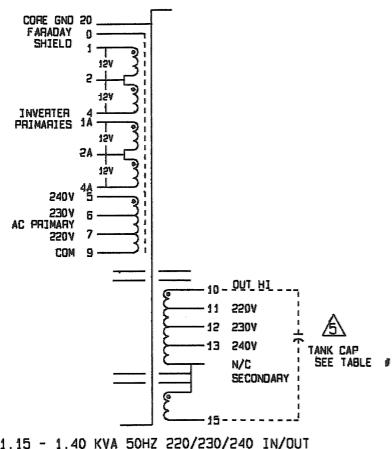
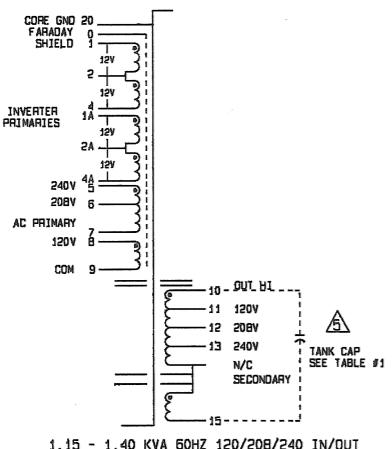


| Dwg No.   |                          | Sh       | Rev | B     | 1    |
|-----------|--------------------------|----------|-----|-------|------|
| REVISIONS |                          |          |     |       |      |
| REV       | DESCRIPTION              | DATE     | BY  | CHKR  | ENGR |
| A         | RELEASE TO PRODUCTION    | 02/27/95 | BJB |       |      |
| B         | CORRECTIONS PER ECN 3643 | 06/12/95 | TW  | USICK |      |

## TRANSFORMER DRAWING #1



## TRANSFORMER DRAWING #2



## TRANSFORMER DRAWING #3

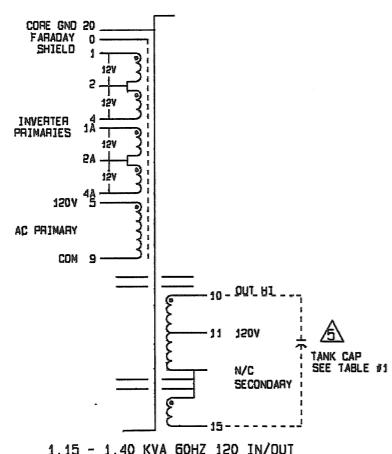


TABLE #1

| UNIT SIZE | 220/230/240<br>50Hz | 120/208/240<br>60Hz | 120<br>60Hz |
|-----------|---------------------|---------------------|-------------|
| 1.15 KVA  | 30 UF               | 25 UF               | 25 UF       |
| 1.40 KVA  | 40 UF               | 30 UF               | 35 UF       |

## NOTES:

WIRE COLORS WILL VARY FOR INPUT AND OUTPUT WIRING.  
50 Hz USES BLK AND RED FOR HOTS, WHIT FOR NEUTRAL, AND GRN/YEL FOR GND.  
50 Hz USES BRN FOR HOTS, BLU FOR NEUTRAL, AND GRN/YEL FOR GND.

BECAUSE OF THE NUMEROUS RECEPTICAL OUTPUT WIRING OPTIONS OF THIS UNIT THEY WILL NOT BE SHOWN ON THIS SYSTEM SCHEMATIC. SEE THE TECHNICAL REFERENCE MANUAL.

NUMBERS IN BOXES REPRESENT TRANSFORMER LEAD NUMBERS WHICH DO NOT CHANGE.  
SOME TRANSFORMERS DO NOT USE ALL LEADS.

ONLY ONE (1) OF THESE OPTIONS ARE USED.

▲ IF A TANK CAPACITOR SHOULD NEED REPLACING OBSERVE THE CAPACITOR CASE TO SEE IF THERE IS A COLORED TOLERANCE DOT INDICATOR. REPLACE THE CAPACITOR WITH ONE OF THE SAME VALUE AND COLORED TOLERANCE DOT INDICATOR. IF TANK CAPACITORS ARE AVAILABLE BUT WITHOUT THE TOLERANCE DOT, MEASURE THE TANK CAPACITORS THAT ARE AVAILABLE AND INSTALL THE TANK CAPACITOR THAT BEST MATCHES THE ONE REMOVED. IF THE TANK CAPACITOR REMOVED HAS A RED DOT ADD .0% TO THE VALUE OF THE CAPACITOR AND THIS WILL BE THE NEW VALUE OF THE ONE THAT REPLACES IT. IF IT HAS A YELLOW DOT ADD .3%, A WHITE DOT SUBTRACT .3% AND IF IT HAS A BLACK DOT SUBTRACT .6%. THE MAIN GOAL TRYING TO BE ACHIEVED IS TO COME AS CLOSE TO THE REQUIRED CAPACITANCE FOR THE FERRRO TRANSFORMER AS POSSIBLE.

60HZ, 120V INPUT 120V OUTPUT

|     |  |
|-----|--|
| E1  | WHITE JUMPER WIRE FROM AUXILIARY BOARD E1        |
| E4  | BROWN JUMPER WIRE TO E20                         |
| E5  | BLACK WIRE FROM THE CAPACITOR                    |
| E6  | TRANSFORMER WIRE #10                             |
| E7  | N.C.   |
| E8  | N.C.   |
| E9  | TRANSFORMER WIRE #11                             |
| E10 | BLUE WIRE TO OUTPUT TERMINAL BLOCK (N)           |
| E11 | WHITE JUMPER WIRE FROM AUXILIARY BOARD E13       |
| E12 | TRANSFORMER WIRE #9                              |
| E13 | WHITE JUMPER WIRE FROM AUXILIARY BOARD E9        |
| E14 | N.C.   |
| E15 | RED WIRE TO FUSE HOLDER STUD                     |
| E16 | TRANSFORMER WIRE #4A                             |
| E17 | NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD |
| E18 | TRANSFORMER WIRE #1A                             |
| E19 | BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)          |
| E20 | N.C.   |

60HZ, 208V INPUT 208V OUTPUT

|     |  |
|-----|--|
| E1  | WHITE JUMPER WIRE FROM AUXILIARY BOARD E1        |
| E4  | BLACK WIRE FROM THE OUTPUT TERMINAL BLOCK (L)    |
| E5  | BLACK WIRE FROM THE CAPACITOR                    |
| E6  | TRANSFORMER WIRE #10                             |
| E7  | N.C.   |
| E8  | N.C.   |
| E9  | TRANSFORMER WIRE #11                             |
| E10 | BLUE/BLACK WIRE TO RECEPTACLE TERMINAL BLOCK (N) |
| E11 | WHITE JUMPER WIRE FROM AUXILIARY BOARD E13       |
| E12 | TRANSFORMER WIRE #9                              |
| E13 | WHITE JUMPER WIRE FROM AUXILIARY BOARD E9        |
| E14 | N.C.   |
| E15 | RED WIRE TO FUSE HOLDER STUD                     |
| E16 | TRANSFORMER WIRE #4A                             |
| E17 | NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD |
| E18 | TRANSFORMER WIRE #1A                             |
| E19 | BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)          |
| E20 | N.C.   |

60HZ, 208IN 120/240V OUTPUT

|     |  |
|-----|--|
| E1  | WHITE JUMPER WIRE FROM AUXILIARY BOARD E1        |
| E4  | BLACK WIRE FROM THE OUTPUT TERMINAL BLOCK (L)    |
| E5  | BLACK WIRE FROM THE CAPACITOR                    |
| E6  | TRANSFORMER WIRE #10                             |
| E7  | N.C.   |
| E8  | N.C.   |
| E9  | TRANSFORMER WIRE #11                             |
| E10 | WHITE/BLACK WIRE TO OUTPUT TERMINAL BLOCK (N)    |
| E11 | WHITE JUMPER WIRE FROM AUXILIARY BOARD E13       |
| E12 | TRANSFORMER WIRE #9                              |
| E13 | WHITE JUMPER WIRE FROM AUXILIARY BOARD E9        |
| E14 | N.C.   |
| E15 | RED WIRE TO FUSE HOLDER STUD                     |
| E16 | TRANSFORMER WIRE #4A                             |
| E17 | NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD |
| E18 | TRANSFORMER WIRE #1A                             |
| E19 | TRANSFORMER WIRE #13                             |
| E20 | RED WIRE TO OUTPUT TERMINAL BLOCK (L2)           |

60HZ, 208V IN 120/208 OUTPUT

|     |  |
|-----|--|
| E1  | WHITE JUMPER WIRE FROM AUXILIARY BOARD E1        |
| E4  | BLACK WIRE FROM THE OUTPUT TERMINAL BLOCK (N)    |
| E5  | BLACK WIRE FROM THE CAPACITOR                    |
| E6  | TRANSFORMER WIRE #10                             |
| E7  | N.C.   |
| E8  | N.C.   |
| E9  | TRANSFORMER WIRE #11                             |
| E10 | WHITE/BLACK WIRE TO OUTPUT TERMINAL BLOCK (N)    |
| E11 | WHITE JUMPER WIRE FROM AUXILIARY BOARD E13       |
| E12 | TRANSFORMER WIRE #9                              |
| E13 | WHITE JUMPER WIRE FROM AUXILIARY BOARD E9        |
| E14 | N.C.   |
| E15 | RED WIRE TO FUSE HOLDER STUD                     |
| E16 | TRANSFORMER WIRE #4A                             |
| E17 | NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD |
| E18 | TRANSFORMER WIRE #1A                             |
| E19 | BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)          |
| E20 | N.C.   |

## HOW TO USE THESE VOLTAGE CHARTS

1). SELECT THE PROPER INPUT AND OUTPUT VOLTAGE COMBINATION.

2). THE TOP CHART BELOW THE SELECTION IS THE CONNECTIONS TO BE MADE ON THE MAIN POWER BOARD.

3). THE BOTTOM CHART BELOW THE SELECTION IS THE CONNECTIONS TO BE MADE ON THE AUXILIARY POWER BOARD.

60HZ, 240V IN 120/240 OUTPUT

|     |   |
|-----|---|
| E1  | WHITE JUMPER WIRE FROM AUXILIARY BOARD E1         |
| E4  | BROWN JUMPER WIRE TO E20                          |
| E5  | BLACK WIRE FROM THE CAPACITOR                     |
| E6  | TRANSFORMER WIRE #10                              |
| E7  | N.C.  |
| E8  | N.C.  |
| E9  | TRANSFORMER WIRE #11                              |
| E10 | WHITE/BLACK WIRE TO RECEPTACLE TERMINAL BLOCK (N) |
| E11 | WHITE JUMPER WIRE FROM AUXILIARY BOARD E13        |
| E12 | TRANSFORMER WIRE #9                               |
| E13 | WHITE JUMPER WIRE FROM AUXILIARY BOARD E9         |
| E14 | N.C.  |
| E15 | RED WIRE TO FUSE HOLDER STUD                      |
| E16 | TRANSFORMER WIRE #4A                              |
| E17 | NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD  |
| E18 | TRANSFORMER WIRE #1A                              |
| E19 | BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)           |
| E20 | N.C.  |

60HZ, 240V INPUT 240V OUTPUT

|     |  |
|-----|--|
| E1  | WHITE JUMPER WIRE FROM AUXILIARY BOARD E1        |
| E4  | BROWN JUMPER WIRE TO E20                         |
| E5  | BLACK WIRE FROM THE CAPACITOR                    |
| E6  | TRANSFORMER WIRE #10                             |
| E7  | N.C.   |
| E8  | N.C.   |
| E9  | TRANSFORMER WIRE #11                             |
| E10 | BLUE WIRE TO RECEPTACLE TERMINAL BLOCK (N)       |
| E11 | WHITE JUMPER WIRE FROM AUXILIARY BOARD E13       |
| E12 | TRANSFORMER WIRE #9                              |
| E13 | WHITE JUMPER WIRE FROM AUXILIARY BOARD E9        |
| E14 | N.C.   |
| E15 | RED WIRE TO FUSE HOLDER STUD                     |
| E16 | TRANSFORMER WIRE #4A                             |
| E17 | NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD |
| E18 | TRANSFORMER WIRE #1A                             |
| E19 | BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)          |
| E20 | N.C.   |

50HZ, 220V INPUT 220V OUTPUT

|     |  |
|-----|--|
| E1  | WHITE JUMPER WIRE FROM AUXILIARY BOARD E1        |
| E4  | BROWN JUMPER WIRE TO E20                         |
| E5  | BLACK WIRE FROM THE CAPACITOR                    |
| E6  | TRANSFORMER WIRE #10                             |
| E7  | N.C.   |
| E8  | N.C.   |
| E9  | TRANSFORMER WIRE #12                             |
| E10 | BLUE WIRE TO OUTPUT TERMINAL BLOCK (N)           |
| E11 | WHITE JUMPER WIRE FROM AUXILIARY BOARD E13       |
| E12 | TRANSFORMER WIRE #9                              |
| E13 | WHITE JUMPER WIRE FROM AUXILIARY BOARD E9        |
| E14 | N.C.   |
| E15 | RED WIRE TO FUSE HOLDER STUD                     |
| E16 | TRANSFORMER WIRE #4A                             |
| E17 | NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD |
| E18 | TRANSFORMER WIRE #1A                             |
| E19 | BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)          |
| E20 | BROWN JUMPER WIRE TO E4                          |

50HZ, 230V INPUT 230V OUTPUT

|  |  |
| --- | --- |
| E1 | WHITE JUMPER WIRE FROM AUXILIARY BOARD E1 |


<tbl\_r cells="2" ix="2" maxcspan="1" maxrspan="1" usedcols="

