RL circuit  
  
Stair generator  
0,1  
0,10  
0  
  
Controlled voltage source  
Dc  
0  
None  
  
R=1  
L=0.5  
5sec

Bridge rectifier  
  
Powergui (descrete) 5e-06s  
Detailed thyristor(untick)  
Pulse generator  
Ac voltage source (100.     50)  
Dv voltage source20  
R=10  
L=5e-3  
Mean(50)  
  
Alpha( pulse generator value)  
30=0.0016  
45=0.0025  
60=0.0033  
90=0.005  
  
Time based  
Use simulation time  
1  
0.02  
5  
X

Speed control  
  
Armature control  
Constant=1  
R  
Dc voltage source 240  
Gain 30/pi  
  
For field control  
Just place r at f+

Pmnl  
  
Dc source 6  
Ra 7  
1/Laa = 1/120e-3  
Km=0.0141  
1/J = 1/1.06e-6  
Bm=6.04e-6  
  
  
  
For ramp  
0.025  
0.5  
0

|  |  |
| --- | --- |
|  |  |

Single phase bridge rectifier  
  
Dc voltage source  
Igbt/diode  
Pulse generator  
Time based  
Use external signal  
1  
0.02  
50  
0/0.01 for secondary  
  
Series rl branch  
R=50  
L=50e-3  
Powergui

