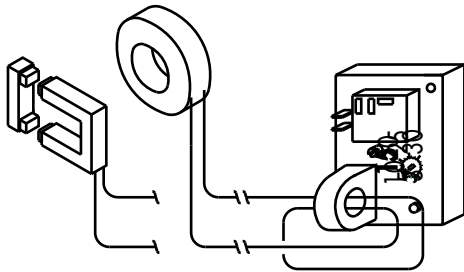


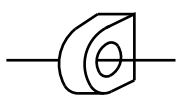
MOTOR OVER / UNDER MOTOR

The relay may be used to monitor the operational load of a motor. One leg of the motor wiring is routed through the window opening. With the "EH" (Energized on High) trip status, when the motor current draw exceeds the trip point, the relay will energize and open the starter motor. The time delay would be set long enough to inhibit tripping during high inrush starting current. Note that an electrical fuse and other overload devices will be required for complete motor protection.



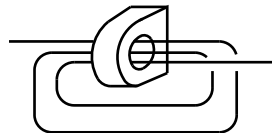
EXTERNAL CURRENT TRANSFORMERS

The relay may be used with an external split or solid-core current transformer. The external transformer can be used to access remote loads or where the current-carrying wire is too large to fit through the window opening in the relay. A standard, 5 amp secondary, commercial grade current transformer (Section F, Pages 94-107) would be attached with the secondary leads threaded twice through the window opening, as illustrated. The trip range option -110 (1.0 to 10 ACA) would then provide full-scale adjustment for the transformer.

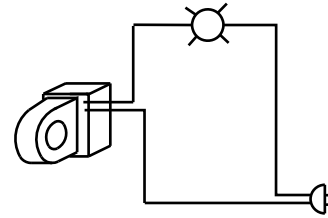


ONE WIRE PASS

The trip ranges shown on Page 63 represent on wire pass through the window opening. The trip range may be changed by threading the current-carrying wire through the window opening several times, as shown above. The "actual" trip range would be the relay name plate range divided by the number of wire passes through the opening. I.E. a name plate range of -660 (6.0 to 60 ACA) with three wire passes would provide an actual range of 2.0 to 20 ACA ($6/3=2.0$ & $60/3=20$).

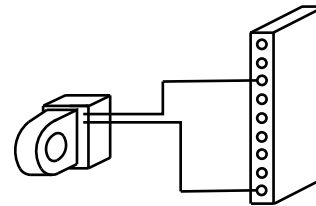


THREE WIRE PASS



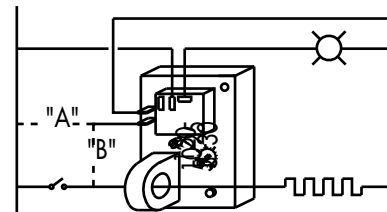
CONNECTION TO INDICATOR LAMP

The current switch may be used directly an indicating lamp. When using the AC output version, either of the two black leads may be attached to the power source. A snubber network is required when connecting to an inductive device such as a electro-mechanical relay.



CONNECTION TO PLC

The current switch may be connected directly to a PLC. Supply power may be provided from the PLC, as shown, or from an external power source. When using a transistor output, the negative or black lead from the switch is attached to the negative side of the supply.



OPEN HEATER / LAMP DETECTOR

The relay may be used to provide an alarm signal to indicate an open heater element. The current-carrying wire is routed through the window opening. With the "EL" (Energized on Low) current status option, when the heater element draws current above the trip point, the relay remains de-energized. If the element becomes open, the current level will be reduced causing the relay to become energized. Supply power is constantly supplied to the relay with the "A" connection and the relay will cycle every time the temperature controller cycles. Using the alternate connection with line "B", power is provided to the relay only when the temperature controller is cycled on. With this connection, the relay will energize only when the element is open.

