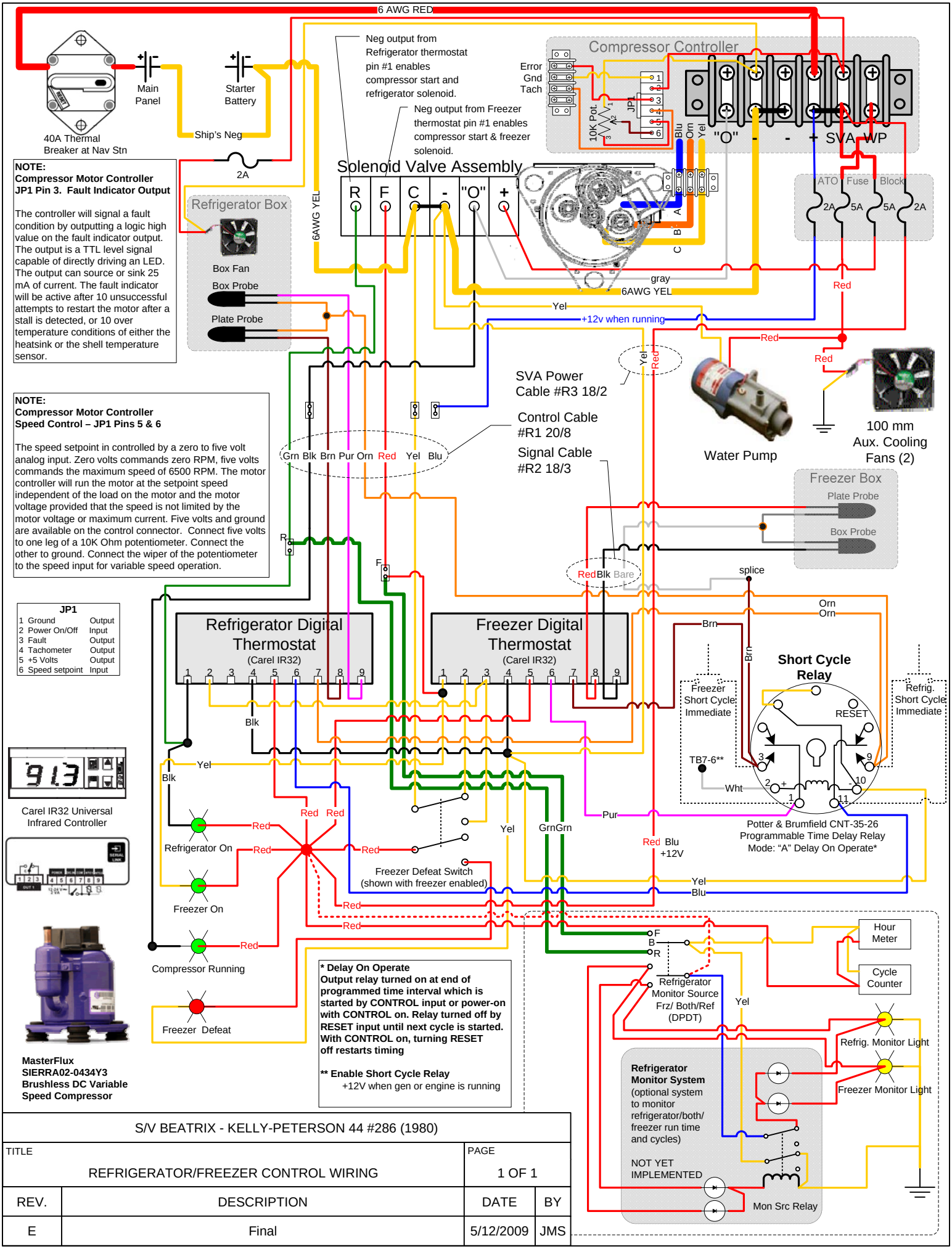

NOTE:
Compressor Motor Controller
JP1 Pin 3. Fault Indicator Output

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
Speed Control – JP1 Pins 5 & 6

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.

JP1		
1	Ground	Output
2	Power On/Off	Input
3	Fault	Output
4	Tachometer	Output
5	+5 Volts	Output
6	Speed setpoint	Input

MasterFlux
SIERRA02-0434Y3
Brushless DC Variable Speed Compressor

*** Delay On Operate**
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

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

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

TITLE	PAGE
REFRIGERATOR/FREEZER CONTROL WIRING	1 OF 1

REV.	DESCRIPTION	DATE	BY
E	Final	5/12/2009	JMS