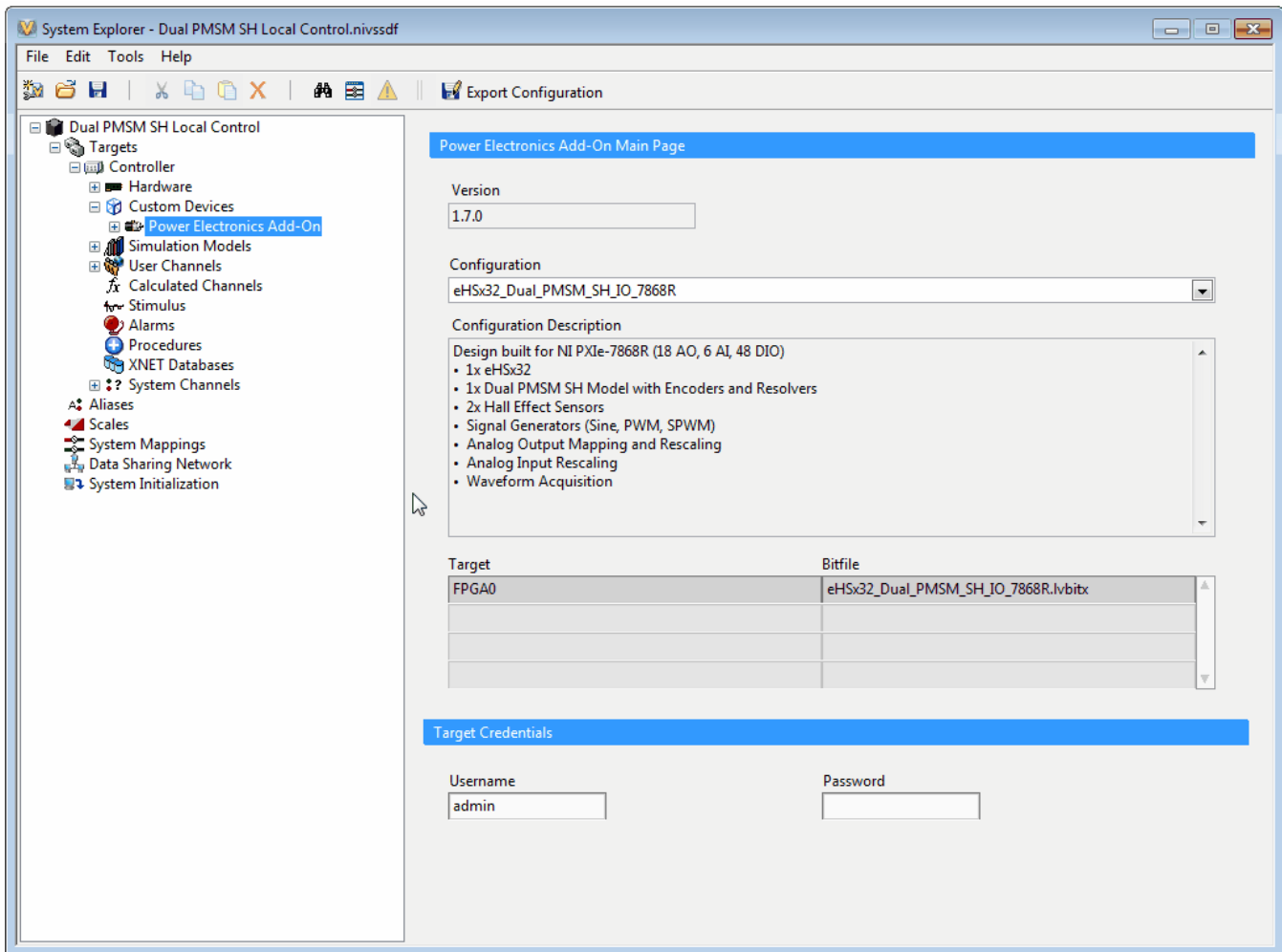


5.3 Configuring the Electrical Models

The circuit model file has been loaded into the example project already, although the steps below can be used to reload the circuit model. This is typically only necessary if the circuit has been modified. For more information, please refer to [How to Add a Circuit Model to the System Definition](#).

- In the Configuration Tree, under **Power Electronics Add-On**, click **Circuit Model**.
- In the configuration page, click to **Browse** for the **Circuit Model File Path**.
- Select the model (.mdl) file at the **Circuit Model File Path** shown below. This automatically triggers a model update in the System Definition.
- Wait for the update to complete.
- (optional) Click the **Refresh** button to see additional model information.
- Click **Save**.

Circuit Model File Path: <Public Documents>National Instruments\<NI VeriStand 20XX>\Examples\OPAL-RT\Power Electronics Add-On\Quad SCIM Constant Local Control\Circuit Model\SCIM_eHS_UB.mdl



Configuring the SCIM Model

In this example, the SCIM model has been pre-configured. For more information about machine configuration, please refer to the [SCIM Section](#). Explore the machine configuration described below.

- In the Configuration Tree, expand **Circuit Model >> Machines** and click **SCIM 1** to open the configuration page for the machine.
- Observe the configured machine parameters. The Input Mapping subsection allows the outputs of the circuit model to be easily connected to the inputs of the machine.
- In the Configuration tree, expand **SCIM 1** and click **Mechanical Model** to view the mechanical model parameters.
- Confirm that the parameter values match those in the table below.

Motor Configuration	
Motor Type	Squirrel-Cage Induction Machine
Stator Resistance (Ohm)	0.5968
Stator Leakage Inductance (H)	0.00035
Rotor Resistance (Ohm)	0.6258
Rotor Leakage Inductance (H)	0.00547
Pole Pairs	3
Initial Speed	0
Mutual Inductance (H)	0.0354
Zero-Sequence	Don't Include
Solver Timestep (s)	4.81E-7
Mechanical Model Configuration	
Viscous Damping	0.00190986
Static Friction	0.3665
Inertia	0.0167309
Mechanical Model Mode (VeriStand Channel)	1

