

Alex-Tronix Service Bulletin No. 8, Rev 0, as of 9-04-2003

Controller: SS, Smart Alex, Enercon, BCS, Filter controllers/w latching output.

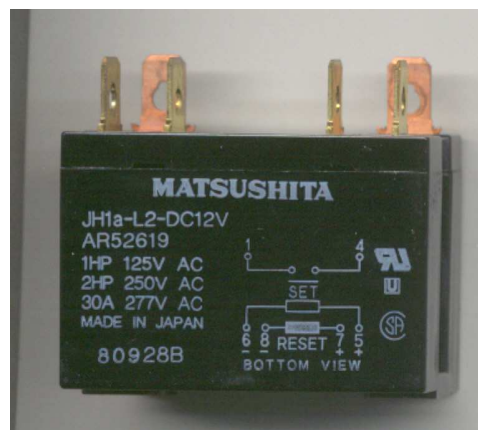
Issue: Connecting a pump/control relay to battery operated controllers.

Controller needs to turn on an auxiliary device such as an electric pump.

Need to drive a pump or something else?, okay, let's think this through...

All controllers that are latching output (battery operated) can drive a latching relay instead of a latching solenoid. The relay Alex-tronix sells and only recommends is a special latching coil type made by Matsushita, part # JH1A-L2-DC12V. This relay has the following electrical ratings:

1HP @ 125VAC, or 2HP @ 250VAC, or 30 amps @ 277VAC.



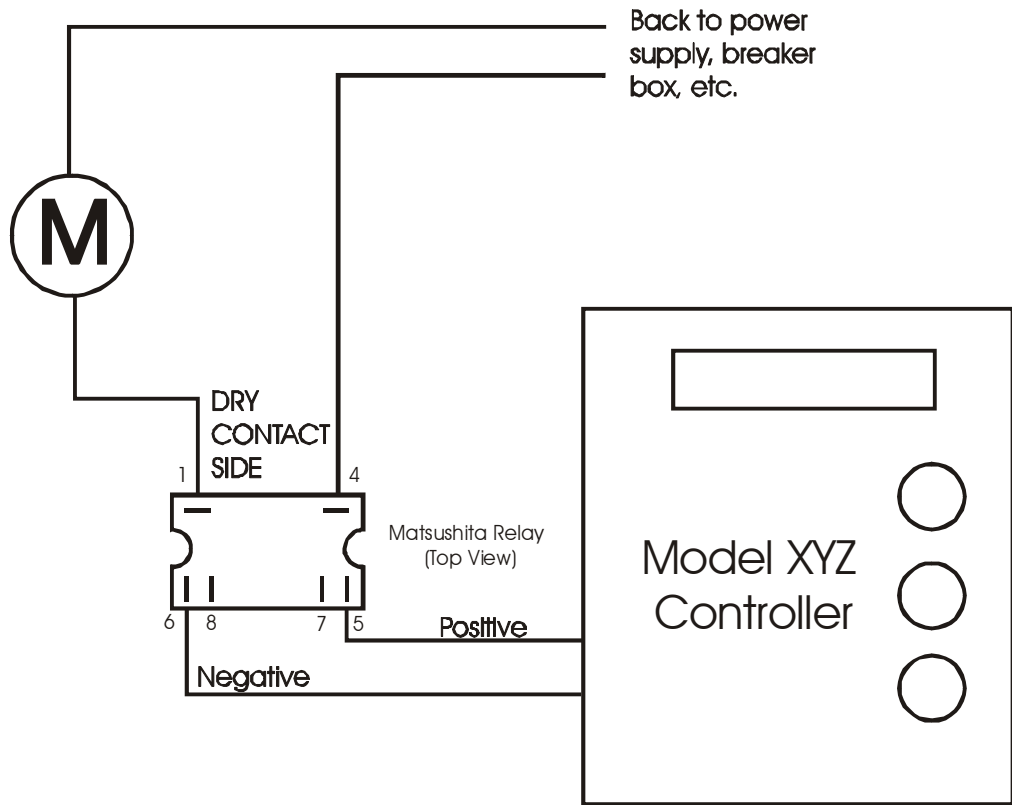
There are a total six terminal lugs-- two copper, 4 brass. The copper lugs marked #1 & #4 are the dry contacts used to break the electrical load to your pump or other device. *You must supply your own power to the device you are controlling.* The two *outer brass* terminal lugs #5 and #6 connect to the controllers outputs. #5 goes to positive (commons or black wire) and #6 goes to negative (stations or red wire). The remaining inner brass terminals #7 and #8 are not used at all.

Note: On the F3AC/DC/DCL and ENERCON the outputs are reversed. The **common** goes to #6 and the **stations** to #5.

Study the wiring diagram below to see how a typical installation is done. CAUTION WITH HIGH VOLTAGE! **Qualified Electricians only.**



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The motor “M” is just an example of what can be controlled; Other applications can be lights, warning indicators, PLC trigger nodes, etc. Take care for not passing too much current through the relay contacts, especially when switching large DC loads.

Extra Notes:

- 1) For the BCS only, you will need to have a special output module (ordered together) connected to the coil of the relay. It will come pre-connected to the relay. The module input wires will go back to the controller. The module itself will remain within the vicinity of the relay.
- 2) The SS and Smart Alex series will have a red and a black wire protruding from the case. Wire according to diagram pins #5 & #6.

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