



REF	DESCRIPTION	LINE
CC1	COMPRESSOR CONTACTOR	23,25
CCH	CRANKCASE HEATER	27
CF1	OD MOTOR CAPACITOR	30
CF2	ID MOTOR CAPACITOR	12
CPR1	COMPRESSOR	24
CR	CPR RUN CAPACITOR	24
CS	CPR START CAPACITOR	19
CSR	CPR START RELAY	19
CTL	COIL TEMP LIMIT SWITCH	27
F	FAN RELAY	9,10
FTB	FAN TERMINAL BLOCK	8,10,12
IDM	ID FAN MOTOR	10
ODF	OD FAN RELAY	30
ODM	OD FAN MOTOR	31
R2	CPR START RESISTOR	20
TNS1	LOW VOLTAGE TRANSFORMER	45

COLOR	ABBR	COLOR	ABBR
BLACK	BLK	ORANGE	ORG
BLUE	BLU	RED	RED
BROWN	BRN	VIOLET (PURPLE)	VIO
GRAY (SLATE)	GRA	WHITE	WHT
GREEN/YELLOW	G/Y	YELLOW	YEL

- 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.
- 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.
- NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
- THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
- CONNECTIONS SHOWN ARE FOR 230V/60HZ/1PH UNITS. WHEN 208V/60HZ/1PH OPERATION IS REQUIRED, MOVE WIRE W9 (BLK) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
- CONNECTIONS SHOWN ARE FOR LOW SPEED OPERATION. WHEN HIGH SPEED OPERATION IS REQUIRED, MOVE WIRE W7 FROM FTB-C TO FTB-D.
- CONNECTIONS SHOWN ARE FOR 4 AND 5 TON UNITS. FOR 3 TON UNITS (AND BELOW), THERE ARE NO FAN RELAY (F) JUMPERS FROM PIN 3 TO PIN 6 OR FROM PIN 1 TO PIN 4.

**⚠ 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 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 TOUTS LES CONDENSATEURS DES MOTEURS SONT DÉCHARGÉS. DANS LE CAS D'UNITÉS COMPORTANT DES ENTRAÎNEMENTS À VITESSE VARIABLE, 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.

**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.

**IMPORTANT**

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

**TRANE**  
A DIVISION OF AMERICAN STANDARD, INC.

THIS DRAWING IS APPROVED FOR THE CONTRACTOR BY THE AUTHOR. COMPLETE INSTRUCTIONS TO THE CONTRACTOR ARE WITHIN THE UNIT. DRAWN BY: K. V. LINDORF © DATE: 22-AUG-00  
DO NOT SCALE PRINT  
THIRD ANGLE PROJECTION  
SIMILAR TO:

**DIAGRAM**

POWER - HEAT PUMP,  
3-5 TON, 230V-1PH PWR

**4366-1008**

REV