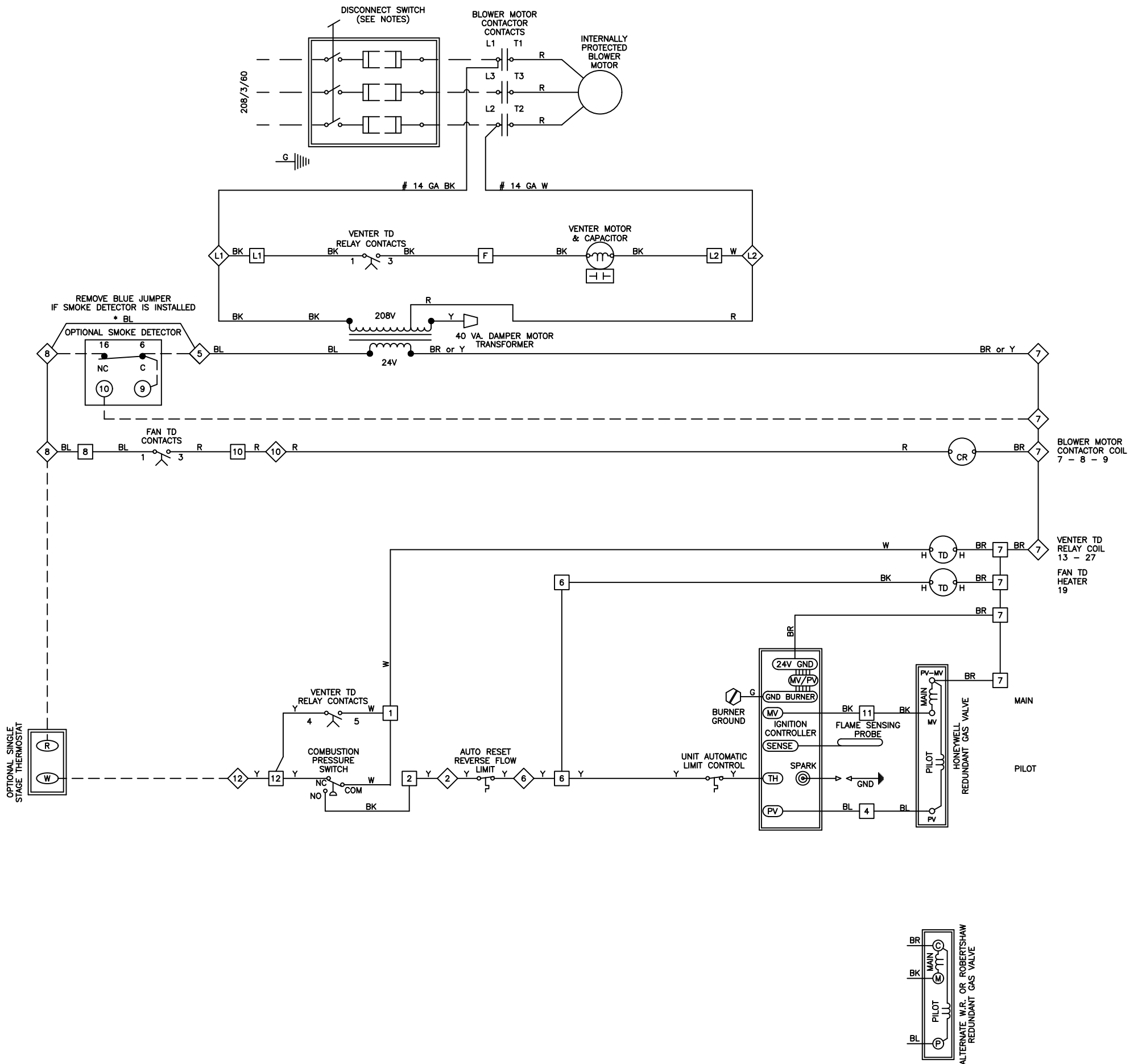


MODEL RPB



OPERATING SEQUENCE

- SET THERMOSTAT SYSTEM SWITCH AT "OFF" POSITION.
- TURN ON POWER AND MANUAL GAS VALVE TO UNIT.
- IF OPTIONAL SMOKE DETECTOR SENSES SMOKE, THE UNIT IS SHUTDOWN.
- SET THERMOSTAT SYSTEM SWITCH AT "AUTO" POSITION.
- FIRING RATE IS CONTROLLED BY THE THERMOSTAT.
- BLOWER MOTOR OPERATES ON A CALL FOR HEAT.
- SET THERMOSTAT SYSTEM SWITCH AT "OFF" POSITION FOR SHUTDOWN.
- BLOWER MOTOR REMAINS ON AS DETERMINED BY FAN TIME DELAY.

FIRING SEQUENCE:

- 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 GAP TO PRODUCE A PILOT FLAME ON EACH OPERATING CYCLE. THE SENSING PROBE PROVES THE PRESENCE OF THE PILOT FLAME AND ENERGIZES THE SAFETY SWITCH 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 FULL RATE.
- 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)

WIRING CODE
 BLACK - BK
 BROWN - BR
 RED - R
 ORANGE - O
 YELLOW - Y
 GREEN - G
 BLUE - BL
 PURPLE - PR
 WHITE - W

NOTE

- THE FOLLOWING CONTROLS ARE SUPPLIED BY REZNOR FOR FIELD INSTALLATION: NONE
- THE FOLLOWING CONTROLS ARE SUPPLIED AS OPTIONAL EQUIPMENT: SMOKE DETECTOR AND THERMOSTAT
- DOTTED WIRING AND THE FOLLOWING CONTROLS ARE SUPPLIED AND INSTALLED BY OTHERS: NONE
- 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 ENERGY CUTOFF OR SENSOR LEAD WIRE WHICH MUST BE 150 DEGREES C.
- LINE AND BLOWER MOTOR BRANCH CIRCUIT WIRE SIZE SHOULD BE OF A SIZE TO PREVENT VOLTAGE DROP BEYOND FIVE PERCENT OF SUPPLY LINE VOLTAGE.
- USE #14 GA. WIRE FOR LINE AND MOTOR WIRING ON UNIT. (3HP or LESS)
- USE #12 GA. WIRE FOR LINE AND MOTOR WIRING ON UNIT. (5HP)
- USE #18 GA. WIRE FOR CONTROL WIRING ON UNIT UNLESS OTHERWISE NOTED.
- 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.
- THE LINE SIDE OF THE DISCONNECT SWITCH MUST BE CONNECTED TO THE INCOMING POWER SUPPLY SUCH THAT THE VOLTAGE BETWEEN TERMINAL L1 AND GROUND IS THE GREATER VALUE.

| FIELD WIRING | | FACTORY WIRING | |
|-------------------|-------------------------------|----------------|-------------------------|
| TOTAL WIRE LENGTH | MINIMUM WIRE SIZE RECOMMENDED | --- | --- |
| 150 FEET | #18 GA. | ---- | FIELD WIRING |
| 250 FEET | #16 GA. | -x-x-x-x- | OPTIONAL FACTORY WIRING |
| 350 FEET | #14 GA. | -+ + + +- | OPTIONAL FIELD WIRING |

2, 5, 6, 7, 8, 10, 12, L1, L2



TERMINAL BLOCK -- BLOWER COMPARTMENT

1, 2, 4, 6, 7, 8, 10, 11, 12, F, L1, L2



TERMINAL BLOCK -- HEATER COMPARTMENT