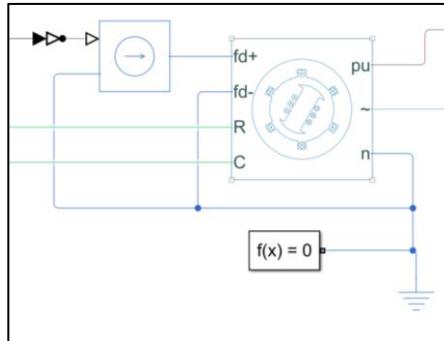


Simscape : Synchronous Machine

In order to validate your results with the synchronous machine in Simscape here are the values you can enter for now.

The Simscape synchronous machine to be use is the : Synchronous Salient Pole.

Obviously the excitation is generated by a current source.



Nearly all the values are defined as variables and here are the values you need to know, you can infer the missing ones yourself.

```
%% SM parameters
% Main
Sn = ;
Un = ;
If0 = 2; % Will be determined in practice afterward
Ifn = ;
Fn = ;
Pp = ;
% Impedances (p.u.)
ra = ;
x1 = 0.072;
xd = ; % parametres de l'exercice
xq = ;
xdp = 0.184;
xdpp = 0.115;
xqpp = 0.207;
% Time Constants ( short circuit )
Tdp = 0.012; % s
Tdpp = 0.003; % s
Tqpp = 0.003; % s
```

