



SOL-CV Industrial Units A9-4340

The **SOL-CV** is an all-solid state overload relay, except for the output power relay which has SPDT contacts rated 10 amps @ 125V resistive. When used with a Rapid Power AC Power Supply, its trip point is factory preset to 10% above rated output current of the Power supply.

Power for the **SOL-CV** is applied at pins 5 and 6 of the relay (115VAC). Trip signal from the output current transformer is rectified through an AC to DC converter and is applied at pins 2 (+) and 7 (-), as a DC voltage. The output contacts are at pins 1 (common), 3 (N.O.) and 4 (N.C.). Once power is applied to pins 5 and 6, the relay energizes. An over-current condition causes it to drop out and remain in that condition until the reset button is pushed. A light mounted on the rectifier or the control box will indicate that an overload condition existed which shut the rectifier down.

In some cases, the thermal sensors in the rectifier are connected to shut the rectifier down by tripping the overload relay. If it is connected in this manner, pushing the reset button will not allow the **SOL-CV** to reset until the temperature has cooled down.



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