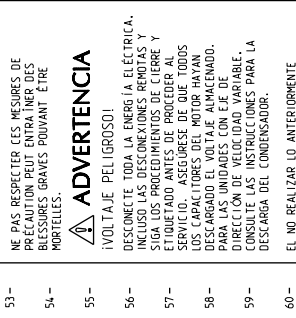
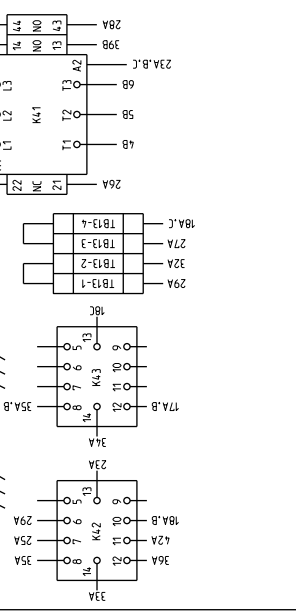
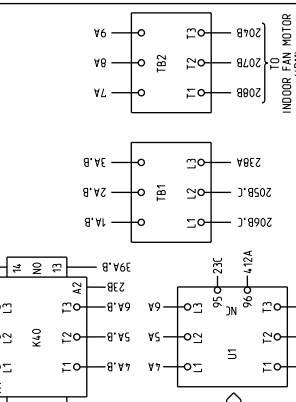
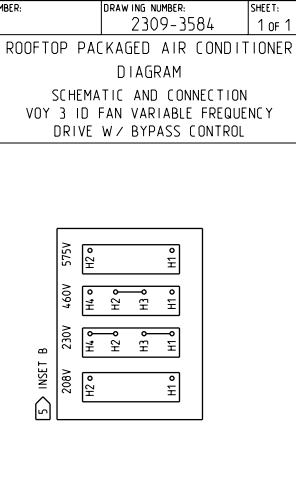
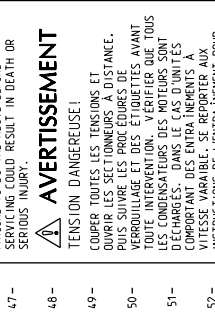
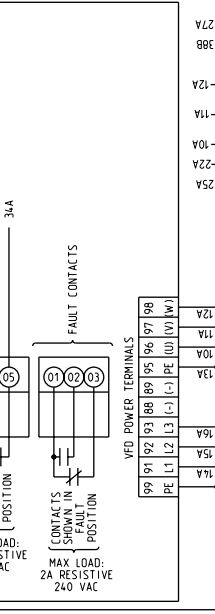
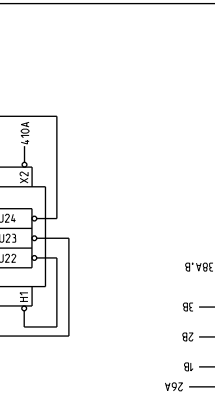
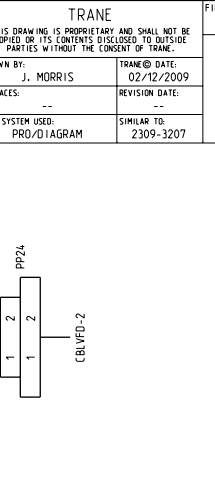
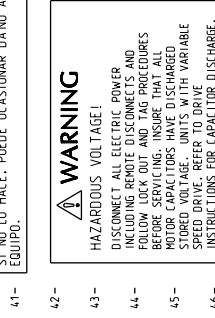
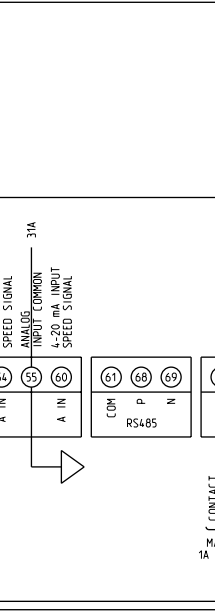
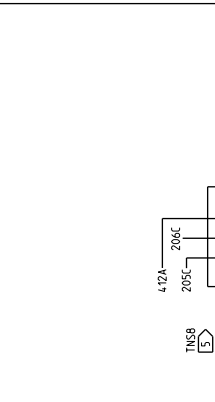
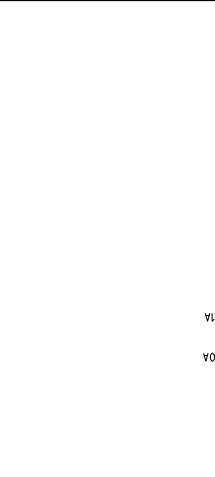
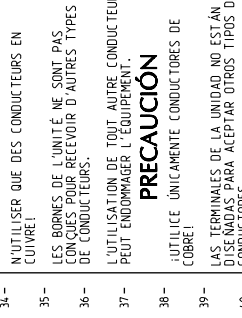
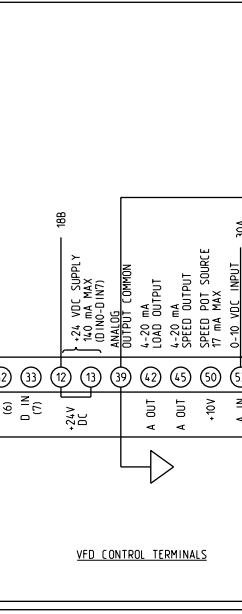
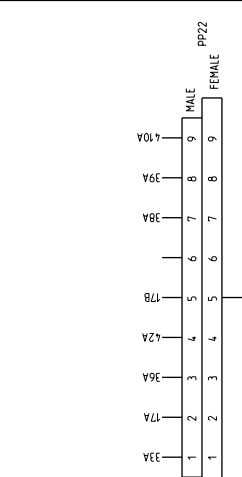
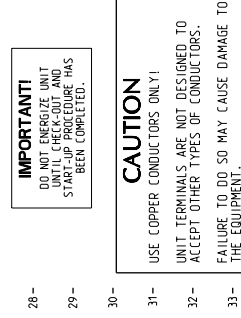
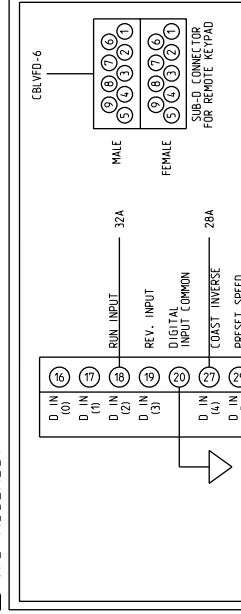
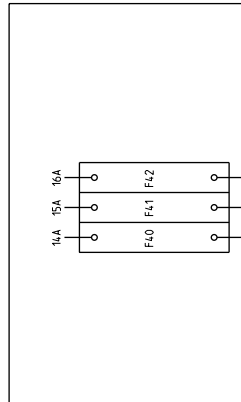


REVISE DESIGNATION	DESCRIPTION	LINE NUMBER
BPS	SWITCH VFD BYPASS (E)	12
F	IND FAN RELAY (E)	9
F40	FUSE - V.F.D. - POWER	4
F41	FUSE - V.F.D. - POWER	5
F42	FUSE - V.F.D. - POWER	6
FU22	VFD TRANSFORMER FUSE	6
FU23	VFD TRANSFORMER FUSE	6
FU24	VFD TRANSFORMER FUSE	8
K40	DRIVE OUTPUT CONTACTOR	1, 2, 3, 12, 14, 16
K41	DRIVE OUTPUT RELAY	5, 6, 7, 12, 14, 16, 19
K42	DRIVE OUTPUT RELAY	9, 12, 16, 22
KEYPAD	KEYPAD - V.F.D.	23
TB1	TERMINAL BLOCK	1, 2, 3
TB2	TERMINAL BLOCK	19, 22
TNSR	TRANSFORMER	7
UI	OVERLOAD	1, 2, 3, 9
VFD	VARIABLE FREQUENCY DRIVE	4

MENU	PARAMETER	DESCRIPTION	SETTING
LOAD/MOTOR	1-22	MOTOR VOLTAGE	SET ONLY FOR 200V/230V/60HZ APPLICATIONS
	1-24	MOTOR CURRENT	SET BASED ON MOTOR NAMEPLATE
	1-25	MOTOR NOMINAL SPEED	SET BASED ON MOTOR NAMEPLATE
LIMITS/WARNINGS	4-12	MOTOR SPEED LOW LIMIT	35 Hz
	4-18	CURRENT LIMIT	100% RATED CURRENT
ANALOG IN/OUT	6-14	TERMINAL 53 LOW REF	(E) > 35Hz

FUSE REPLACEMENT TABLE		HIGH EFFICIENCY MOTORS				
VFD CIRCUIT FUSE (CLASS "T" FUSES)	UNIT VOLTAGE	FUSE RATING	7.5 HP	10 HP	15 HP	20 HP
FU22-FU23	208V/230V	208V/60/3	80A	80A	125A	175A
	460V	600V/60/3	60A	60A	90A	125A
	575V	600V/60/3	35A	35A	45A	60A
FU24	208-230V	600V	25A	30A	40A	50A
	460V	CLASS CC	CLASS CC	CLASS CC	CLASS CC	CLASS CC
	575V	CLASS CC	CLASS CC	CLASS CC	CLASS CC	CLASS CC
	208-230V	CLASS CC	CLASS CC	CLASS CC	CLASS CC	CLASS CC
	460V	CLASS CC	CLASS CC	CLASS CC	CLASS CC	CLASS CC
	575V	CLASS CC	CLASS CC	CLASS CC	CLASS CC	CLASS CC



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FILE NUMBER: 2309-3584
DRAWING NUMBER: 1 OF 1
SHEET: C
REV

ROOFTOP PACKAGED AIR CONDITIONER
DIAGRAM
SCHEMATIC AND CONNECTION
VOY 3 ID FAN VARIABLE FREQUENCY
DRIVE W/ BYPASS CONTROL

DRAWN BY: J. MORRIS
REVISION DATE: 02/12/2009
REVISIONS: --
CAD SYSTEM USED: PRO/DIAGRAM
SIMILAR TO: 2309-3207

- NOTES:
- UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25°C (77°F), AT ATMOSPHERIC PRESSURE, AT 50% LOAD. AFTER A NORMAL SHUTDOWN HAS OCCURRED.
 - ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE REQUIREMENTS.
 - THE OVERLOAD RELAY TRIP SETTING MUST BE ADJUSTED TO MATCH THE MOTOR'S FULL LOAD CURRENT AS SHOWN ON THE MOTOR NAMEPLATE.
 - THIS PANEL LAYOUT IS APPLICABLE TO FIGURE 1 OF X1570683.
 - SEE INSET B FOR PROPER JUMPER CONFIGURATION OF TNSR.
 - PP23, PP25, BPS, F & ASSOCIATED WIRING CONNECTIONS ARE LOCATED IN THE MAIN UNIT CONTROL BOX. SCHEMATIC WIRING SHOWN HERE FOR REFERENCE.
 - SEE FUSE REPLACEMENT TABLE ON VFD PANEL FOR VFD POWER FUSES (F40, F41, F42).
 - SWITCH AS3, LOCATED ON THE VFD, MUST BE SET TO "U" (OFF).

CAUTION
IF ANY OF THE EXISTING WIRING AS SUPPLIED WITH THE APPLIANCE IS FOUND TO BE DEFECTIVE, IT MUST BE REPAIRED, REPLACED, OR REWIRING TO BE FOR 105°C OR ITS EQUIVALENT.

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

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'EQUIPEMENT.

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 THE MAIN POWER SUPPLY BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE.

AVERTISSEMENT
TENSION DANGEREUSE!
COUPER TOUTES LES TENSIONS ET Y COMPRIS LES SECTIONNEURS À DISTANCE, PUIS SUIVRE LES PROCÉDURES DE VÉRIFICATION ET DES ÉTIQUETTES AVANT TOUTE INTERVENTION. VÉRIFIER QUE TOUTS LES CONDENSATEURS DES MOTEURS SONT DÉCHARGÉS. UNITS À VITESSE VARIABLE, SE RÉFÉRER AUX INSTRUCTIONS DE L'ENTRAÎNEMENT POUR DÉCHARGER LES CONDENSATEURS.

ADVERTENCIA
¡VOLTAJE PELIGROSO!
DESCONECTE TODA LA ENERGÍA ELÉCTRICA, INCLUIDO EL INTERRUPTOR PRINCIPAL Y LOS SECCIONNEURS A DISTANCIA, Y VERIFIQUE LAS ETIQUETAS ANTES DE PROCEDER AL SERVICIO. ASEGURESE DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON VE DE LE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR.

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

