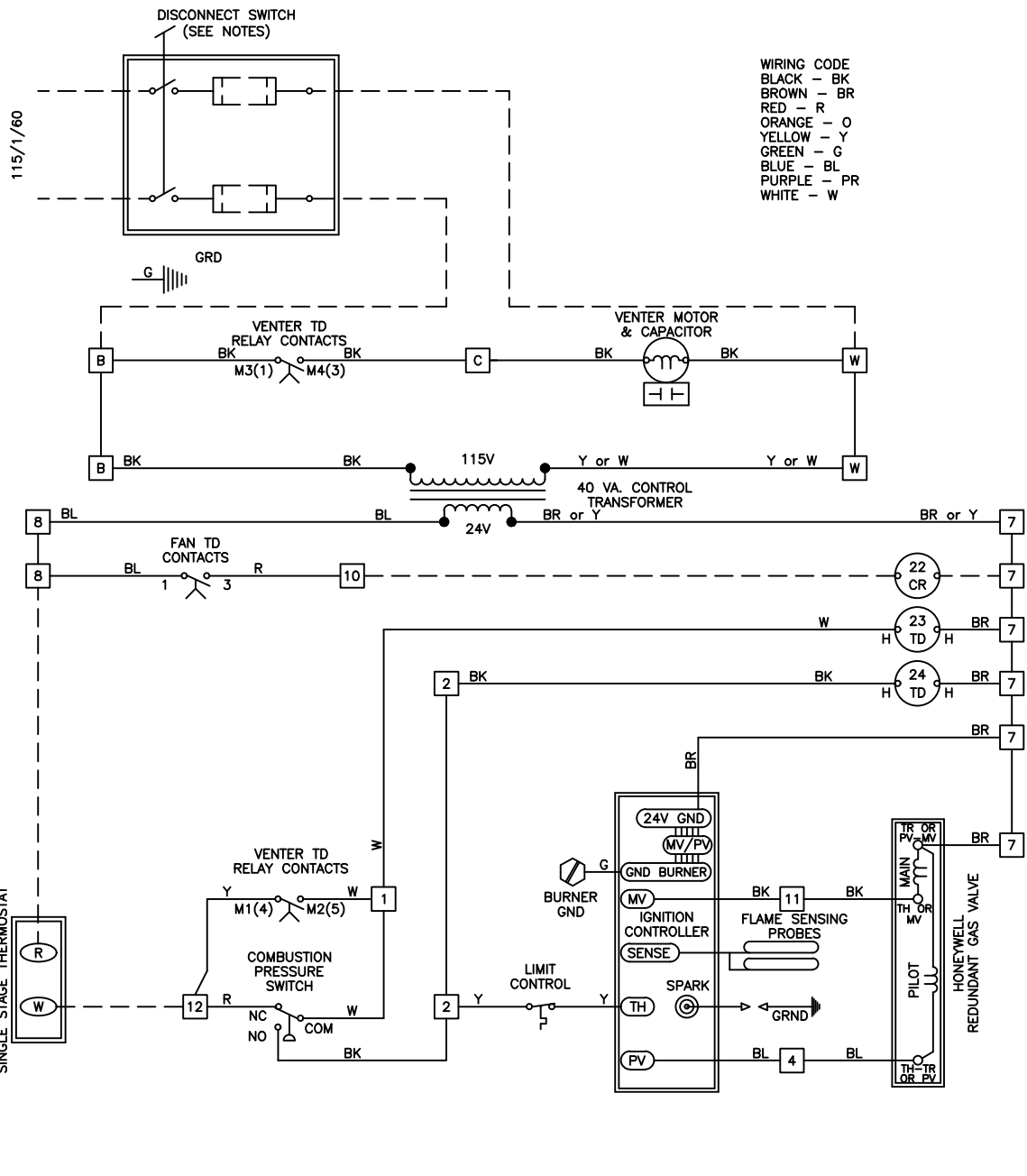


MODEL SC



- OPERATING SEQUENCE**
- SET THERMOSTAT AT LOWEST SETTING.
 - TURN ON POWER, MAIN AND PILOT MANUAL GAS VALVES.
 - SET THERMOSTAT AT DESIRED SETTING.
 - ON A CALL FOR HEAT BY THE THERMOSTAT
 - THE VENTER MOTOR IS ENERGIZED AFTER A 15 SECOND (APPROX.) TIME DELAY.
 - VENTER FLOW SWITCH SWITCHES FROM N.C. TO N.O. CONTACTS ENERGIZING THE PILOT GAS VALVE AND SPARK TO PRODUCE A PILOT FLAME ON EACH OPERATING CYCLE. THE SENSING PROBE PROVES THE PRESENCE OF THE PILOT FLAME AND ENERGIZES THE SAFETY PORTION OF THE CONTROL. THE SWITCH ACTION DE-ENERGIZES THE SPARK GAP AND ENERGIZES THE MAIN VALVE. THE MAIN GAS IGNITES AND UNIT FIRES AT LOW RATE.
 - BLOWER MOTOR OPERATES FROM FAN TIME DELAY.
 - IF THE FLAME IS EXTINGUISHED DURING MAIN BURNER OPERATION, THE SAFETY SWITCH CLOSURES THE MAIN VALVE AND RECYCLES THE SPARK GAP.
- ON UNITS EQUIPPED WITH LOCKOUT CONTROL, IF PILOT IS NOT ESTABLISHED WITHIN 120 SEC. THE UNIT LOCKS OUT FOR ONE HOUR, UNLESS IT IS RESET BY INTERRUPTING POWER TO THE CONTROL CIRCUIT. (SEE LIGHTING INSTRUCTIONS)
- SET THERMOSTAT AT LOWEST SETTING FOR SHUTDOWN.
 - BLOWER MOTOR REMAINS ON AS DETERMINED BY FAN TIME DELAY.

- NOTE**
- THE FOLLOWING CONTROLS ARE FACTORY INSTALLED OPTIONS:
 NONE
 - THE FOLLOWING CONTROLS ARE FIELD INSTALLED OPTIONS:
 THERMOSTAT
 - DOTTED WIRING AND THE FOLLOWING CONTROLS ARE SUPPLIED AND INSTALLED BY OTHERS: BLOWER RELAY
 - CAUTION: IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105 DEGREES C., EXCEPT FOR SENSOR LEAD WIRE WHICH MUST BE 150 DEGREES C.
 - LINE AND BLOWER MOTOR BRANCH CIRCUIT WIRE SHOULD BE OF A SIZE TO PREVENT VOLTAGE DROP BEYOND FIVE PERCENT OF SUPPLY LINE VOLTAGE.
 - USE #14 GA. WIRE FOR LINE WIRING ON UNIT.
 - USE #18 GA. WIRE FOR 24 VOLT CONTROL WIRING ON UNIT.
 - WHEN PROVIDING OR REPLACING FUSES IN THE FUSIBLE DISCONNECT SWITCH USE DUAL ELEMENTS TIME DELAY FUSES AND SIZE ACCORDING TO 1.25 TIMES THE MAXIMUM TOTAL INPUT AMPS.
 - DISCONNECT SWITCH IS FIELD FURNISHED OR AVAILABLE FROM FACTORY AS AN OPTION.

FIELD CONTROL WIRING	MINIMUM RECOMMENDED WIRE SIZE
150 FEET	#18 GA.
250 FEET	#16 GA.
350 FEET	#14 GA.

—————	FACTORY WIRING
-----	FIELD WIRING
××××	OPTIONAL FACTORY WIRING

1, 2, 4, 7, 8, 10, 11, 12, B, C & W	□	TERMINAL BLOCK
---		HEATER COMPARTMENT