

# Control Relay Jumper Placement

## Checking the control relay contact selection

The controller has been shipped with CONTROL relays configured for **Normally Open** contacts as shown in Figure 2-6. If you want to change the relay action, refer to Figure 2-6 for jumper location and Table 2-4 for Relay Contact information and reposition the jumpers on the controller board for (NC) Normally Closed contacts on the control relay as listed below:

JUMPER POSITION	CONTROL RELAY	RELAY ACTION
W110	#1	N.C.
W111	#1	N.O.
W112	#2	N.C.
W113	#2	N.O.

**ATTENTION** Control relays operate in the standard control mode i.e. Energized when output state is ON.

Table 2-4 Control Relay Contact Information

UNIT POWER	CONTROL RELAY JUMPER	CONTROL RELAY CONTACT	#1 OR #2 OUTPUT INDICATOR STATUS
OFF	N.O.	Open	Off
	N.C.	Closed	
ON	N.O.	Open	Off
		Closed	On
	N.C.	Closed	Off
		Open	On

**CAUTION** When alarm or control relay are used to drive AC-powered customer solid state relays, be sure that the external relays are functioning properly. See subsection 2.4 - Caution Note or Section 9 - Troubleshooting if the external relays are not being activated.

Figure 2-6 Control Relay Jumper Placement

