



SOL-C Industrial Units A9-4300 PC-39

The **SOL-C** 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 rectifier, its trip point is factory preset to 10% above rated output current of the rectifier.

Power for the **SOL-C** is applied at pins 5 and 6 of the relay (115VAC), trip signal from the shunt is at pins 2 (+) and 7 (-), and 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-C** to reset until the temperature has cooled down.



SOL-C Industrial Units A9-4300 PC-39 Continued

SOL-C PLATING UNITS

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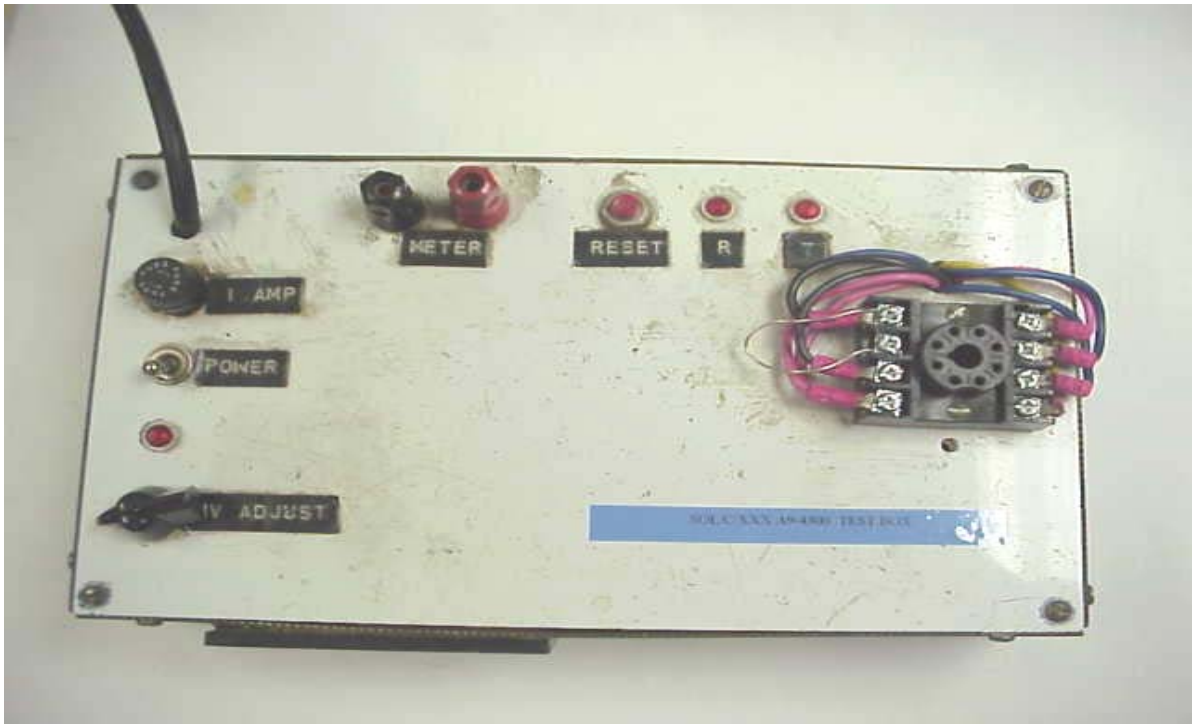
When used with a Rapid Power rectifier, its trip point is factory preset to **10%** above rated output current of the rectifier. Power for the SOL-C is applied at pins 5 and 6 of the relay (115VAC). Trip signal from the shunt is at pins 2 (+) and 7 (-) and the output contacts are at pins 1 (common), 3 (N.O.) and 4 (N.C.). Once power is applied to pins 5 and 6, the relay energizes. An over load condition causes it to drop out and remain in that condition. To reset the over load , the stop button must be pressed first and then the unit may be restarted. If the rectifier shuts down and cannot be reset by use of the stop button ,it is an indication of an over temperature condition in the rectifier and not an overload.



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Test Procedure For SOL-C

1. Connect 120 VAC between terminals 5 and 6.
2. Connect 120 VAC lights, between terminals 1 and 3 (ready light) and terminals 1 and 4 (over load light).
3. Connect MV supply to terminal 2 (+) and terminal 7 (-).
4. Apply 120 VAC ready light should come on.
5. Apply MV and adjust to desired value. When attained ready light should go out and overload light will come on.
6. To reset unit-reduce MV supply below stated trip point and remove 120VAC.
7. Re-energize 120VAC.
8. To adjust set point higher, turn R6 (**accessible through hole in cover**) CW and to lower CCW
9. Repeat steps until desired set point is attained.
10. **Remove power and remove unit under test from fixture.**



Test Fixture 1