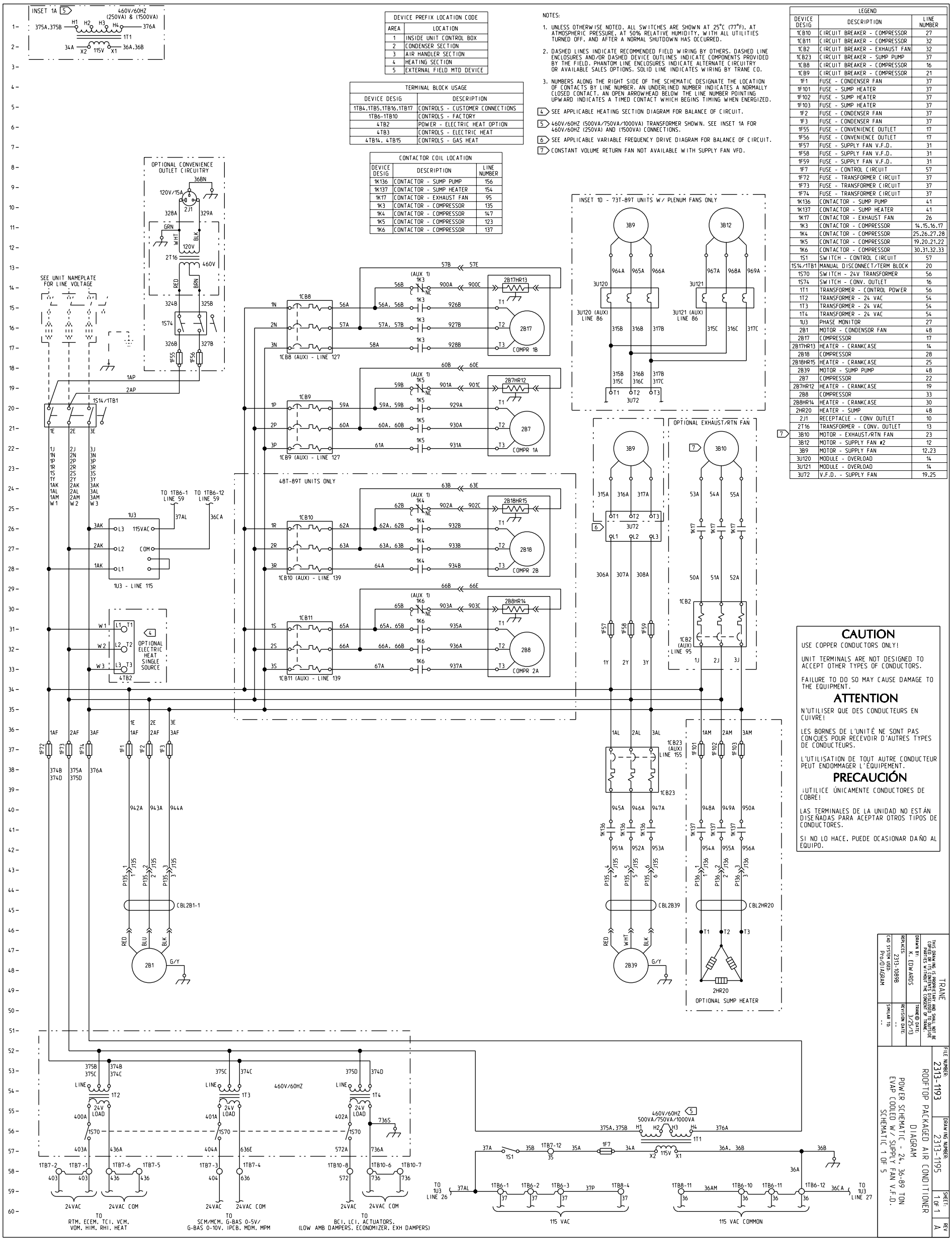


| DEVICE PREFIX LOCATION CODE | |
|---|---|
| AREA | LOCATION |
| 1 | INSIDE UNIT CONTROL BOX |
| 2 | CONDENSER SECTION |
| 3 | AIR HANDLER SECTION |
| 4 | HEATING SECTION |
| 5 | EXTERNAL FIELD MTD DEVICE |

| TERMINAL BLOCK USAGE | |
|---|---|
| DEVICE DESIG | DESCRIPTION |
| 1TB4,1TB5,1TB16,1TB17 | CONTROLS - CUSTOMER CONNECTIONS |
| 1TB6-1TB10 | CONTROLS - FACTORY |
| 4TB2 | POWER - ELECTRIC HEAT OPTION |
| 4TB3 | CONTROLS - ELECTRIC HEAT |
| 4TB14, 4TB15 | CONTROLS - GAS HEAT |

| CONTACTOR COIL LOCATION | | |
|---|---|---|
| DEVICE DESIG | DESCRIPTION | LINE NUMBER |
| 1K136 | CONTACTOR - SUMP PUMP | 156 |
| 1K137 | CONTACTOR - SUMP HEATER | 154 |
| 1K17 | CONTACTOR - EXHAUST FAN | 95 |
| 1K3 | CONTACTOR - COMPRESSOR | 135 |
| 1K4 | CONTACTOR - COMPRESSOR | 147 |
| 1K5 | CONTACTOR - COMPRESSOR | 123 |
| 1K6 | CONTACTOR - COMPRESSOR | 137 |

NOTES:

1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25°C (77°F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY, WITH ALL UTILITIES TURNED OFF, AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS. SOLID LINE INDICATES WIRING BY TRANE CO.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT. AN OPEN ARROWHEAD BELOW THE LINE NUMBER POINTING UPWARD INDICATES A TIMED CONTACT WHICH BEGINS TIMING WHEN ENERGIZED.

4 SEE APPLICABLE HEATING SECTION DIAGRAM FOR BALANCE OF CIRCUIT.

5 460V/60HZ (500VA/750VA/1000VA) TRANSFORMER SHOWN. SEE INSET 1A FOR 460V/60HZ (250VA) AND (1500VA) CONNECTIONS.

6 SEE APPLICABLE VARIABLE FREQUENCY DRIVE DIAGRAM FOR BALANCE OF CIRCUIT.

7 CONSTANT VOLUME RETURN FAN NOT AVAILABLE WITH SUPPLY FAN VFD.

| LEGEND | | |
|---|---|---|
| DEVICE DESIG | DESCRIPTION | LINE NUMBER |
| 1CB10 | CIRCUIT BREAKER - COMPRESSOR | 27 |
| 1CB11 | CIRCUIT BREAKER - COMPRESSOR | 32 |
| 1CB2 | CIRCUIT BREAKER - EXHAUST FAN | 32 |
| 1CB23 | CIRCUIT BREAKER - SUMP PUMP | 37 |
| 1CB8 | CIRCUIT BREAKER - COMPRESSOR | 16 |
| 1CB9 | CIRCUIT BREAKER - COMPRESSOR | 21 |
| 1F1 | FUSE - CONDENSER FAN | 37 |
| 1F101 | FUSE - SUMP HEATER | 37 |
| 1F102 | FUSE - SUMP HEATER | 37 |
| 1F103 | FUSE - SUMP HEATER | 37 |
| 1F2 | FUSE - CONDENSER FAN | 37 |
| 1F3 | FUSE - CONDENSER FAN | 37 |
| 1F55 | FUSE - CONVENIENCE OUTLET | 17 |
| 1F56 | FUSE - CONVENIENCE OUTLET | 17 |
| 1F57 | FUSE - SUPPLY FAN V.F.D. | 31 |
| 1F58 | FUSE - SUPPLY FAN V.F.D. | 31 |
| 1F59 | FUSE - SUPPLY FAN V.F.D. | 31 |
| 1F7 | FUSE - CONTROL CIRCUIT | 57 |
| 1F72 | FUSE - TRANSFORMER CIRCUIT | 37 |
| 1F73 | FUSE - TRANSFORMER CIRCUIT | 37 |
| 1F74 | FUSE - TRANSFORMER CIRCUIT | 37 |
| 1K136 | CONTACTOR - SUMP PUMP | 41 |
| 1K137 | CONTACTOR - SUMP HEATER | 41 |
| 1K17 | CONTACTOR - EXHAUST FAN | 26 |
| 1K3 | CONTACTOR - COMPRESSOR | 14.15.16.17 |
| 1K4 | CONTACTOR - COMPRESSOR | 25.26.27.28 |
| 1K5 | CONTACTOR - COMPRESSOR | 19.20.21.22 |
| 1K6 | CONTACTOR - COMPRESSOR | 30.31.32.33 |
| 1S1 | SWITCH - CONTROL CIRCUIT | 57 |
| 1S14/1TB1 | MANUAL DISCONNECT/TERM BLOCK | 20 |
| 1S70 | SWITCH - 24V TRANSFORMER | 56 |
| 1S74 | SWITCH - CONV. OUTLET | 16 |
| 1T1 | TRANSFORMER - CONTROL POWER | 56 |
| 1T2 | TRANSFORMER - 24 VAC | 54 |
| 1T3 | TRANSFORMER - 24 VAC | 54 |
| 1T4 | TRANSFORMER - 24 VAC | 54 |
| 1U3 | PHASE MONITOR | 27 |
| 2B1 | MOTOR - CONDENSOR FAN | 48 |
| 2B17 | COMPRESSOR | 17 |
| 2B17HR13 | HEATER - CRANKCASE | 14 |
| 2B18 | COMPRESSOR | 28 |
| 2B18HR15 | HEATER - CRANKCASE | 25 |
| 2B39 | MOTOR - SUMP PUMP | 48 |
| 2B7 | COMPRESSOR | 22 |
| 2B7HR12 | HEATER - CRANKCASE | 19 |
| 2B8 | COMPRESSOR | 33 |
| 2B8HR14 | HEATER - CRANKCASE | 30 |
| 2HR20 | HEATER - SUMP | 48 |
| 2J1 | RECEPTACLE - CONV OUTLET | 10 |
| 2T16 | TRANSFORMER - CONV. OUTLET | 13 |
| 7 3B10 | MOTOR - EXHAUST/RTN FAN | 23 |
| 3B12 | MOTOR - SUPPLY FAN #2 | 12 |
| 3B9 | MOTOR - SUPPLY FAN | 12.23 |
| 3U120 | MODULE - OVERLOAD | 14 |
| 3U121 | MODULE - OVERLOAD | 14 |
| 3U72 | V.F.D. - SUPPLY FAN | 19.25 |

## CAUTION

USE COPPER CONDUCTORS ONLY!

UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

## ATTENTION

N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!

LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.

L'UTILISATION DE TOUT AUTRE CONDUCTEUR PEUT ENDOMMAGER L'ÉQUIPEMENT.

## PRECAUCIÓN

¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!

LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.

SI NO LO HACE, PUEDE OCASIONAR DAÑO AL EQUIPO.

TRANE

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DRAWN BY: K. EDWARDS
TRANE® DATE: 3/25/13
REPLACES: 2313-1089B
REVISION DATE: --
CAD SYSTEM USED: Pro/DIAGRAM
SIMILAR TO: --

FILE NUMBER: 2313-1193
DRAWING NUMBER: 2313-1195
SHEET: 1 OF 1
REV: A

ROOFTOP PACKAGED AIR CONDITIONER DIAGRAM

POWER SCHEMATIC - 24, 36-89 TON
EVAP COOLED W/ SUPPLY FAN V.F.D.
SCHEMATIC 1 OF 5