

1 WIRING DIAGRAM FOR ISOLATION RELAY BOX
 NTS

GENERAL NOTES

- 1 INSTALL POWER BREAKERS TO EACH CIRCUIT LEADING TO THE DISPENSING UNIT AND STP. THEY MUST BE CAPABLE OF SIMULTANEOUSLY DISCONNECTING HOT AND NEUTRAL CONDUCTORS.
 - 2 INSTALL CONDUIT PER NEC FOR HAZARDOUS LOCATIONS.
 - 3 WIRES - ALL WIRES ARE 14AWG (STANDARD) UNLESS OTHERWISE NOTED. PUMP / DISP GROUND - WIRE IS 12 AWG (STANDARD).
- POWER LOADING AND DISTANCE RUN MAY REQUIRE LARGER WIRE SIZE.

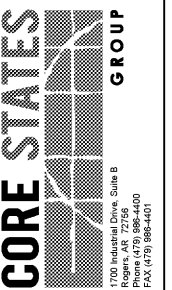
KEY NOTES

- 1 INSTALL A SINGLE EMERGENCY POWER CUTOFF CONTROL TO REMOVE AC POWER FROM SITE DISPENSING EQUIPMENT. (THE CONTROL IS AN ADDITION SAFETY FEATURE AND NOT A SUBSTITUTE FOR NEC/NFPA30 CIRCUIT BREAKER REQUIREMENTS).
- * LABEL THE EMERGENCY POWER CUTOFF SWITCH AND INSTRUCT OWNER TO KEEP AREA CLEAR OF OBSTACLES.
- 2 CONNECT INSULATED GROUNDING CONDUCTOR FROM THE DISPENSER POWER PANEL TO THE SITE GROUNDING ELECTRODE. SIZE PER NEC.
- 3 REFER TO INSTALLATION ADDENDA FOR SPECIFIC PRODUCT FIELD WIRING CONNECTIONS. CAP ALL UNUSED WIRES. LOCAL AND NEC MAY APPLY.
- 4 STP ISOLATION RELAY BOXES ARE MANDATED BY THE NEC (ARTICLE 514.13 - PROVISIONS FOR MAINTENANCE AND SERVICE OF DISPENSING EQUIPMENT) AND ARE REQUIRED TO:
 - A. ALLOW SERVICE OF ONE UNIT SAFELY WITHOUT REMOVING POWER FROM ALL DISPENSING EQUIPMENT.
 - B. PREVENT DAMAGE TO EQUIPMENT FROM CROSS-PHASING.
- DAMAGE CAUSED BY CROSS-PHASING IS NOT COVERED BY WARRANTY.
- GILBARCO STP ISOLATION BOX PA0287 IS NOT AVAILABLE FOR 220/230/240VAC UNITS. (THIS IS A 7-ELEVEN SUPPLIED ITEM.)
- 5 FOR STPs GREATER THAN 1-1/2HP (SINGLE OR THREE PHASE) CONNECT TO MOTOR CONTACTOR COIL OF SEPARATE STP RELAY BOX.
- 6 L1 FEEDS STP BOX CONTACTOR COIL. THEREFORE L1 & EMC MUST BE ON THE SAME PHASE OR DAMAGE TO EMC WILL RESULT. WHEN EMC IS NOT USED, JUMPER STP BOX TERMINALS P0 AND P1 TOGETHER TO COMPLETE THIS CIRCUIT.
- 7 V.F.C. or STP C.B.S.

Rev. #	Date	Description

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 ISOLATION RELAY BOX DETAIL



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