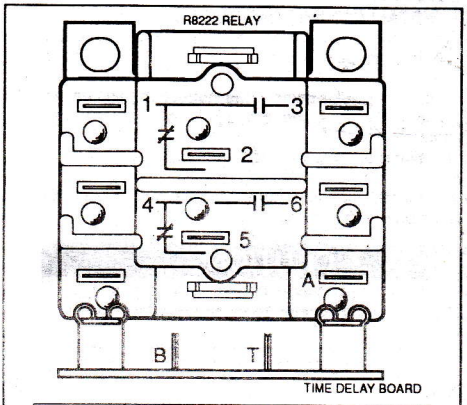
across the A (hot) and B (ground) terminals. The T terminal connects to the fan terminal on the thermostat or other controller. Refer to Figs. 2-4 for terminal designations and wiring connections.

Do not exceed contact and coil ratings when wiring into system.



TERMINAL DESIGNATION	CONNECTION	POSSIBLE TERMINAL DESIGNATION ON OLD RELAY
A	24 Vac LINE (HOT SIDE)	R
B	24 Vac COMMON	C
T	FAN TERMINAL ON THERMOSTAT OR OTHER CONTROLLER	G

M1158A

Fig. 2—ST82 circuit and terminal designations.

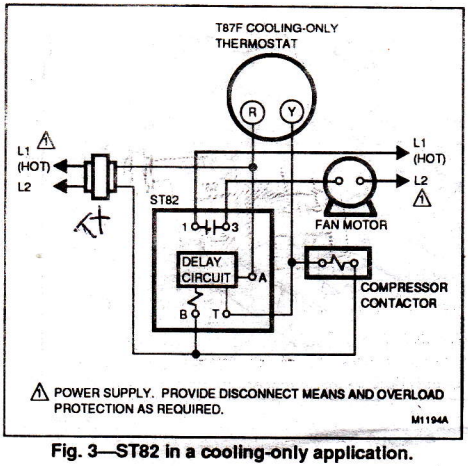


Fig. 3—ST82 in a cooling-only application.

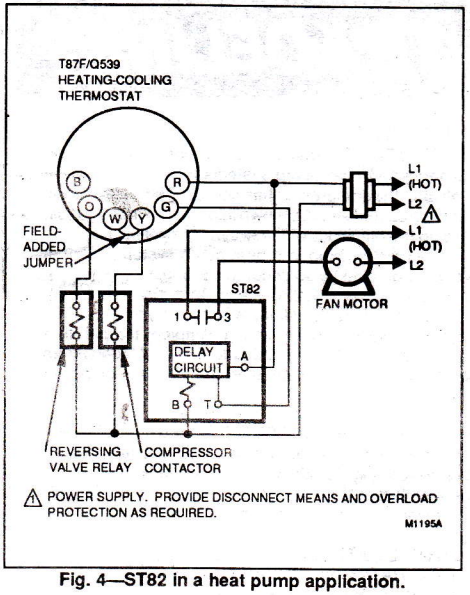


Fig. 4—ST82 in a heat pump application.

OPERATION AND CHECKOUT

OPERATION

When the thermostat calls for indoor blower operation, an electronic switch in the ST82 electronic board pulls in and powers the R8222 relay coil. When the call ends, the electronic switch in the ST82 electronic board holds in the R8222 relay coil for an additional 80 (±10) seconds. This increases the efficiency of the equipment and saves energy.

NOTE: When power is initially applied during installation or after power interruption, the relay will pull in for a maximum of 0.5 seconds and then drop out.

CHECKOUT

When power is initially applied, check to make sure the relay pulls in for not more than 0.5 seconds and drops out. Then operate the relay and controlled equipment to make sure that the relay pulls in when the T terminal is energized with 24 Vac and that controlled equipment operates as intended. When the T terminal is deenergized (24 Vac removed), the indoor air blower should continue to operate until the delay period (80 ±10 seconds) ends.

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