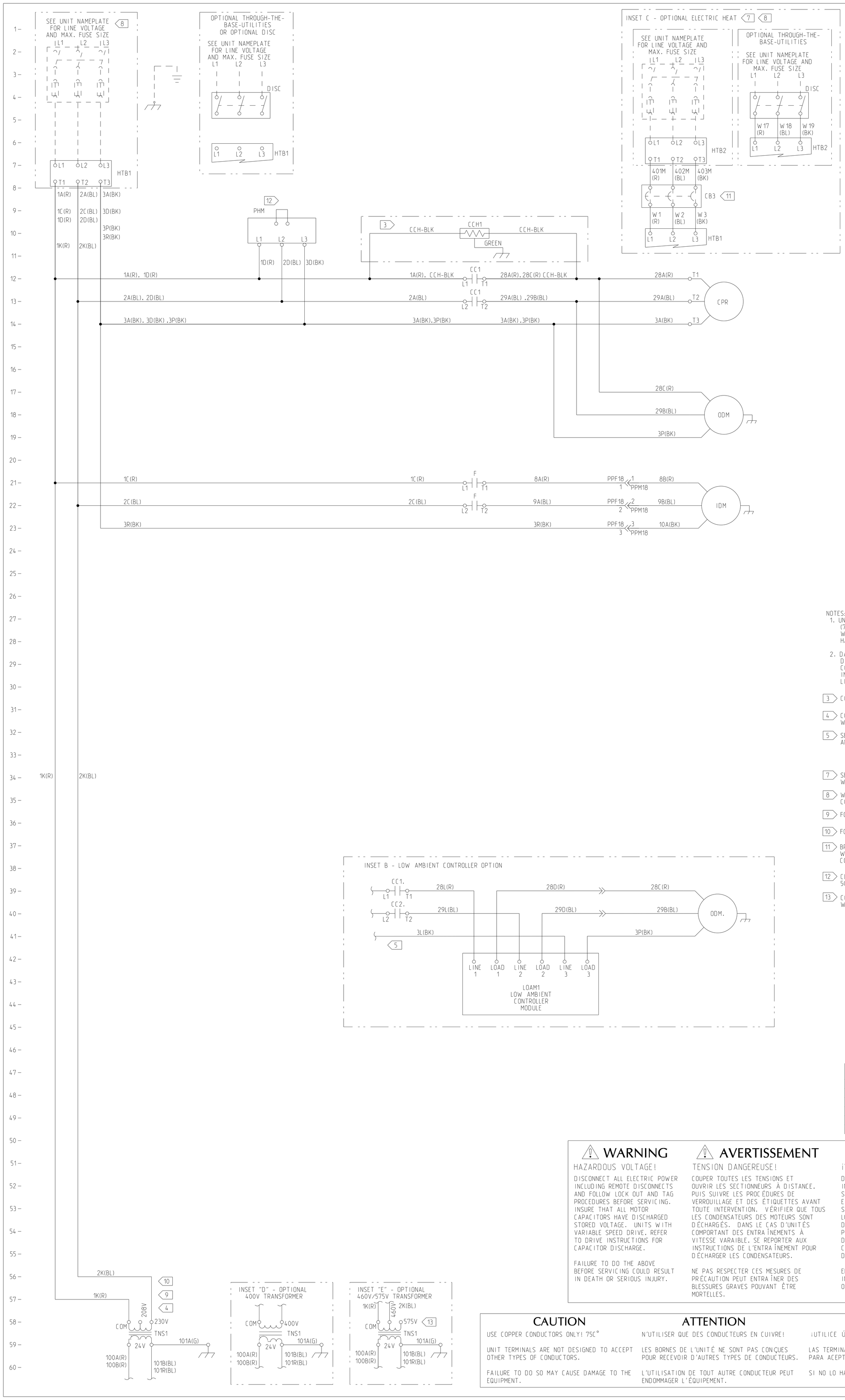

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
CB3	CIRCUIT BREAKER - EH	9
CC1	CONTACTOR - COMPRESSOR, ODM	12,13,39
CC2	CONTACTOR - COMPRESSOR	40
CCH1	HEATER - CRANKCASE	10
CPR	COMPRESSOR	12
DISC	FACTORY INSTALLED DISCONNECT	4
F	CONTACTOR, INDOOR FAN	21,22
HTB1	TERMINAL BLOCK - CTRL BOX	6,7
HTB2	TERMINAL BLOCK - ELECTRIC HEAT	6
IDM	MOTOR - INDOOR	21
LOAM1	LOW AMBIENT CONTROLLER	43
ODM	MOTOR - OUTDOOR	17
PHM	MODULE - PHASE MONITOR	11
TNS1	TRANSFORMER - 24V CONTROLS	58

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 CCH1 IS AN AVAILABLE OPTION ON ALL TONNAGES.

4 CONNECTIONS SHOWN ARE FOR 230V UNITS. FOR 208V OPERATION, MOVE WIRE 2K(BL) FROM THE 230V TERMINAL TO THE 208V TERMINAL ON TNS1.

5 SEE THE CONTROLS SCHEMATIC FOR REMAINDER OF OPTIONAL LOW AMBIENT CONTROLLER WIRING.

7 SEE APPLICABLE HEATING SECTION DIAGRAM FOR BALANCE OF CIRCUIT WHEN OPTIONAL ELECTRIC HEAT IS REQUIRED.

8 WHEN OPTIONAL ELECTRIC HEAT IS INSTALLED, LINE VOLTAGE IS CONNECTED TO HTB2 IN THE ELECTRIC HEAT CONTROL PANEL.

9 FOR 380V/415V WIRING CONNECTIONS, SEE INSET D.

10 FOR 460V/575V WIRING CONNECTIONS, SEE INSET E.

11 BRANCH CIRCUIT PROTECTION ONLY REQUIRED WITH 208V/230V UNITS WITH 20 AND 25 kW ELECTRIC HEATERS. IF CB IS NOT REQUIRED, CONNECT WIRES W1, W2 AND W3 TO T1, T2 AND T3 OF HTB2.

12 CLIP RED WIRE ON PHASE MONITOR AS SHOWN ON THE DEVICE FOR 50HZ OPERATION.

13 CONNECTIONS SHOWN ARE FOR 460V UNITS. FOR 575V OPERATION, MOVE WIRE 2K(BL) FROM THE 460V TERMINAL TO THE 575V TERMINAL ON TNS1.

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

⚠ 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.

TRANE

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DRAWN BY: L.CRESON
REPLACES: --
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TRANE© DATE: 4-NOV-2014
REVISION DATE: --
SIMILAR TO: --

FILE NUMBER: 12131932
DRAWING NUMBER: 12130801
SHEET: 1 OF 1
REV B

SMALL FOUNDATION DIAGRAM

POWER SCHEMATIC - ELECTRO-MECHANICAL
208V/230V - 380V - 460V/575V - COOLING ONLY
3-5 TON UNITS