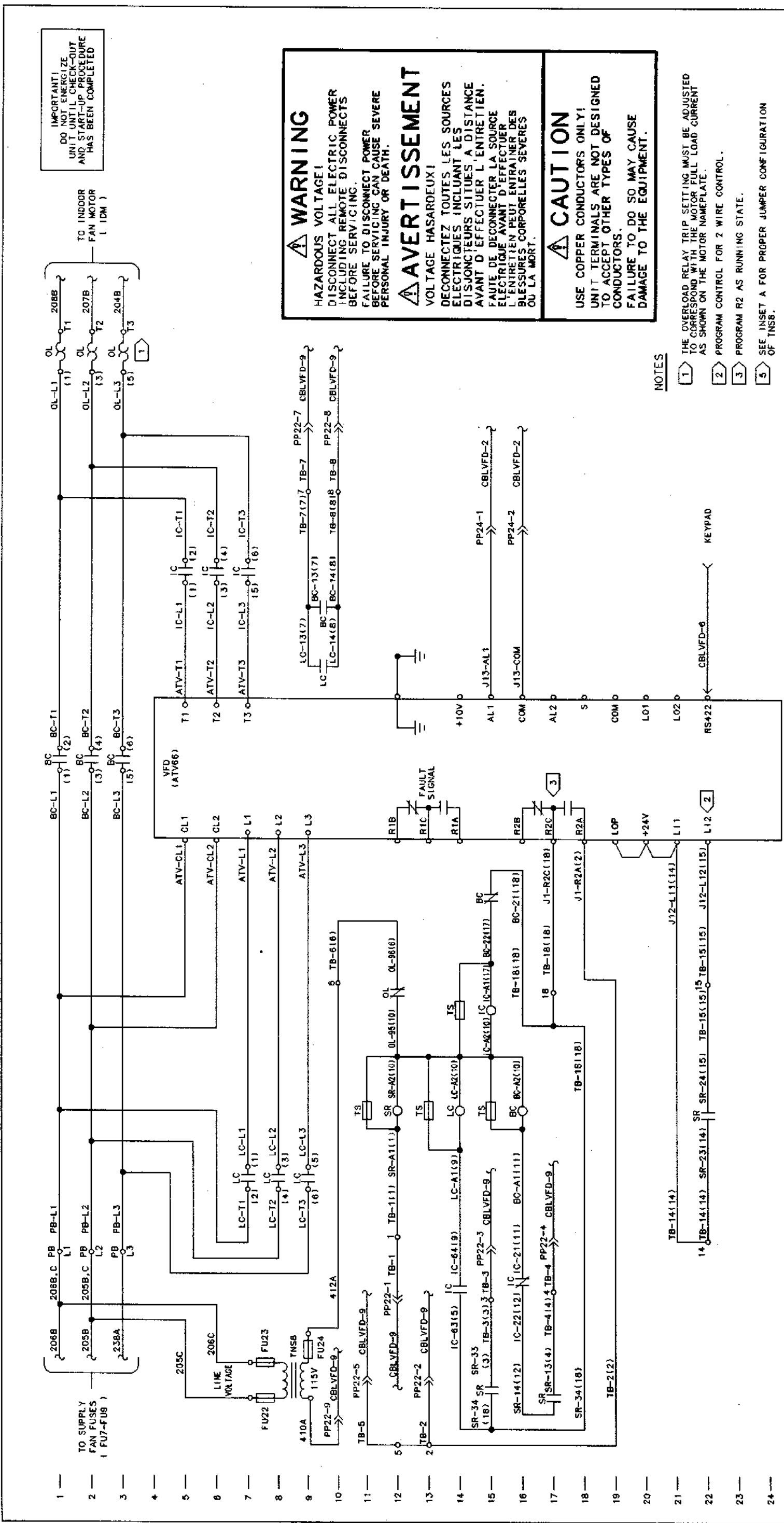




WARNING
HAZARDOUS VOLTAGE
ELECTRIC POWER
INCLUDING REMOTE DISCONNECTS
BEFORE SERVICING.
FAILURE TO DISCONNECT POWER
BEFORE SERVICING MAY CAUSE SEVERE
PERSONAL INJURY OR DEATH.

AVERTISSEMENT
TENSION DANGEREUSE
TOUTES LES SOURCES
D'ÉLECTRICITÉ Y COMPRIS
LES DISJONCTEURS SONT À DISTANCE
AVANT D'EFFECTUER L'ENTRETIEN.
ÉLECTRICITÉ AVANT D'EFFECTUER
L'ENTRETIEN, DÉBRANCHER
L'ÉQUIPEMENT À LA MORT.

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.

- NOTES
- 1 THE OVERLOAD RELAY TRIP SETTING MUST BE ADJUSTED AS SHOWN ON THE MOTOR NAMEPLATE.
 - 2 PROGRAM CONTROL FOR 2 WIRE CONTROL.
 - 3 PROGRAM R2 AS RUNNING STATE.
 - 4 SEE INSET A FOR PROPER JUMPER CONFIGURATION OF TNSB.

SQUARE D VARIABLE FREQUENCY DRIVE FACTORY SETTING SUMMARY		
MENU	DESCRIPTION	SETTING
4.0	DISPLAY CONFIGURATION	2. 0.00 Hz
6.1	TORQUE TYPE	1. 2. 0.3 HP
6.3	MOTOR POWER (1-3 HP ONLY)	1. 2. 0.3 HP
7.11	MOTOR OVERLOAD	100%
7.12	DAMPING	BY FREQUENCY LEVEL=0
7.13	CURRENT LIMIT	CURRENT LIMIT =
7.14	MAX FREQUENCY	60 Hz
7.15	MAX SPEED	22 Hz
7.16	ACCELERATION	30 SEC
7.17	DECELERATION	30 SEC
7.18	CONTROL TYPE	NULD
7.19	SPEED REF 2 = A12	"X-20 MA" X = 2.6
7.2	SPEED REFERENCE	MULTIPLY BY (-1) = YES
7.3	BYPASS I/O (UNIT W/ BYPASS)	CLAMP SUM = YES
7.4	RELAY OUTPUT R2 (UNIT W/ BYPASS)	RUNNING STATE
7.5	UNIT PHASE FAULT (UNIT W/ BYPASS)	YES
7.6	AUTO-RESTART	NUMBER OF RESTARTS=3
7.7	INPUT PHASE FAILURE	DELAY TIME=10 SECONDS
7.8	SOFTWIRE LOCKING (UNIT W/ BYPASS)	NO
7.9	PARTIAL UNLOCK	PARTIAL UNLOCK

FUSE REPLACEMENT TABLE		
VFD CIRCUIT FUSE	UNIT VOLTAGE	EFFICIENCY MOTORS
FU2-FU9 (CLASS FTT FUSES)	208V/60/3	7.5 HP 10 HP 15 HP 20 HP
	230V/60/3	80A 100A 125A 175A
	240V/60/3	80A 100A 125A 150A
	460V/60/3	60A 80A 100A 125A
FU2-FU3	208-230V	CLASS CC 0.5 AMP
	208-230V	CLASS CC 2.0 AMP
FU4	460V	CLASS CC 2.0 AMP

10 X 15 METAL PROOF

REVISIONS: 2307-4326

REVISION DATE: 11/5/97

THE TRANE COMPANY
A DIVISION OF
AMERICAN STANDARD, INC.

SCHEMATIC & CONNECTION WIRING DIAGRAM
10 FAN VARIABLE FREQUENCY
DRIVE WITH BYPASS SWITCH WIRING
27.5 - 50 TON YC, TC, TE

DRAWN BY: S. SMALLING

DATE: 11/5/97

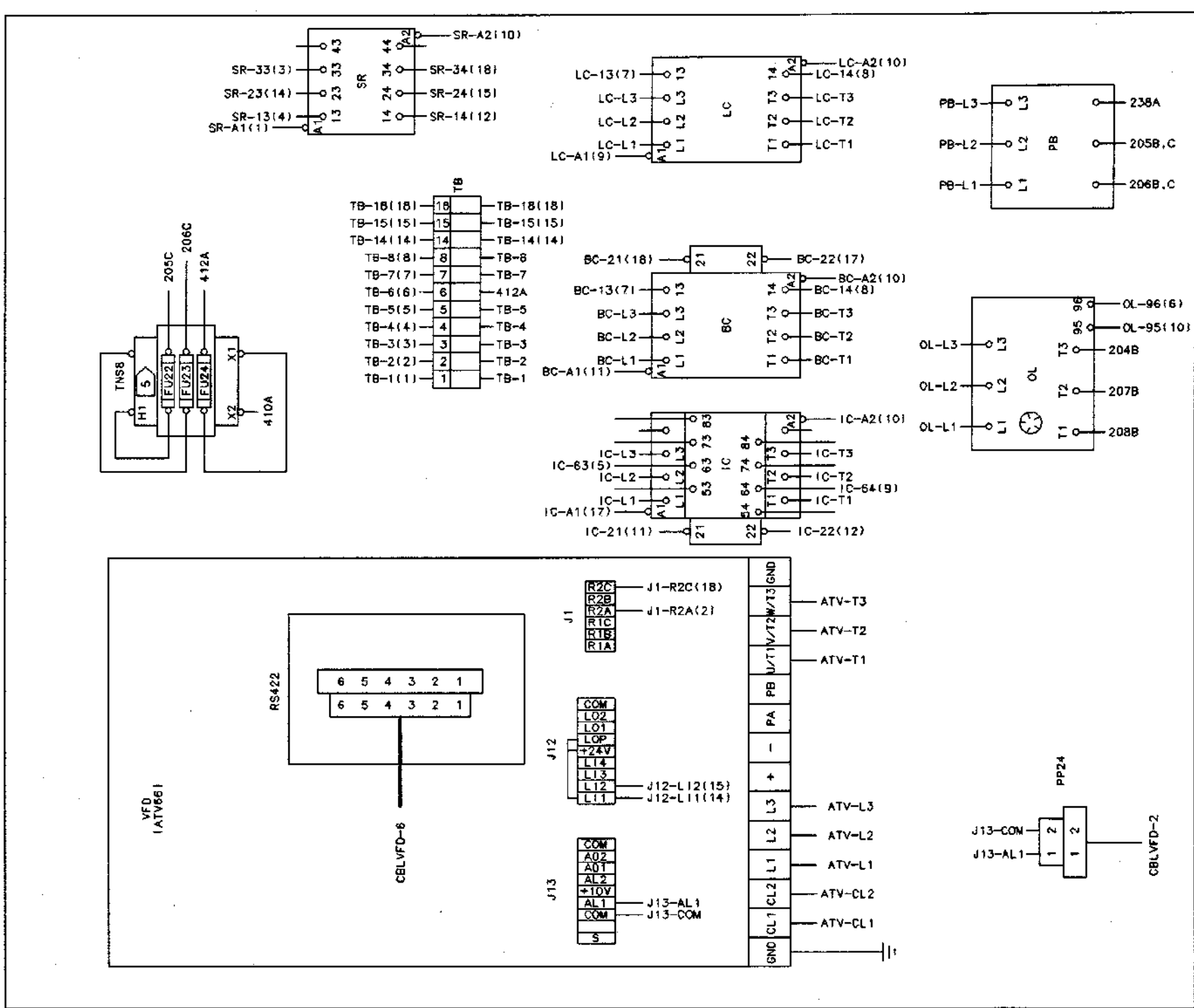
2307-3841

FILE NUMBER: 2307-4319

DRAWING NUMBER: 2307-4319

REV

VFD ASSEMBLY



ABBREVIATIONS	
BC	BYPASS CONTACTOR
LC	ISOLATION CONTACTOR
OL	LINE CONTACTOR
SR	START RELAY
TS	TRANSIENT SUPPRESSOR
VFD	VARIABLE FREQUENCY DRIVE