

4.6 Setting Default Values for the Signal Generators

Sinewave Generators

Next, we can configure the signal generators used in the simulation.

- In the Configuration Tree, expand **Circuit Model >> SPWM Generators**
- Configure the SPWM Generators by confirming that the **Default Values** of the relevant channels are configured as shown in the table below.
- Click **Save**.

Frequency Engines	
Channel Name	Default Value
Frequency Engine 0	0Hz
SWG 0	
Channel Name	Default Value
Frequency Engine	0
Phase	0°
SWG 1	
Channel Name	Default Value
Frequency Engine	0
Phase	120°
SWG 2	
Channel Name	Default Value
Frequency Engine	0
Phase	-120°

SPWM Generators

Next, we can configure the **SPWM Generators** used in the simulation.

- In the Configuration Tree, expand **Circuit Model >> SPWM Generators**
- Configure the SPWM Generators by confirming that the **Default Values** of the relevant channels are configured as shown in the table below.
- Click **Save**.

SPWM Carrier	
Channel Name	Default Value
Carrier Frequency	5000Hz
SPWM Generator 0	
Channel Name	Default Value
Frequency Engine	0
Phase	0°
SPWM Generator 1	
Channel Name	Default Value
Frequency Engine	0

Phase	120°
SPWM Generator 2	
Channel Name	Default Value
Frequency Engine	0
Phase	-120°

System Explorer - Dual PMSM SH Local Controller.nivssdf*

File Edit Tools Help

Custom Device Channel Specification

Name
SPWM Frequency Engine 0

Description

Default Value
1000

Channel Settings

Property	Value
Type	Input
Units	Hz
Default Value	1000.000000
Faultable	No
Scalable	No