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

ABBREVIATIONS	
TB	TERMINAL BLOCK
VFD	VARIABLE FREQUENCY DRIVE

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1S72	SWITCH - VFD BYPASS	12
1U77	KEYPAD - V.F.D.	18
3U120	MODULE - MOTOR OVERLOAD	15.18
3U121	MODULE - MOTOR OVERLOAD	15.21
F40	FUSE - VFD. POWER	5
F41	FUSE - VFD. POWER	6
F42	FUSE - VFD. POWER	7
K40	CONTACTOR - BYPASS	1.2.3.13.14
K41	CONTACTOR - DRIVE OUTPUT	5.6.7.13.14.15
K42	RELAY - RUN COMMAND	9.10.12.14.18
K43	RELAY - VFD RUN STATUS	12.20
U1	OVERLOAD	1.2.3.8

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. ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE AND LOCAL REQUIREMENTS.
3. THE OVERLOAD RELAY TRIP SETTING MUST BE ADJUSTED TO CORRESPOND WITH THE MOTOR FULL LOAD CURRENT AS SHOWN ON THE MOTOR NAMEPLATE (OR CLOSEST AVAILABLE SETTING.)
4. THIS PANEL LAYOUT IS APPLICABLE TO X13612019.
5. INSET A LAYOUT IS APPLICABLE TO X13612021.
6. J108, J114, 1S72 & ASSOCIATED WIRING CONNECTIONS ARE LOCATED IN THE MAIN UNIT CONTROL BOX. SCHEMATIC WIRING SHOWN HERE FOR REFERENCE ONLY.
7. WIRING SHOWN IS FOR ALL BELT DRIVE MOTORS (20-89T) AND DIRECT DRIVE MOTORS ON 20T-59T UNITS. FOR 60T-89T UNITS WITH DIRECT DRIVE MOTORS, SEE INSET CONNECTIONS.
8. ON 60T-89T UNITS WITH DIRECT DRIVE MOTORS, REMOVE JUMPER BETWEEN PINS 3 AND 4 ON TB13 ON THE VFD PANEL, AND CONNECT WIRES 632A AND 634A AS SHOWN.

IMPORTANT!

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

CAUTION

IF ANY OF THE EXISTING WIRING AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING RATED FOR 105°C OR ITS EQUIVALENT.

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.

⚠ WARNING

HAZARDOUS VOLTAGE!

DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE.

FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

⚠ AVERTISSEMENT

TENSION DANGEREUSE!

COUPER TOUTES LES TENSIONS ET OUVRIR LES SECTIONNEURS À DISTANCE. PUIS SUIVRE LES PROCÉDURES DE VERROUILLAGE ET DES ÉTIQUETTES AVANT TOUTE INTERVENTION. VÉRIFIER QUE TOUS LES CONDENSATEURS DES MOTEURS SONT DÉCHARGÉS. DANS LE CAS D'UNITÉS COMPORTANT DES ENTRAÎNEMENTS À VITESSE VARAIBLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAÎNEMENT POUR DÉCHARGER LES CONDENSATEURS.

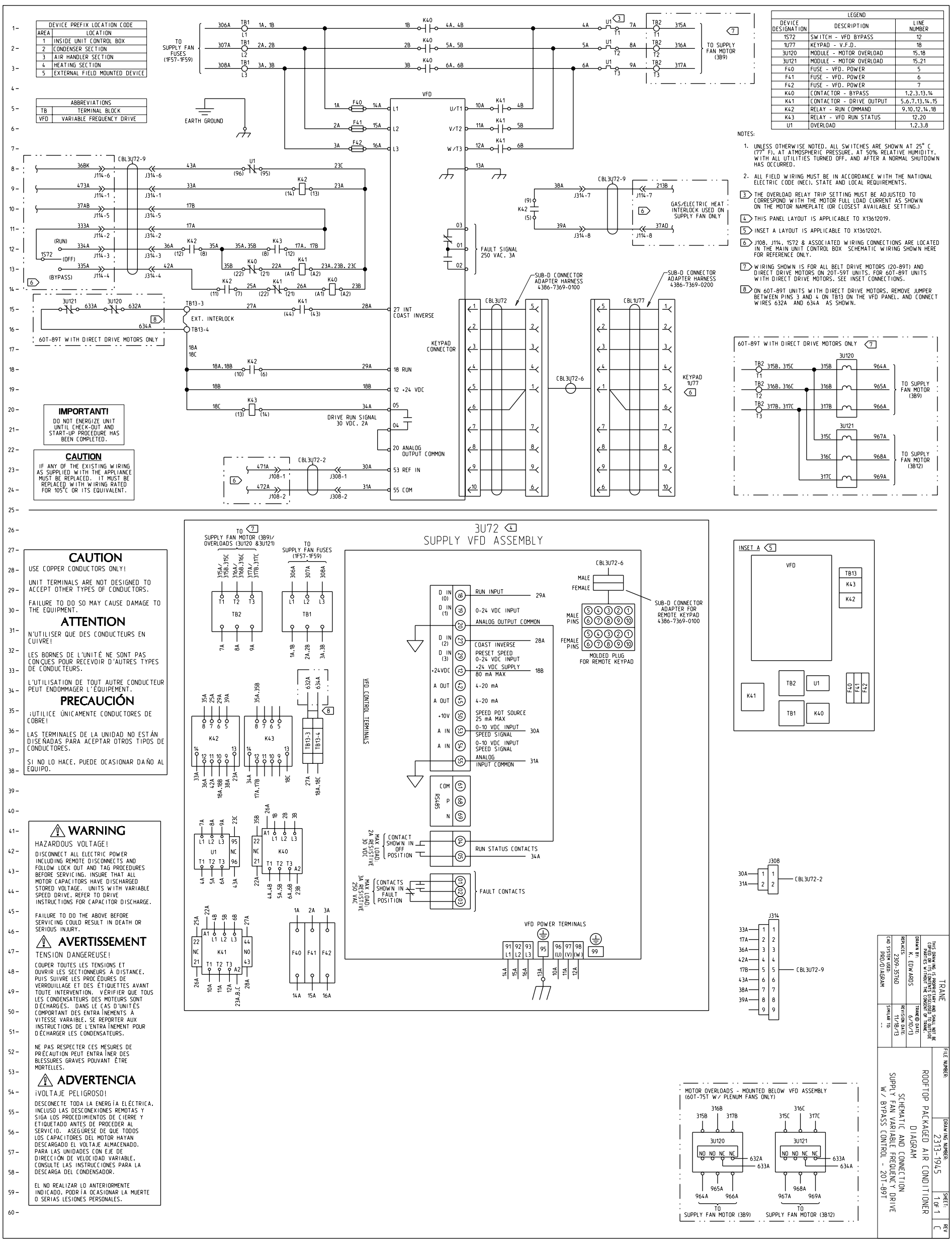
NE PAS RESPECTER CES MESURES DE PRÉCAUTION PEUT ENTRAÎNER DES BLESSURES GRAVES POUVANT ÊTRE MORTELLES.

⚠ ADVERTENCIA

¡VOLTAJE PELIGROSO!

DESCONECTE TODA LA ENERGÍA ELÉCTRICA, INCLUSO LAS DESCONEXIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGÚRESE DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON EJE DE DIRECCIÓN DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR.

EL NO REALIZAR LO ANTERIORMENTE INDICADO, PODRÍA OCASIONAR LA MUERTE O SERIAS LESIONES PERSONALES.



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REPLACES: 2309-35760 | REVISION DATE: 11/18/13

CAD SYSTEM USED: PRO/DIAGRAM | SIMILAR TO: --

FILE NUMBER:

ROOFTOP PACKAGED AIR CONDITIONER

SCHEMATIC AND CONNECTION DIAGRAM

SUPPLY FAN VARIABLE FREQUENCY DRIVE W/ BYPASS CONTROL - 20T-89T

DRAWING NUMBER: 2313-1945

SHEET: 1 OF 1

REV: C