

ANEXOS RT UNIDAD 1 GUATAPE

Tabla 1. Parámetros del Generador

Descripción	Variable	Unidad	Unit1
Armature resistance	Ra	[ohm]	0.295
d-axis reactance	Xd	[p.u.]	0.950
d-axis transient reactance	Xpd	[p.u.]	0.288
d-axis subtransient reactance	Xppd	[p.u.]	0.235
q-axis reactance	Xq	[p.u.]	0.740
q-axis subtransient reactance	Xppq	[p.u.]	0.235
Leakage reactance	ΧI	[p.u.]	0.120
d axis open circuit transient time constant	Tpdo	[s]	7.050
d axis open circuit subtransient time constant	Tppdo	[s]	0.031
q axis open circuit subtransient time constant	Tppqo	[s]	0.025
Field current base	Ifbase	[A]	371
Field voltage base	Vfbase	[V]	97
Inertia constant	н	[MWs/MVA]	3.6701

DIAGRAMA DE BLOQUE Y PARAMETROS

Control Automático (AVR)

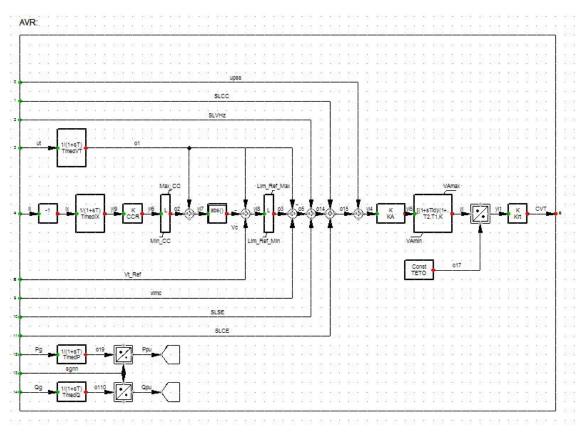
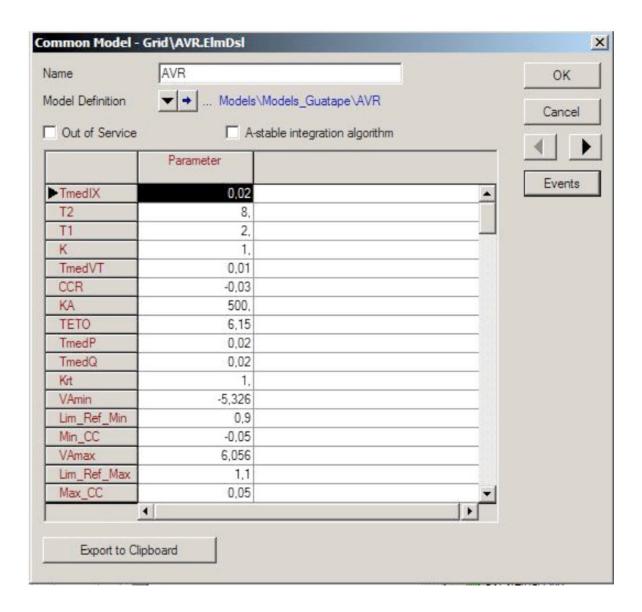


Figura 1. Diagrama de bloques del Regulador de Tensión (AVR)



Tabla 2. Parámetros del AVR





Conversor de Potencia (DRIVE)

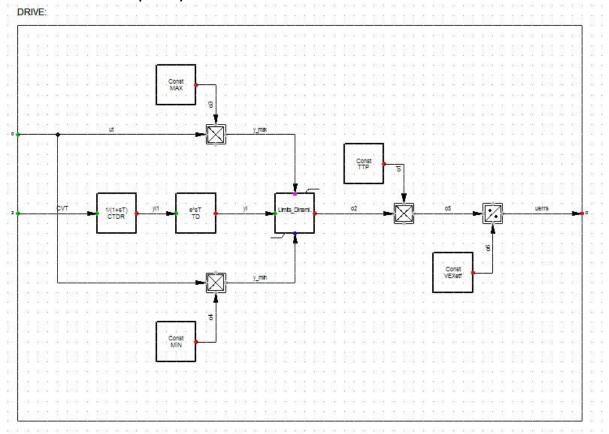
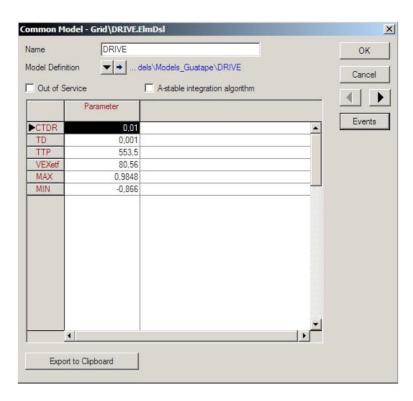


Figura 2. Modelo Conversor de Potencia

Tabla 3. Parámetros del Drive





Limitador de Sobreexcitación (OEL, Digsilent = LCC)

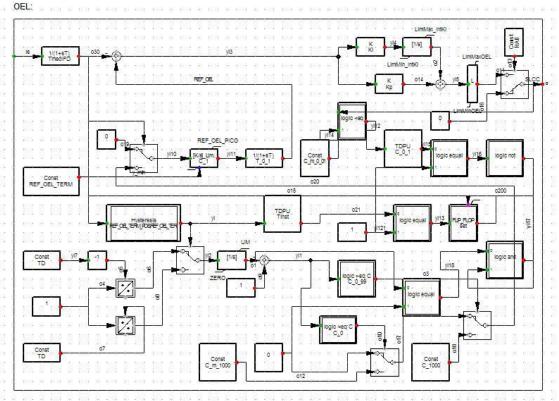
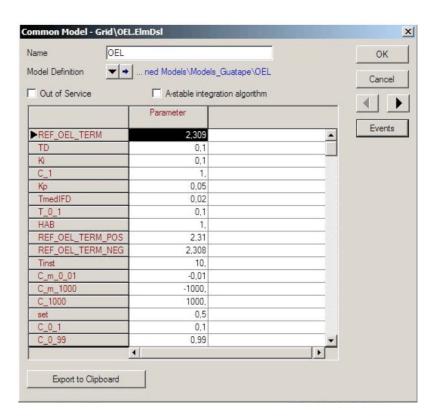
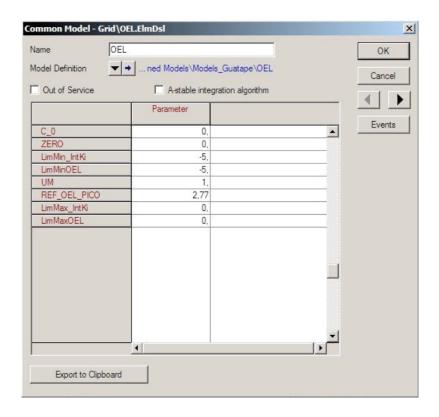


Figura 3. Diagrama de bloques del limitador OEL

Tabla 4. Parámetros del limitador OEL







Limitador de Subexcitación (UEL, Digsilent = LSE)

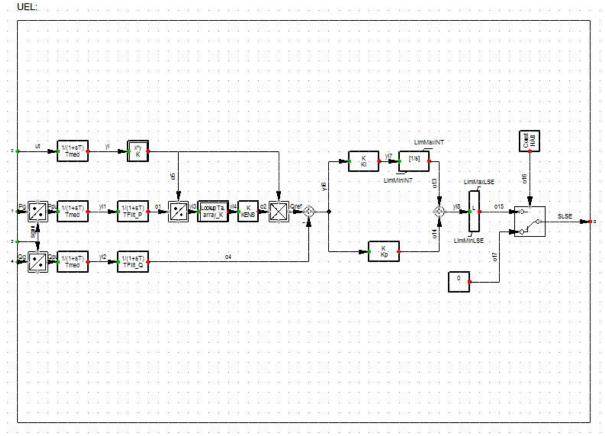
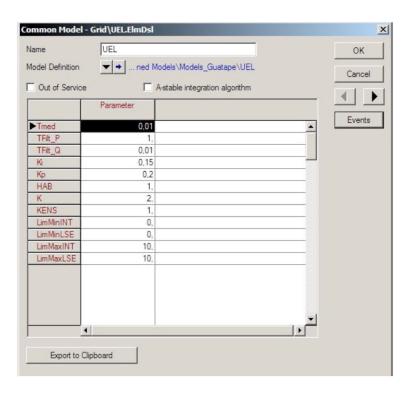
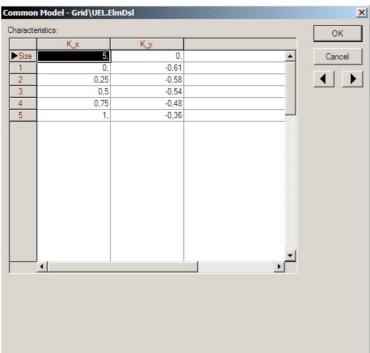


Figura 4. Diagrama de bloques del limitador UEL



Tabla 5. Parámetros del limitador UEL







Limitador de Corriente de Estator (SCL, Digsilent = LCE)

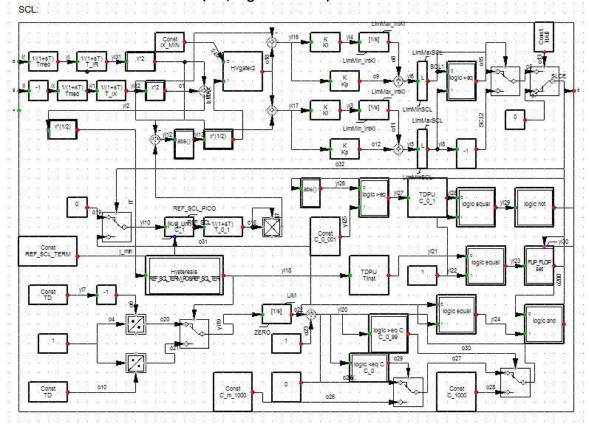
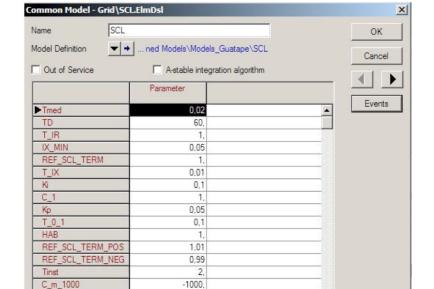


Figura 5. Diagrama de bloques del limitador SCL

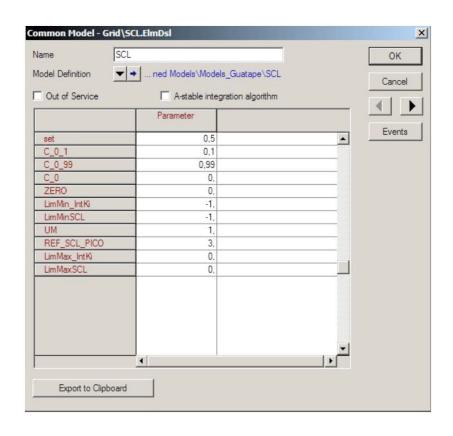


1000, 0,001

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Tabla 6. Parámetros del limitador SCL







Limitador de Sobreflujo (Digsilent = LVHZ)

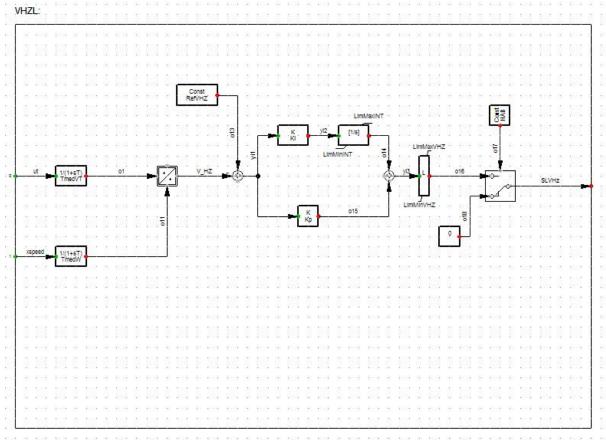
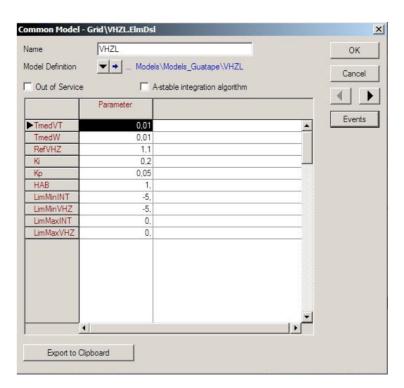


Figura 6. Diagrama de bloques del limitador VHZ

Tabla 7. Parámetros del limitador VHZ





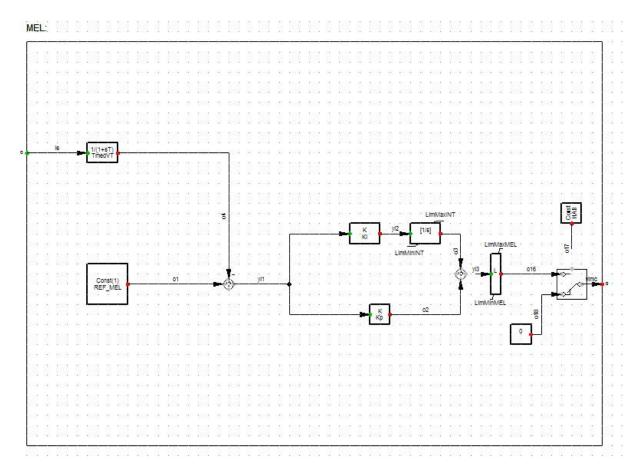
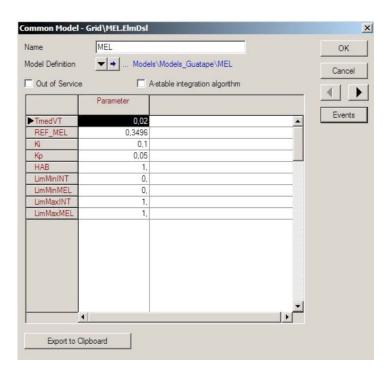


Figura 7. Diagrama de bloques del limitador MEL

Tabla 8. Parámetros del limitador MEL





Estabilizador de Sistema de Potencia (PSS)

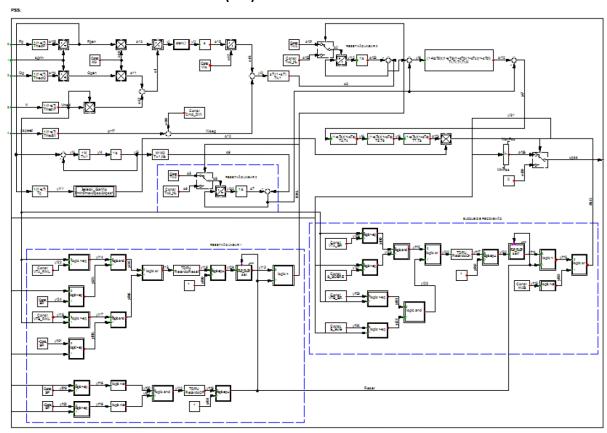


Figura 8. Diagrama de bloques del Estabilizador de Sistema de Potencia

Tabla 9. Parámetros del Estabilizador del Sistema de Potencia

