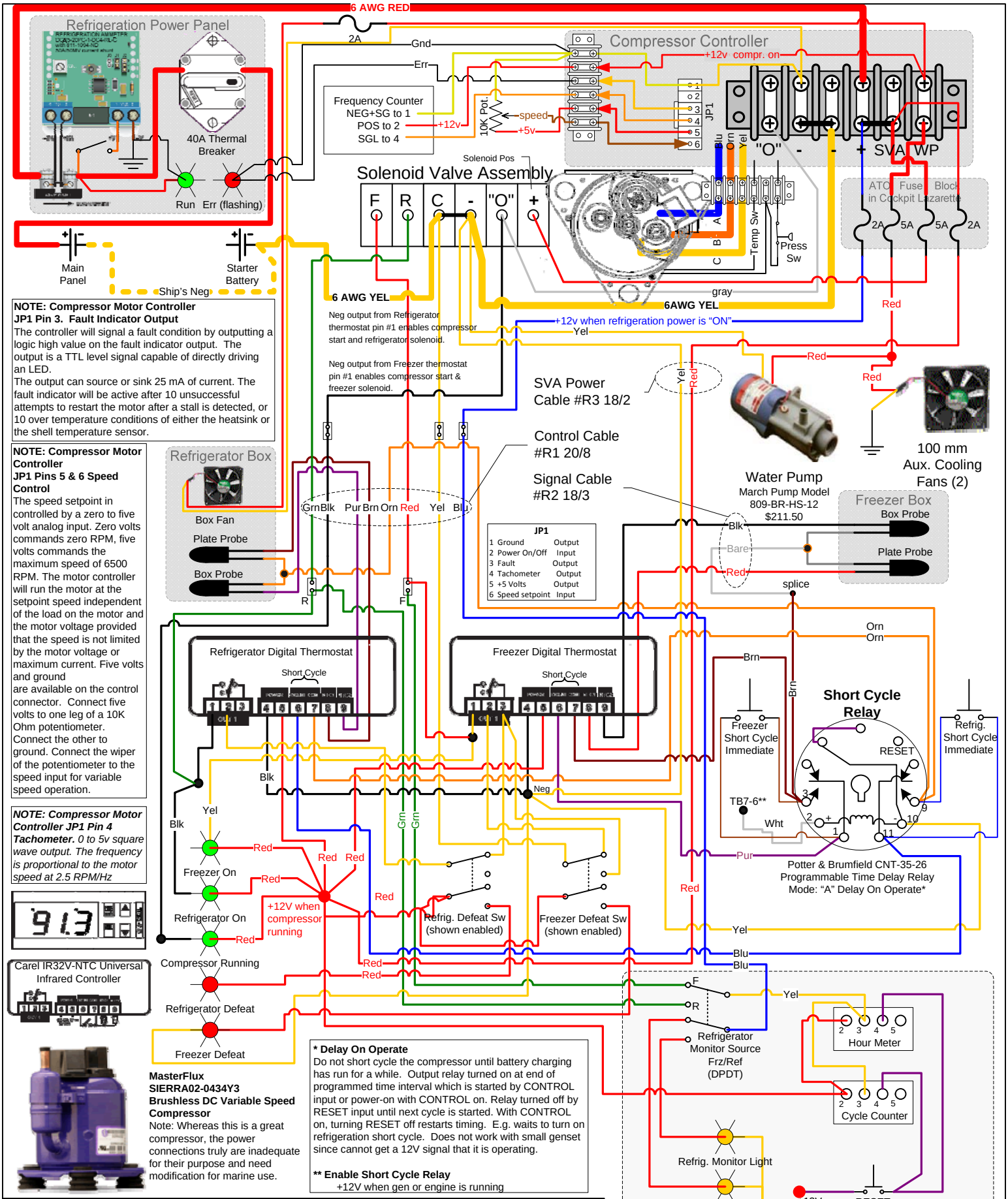

NOTE: Compressor Motor Controller
JP1 Pin 3. Fault Indicator Output
The controller will signal a fault condition by outputting a logic high value on the fault indicator output. The output is a TTL level signal capable of directly driving an LED.
The output can source or sink 25 mA of current. The fault indicator will be active after 10 unsuccessful attempts to restart the motor after a stall is detected, or 10 over temperature conditions of either the heatsink or the shell temperature sensor.

NOTE: Compressor Motor Controller
JP1 Pins 5 & 6 Speed Control
The speed setpoint in controlled by a zero to five volt analog input. Zero volts commands zero RPM, five volts commands the maximum speed of 6500 RPM. The motor controller will run the motor at the setpoint speed independent of the load on the motor and the motor voltage provided that the speed is not limited by the motor voltage or maximum current. Five volts and ground are available on the control connector. Connect five volts to one leg of a 10K Ohm potentiometer. Connect the other to ground. Connect the wiper of the potentiometer to the speed input for variable speed operation.

NOTE: Compressor Motor Controller JP1 Pin 4 Tachometer. *0 to 5v square wave output. The frequency is proportional to the motor speed at 2.5 RPM/Hz*

MasterFlux
SIERRA02-0434Y3
Brushless DC Variable Speed Compressor
Note: Whereas this is a great compressor, the power connections truly are inadequate for their purpose and need modification for marine use.

*** Delay On Operate**
Do not short cycle the compressor until battery charging has run for a while. Output relay turned on at end of programmed time interval which is started by CONTROL input or power-on with CONTROL on. Relay turned off by RESET input until next cycle is started. With CONTROL on, turning RESET off restarts timing. E.g. waits to turn on refrigeration short cycle. Does not work with small genset since cannot get a 12V signal that it is operating.

**** Enable Short Cycle Relay**
+12V when gen or engine is running

S/V *BEATRIX* - KELLY-PETERSON 44 #286 (1980)

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