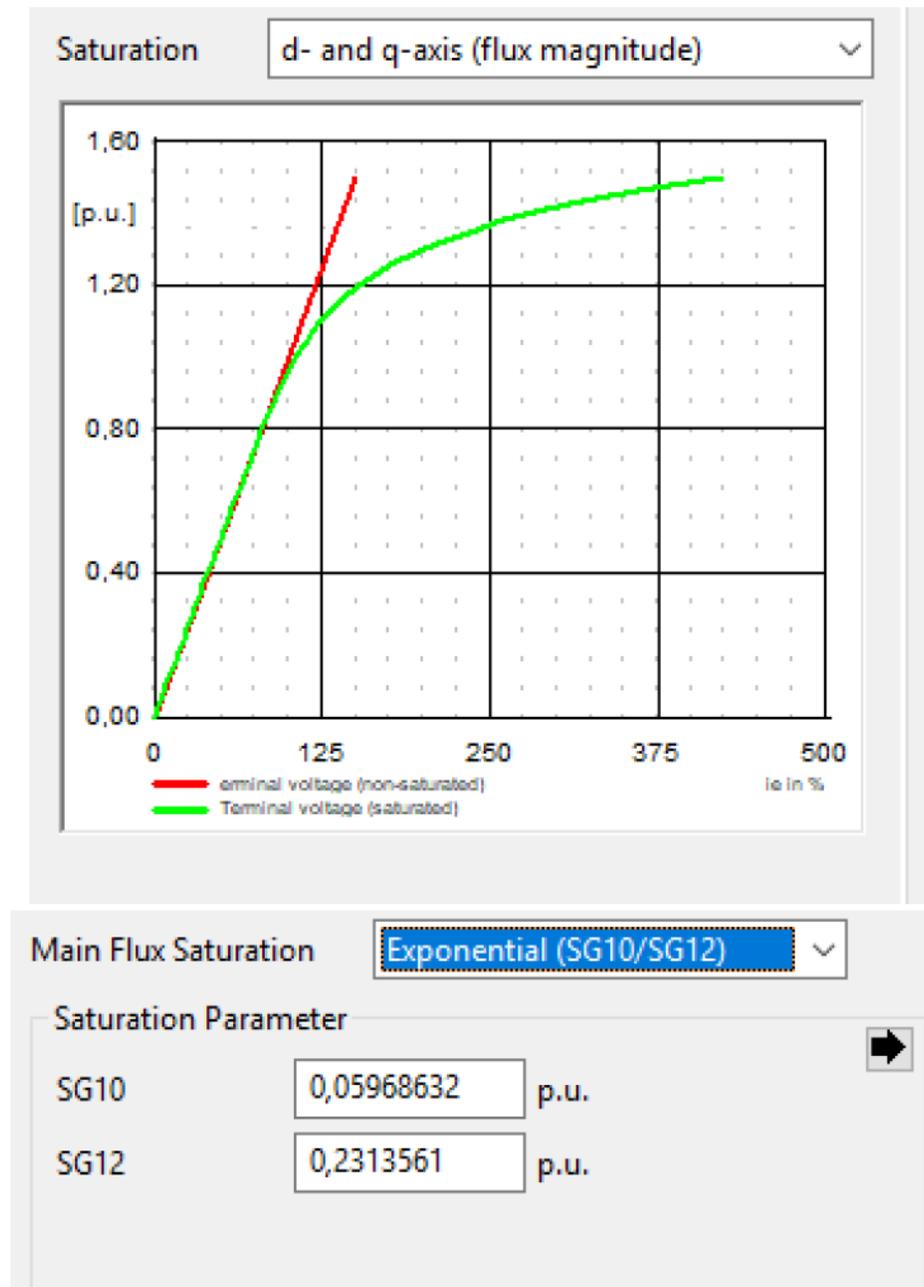


ANEXO 2 TERMOTASAJERO DOS

1. Curva de Saturación y Parámetros del Generador.



Model Standard Input parameters Short-Circuit data

Detailed model 2.2 (field and one damper winding in the d-axis, and two damper windings in the q-axis)

Inertia

Inertia Constant H (rated to Sgn) s

Stator parameters

rstr p.u.

xl p.u.

Synchronous Reactances

xd p.u.

xq p.u.

Rotor Type

- Salient pole
 Round Rotor

Rotor mutual reactances

xrld p.u.

xrlq p.u.

Transient Time Constants

Td0' s

Tq0' s

Transient Reactances

xd' p.u.

xq' p.u.

Subtransient Time Constants

Td0'' s

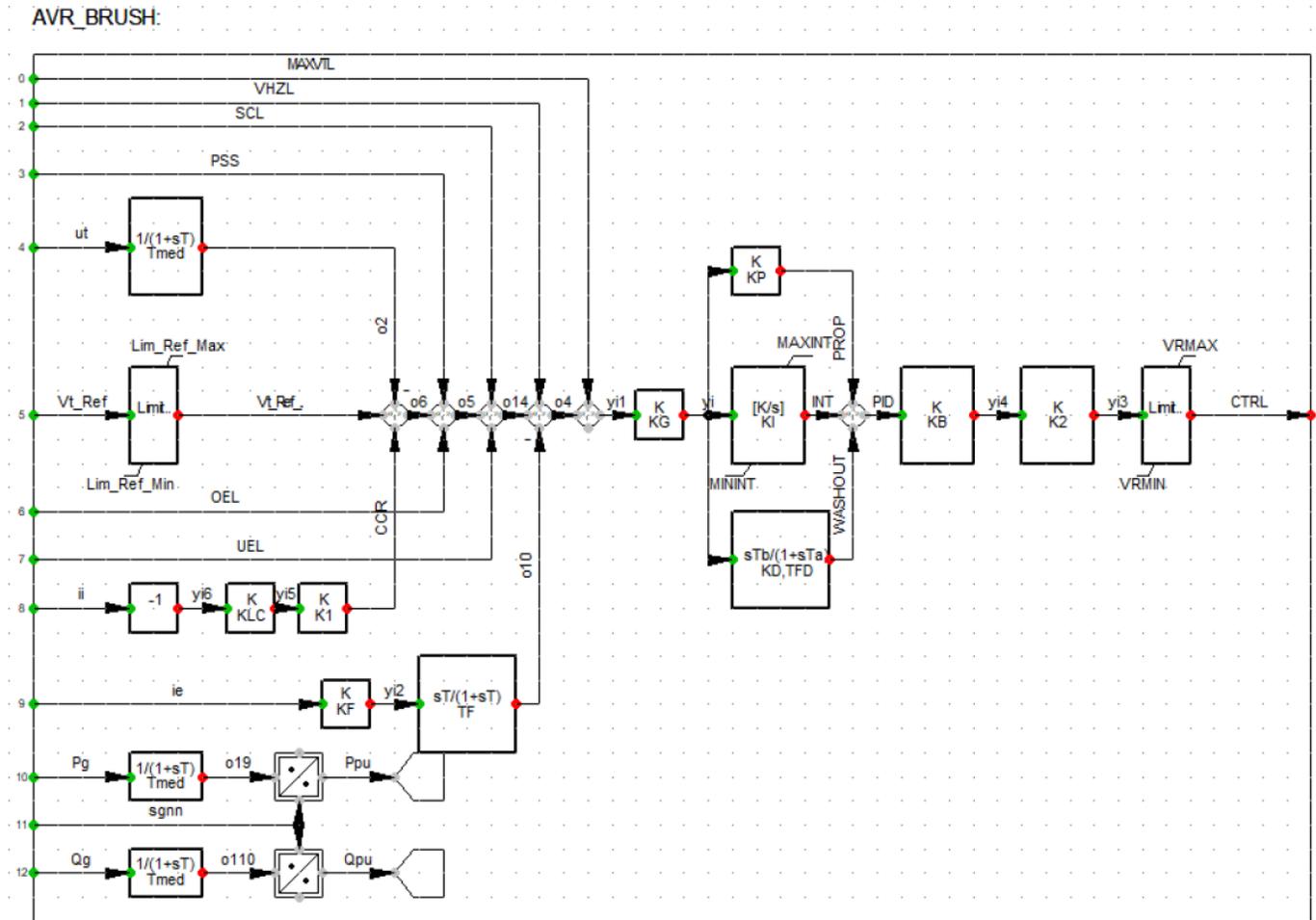
Tq0'' s

Subtransient Reactances

xd'' p.u.

xq'' p.u.

2. Diagrama de bloques del sistema de excitación.



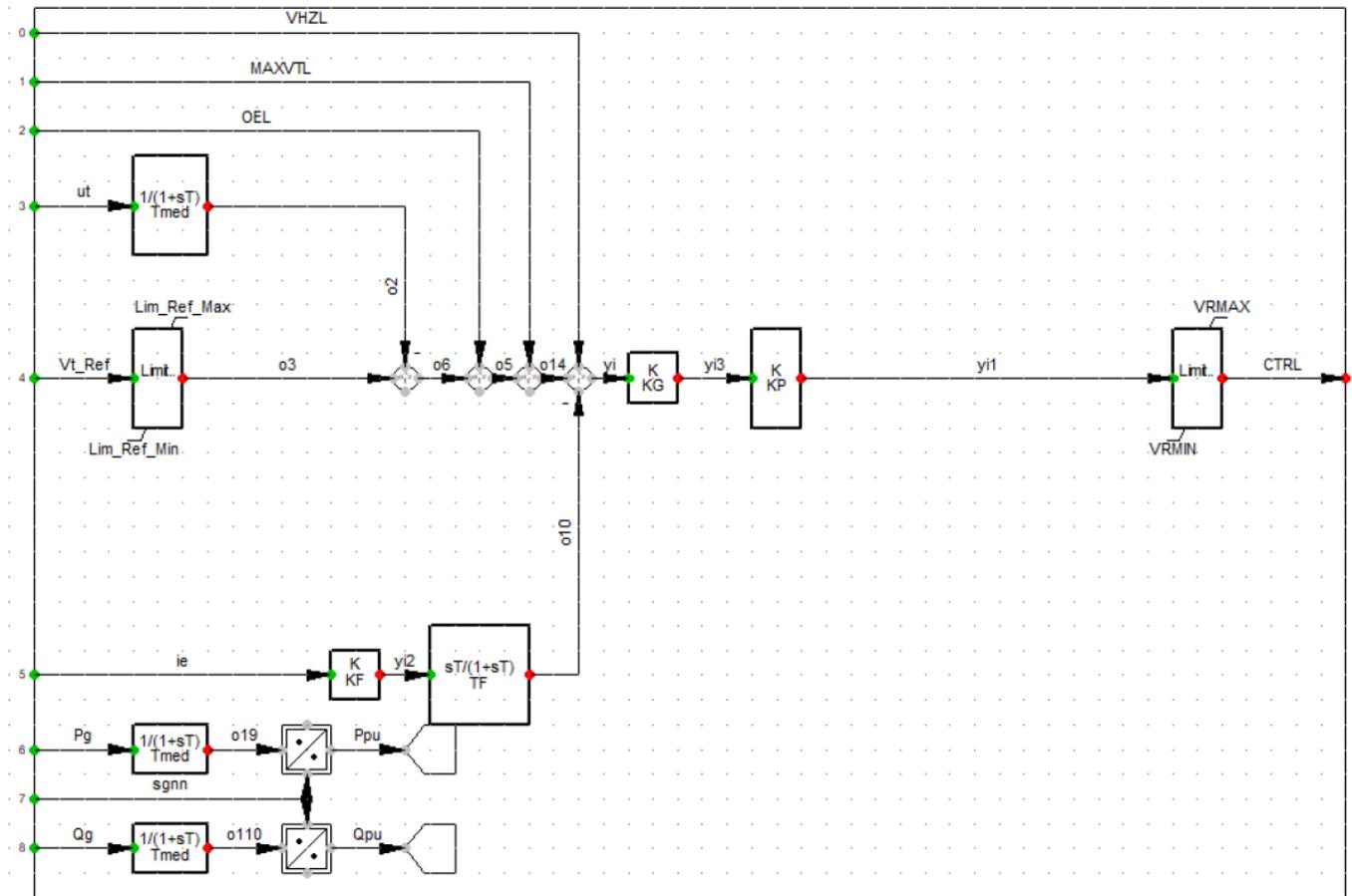
3. Parámetros del sistema de excitación.

| Name | Value |
|------|------------|
| KI | 0,00025000 |
| Tmed | 0,01000000 |
| K1 | 1,500000 |
| KLC | 0,06000000 |
| KF | 0,00000000 |
| KB | 1,000000 |

| | |
|-------------|------------|
| K2 | 0,2800000 |
| KP | 29,00000 |
| KG | 1,000000 |
| KD | 0,00000000 |
| TFD | 0,01000000 |
| TF | 1,000000 |
| MININT | -10,00000 |
| Lim_Ref_Min | 0,9000000 |
| VRMIN | -1,000000 |
| MAXINT | 10,00000 |
| Lim_Ref_Max | 1,100000 |
| VRMAX | 1,000000 |

4. Diagrama de bloques del sistema de excitación en Vacío.

AVR_BRUSH_VAZIO:

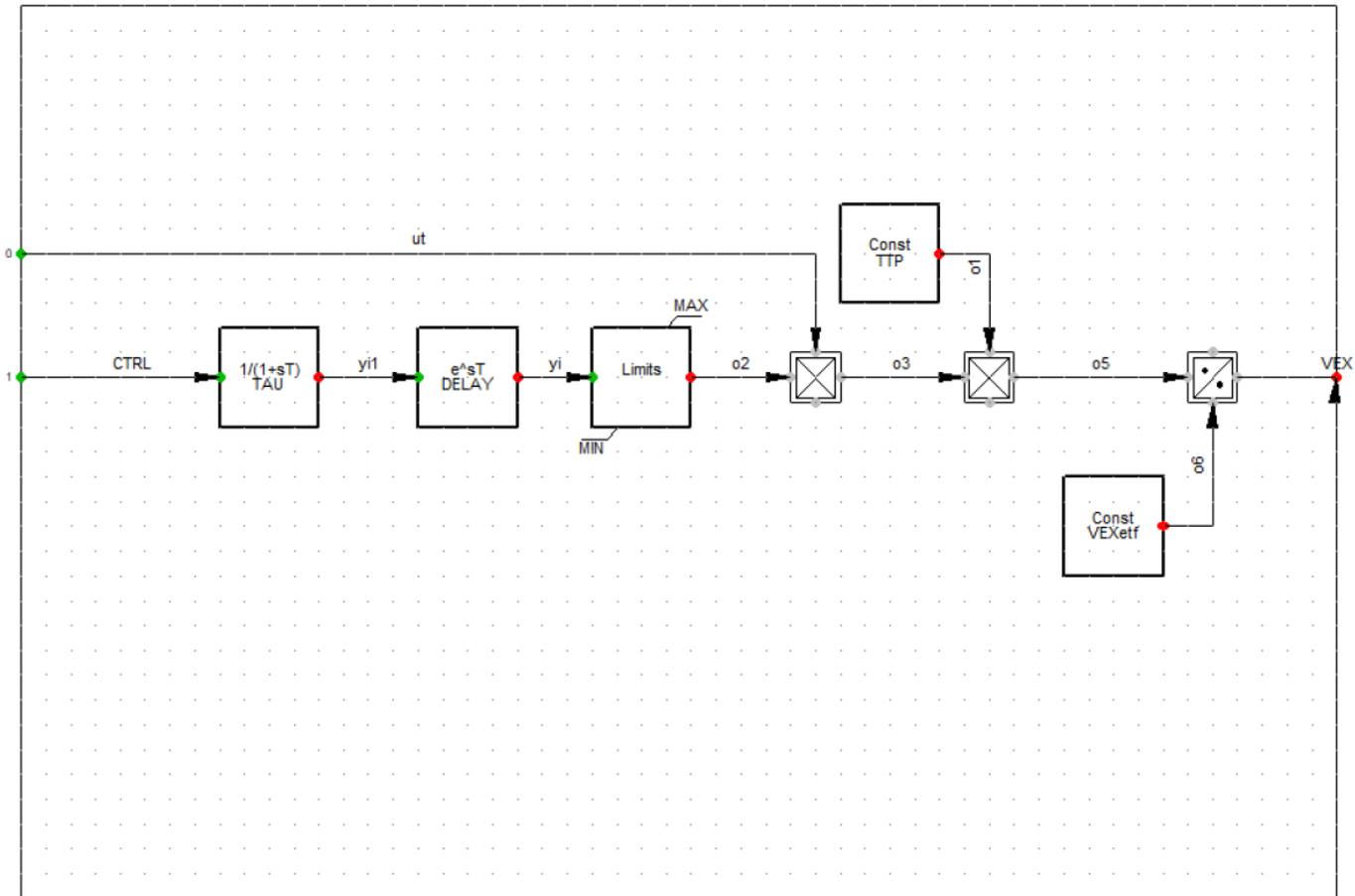


5. Parámetros del sistema de excitación en Vacío.

| Name | Value |
|-------------|-----------|
| Tmed | 0,0100000 |
| KF | 0,0000000 |
| KP | 6,50000 |
| KG | 1,00000 |
| TF | 1000,00 |
| Lim_Ref_Min | 0,900000 |
| VRMIN | -1,00000 |
| Lim_Ref_Max | 1,15000 |
| VRMAX | 1,00000 |

6. Diagrama de bloques del convertor de potencia.

DRIVE_ESTATICA:

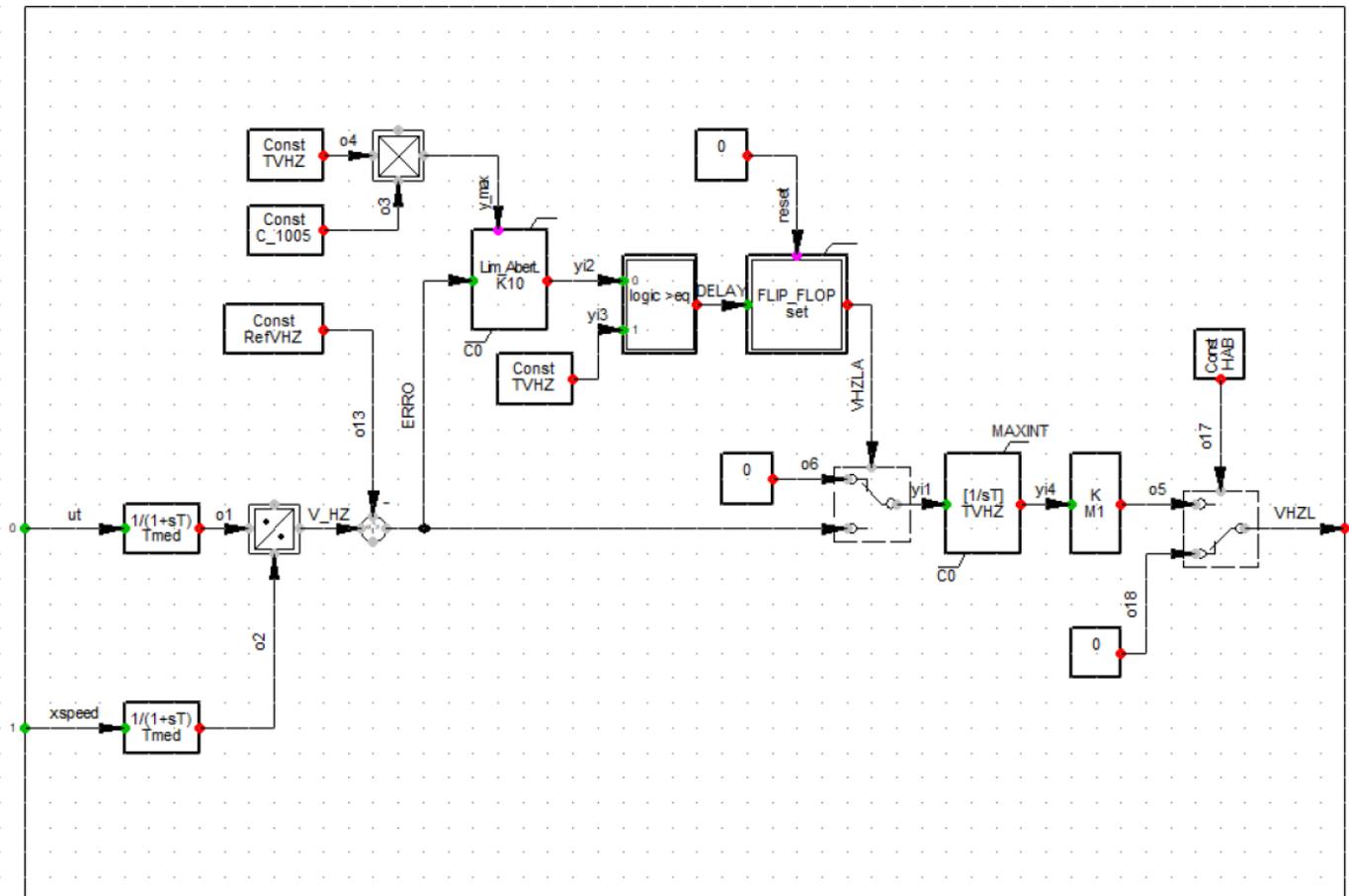


7. Parámetros del convertor de potencia.

| Name | Value |
|--------|------------|
| TAU | 0,02000000 |
| DELAY | 0,00100000 |
| TTP | 810,0000 |
| VEXeff | 135,0000 |
| MIN | -0,8660000 |
| MAX | 0,9205000 |

8. Diagrama de bloques del limitador VHZ.

VHZL_BRUSH:

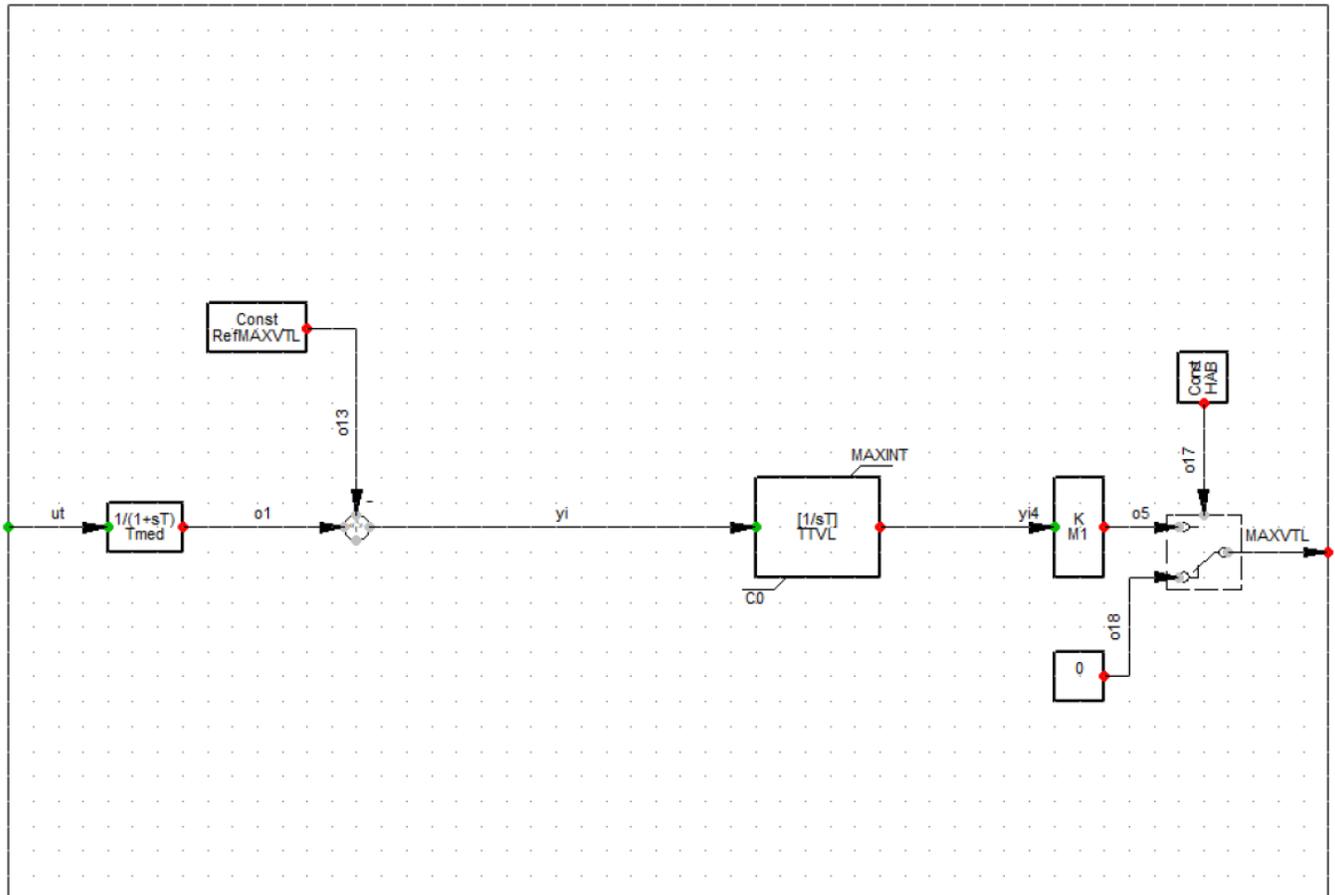


9. Parámetros del limitador VHZ.

| Name | Value |
|--------|------------|
| Tmed | 0,0100000 |
| RefVHZ | 1,091000 |
| K10 | 10,00000 |
| TVHZ | 1,000000 |
| C_1005 | 1,005000 |
| HAB | 1,000000 |
| M1 | -1,000000 |
| set | 0,00000000 |
| C0 | 0,00000000 |
| MAXINT | 0,8500000 |

10. Diagrama de bloques del limitador MXVTL

MAXVTL_BRUSH:

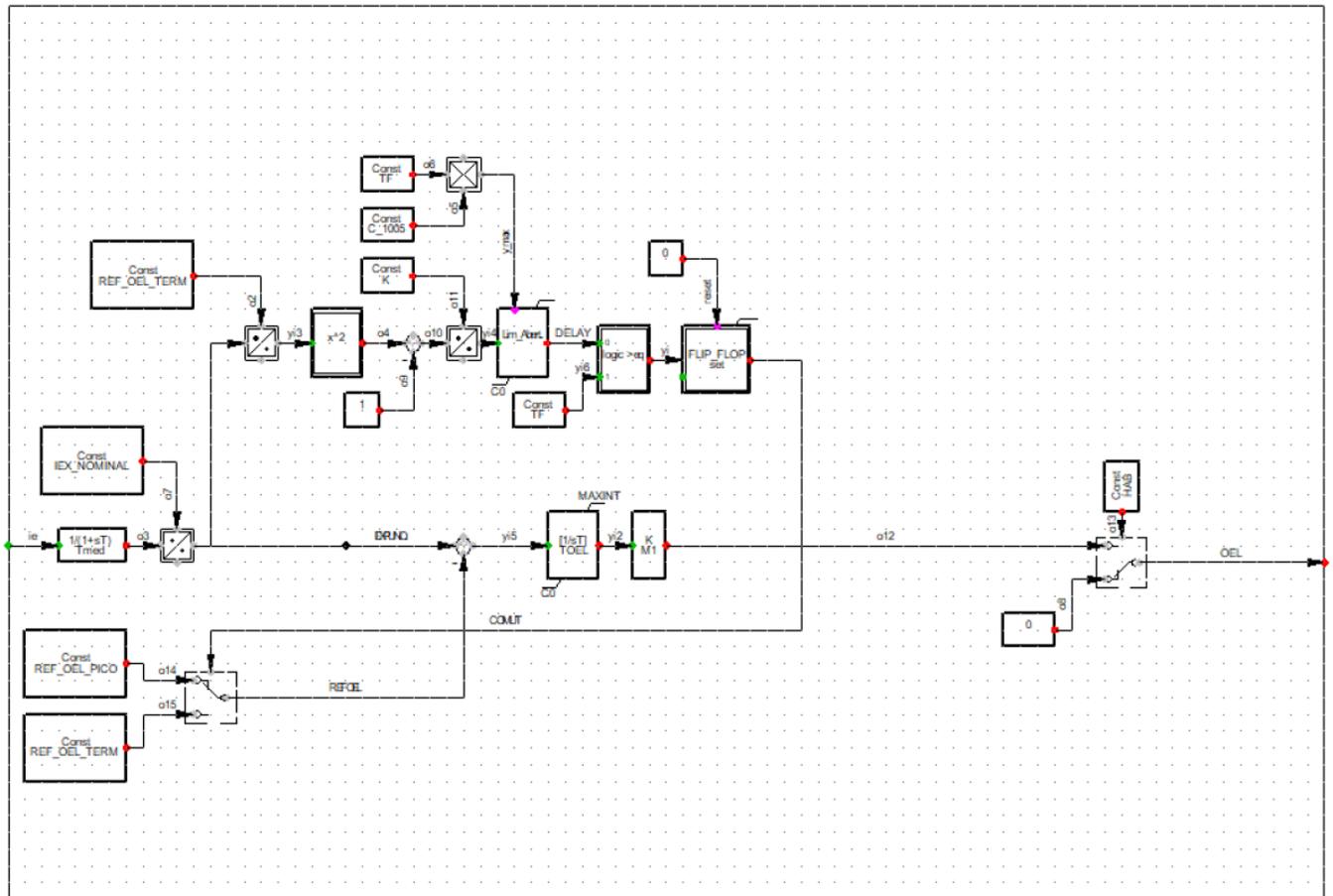


11. Parámetros del limitador MXVTL

| Name | Value |
|-----------|-----------|
| Tmed | 0,0100000 |
| RefMAXVTL | 1,090000 |
| TTVL | 0,500000 |
| HAB | 1,000000 |
| M1 | -1,000000 |
| C0 | 0,0000000 |
| MAXINT | 0,500000 |

12. Diagrama de bloques del limitador OEL

OEL_BRUSH:

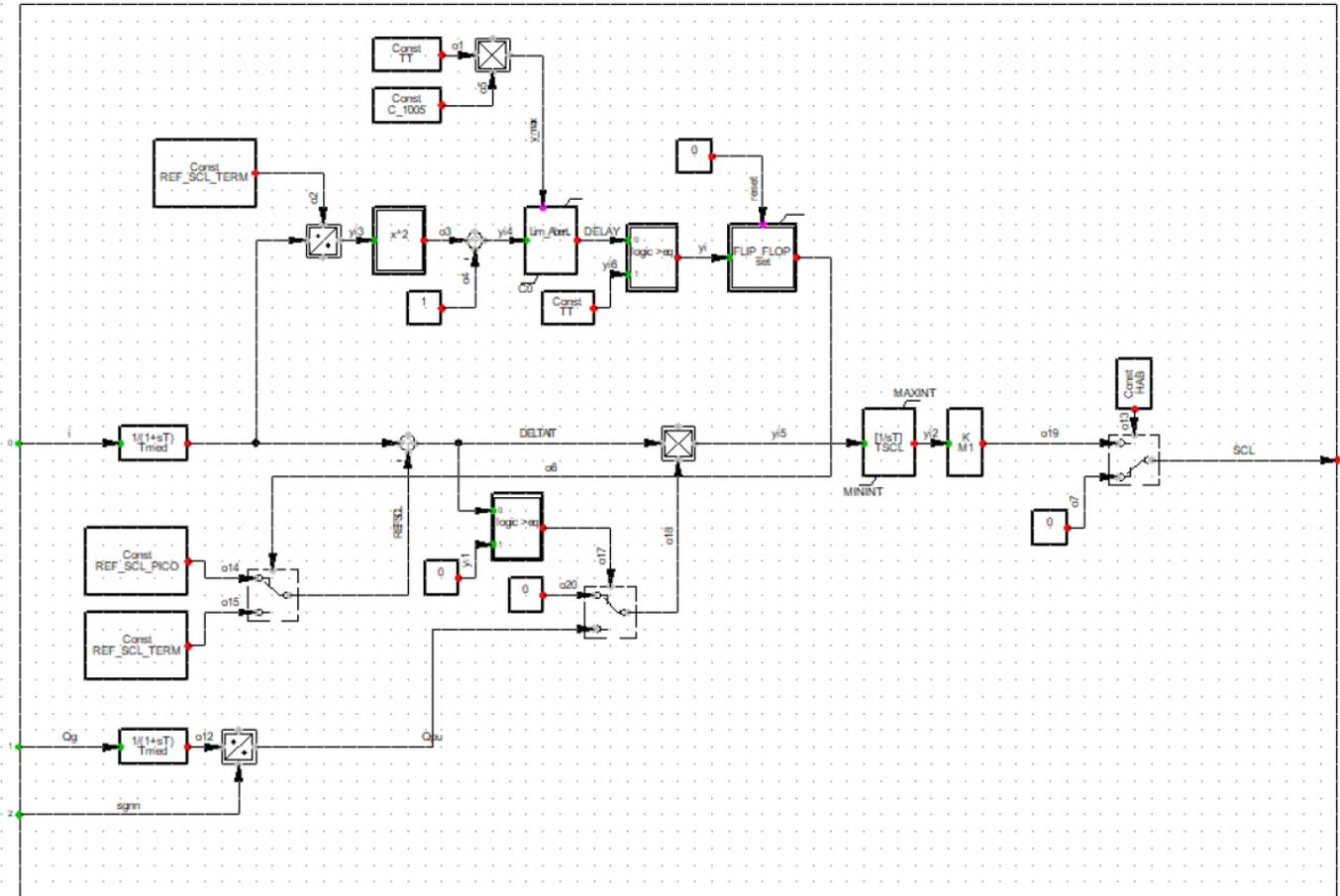


13. Parámetros del limitador OEL

| Name | Value |
|--------------|------------|
| REF_OEL_PICO | 1,960000 |
| REF_OEL_TERM | 1,078700 |
| IEX_NOMINAL | 2,458000 |
| TOEL | 2,000000 |
| C_1005 | 1,005000 |
| TF | 23,00000 |
| K | 1,000000 |
| Tmed | 0,01000000 |
| HAB | 1,000000 |
| M1 | -1,000000 |
| set | 0,5000000 |
| C0 | 0,00000000 |
| MAXINT | 0,5000000 |

14. Diagrama de bloques del limitador SCL

SCL_BRUSH:

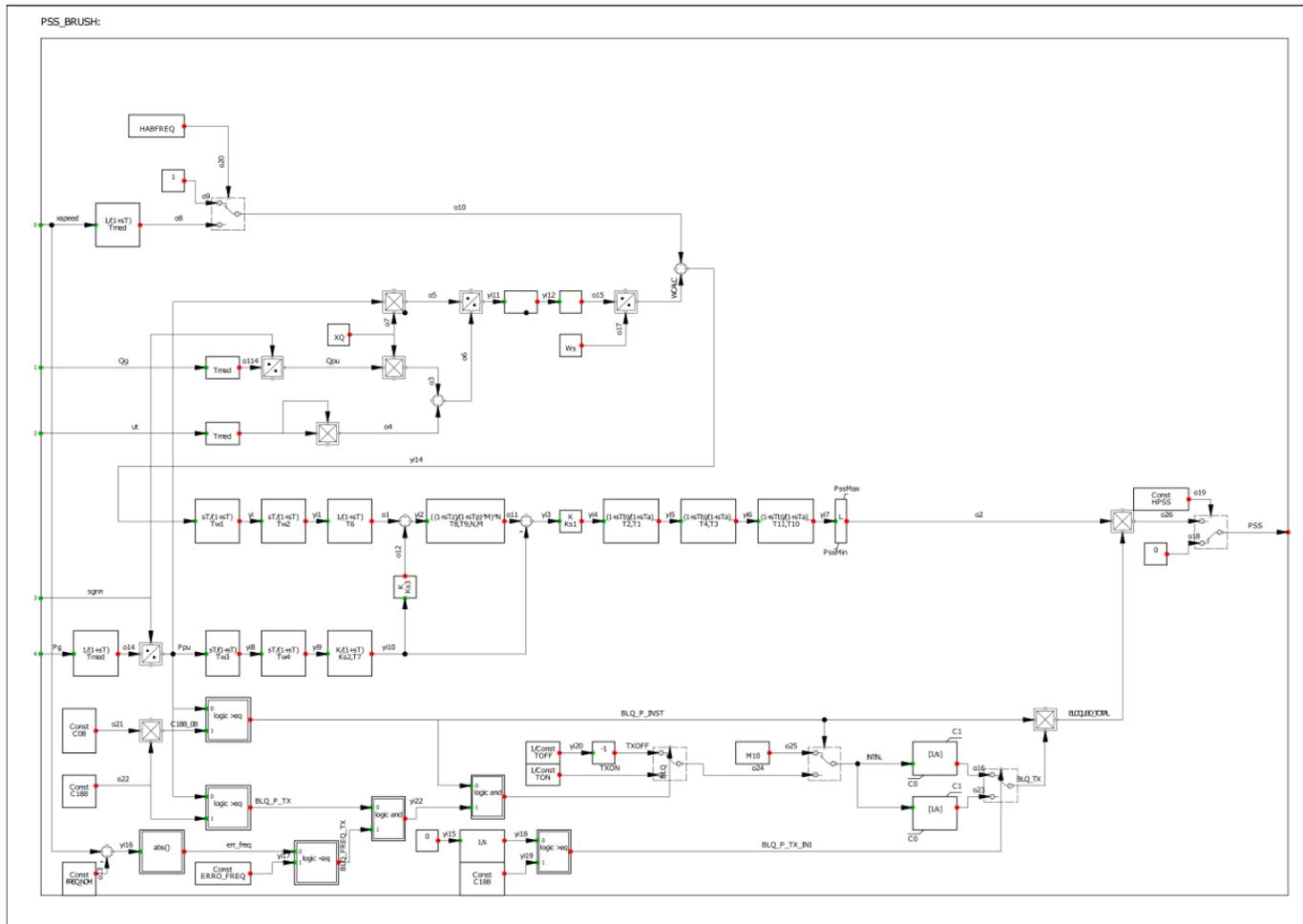


15. Parámetros del limitador SCL

| Name | Value |
|--------------|------------|
| REF_SCL_PICO | 2,500000 |
| REF_SCL_TERM | 1,110000 |
| TSCCL | 4,000000 |
| C_1005 | 1,005500 |
| TT | 100,0000 |
| Tmed | 0,01000000 |
| HAB | 1,000000 |
| M1 | -1,000000 |
| set | 0,5000000 |
| MININT | -0,5000000 |
| C0 | 0,00000000 |
| MAXINT | 0,5000000 |

| | |
|------------|------------|
| HAB | 1,000000 |
| Q0 | -0,5333000 |
| P0 | 1,833100 |
| Q1 | -0,2500000 |
| C0 | 0,00000000 |
| VTMIN | 0,9000000 |
| C1 | 1,000000 |
| VTMAX | 1,050000 |
| K: | |
| 0,00000000 | 0,00000000 |
| 0,2000000 | 0,00000000 |
| 0,3000000 | 1,000000 |
| 0,3100000 | 1,000000 |

18. Diagrama de bloques del Estabilizador de Sistema de Potencia.



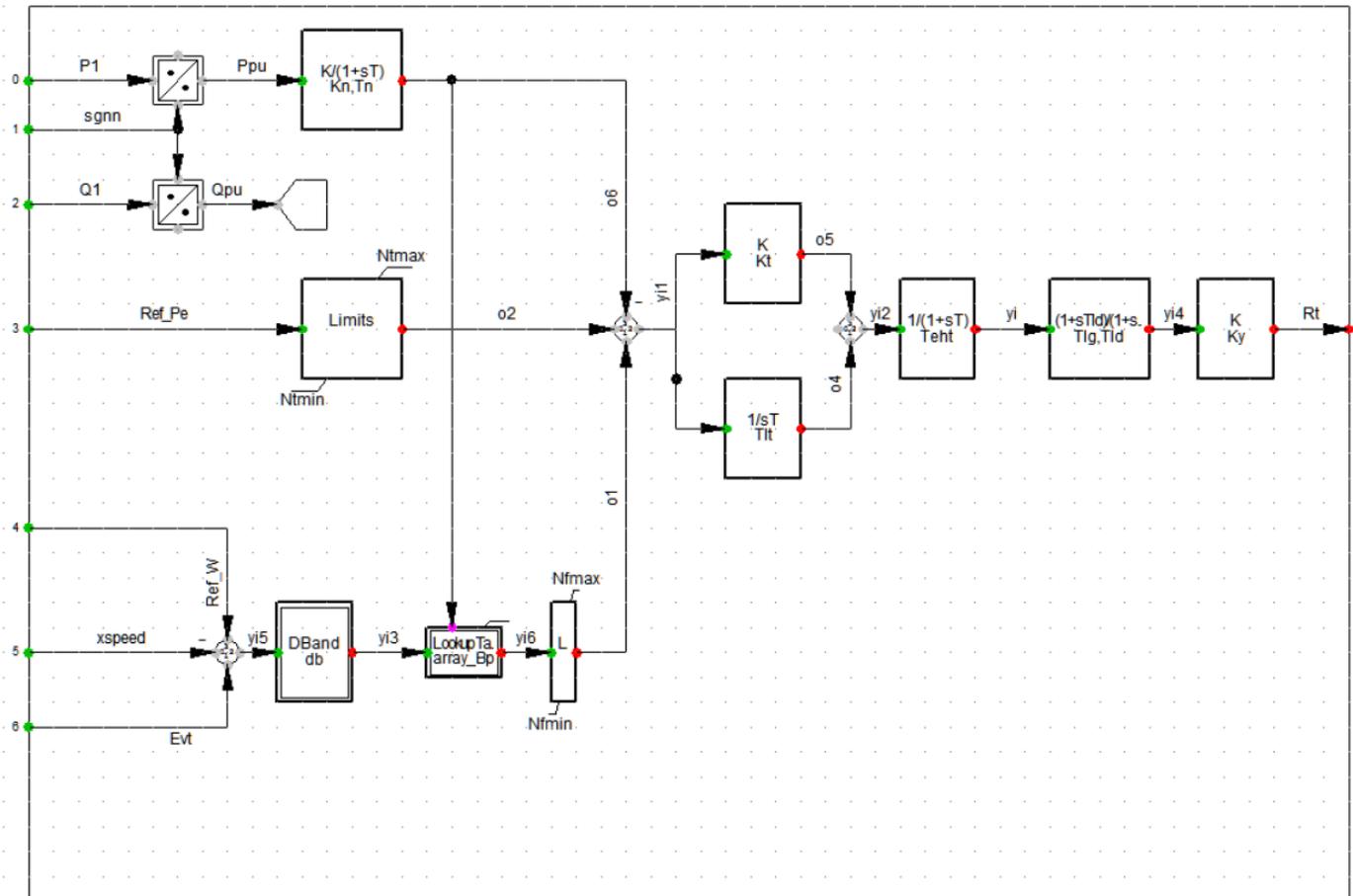
19. Parámetros del Estabilizador de Sistema de Potencia.

| Name | Value |
|---------|------------|
| Tw1 | 11,00000 |
| XQ | 1,814000 |
| HABFREQ | 0,00000000 |
| M10 | -10,00000 |

| | |
|-----------|------------|
| Tw2 | 11,00000 |
| T6 | 0,00000000 |
| Ws | 377,0000 |
| Tw3 | 11,00000 |
| Tw4 | 11,00000 |
| Ks2 | 2,620000 |
| T7 | 11,00000 |
| Ks3 | 1,000000 |
| T8 | 0,5000000 |
| T9 | 0,1000000 |
| N | 1,000000 |
| M | 5,000000 |
| Ks1 | 8,000000 |
| T2 | 0,01000000 |
| T1 | 0,09500000 |
| T4 | 0,01000000 |
| T3 | 0,09500000 |
| T11 | 0,2510000 |
| T10 | 0,6680000 |
| Tmed | 0,01000000 |
| C188 | 0,4000000 |
| TOFF | 10,00000 |
| C08 | 0,8000000 |
| FREQ_NOM | 1,000000 |
| ERRO_FREQ | 0,02000000 |
| TON | 100,0000 |
| HPSS | 1,000000 |
| PssMin | -0,1000000 |
| C0 | 0,00000000 |
| PssMax | 0,1000000 |
| C1 | 1,000000 |

20. Diagramas de bloques del Control de Potencia/Velocidad.

Governador:

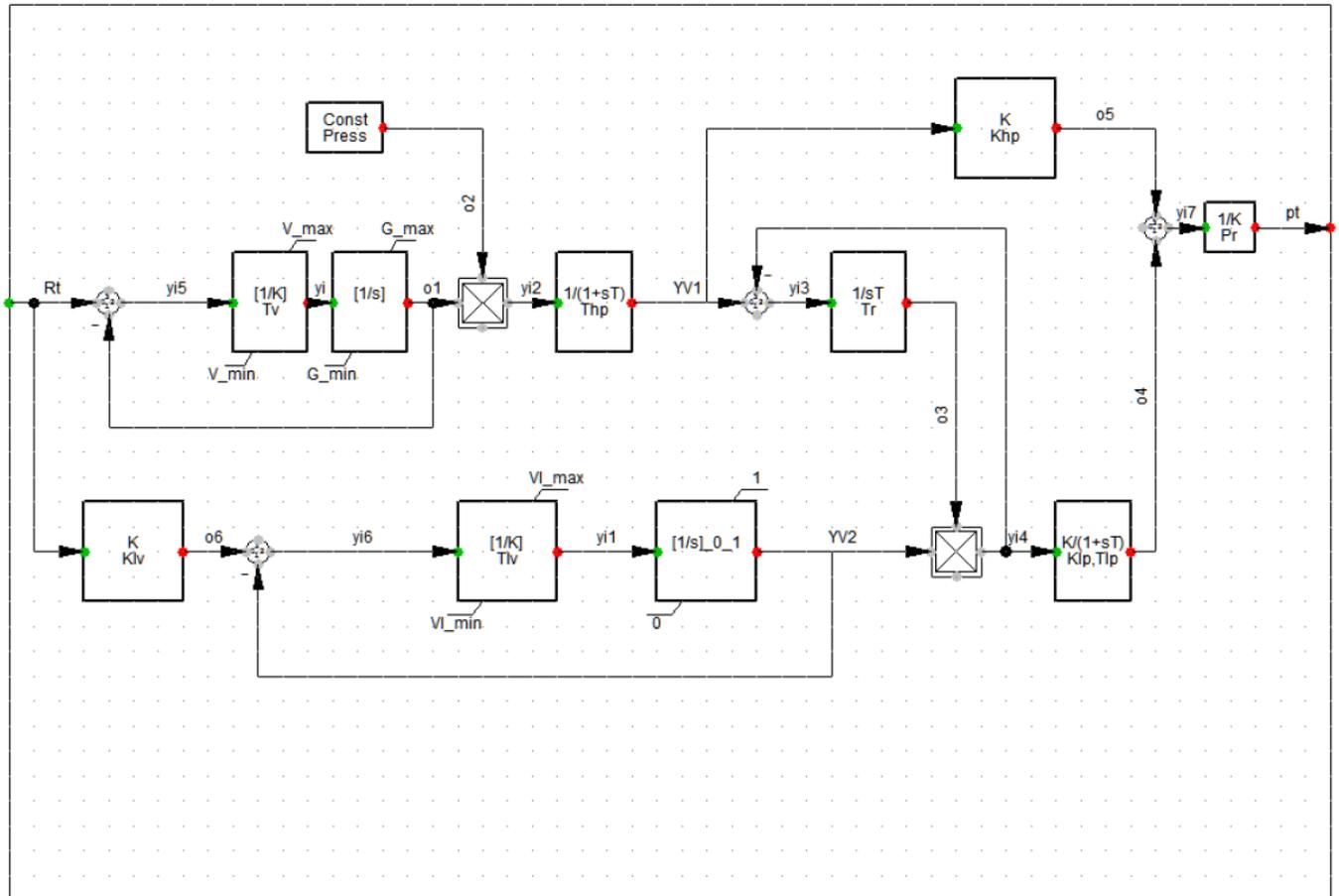


21. Datos del Control de Potencia/Velocidad.

| Parámetro | Valor | Parámetro | Valor |
|-----------|--------|-----------|-------|
| Kn | 1 | Tld | 2 |
| Tn | 2,8 | Ky | 0,1 |
| Kt | 8 | Ntmin | -1 |
| Tlt | 5 | Nfmin | -1 |
| Teht | 0,01 | Ntmax | 1 |
| db | 0,0005 | Nfmax | 1 |
| Tlg | 2,5 | | |

22. Diagrama de Bloques de la turbina.

Turbina:



23. Datos de la turbina.

| Parámetro | Valor | Parámetro | Valor |
|-----------|-------|-----------|-------|
| Tv | 7 | Press | 1 |
| Thp | 0,25 | Pr | 0,29 |
| Tr | 7 | V_min | -3 |
| Klv | 2 | G_min | 0 |
| Tlv | 0,08 | VI_min | -3 |
| Klp | 0,76 | V_max | 1,5 |
| Tlp | 0,6 | G_max | 1 |
| Khp | 0,24 | VI_max | 0,1 |

24. Diagrama de conexiones del generador y control.

