

## Vyper and Mustang drives "Instantaneous Current Faults"

From Karl Barley –

This is most likely a rectifier problem.

If one of the input SCR's is not working this causes the DC Buss voltage to become unstable.

If the chiller is going out on "Instantaneous over current" faults and the faults are random in their phase, i.e. - once phase A, then phase C, etc....

Watch the output current when running; one phase will likely have lower amperage than the other two phases.

Turn off harmonic filter in the Optiview menus, (not by pulling the ribbon cable that runs from the filter logic board to the vsd logic board and turning off the switch on the filter logic board) if present, as it will be trying to compensate for the line/drive amperage fluctuations.

Use the harmonic filter inputs to track the input currents. Swap two SCR's (ensuring one of them is the low amperage one)

If the low amperage follows the SCR, then the SCR is bad, otherwise the trigger board is bad.

### "Single Phase Input Power" fault

If this cycling diagnostic appears after cycling the power to the drive, check the Optiview history as there may have been another diagnostic that happened after the logic boards K1 relay was opened and therefore does not display on the Optiview screen but will show up in the History as a more recent fault.

Both the Vyper and Style D drives have new logic boards due to the microprocessor becoming obsolete. These will be a revision F. If your drive sees numerous nuisance modbus com faults and all comm links are grounded and no plugs are loose, then replace logic board with this new revision F board.