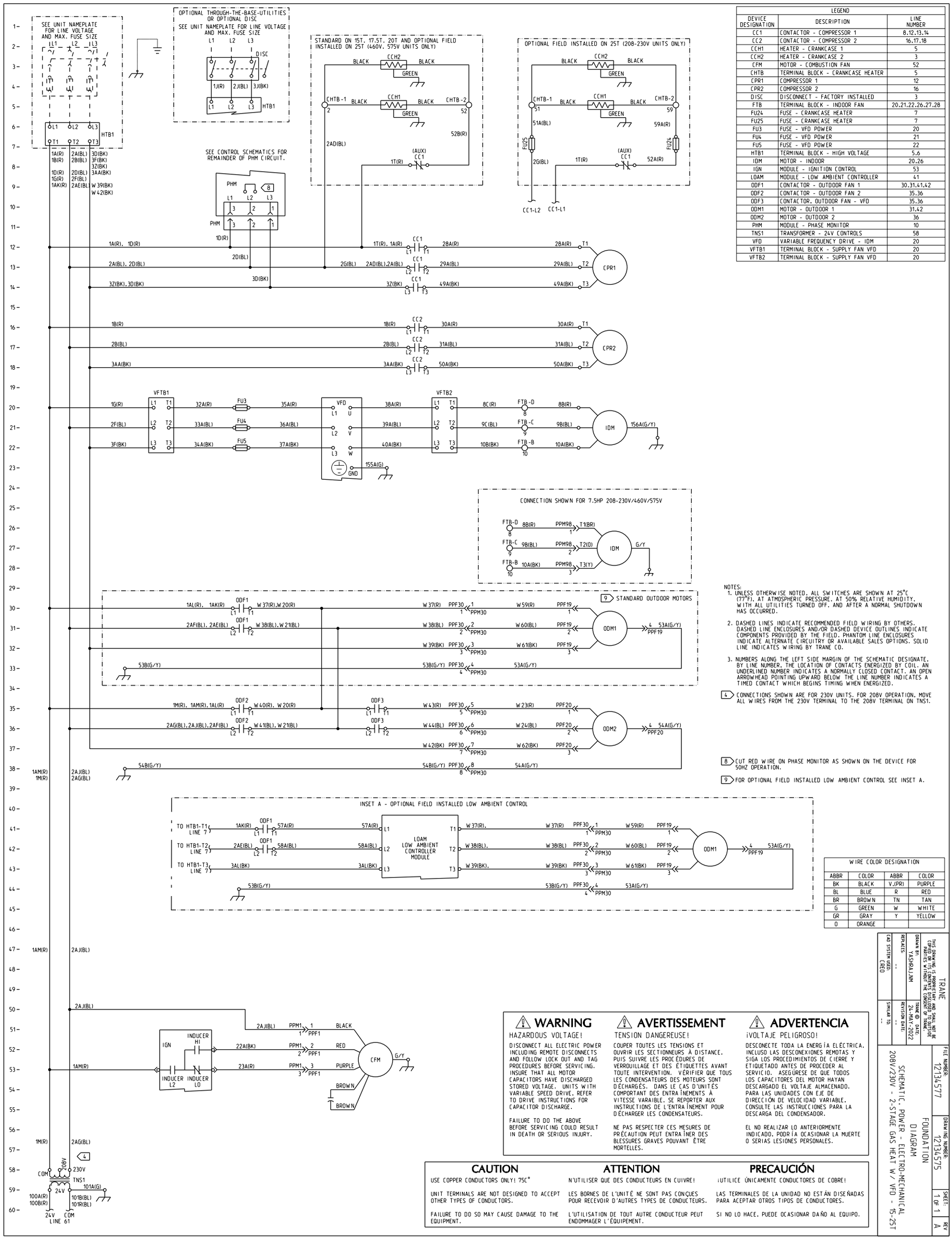
RELEASED 27/Sep/2022 04:45:53 GMT



LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
CC1	CONTACTOR - COMPRESSOR 1	8.12.13.14
CC2	CONTACTOR - COMPRESSOR 2	16.17.18
CCH1	HEATER - CRANKCASE 1	5
CCH2	HEATER - CRANKCASE 2	3
CFM	MOTOR - COMBUSTION FAN	52
CHTB	TERMINAL BLOCK - CRANKCASE HEATER	5
CPR1	COMPRESSOR 1	12
CPR2	COMPRESSOR 2	16
DISC	DISCONNECT - FACTORY INSTALLED	3
FTB	TERMINAL BLOCK - INDOOR FAN	20.21.22.26.27.28
FU24	FUSE - CRANKCASE HEATER	7
FU25	FUSE - CRANKCASE HEATER	7
FU3	FUSE - VFD POWER	20
FU4	FUSE - VFD POWER	21
FU5	FUSE - VFD POWER	22
HTB1	TERMINAL BLOCK - HIGH VOLTAGE	5.6
IDM	MOTOR - INDOOR	20.26
IGN	MODULE - IGNITION CONTROL	53
LOAM	MODULE - LOW AMBIENT CONTROLLER	41
ODF1	CONTACTOR - OUTDOOR FAN 1	30.31.41.42
ODF2	CONTACTOR - OUTDOOR FAN 2	35.36
ODF3	CONTACTOR, OUTDOOR FAN - VFD	35.36
ODM1	MOTOR - OUTDOOR 1	31.42
ODM2	MOTOR - OUTDOOR 2	36
PHM	MODULE - PHASE MONITOR	10
TNS1	TRANSFORMER - 24V CONTROLS	58
VFD	VARIABLE FREQUENCY DRIVE - IDM	20
VFTB1	TERMINAL BLOCK - SUPPLY FAN VFD	20
VFTB2	TERMINAL BLOCK - SUPPLY FAN VFD	20

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. 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. SOLID LINE INDICATES WIRING BY TRANE CO.
3. NUMBERS ALONG THE LEFT SIDE MARGIN OF THE SCHEMATIC DESIGNATE, BY LINE NUMBER, THE LOCATION OF CONTACTS ENERGIZED BY COIL. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT. AN OPEN ARROWHEAD POINTING UPWARD BELOW THE LINE NUMBER INDICATES A TIMED CONTACT WHICH BEGINS TIMING WHEN ENERGIZED.

4 CONNECTIONS SHOWN ARE FOR 230V UNITS. FOR 208V OPERATION, MOVE ALL WIRES FROM THE 230V TERMINAL TO THE 208V TERMINAL ON TNS1.

8 CUT RED WIRE ON PHASE MONITOR AS SHOWN ON THE DEVICE FOR 50HZ OPERATION.

9 FOR OPTIONAL FIELD INSTALLED LOW AMBIENT CONTROL SEE INSET A.

WIRE COLOR DESIGNATION			
ABBR	COLOR	ABBR	COLOR
BK	BLACK	V.(PR)	PURPLE
BL	BLUE	R	RED
BR	BROWN	TN	TAN
G	GREEN	W	WHITE
GR	GRAY	Y	YELLOW
O	ORANGE		

⚠ 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.

CAUTION

USE COPPER CONDUCTORS ONLY! 75C°

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.

CAD SYSTEM USED: CREO
REPLACES: --
DRAWN BY: YASHRAJ.NM
SIMILAR TO: --
REVISION DATE: --
TRANE @ DATE: 24-MAY-2022

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TRANE

SCHEMATIC, POWER - ELECTRO-MECHANICAL
208V/230V - 2-STAGE GAS HEAT W/ VFD - 15-25T

FOUNDATION DIAGRAM

FILE NUMBER: 12134577
DRAWING NUMBER: 12134575
SHEET: 1 OF 1
REV: A