

%% double click to execute

Data\_Ts = 0.005;

%% double click to execute

Ts = 0.000250;

Tpwm = Ts;

Tfixe = 500e-6;

%% double click to execute

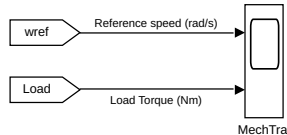
Rs = 1.5; Rr = 0.9;  
Ls = 0.160; Lr = 0.160; Lm = 0.153;  
Lfs = 0.007; Lfr = 0.007; Lmt = 0.210; P1 = 0.7; P2 = 1.5;  
np = 2;  
Psdnom = 0.95; Uo = 15; Ulim = 415\*sqrt(2/3);  
Psinit = [ 0 ; 0 ]; Prinit = [ 0 ; 0 ];  
Inom = 9.1; Prdnom = 1; SLP\_Coeff = 100; Vnom = 400;  
SFC\_Coeff = 100;



Reference Speed (rad/s)



Load value p.u.

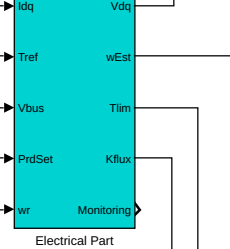
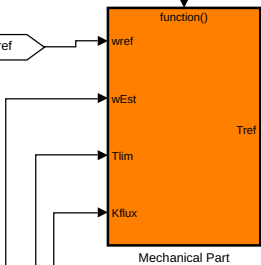
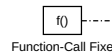


%% double click to execute

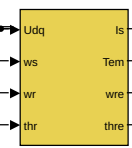
J = 0.045;  
writit = 2\*pi\*0;  
thrinit = 0;  
Jm = J;

%% double click to execute

tauL = 25;  
wL = 2\*pi\*0;  
  
wCurr = 0;  
wSpeed\_PI = 2\*pi\*2.5; xiSpeed\_PI = 1;  
wCurr\_PI = 2\*pi\*50; xiCurr\_PI = 1/2;  
wSpeedEst = 2\*pi\*500;  
  
wn = 2\*pi\*50;  
Tn = 25;



StatorPuls



Udq  
Is  
Tem  
wre  
thre

[Udq]  
[Idq]

[Tem\_moddq]  
[w\_moddq]

Induction Motor - Mechanical part  
Rigid Coupling2

Tload  
wr  
thr

Load  
Constant Load System1  
wr  
tau  
TLoad



Voltage



StatorPuls



Current



Speed



Torque

Data\_dq

Data\_dq\_Inputs

Data\_dq\_Outputs