

Encoder (PMSM VDQ)



This version of the Encoder and its associated [Hardware Configurations](#) have been archived. If starting a new project, consider using a different Hardware Configuration.

Encoder Configuration Page

In the **System Explorer** window configuration tree, expand the **Power Electronics Add-On** custom device and select **Circuit Model >> PMSM VDQ >> Encoder** to display this page. Use this page to configure the Encoder sensor model.

This page includes the following components:

Configuration				
	Symbol	Units	Default	Description
Name				Specifies the name of the encoder.
Description				Specifies a description for the encoder.
#Pole Pairs	pp		1	Modify this parameter if the encoder is attached to a gear box rather than connected directly to the rotor. In most applications this is set to 1.
Signal Order			A leads B	Select one of the following options: <ul style="list-style-type: none">• A leads B - A is the first output pulse as the machine begins to rotate• B leads A - B is the first output pulse as the machine begins to rotate If the machine appears to be turning backwards, consider switching this setting.
Angle Offset	Offset	Degrees	0°	Angle offset applied to the machine angle, mach
Polarity			Active Low	Select one of the following options: <ul style="list-style-type: none">• Active High - Output signals are pulled High to signify an encoder pulse• Active Low - Output signals are pulled Low to signify an encoder pulse
Pulses Per Revolution	ppr		1000	Number of pulses generated by the outputs A and B in a single revolution