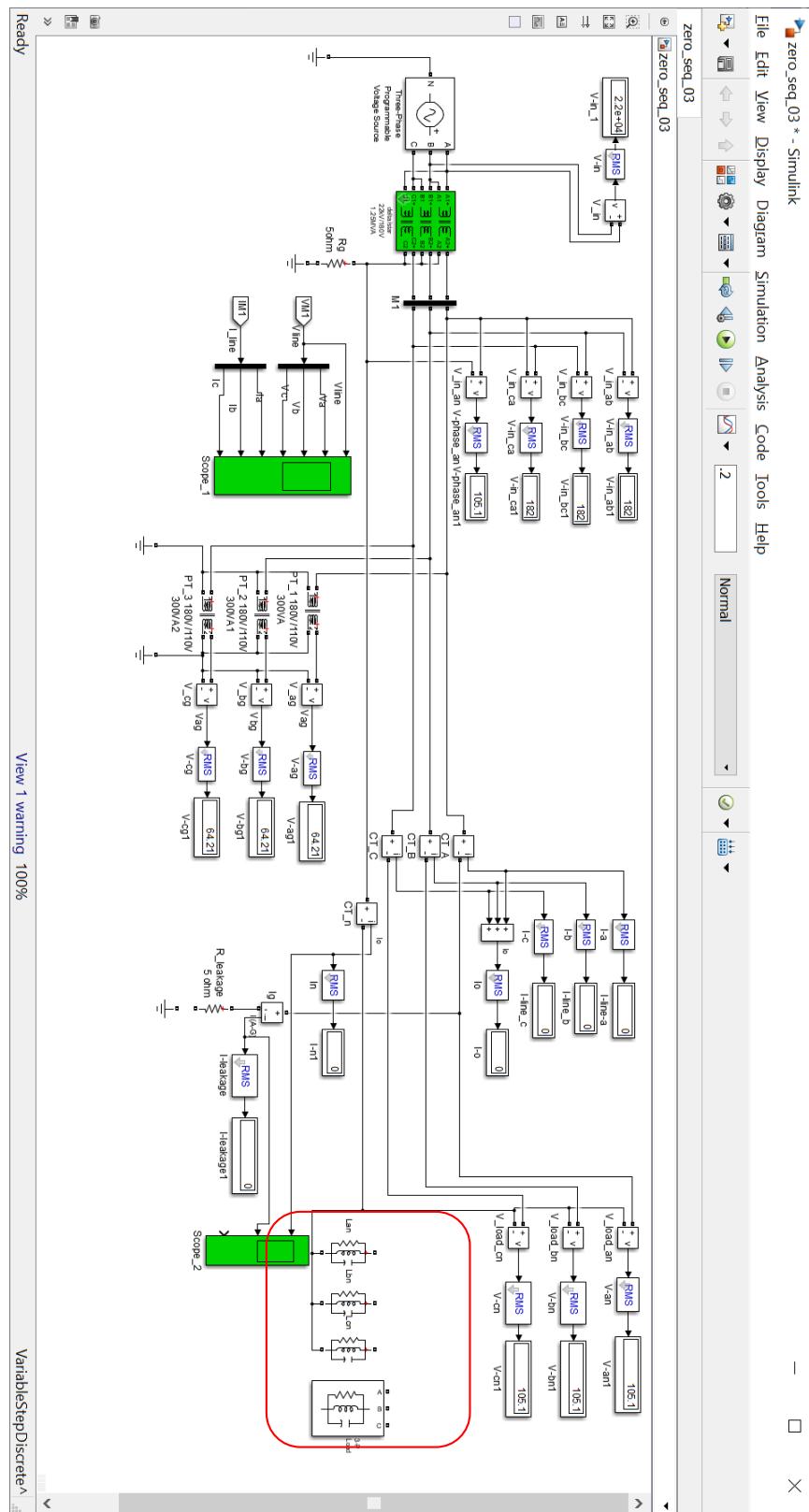
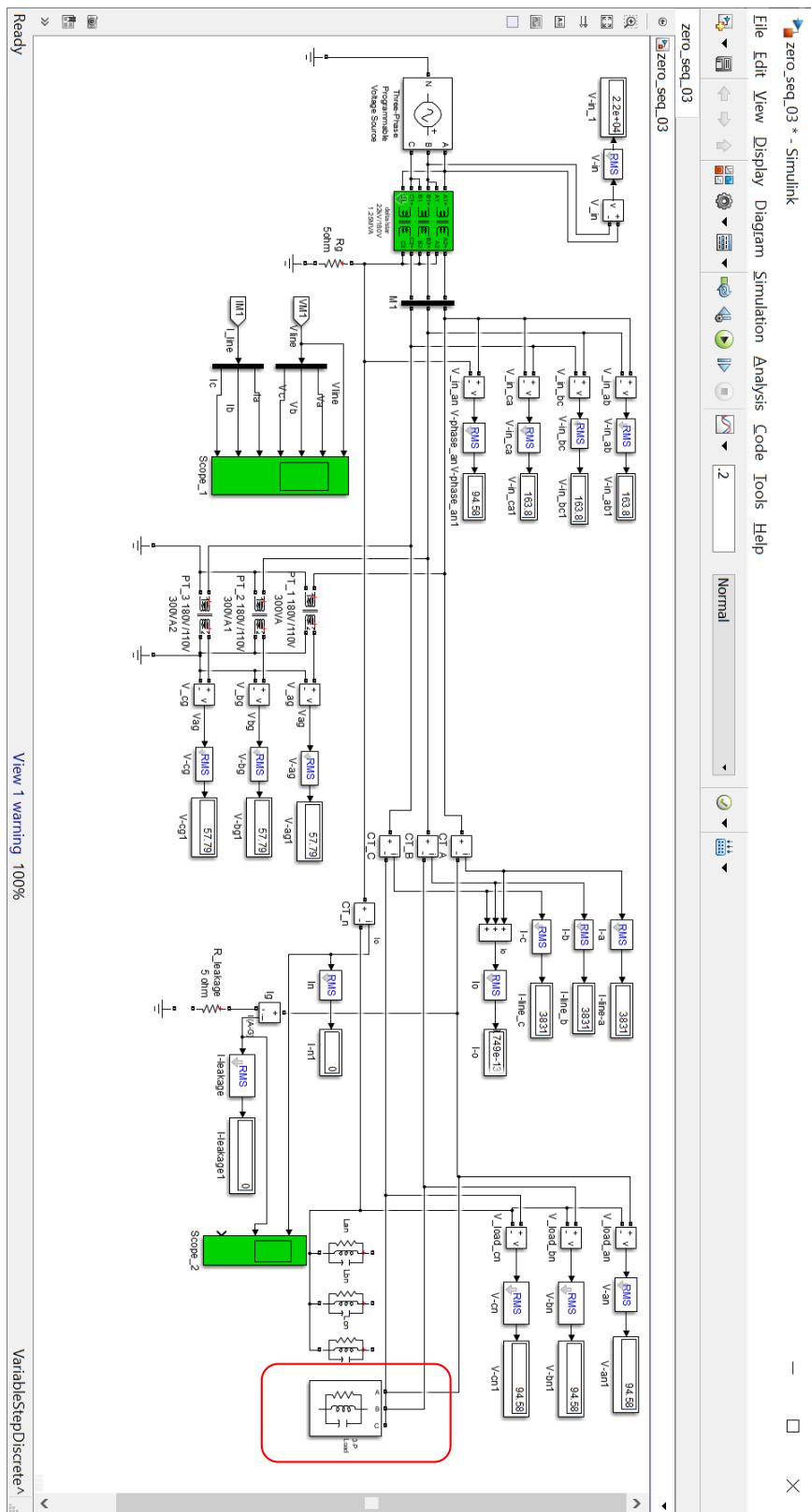


Earth fault





View 1 warning 100%

VariableStepDiscrete^

Ready

Full-Load; Voltage Supply drop to 163.8V

; Voltage regulation 10% 18.2V

; Ia, Ib, Ic, = 3831A



Block Parameters: delta/star 22kV/180V 1.25MVA



Three-Phase Linear Transformer 12-Terminals (mask) (link)
This block implements three single-phase two-winding

transformers . All winding terminals are accessible.

Parameters

[Three-phase rated power(VA) Frequency (Hz)]

[1.25e6 50]

Winding 1 : [phase voltage(Vrms) R(mu) X(mu)] :

[22000 0.0175 0.09285]

Winding 2 : [phase voltage(Vrms) R(mu) X(mu)] :

[105.15 0.0175 0.09285]

Magnetizing branch : [Rm(mu) Xm(mu)] :

[200 200]



Block Parameters: Three-Phase Parallel RLC Load



Three-Phase Parallel RLC Load (mask) (link)
Implements a three-phase parallel RLC load.

parameters
 Load Flow
 Configuration Y (floating)

Nominal phase-to-phase voltage Vn (Vrms)

180

Nominal frequency fn (Hz):

50

Active power P (W):

1.25e6

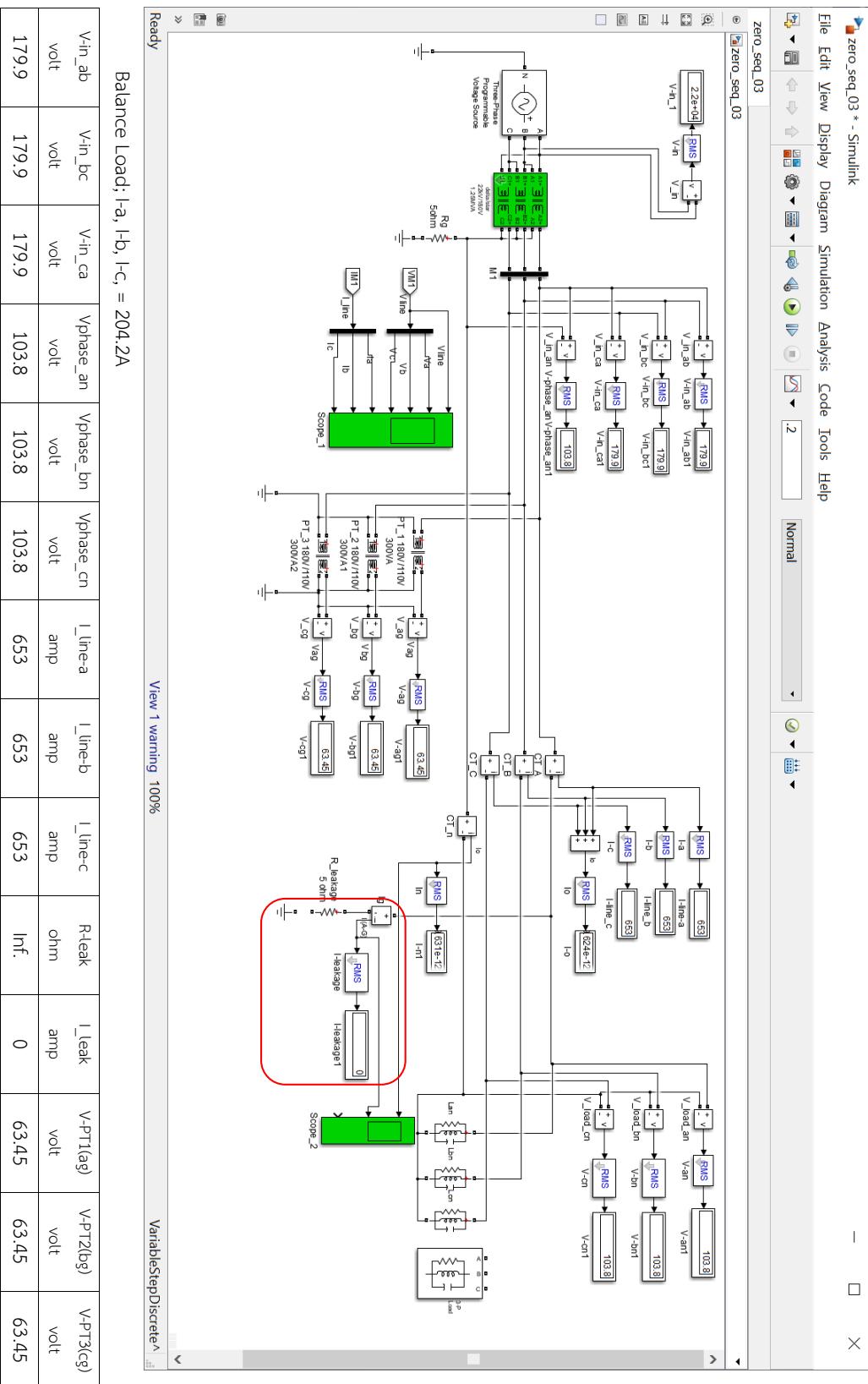
Inductive reactive Power QL (positive var):

400e3

Capacitive reactive power Qc (negative var):

1e-6

Measurements
 Branch currents
 Other



Balance Load; $|I_a| = |I_b| = |I_c| = 204.2A$

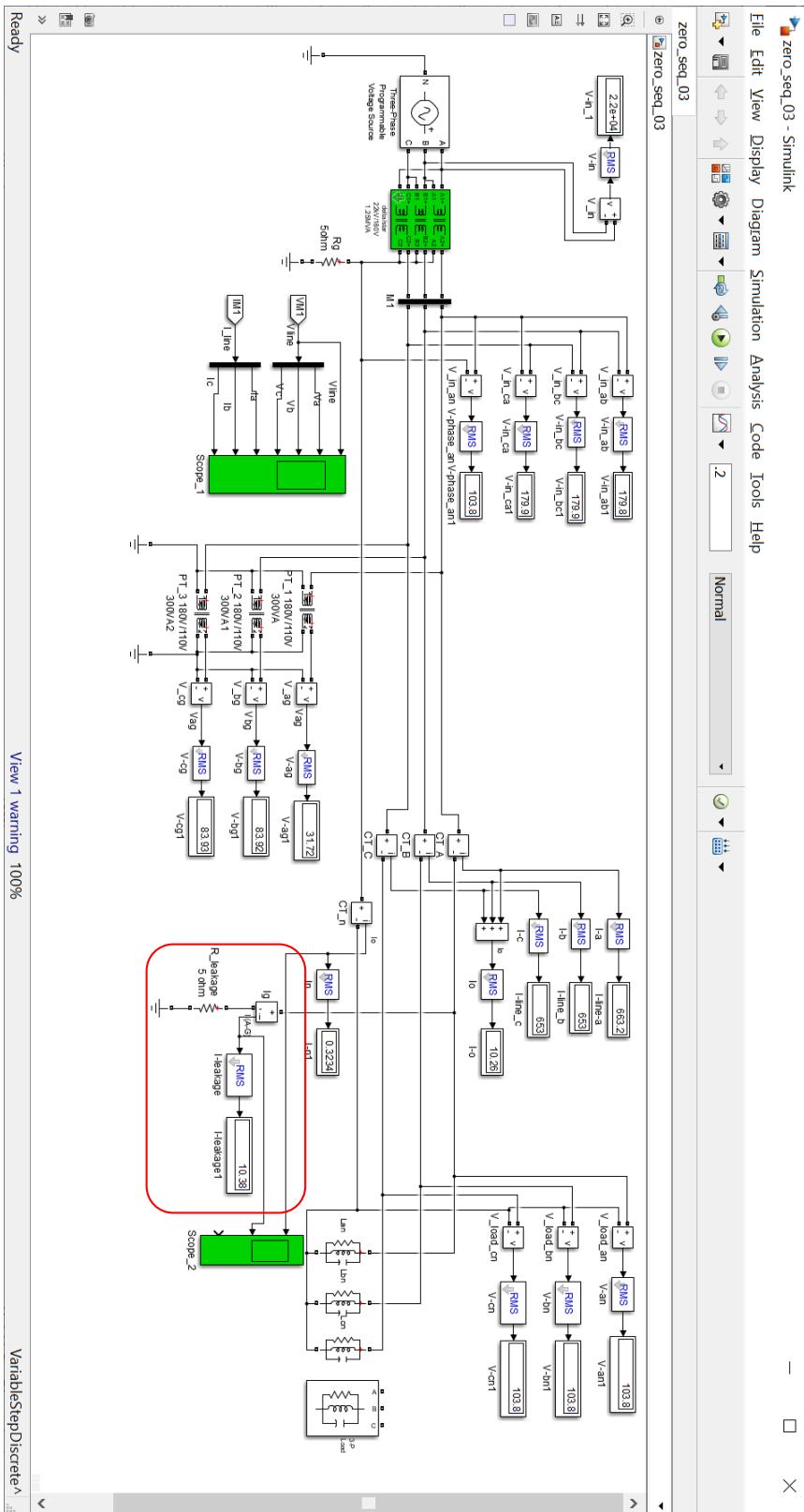
View 1 warning 100%

VariablesStepDiscrete^

>>

Ready

V_{in_ab}	V_{in_bc}	V_{in_ca}	V_{phase_an}	V_{phase_bn}	V_{phase_cn}	I_{line-a}	I_{line-b}	I_{line-c}	R_{leak}	I_{leak}	$V_{PT1(ag)}$	$V_{PT2(bg)}$	$V_{PT3(cg)}$
volt	volt	volt	volt	volt	volt	amp	amp	amp	ohm	amp	volt	volt	volt
179.9	179.9	179.9	103.8	103.8	103.8	653	653	653	0	63.45	63.45	63.45	63.45



Balance Load; I-a, I-b, I-C, = 604.2A

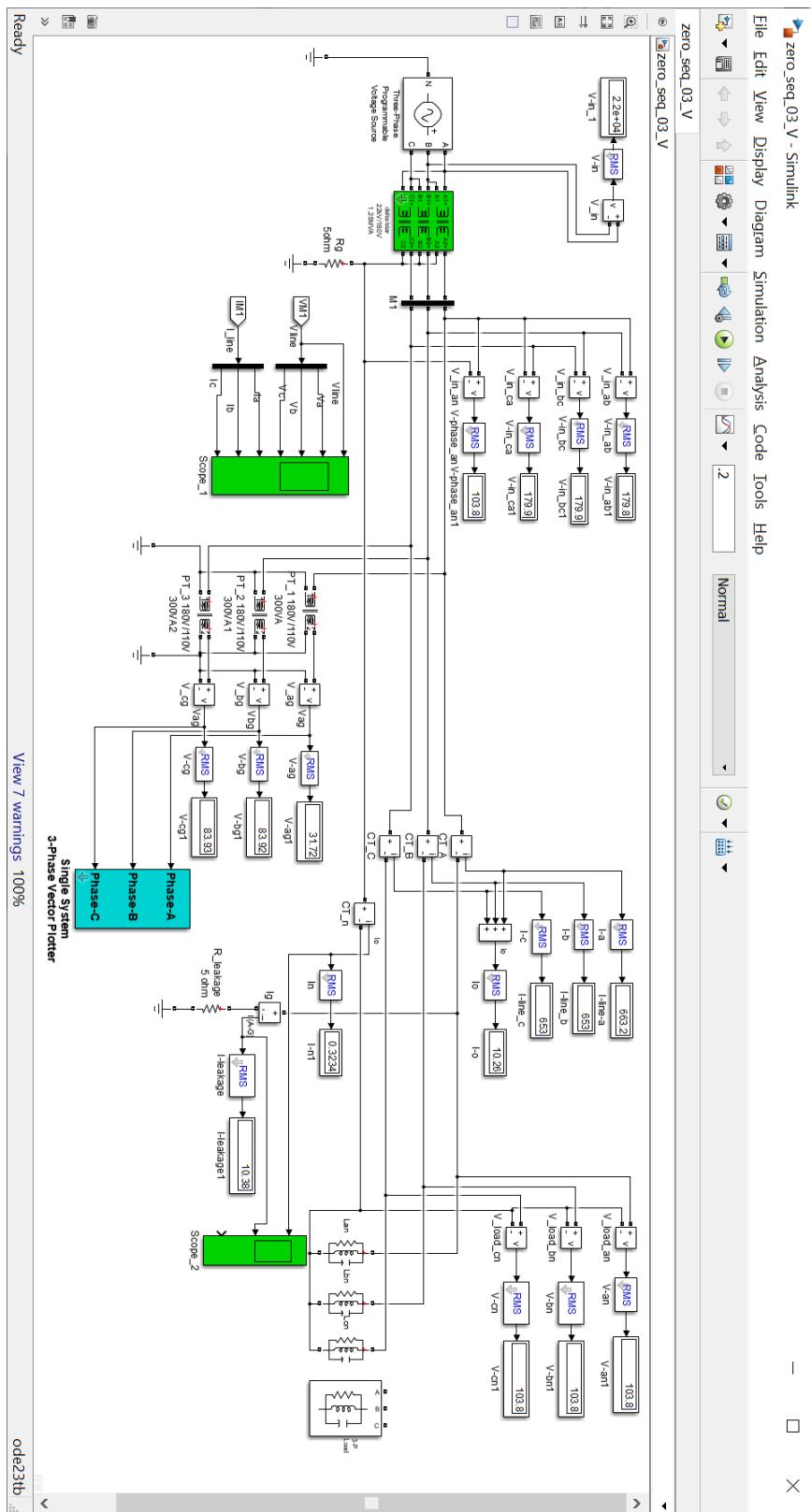
And Leakage Current: 5 ohm, 10.38A

Table: Variable R-leakage

V_in_ab volt	V_in_bc volt	V_in_ca volt	Vphase_an volt	Vphase_bn volt	Vphase_cn volt	I_line-a amp	I_line-b amp	I_line-c amp	R-Leak ohm	I_leak amp	V-PT1(ae) volt	V-PT2(be) volt	V-PT3(ce) volt
179.9	179.9	179.9	103.8	103.8	103.8	653	653	653	Inf.	0	63.45	63.45	63.45
179.8	179.8	179.9	103.8	103.8	103.8	657.1	653	653	20	2.789	50.75	70.65	70.65
179.8	179.9	179.9	103.8	103.8	103.8	659.8	653	653	10	6.923	42.3	76.25	76.25
179.8	179.9	179.9	103.8	103.8	103.8	663.2	653	653	5	10.38	31.72	83.92	83.93
179.8	179.9	179.9	103.8	103.8	103.8	666.5	653	653	2.5	13.85	21.15	92.16	92.19
179.8	179.9	179.9	103.8	103.8	103.8	669.9	653	653	1	17.31	10.57	100.8	100.9
179.8	179.9	179.9	103.8	103.8	103.8	672.9	653	653	0.1	20.36	1.244	108.8	108.8

Commented [WU1]:

Voltage Vector diagram

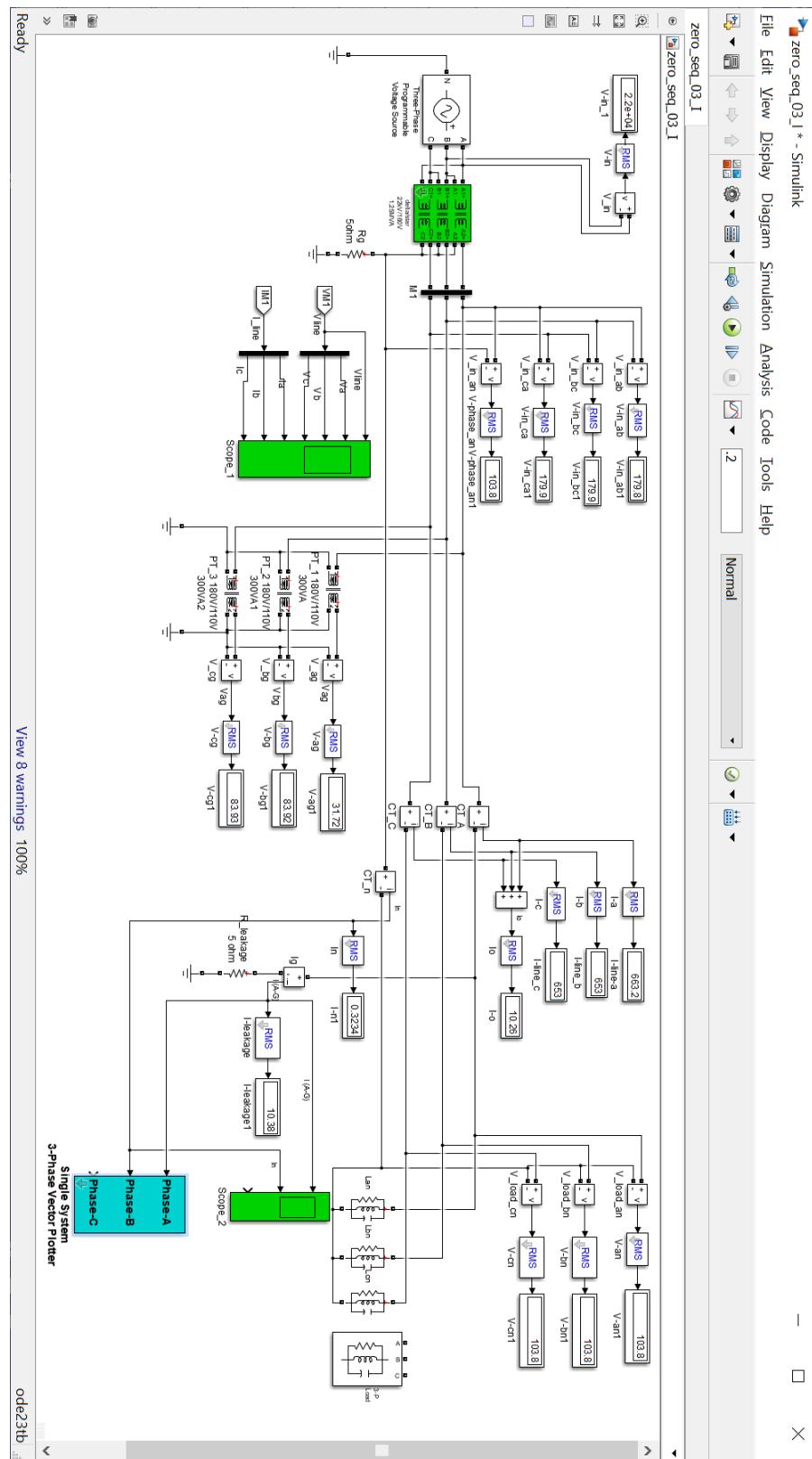


View 7 Warnings 100%

Ready

ode23tb

Leakage Current Vector diagram





Voltage Vector diagram

Leakage Current Vector diagram