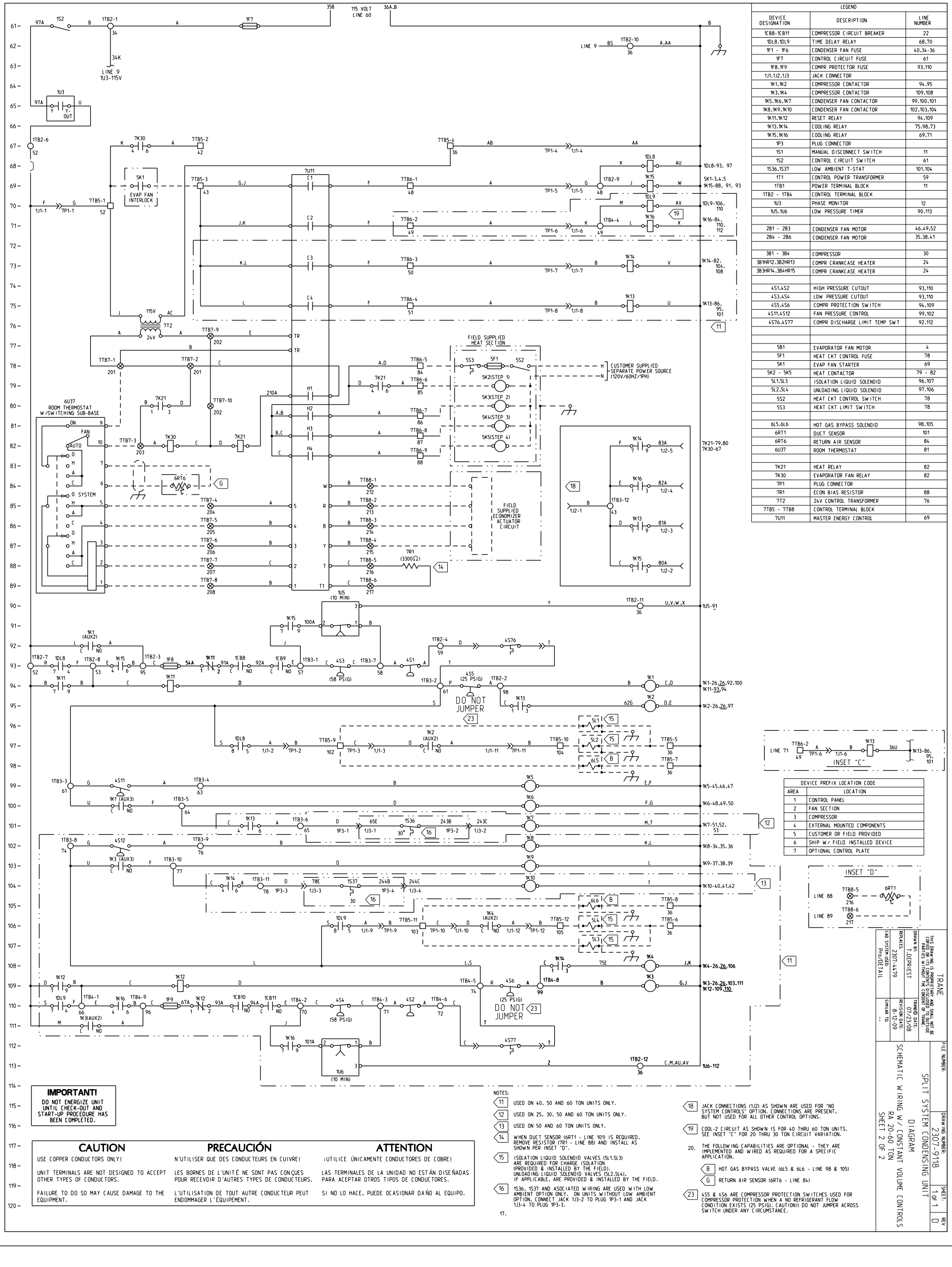

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1CB8-1CB11	COMPRESSOR CIRCUIT BREAKER	22
1DL8,1DL9	TIME DELAY RELAY	68,70
1F1 - 1F6	CONDENSER FAN FUSE	40,34-36
1F7	CONTROL CIRCUIT FUSE	61
1F8,1F9	COMPR PROTECTOR FUSE	93,110
1J1,1J2,1J3	JACK CONNECTOR	
1K1,1K2	COMPRESSOR CONTACTOR	94,95
1K3,1K4	COMPRESSOR CONTACTOR	109,108
1K5,1K6,1K7	CONDENSER FAN CONTACTOR	99,100,101
1K8,1K9,1K10	CONDENSER FAN CONTACTOR	102,103,104
1K11,1K12	RESET RELAY	94,109
1K13,1K14	COOLING RELAY	75,98,73
1K15,1K16	COOLING RELAY	69,71
1P3	PLUG CONNECTOR	
1S1	MANUAL DISCONNECT SWITCH	11
1S2	CONTROL CIRCUIT SWITCH	61
1S36,1S37	LOW AMBIENT T-STAT	101,104
1T1	CONTROL POWER TRANSFORMER	59
1TB1	POWER TERMINAL BLOCK	11
1TB2 - 1TB4	CONTROL TERMINAL BLOCK	
1U3	PHASE MONITOR	12
1U5,1U6	LOW PRESSURE TIMER	90,113
2B1 - 2B3	CONDENSER FAN MOTOR	46,49,52
2B4 - 2B6	CONDENSER FAN MOTOR	35,38,41
3B1 - 3B4	COMPRESSOR	30
3B1HR12,3B2HR13	COMPR CRANKCASE HEATER	24
3B3HR14,3B4HR15	COMPR CRANKCASE HEATER	24
4S1,4S2	HIGH PRESSURE CUTOUT	93,110
4S3,4S4	LOW PRESSURE CUTOUT	93,110
4S5,4S6	COMPR PROTECTION SWITCH	94,109
4S11,4S12	FAN PRESSURE CONTROL	99,102
4S76,4S77	COMPR DISCHARGE LIMIT TEMP SWT	92,112
5B1	EVAPORATOR FAN MOTOR	4
5F1	HEAT CKT CONTROL FUSE	78
5K1	EVAP FAN STARTER	69
5K2 - 5K5	HEAT CONTACTOR	79 - 82
5L1,5L3	ISOLATION LIQUID SOLENOID	96,107
5L2,5L4	UNLOADING LIQUID SOLENOID	97,106
5S2	HEAT CKT CONTROL SWITCH	78
5S3	HEAT CKT LIMIT SWITCH	78
6L5,6L6	HOT GAS BYPASS SOLENOID	98,105
6RT1	DUCT SENSOR	101
6RT6	RETURN AIR SENSOR	84
6U37	ROOM THERMOSTAT	81
7K21	HEAT RELAY	82
7K30	EVAPORATOR FAN RELAY	82
7P1	PLUG CONNECTOR	
7R1	ECON BIAS RESISTOR	88
7T2	24V CONTROL TRANSFORMER	76
7TB5 - 7TB8	CONTROL TERMINAL BLOCK	
7U11	MASTER ENERGY CONTROL	69

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	CONTROL PANEL
2	FAN SECTION
3	COMPRESSOR
4	EXTERNAL MOUNTED COMPONENTS
5	CUSTOMER OR FIELD PROVIDED
6	SHIP W/ FIELD INSTALLED DEVICE
7	OPTIONAL CONTROL PLATE

IMPORTANT!
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.

CAUTION	PRECAUCIÓN	ATTENTION
USE COPPER CONDUCTORS ONLY!	N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!	¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.	LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.	LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.	L'UTILISATION DE TOUT AUTRE CONDUCTEUR PEUT ENDOMMAGER L'ÉQUIPEMENT.	SI NO LO HACE, PUEDE OCASIONAR DAÑO AL EQUIPO.

NOTES:

11. USED ON 40, 50 AND 60 TON UNITS ONLY.
12. USED ON 25, 30, 50 AND 60 TON UNITS ONLY.
13. USED ON 50 AND 60 TON UNITS ONLY.
14. WHEN DUCT SENSOR (6RT1 - LINE 101) IS REQUIRED. REMOVE RESISTOR (7R1 - LINE 88) AND INSTALL AS SHOWN PER INSET "D".
15. ISOLATION LIQUID SOLENOID VALVES (5L1,5L3) ARE REQUIRED FOR CHARGE ISOLATION (PROVIDED & INSTALLED BY THE FIELD). UNLOADING LIQUID SOLENOID VALVES (5L2,5L4), IF APPLICABLE, ARE PROVIDED & INSTALLED BY THE FIELD.
16. 1S36, 1S37 AND ASOCIATED WIRING ARE USED WITH LOW AMBIENT OPTION ONLY. ON UNITS WITHOUT LOW AMBIENT OPTION, CONNECT JACK 1J3-2 TO PLUG 1P3-1 AND JACK 1J3-4 TO PLUG 1P3-3.
17.
18. JACK CONNECTIONS (1J2) AS SHOWN ARE USED FOR "NO SYSTEM CONTROLS" OPTION. CONNECTIONS ARE PRESENT, BUT NOT USED FOR ALL OTHER CONTROL OPTIONS.
19. COOL-2 CIRCUIT AS SHOWN IS FOR 40 THRU 60 TON UNITS. SEE INSET "C" FOR 20 THRU 30 TON CIRCUIT VARIATION.
20. THE FOLLOWING CAPABILITIES ARE OPTIONAL - THEY ARE IMPLEMENTED AND WIRED AS REQUIRED FOR A SPECIFIC APPLICATION.
    - B — HOT GAS BYPASS VALVE (6L5 & 6L6 - LINE 98 & 105)
    - G — RETURN AIR SENSOR (6RT6 - LINE 84)
23. 4S5 & 4S6 ARE COMPRESSOR PROTECTION SWITCHES USED FOR COMPRESSOR PROTECTION WHEN A NO REFRIGERANT FLOW CONDITION EXISTS (25 PSIG). CAUTION!! DO NOT JUMPER ACROSS SWITCH UNDER ANY CIRCUMSTANCE.

DRAWN BY: T.DEPRIEST
TRANE® DATE: 07/23/08
REVISION DATE: 8-12-09
REPLACES: 2307-4479
CAD SYSTEM USED: Pro/DETAIL
SIMILAR TO: --

TRANE

SCHEMATIC WIRING W/ CONSTANT VOLUME CONTROLS
RA 20-60 TON
SHEET 2 OF 2

DIAGRAM

SPLIT SYSTEM CONDENSING UNIT

FILE NUMBER:
DRAWING NUMBER: 2307-9118
SHEET: 1 OF 1
REV: D