

## OPEN BYPASS FAULTS F13, F14, F15

To verify if the problem is with the control module or bypass contactor you can roll the power pole connections to the control module. This can only be done on the 108A to 1250A devices, It cannot be done on the 5A-85A) To do this you would do the following:

Remove the plugs from terminal blocks TB2, TB3, TB4, TB5, TB6, TB7.

Below are two different ways of explaining how to roll the phases. The first is a written description of rolling the phases. The second is a chart showing how to roll the phases. Each option achieves the same outcome.

### **Option 1:**

Rolling phase A power pole to phase C control module:

Connect plug labeled TB2 to terminal block TB4.

Connect plug labeled TB5 to terminal block TB7.

Rolling phase B power pole to phase A control module:

Connect plug labeled TB3 to terminal block TB2.

Connect plug labeled TB6 to terminal block TB5.

Rolling phase C power pole to phase B control module:

Connect plug labeled TB4 to terminal block TB3.

Connect plug labeled TB7 to terminal block TB6.

### **OR:**

### **Option 2:**

Before:

|                            | Black |     |     | White |     |     |
|----------------------------|-------|-----|-----|-------|-----|-----|
| Phase                      | A     | B   | C   | A     | B   | C   |
| Plug (Power Pole)          | TB2   | TB3 | TB4 | TB5   | TB6 | TB7 |
| Connector (Control Module) | TB2   | TB3 | TB4 | TB5   | TB6 | TB7 |
| Phase                      | A     | B   | C   | A     | B   | C   |

After:

|                            | Black |     |     | White |     |     |
|----------------------------|-------|-----|-----|-------|-----|-----|
| Phase                      | B     | C   | A   | B     | C   | A   |
| Plug (Power Pole)          | TB4   | TB2 | TB3 | TB7   | TB5 | TB6 |
| Connector (Control Module) | TB2   | TB3 | TB4 | TB5   | TB6 | TB7 |
| Phase                      | A     | B   | C   | A     | B   | C   |

If the fault follows the moving of the power pole plugs, then the problem is with the bypass contactor. Replace the power pole (108A...480A) or the bypass contactor (625A...1250A).

If the fault stays with the connector on the control module (remains the same), then the problem is with the control module. Replace the control module.

See knowledgebase document 26055 or the user manual ([http://literature.rockwellautomation.com/idc/groups/literature/documents/um/150-um008\\_-en-p.pdf](http://literature.rockwellautomation.com/idc/groups/literature/documents/um/150-um008_-en-p.pdf)) for replacement power pole, bypass contactor or control module replacement part numbers.