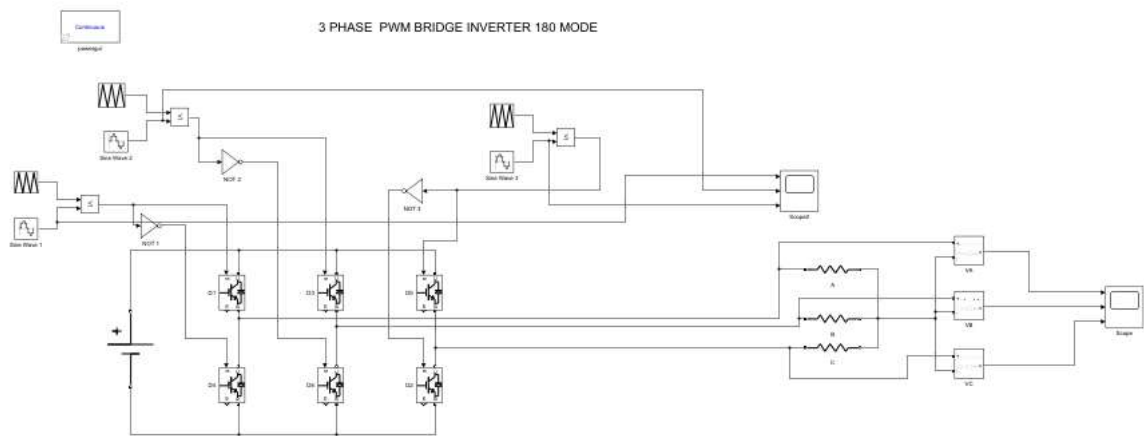


THREE_PH_PWM_INVERTER

Details for THREE_PH_PWM_INVERTER and above



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13-Apr-2024 15:29:05

Table of Contents

[Model - THREE_PH_PWM_INVERTER](#)
[System - THREE_PH_PWM_INVERTER](#)
[Appendix](#)

List of Tables

- [DC Voltage Source Block Properties](#)
- [IGBT/Diode Block Properties](#)
- [Logic Block Properties](#)
- [PSB option menu block Block Properties](#)
- [RelationalOperator Block Properties](#)
- [Repeating table Block Properties](#)
- [Series RLC Branch Block Properties](#)
- [Sin Block Properties](#)
- [Voltage Measurement Block Properties](#)
- [Block Type Count](#)

Model - THREE_PH_PWM_INVERTER

Full Model Hierarchy

- [THREE_PH_PWM_INVERTER](#)

Simulation Parameter	Value
Solver	VariableStepAuto
RelTol	1e-3
Refine	1
MaxOrder	5
ZeroCross	on

[\[more info.\]](#)

System - THREE_PH_PWM_INVERTER

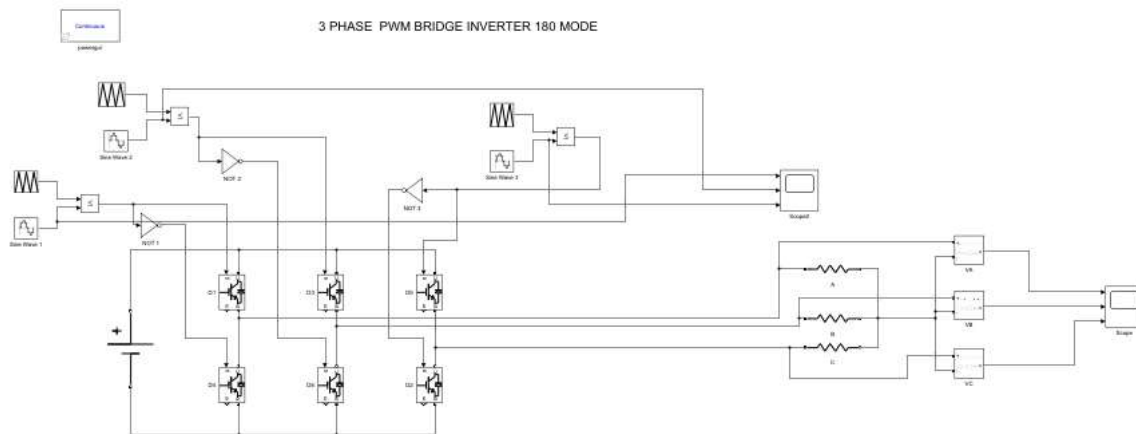


Table 1. DC Voltage Source Block Properties

Name	Amplitude	Measurements
DC Voltage Source	100	None

Table 2. IGBT/Diode Block Properties

Name	Ron	Rs	Cs	Measurements
D1	1e-3	1e5	inf	on
D2	1e-3	1e5	inf	on
D3	1e-3	1e5	inf	on
D4	1e-3	1e5	inf	on
D5	1e-3	1e5	inf	on
D6	1e-3	1e5	inf	on

Table 3. Logic Block Properties

Name	Operator	Inputs	Icon Shape	All Ports Same DT	Out Data Type Str
NOT 1	NOT	2	distinctive	off	boolean
NOT 2	NOT	2	distinctive	off	boolean
NOT 3	NOT	2	distinctive	off	boolean

Table 4. PSB option menu block Block Properties

Name	Simulation Mode	Iterations	Frequency	indice	Pbase	Err Max	Units V	Units W	Function Messages	Echomessages	Current Source Switches	Disable Snubber Devices	Disable Ron Switches	Disable Vf Switches	Display Equations	Method	X0stat
powergui	Continuous	50	0		100e6	1e-4	kV	MW	off	off	off	off	off	off	off	off	blocks

Table 5. RelationalOperator Block Properties

Name	Operator	Input Same DT	Out Data Type Str	Zero Cross	Rnd Meth
Relational Operator	<=	off	boolean	on	Simplest
Relational Operator1	<=	off	boolean	on	Simplest
Relational Operator2	<=	off	boolean	on	Simplest

Table 6. Repeating table Block Properties

Name	Rep seq t	Rep seq y
Repeating Sequence	[0 1 2]	[0 2 0]
Repeating Sequence1	[0 1 2]	[0 2 0]
Repeating Sequence2	[0 1 2]	[0 2 0]

Table 7. Series RLC Branch Block Properties

Name	Branch Type	Resistance	Measurements
A	R	100	Branch voltage
B	R	100	Branch voltage
C	R	100	Branch voltage

Table 8. Sin Block Properties

Name	Sine Type	Time Source	Amplitude	Bias	Frequency	Phase	Samples	Offset	Sample Time
Sine Wave 1	Time based	Use simulation time	1	0	314.159	0	10	0	1e-6

Name	Sine Type	Time Source	Amplitude	Bias	Frequency	Phase	Samples	Offset	Sample Time
Sine Wave 2	Time based	Use simulation time	1	0	314.159	2.094	10	0	1e-6
Sine Wave 3	Time based	Use simulation time	1	0	314.159	4.188	10	0	1e-6

Table 9. Voltage Measurement Block Properties

Name
VA
VB
VC

Appendix

Table 10. Block Type Count

BlockType	Count	Block Names
IGBT/Diode (m)	6	D1 , D2 , D3 , D4 , D5 , D6
Voltage Measurement (m)	3	VA , VB , VC
Sin	3	Sine Wave 1 , Sine Wave 2 , Sine Wave 3
Series RLC Branch (m)	3	A , B , C
Repeating table (m)	3	Repeating Sequence , Repeating Sequence1 , Repeating Sequence2
RelationalOperator	3	Relational Operator , Relational Operator1 , Relational Operator2
Logic	3	NOT 1 , NOT 2 , NOT 3
Scope	2	Scope, Scope2
PSB option menu block (m)	1	powergui
DC Voltage Source (m)	1	DC Voltage Source