Procedure for Checking SINPAC Switches

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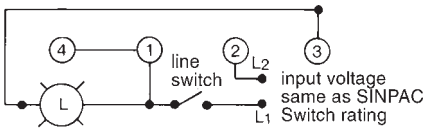
1. Disconnect the SINPAC Switch from the motor and measure the resistance between terminals 2 and 3. If the resistance is less than 500K, the SINPAC Switch has been shorted or damaged, and must be replaced. If the resistance is infinite, the switch may not be damaged.

   CAUTION: Do not use megger to test motor circuit with SINPAC Switch. Proceed to Step 3 if you have a PV switch.

2. If resistance across SINPAC terminal 2 and 3 is greater than 500K and you have a capacitor start, instant reverse, or capacitor start/capacitor run SINPAC Switch, use Diagram 1.

Diagram 1



115 V SINPAC Switch – 115 V incandescent light (L) (at least 25 watts) and 115 Vac power source.

230 V SINPAC Switch – 230 V incandescent light (L) or two 115 V incandescent light (L) (at least 25 watts) in series and 230 Vac power source.

a) Connect one line of AC power to terminal 1 through a line switch.

b) Connect incandescent light (L) between terminals 1 and 3 of SINPAC Switch.

c) Jumper terminals 1 and 4 of SINPAC Switch.

d) Connect other line of AC power to terminal 2 of SINPAC Switch.

Note 1: Apply rated AC voltage to the SINPAC Switch.

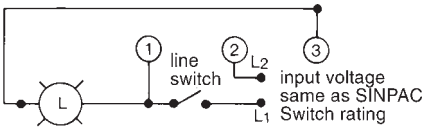
Note 2: The incandescent light (L) will illuminate if the SINPAC Switch is operable.

Note 3: If the incandescent light (L) fails to illuminate, the SINPAC Switch has been damaged and must be replaced.

Note 4: Turn off voltage and disconnect the SINPAC Switch.

3. If resistance across SINPAC terminal 2 and 3 is greater than 500K and you have a split phase SINPAC Switch, use Diagram 2.

Diagram 2



a) Connect one line of AC power to terminal 1 through a line switch.

b) Connect a (25 watt) incandescent light (L) between terminals 1 and 3 of SINPAC Switch.

c) Connect other line of AC power to terminal 2 of SINPAC Switch.

Note 1: Apply rated AC voltage to the SINPAC Switch.

Note 2: If the incandescent light (L) begins to blink after 1/2 second, the SINPAC Switch is operable.

Note 3: If the incandescent light (L) fails to illuminate or stays illuminated, the SINPAC Switch has been damaged and must be replaced. Both test must be performed and passed to indicate a minimally good switch.

Note 4: Turn off power and disconnect the SINPAC Switch.