

Wiring & Installation Instructions for Model # 82397COMBP 120-250V Dual single or Bi Phase PCB board applications

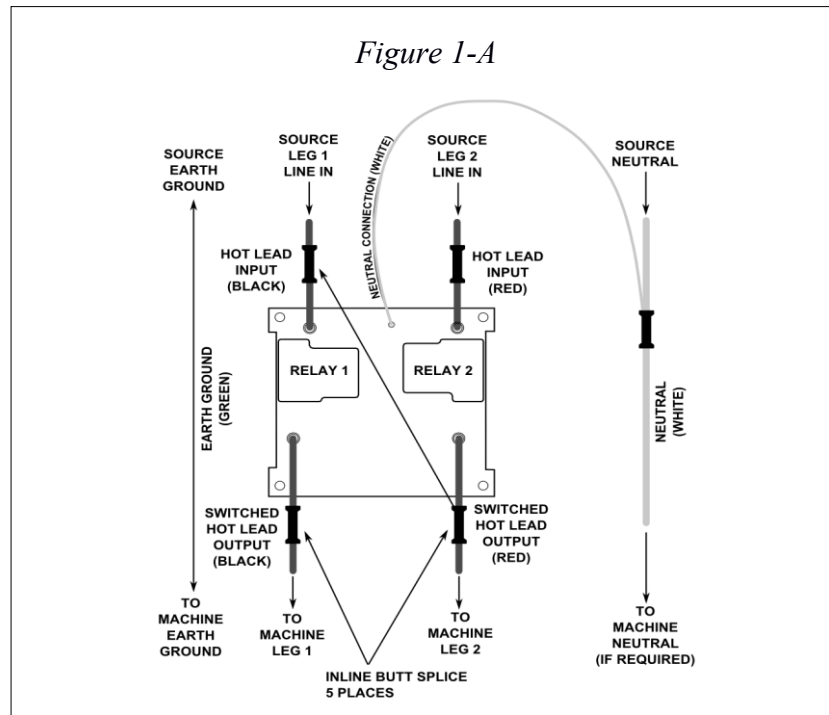
- 1) Be sure all power to your machine is turned off and that no power is present at the machine power supply source.
- 2) Locate where you would like to install your electrical quad box and run your power supply lines into one end of the box with your machines power input lines into the opposite end. If a cord installation is desired, it is recommended that the SafetyGate Commercial Bi Phase unit be located approx 18-24" from the cord's power plug so as to not add additional strain to the cords power plug, however placement within the cord's length is at the users discretion.
- 3) On your SafetyGate Commercial Bi-Phase PCB you will find 5 wires:
A single white "neutral" wire, two black "hot" wires and two red "hot" wires. Select which side of the PCB board you would like to use for each power leg. The SafetyGate Commercial uses the identity of Phase 1 and Phase 2. Connect the neutral line of both your power source AND machine neutral input line to the single white neutral wire of your SafetyGate Commercial Bi-Phase PCB using the larger of the supplied Inline Butt Splice connectors. (see illustration Fig 1-A)
- 4) Connect the power source "Hot" wire of your selected "Phase 1" line to the SafetyGate PCB's black Phase 1 "line input" wire using one of the supplied Inline Butt Splice connectors. (see illustration Fig 1-A)
- 5) Connect your machine's Phase 1 power input "Hot" lead to the SafetyGate PCB's black Phase 1 "Line Out" wire using one of the supplied Inline Butt Splice connectors. (see illustration Fig 1-A)
- 6) Now repeat the process using the Phase 2 lines. Connect the power source "Hot" wire of your selected "Phase 2" line to the SafetyGate PCB's red Phase 2 "line input" wire using one of the supplied Inline Butt Splice connectors.
(see illustration Fig 1-A)
- 7) Connect your machines Phase 2 power input "Hot" lead to the SafetyGate PCB's red Phase 2 "Line Out" wire using one of the supplied Inline Butt Splice connectors. (see illustration Fig 1-A)
- 8) Your grounding wire is a pass through. Although it has no connection to the SafetyGate Commercial PCB, it should be connected from your supply source ground to your machine's ground input wire.
- 9) Using care to avoid unnecessary strain on the wiring place your SafetyGate Commercial Bi-Phase PCB into your electrical box with the LED indicators facing you and the wiring carefully tucked behind the SafetyGate Commercial PCB board. If using the SafetyGate NEMA 4X rated enclosure, fasten the PCB to the enclosure using the supplied screws
- 10) With the machine's power switch in the "off" position, restore power to the machine.
- 11) Verify that the machine turns on and off as in normal operation.
- 12) To test your installation of the SafetyGate Commercial,

Be sure that no person or material which could cause a hazardous condition is in the vicinity of the machine.

- 13) Next, with the machine's power switch set to "off", cut power to the machine by either removing its plug from the wall outlet or turning off the breaker assigned to the machine. Then turn the machine's power switch to the "on" position.
- 14) With the machine's power switch still in the "on" position, restore the power to each leg of the machine to verify proper operation of your SafetyGate Commercial PCB. The SafetyGate Commercial's LEDs will illuminate indicating the presence of power at each phase but signaling that a current load is down line. The SafetyGate Commercial circuitry therefore stops the flow of electricity; preventing a dangerous restart.
- 15) To reset your SafetyGate, simply turn the machine's power switch to the "off" position. You will notice the SafetyGate Commercial's LEDs are now extinguished, letting you know that the machine is now ready to be started normally simply by turning the machine's power switch to the "on" position.
- 16) If using a SafetyGate NEMA 4X rated enclosure, align the transparent cover so that the LED's are visible under the enclosure lid's Phase 1 and Phase 2 labeling.

Special Note;

The SafetyGate Circuitry is designed to prevent power flow upon recognition of any power draw or short circuit. The power draw must be completely eliminated by use of a hard on-off switch. Indicators, clocks or other machine functions which remain on when the power switch is in the off position will be recognized as a power draw by the SafetyGate circuitry, preventing a reset until those functions are turned off.



The patented **SafetyGate™ Commercial** is a Recognized Component under UL 508 and CSA C22.2 No. 14 Industrial Control Equipment and is designed to meet FDA mandated IEC 60601-1 Version 3, OSHA, NFPA and CSA standards in preventing the hazard of dangerous electrical restarts.



Limited One (1) year Warranty:

Your SafetyGate™ Commercial product is warranted for one (1) year from date of purchase for manufacturing defects when installed by an authorized technician.

Simply return your SafetyGate™ product along with original purchase receipt to:

SafetyGate Warranty Replacement
80 Wells Hill Road, Suite 101
Weston, Connecticut 06883 USA

(Warranty is limited to replacement of unit and return shipping only)
For more information on SafetyGate™ products, please visit: www.safestartsystems.com