

WIRING DIAGRAMS

POWER CIRCUIT DIAGRAMS - ELECTRONIC CONTROL MODELS

The water heater's electrical components are pictured and identified on page 7. The following describes the heater circuits and includes wiring diagrams. All heater circuits are designed for 60/50 hertz alternating current. The water heater circuit wiring is 12 AWG, AWM, or TEW type, rated 600 volts, 105°C. Fusing consists of three 30 amp fuses for each contactor. Fusing is an optional feature for Canadian models.

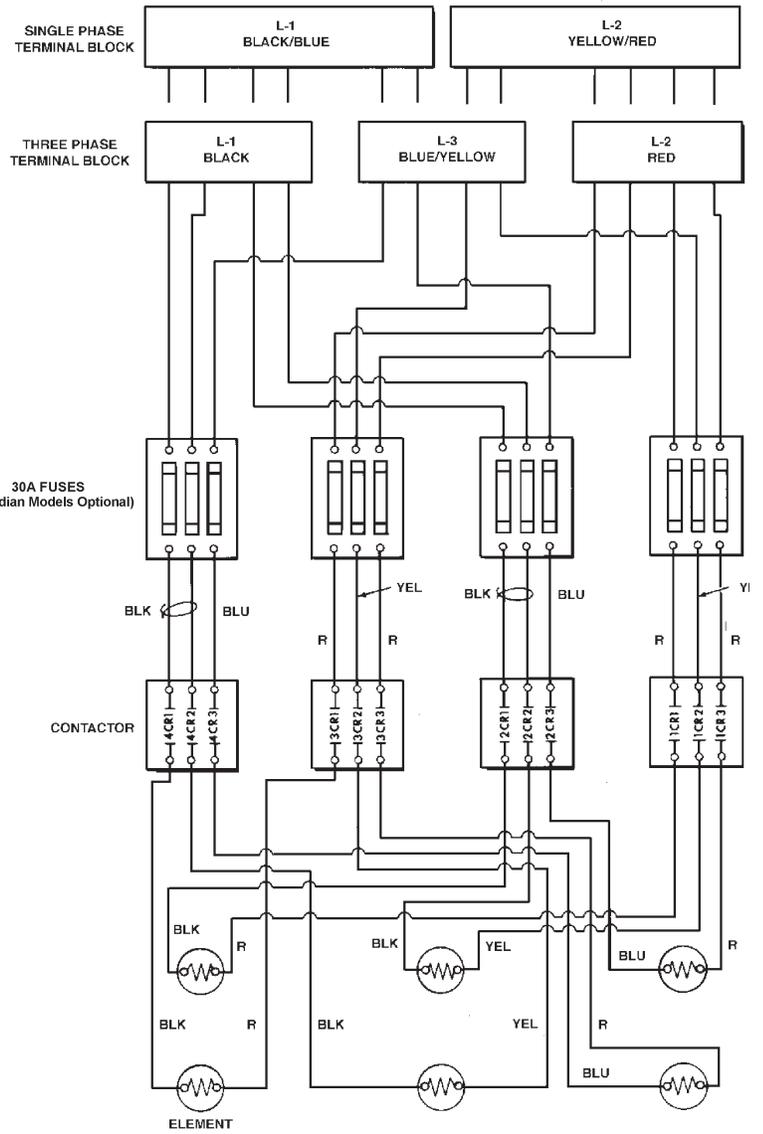
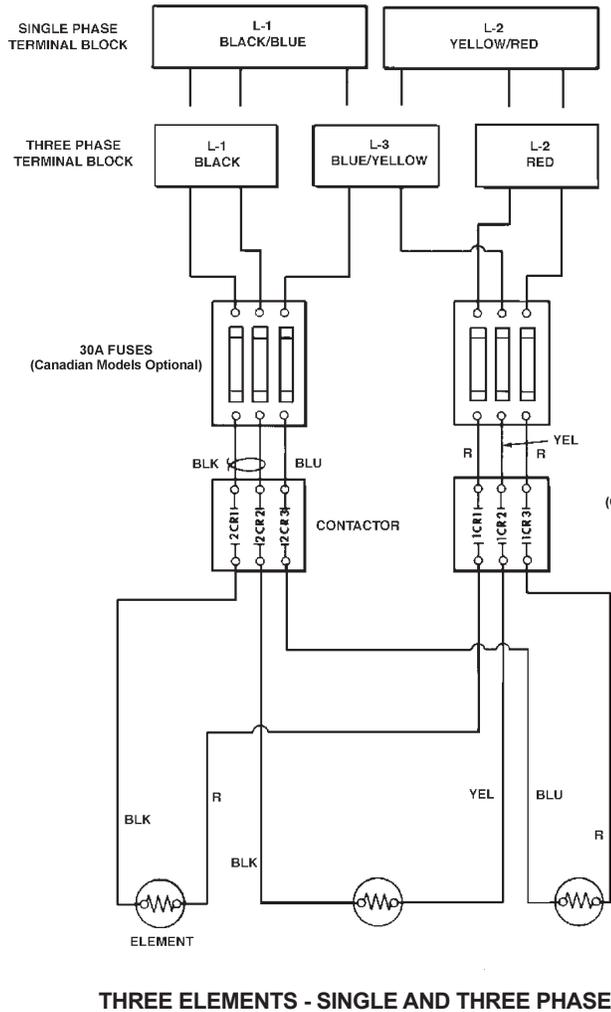
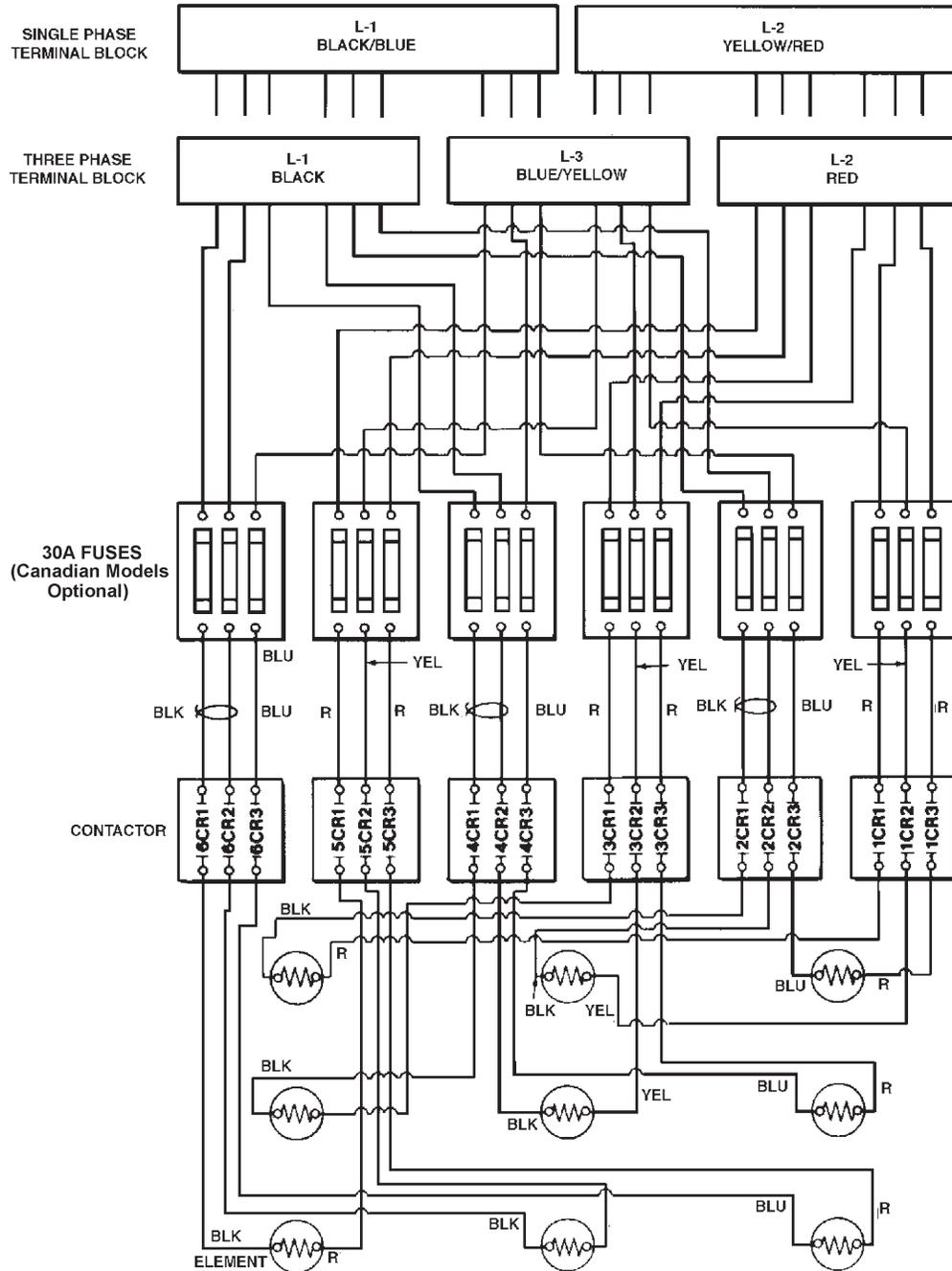


DIAGRAM 1.

WIRING DIAGRAMS



NINE ELEMENT - SINGLE AND THREE PHASE

DIAGRAM 2.

CONVERSION TO SINGLE PHASE

When the heater is shipped for connection to a three-phase electrical service, it may be connected to a single-phase electrical service of the same voltage by:

1. Disconnect blue wires and yellow wires from terminal L3.
2. Reconnect all blue wires to terminal L1 (with black wires).
3. Reconnect all yellow wires to terminal L2 (with red wires).
4. Connect incoming power to terminals L1 and L2.

CONVERSION TO THREE PHASE

When heater is shipped for connection to a single-phase electrical service, it may be connected to a three-phase electrical service of the same voltage by:

1. Disconnect blue wires from terminal L1.
2. Disconnect yellow wires from terminal L2.
3. Reconnect all blue wires and yellow wires to terminal L3.
4. Connect incoming power to terminals L1, L2, and L3.

WIRING DIAGRAMS

POWER CIRCUIT DIAGRAMS - SURFACE MOUNT CONTROL MODELS

The water heater's electrical components are pictured and identified on page 8. The following describes the heater circuits and includes wiring diagrams. All heater circuits are designed for 60/50 hertz alternating current. The water heater circuit wiring is 12 AWG, AWM, or TEW type, rated 600 volts, 105°C. Fusing consists of two 30 amp fuses for each element. Fusing is an optional feature for Canadian models.

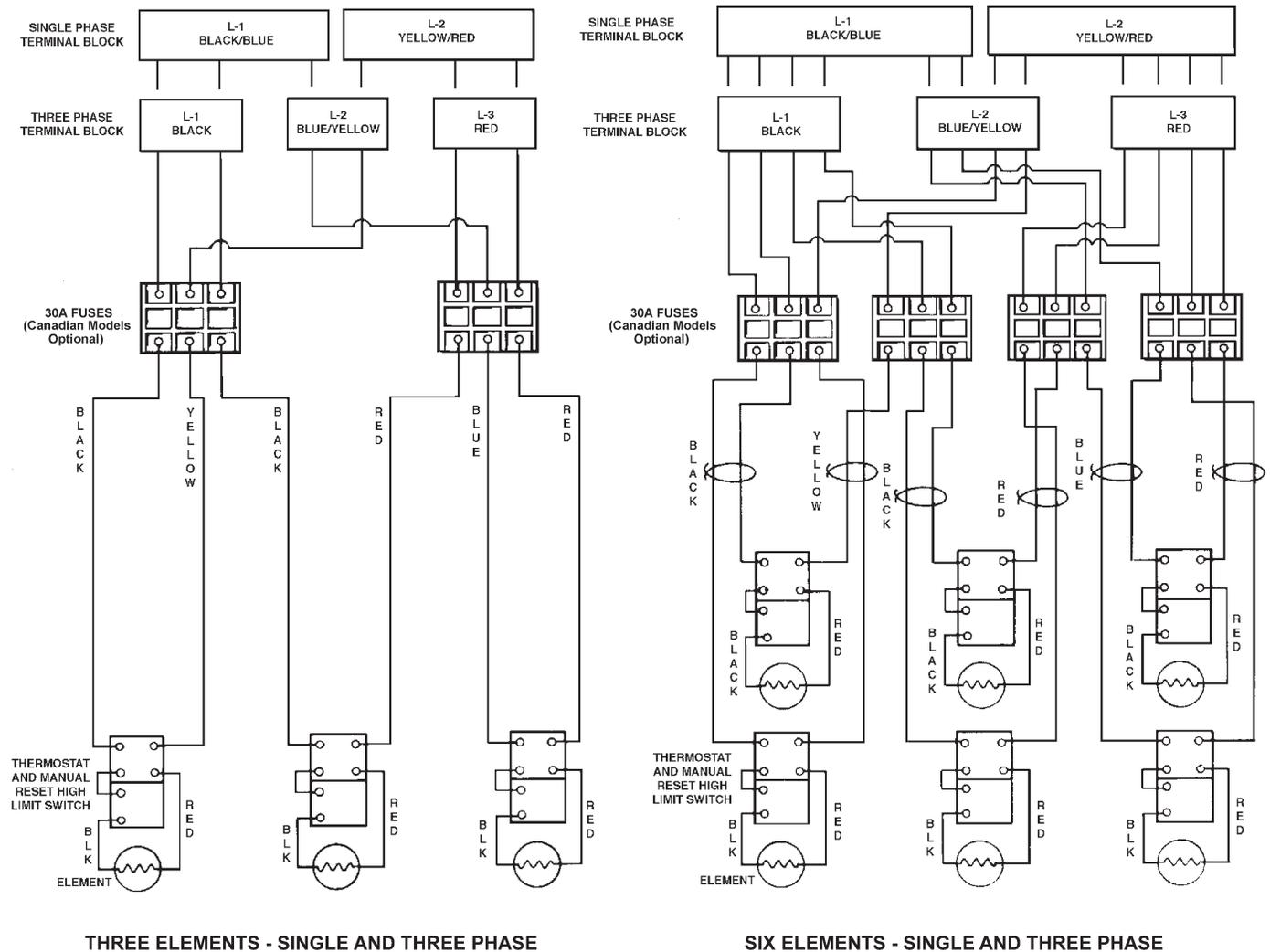
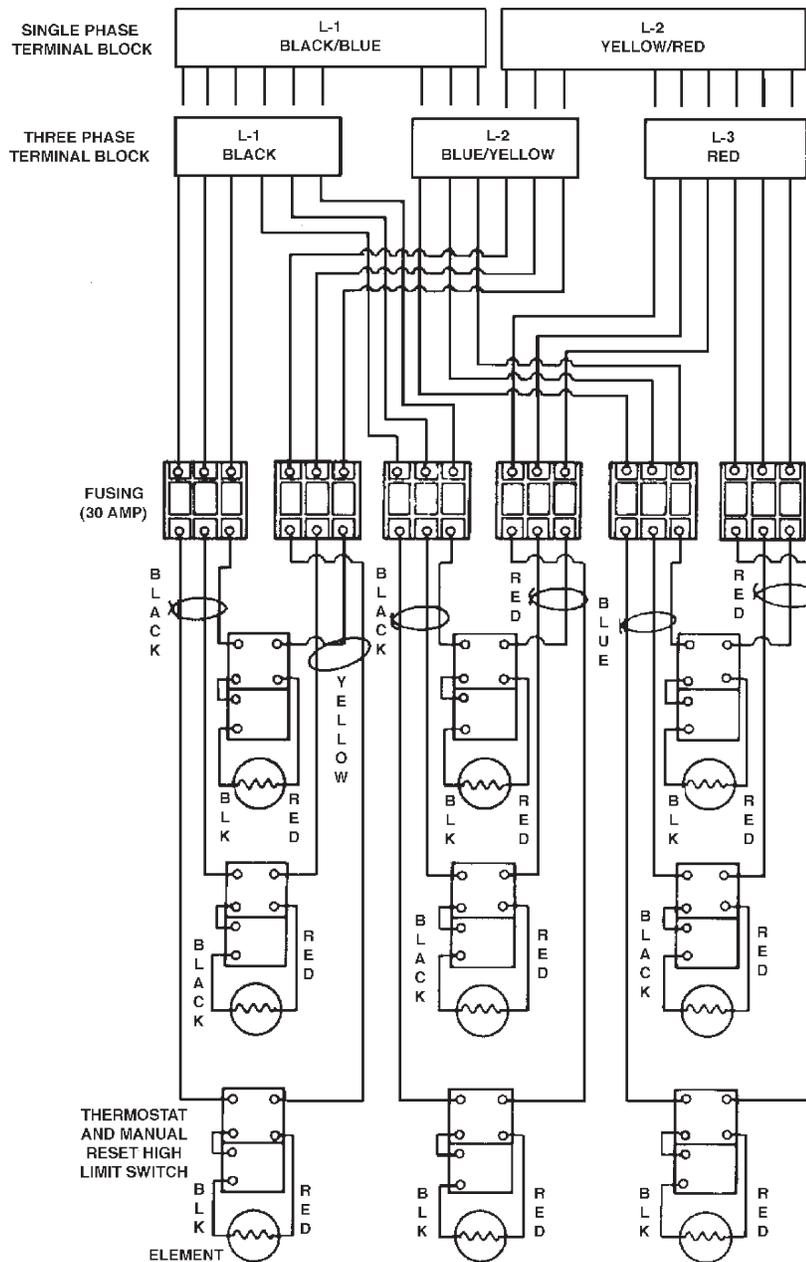


DIAGRAM 3.

WIRING DIAGRAMS



NINE ELEMENTS - SINGLE AND THREE PHASE

DIAGRAM 4.

CONVERSION TO SINGLE PHASE

When the heater is shipped for connection to a three-phase electrical service, it may be connected to a single-phase electrical service of the same voltage by:

1. Disconnect blue wires from terminal L2.
2. Connect all blue wires to terminal L1 (with black wires).
3. Disconnect all red wires from terminal L3.
4. Connect all red wires to terminal L2 (with yellow wires).
5. Connect incoming power to terminals L1 and L2.

CONVERSION TO THREE PHASE

When heater is shipped for connection to a single-phase electrical service, it may be connected to a three-phase electrical service of the same voltage by:

1. Disconnect blue wires from terminal L1
2. Disconnect red wires from terminal L2.
3. Connect all blue wires to terminal L2 (with yellow wires).
4. Connect red wires to terminal L3.
5. Connect incoming power to terminals L1, L2 and L3.