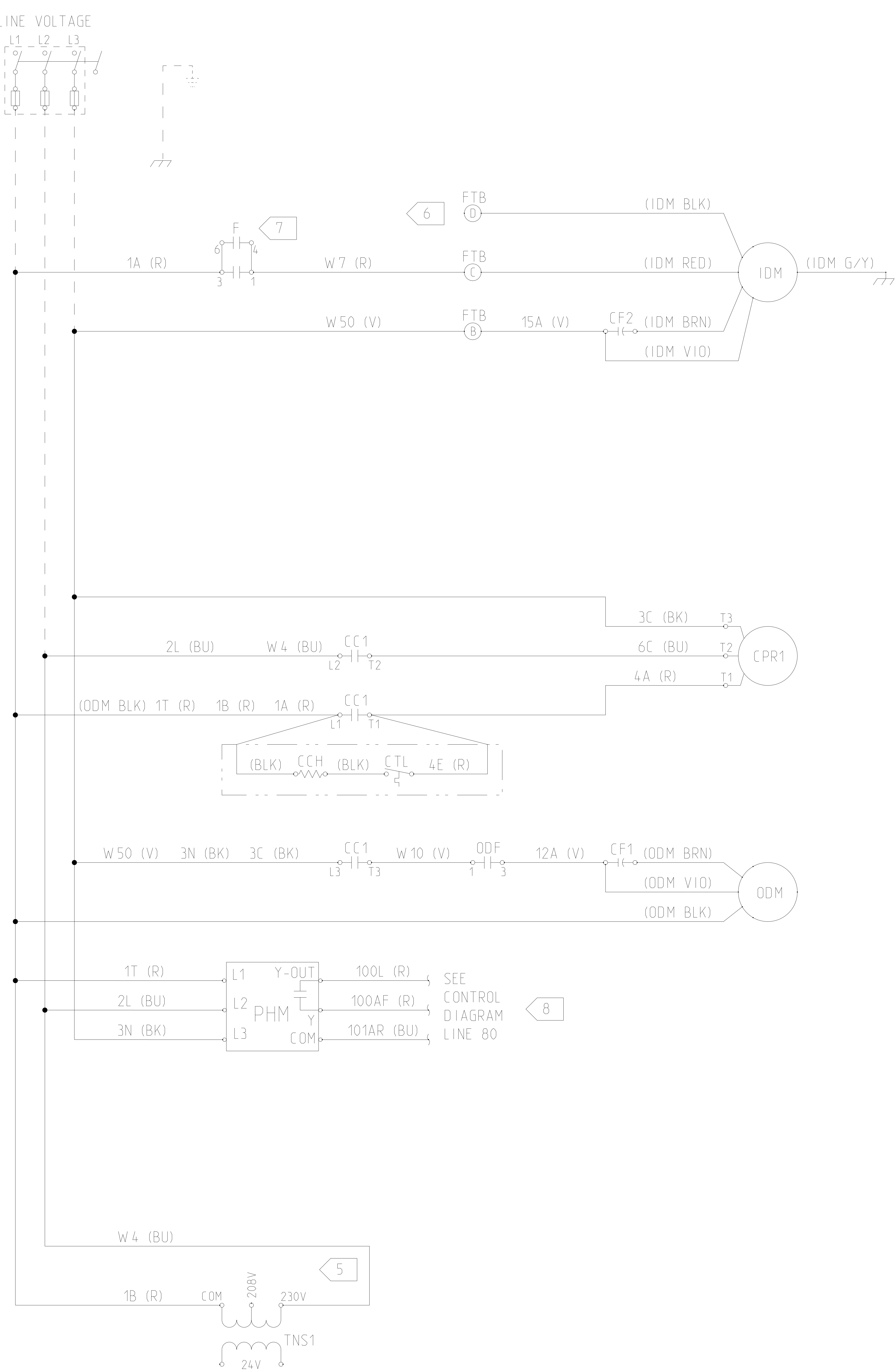




1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25° C (77° F) AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
4. THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.

- 5 CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W 4 (BLU) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
- 6 CONNECTIONS SHOWN ARE FOR LOW SPEED OPERATION. WHEN HIGH SPEED OPERATION IS REQUIRED, MOVE WIRE W 7 FROM FTB-C TO FTB-D.
- 7 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.
- 8 PHASE MONITOR CONNECTIONS ARE FOR RELIATEL CONTROLS. MOVE 100L(R) FROM LTB1-6 TO PHM Y-OUT. CONNECT 100AF(R) TO LTB1-6. WIRE 100AG IS NOT USED. CUT JUMPER FOR 50 HZ.

REF	DESCRIPTION	LINE
CC1	COMPRESSOR CONTACTOR	23,25,30
CCH	CRANKCASE HEATER	27
CF1	OD MOTOR CAPACITOR	30
CF2	ID MOTOR CAPACITOR	12
CPR1	COMPRESSOR	23
CTL	COIL TEMP LIMIT SWITCH	27
F	FAN RELAY	10
FTB	ID FAN TERMINAL BLOCK	8,10,12
IDM	ID FAN MOTOR	10
ODF	OD FAN RELAY	30
ODM	OD FAN MOTOR	31
PHM	PHASE MONITOR	34
TNS1	LOW VOLTAGE TRANSFORMER	45

COLOR	ABBR	COLOR	ABBR
BLACK	BK	ORANGE	O
BLUE	BU	RED	R
BROWN	BR	VIOLET (PURPLE)	V
GRAY (SLATE)	GY	WHITE	W
GREEN/YELLOW	G/Y	YELLOW	Y

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.

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

⚠ 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 TOUTS LES CONDENSATEURS DES MOTEURS SONT DÉCHARGÉS. DANS LE CAS D'UNITÉS COMPORTANT DES ENTRAINEMENTS 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.

⚠ ADVERTENCIA
¡VOLTAJE PELIGROSO!
DESCONECTE TODA LA ENERGÍA ELÉCTRICA, INCLUIDO 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.

TRANS

A DIVISION OF TRANE

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DRAWN BY: K. VICKMOFF © DATE: 23Aug2000

SIMILAR TO:

DO NOT SCALE PRINT

THIRD ANGLE PROJECTION

4366-1021

DIAGRAM

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

6

WIRE NUMBER	SPOOL
3N	14_BLK_2
IDM-DD-BLK	14_BLK_2
2L	14_BLU_2
6C	14_BLU_2
IDM-DD-BRN	14_BRN_2
IDM-DD-GND	14_GRNYEL_2
1A	14_RED_2
1T	14_RED_2
4A	14_RED_2
IDM-DD-RED	14_RED_2
W 7	14_RED_2
12A	14_VIO_2
15A	14_VIO_2
IDM-DD-VIO	14_VIO_2
W 10	14_VIO_2
W 50	14_VIO_2
3C	18_BLK_2
CCH-BLK1	18_BLK_2
CCH-BLK2	18_BLK_2
ODM-BLK	18_BLK_2
W 031	18_BLK_2
101AR	18_BLU_2
W 4	18_BLU_2
W 030	18_BLU_2
ODM-BRN	18_BRN_2
100AF	18_RED_2
100L	18_RED_2
1B	18_RED_2
4E	18_RED_2
W 029	18_RED_2
ODM-VIO	18_VIO_2

FROM				W I R E		TO			
COMPONENT	PART NUMBER	PIN	TERMINATOR	NUMBER		COMPONENT	PART NUMBER	PIN	TERMINATOR
CC1	TBD	L1		1A	14_RED_2	F	TBD	3	
CC1	TBD	L1		1T	14_RED_2		PHM		
CC1	TBD	L2		2L	14_BLU_2		PHM		
CC1	TBD	L3		3N	14_BLK_2		PHM		
CC1	TBD	L3		W 50	14_VIO_2	FTB	X1349_0338_01	B	
CC1	TBD	T1		4A	14_RED_2	CPR1	TBD		
CC1	TBD	T2		6C	14_BLU_2	CPR1	TBD		
CF2	X1301_0189_26	LT		15A	14_VIO_2	FTB	X1349_0338_01	B	
CPR1	TBD			3C	18_BLK_2	CC1	TBD	L3	
CTL	X1310_0055_03	LT		4E	18_RED_2	CC1	TBD	T1	
FTB	X1349_0338_01	C		W 7	14_RED_2	F	TBD	1	
ODF	TBD	1		W 10	14_VIO_2	CC1	TBD	T3	
ODF	TBD	3		12A	14_VIO_2	CF1	TBD	LT	
TNS1	X1355_0228_01	H1		1B	18_RED_2	CC1	TBD	L1	
TNS1	X1355_0228_01	H3		W 4	18_BLU_2	CC1	TBD	L2	
	PHM			101AR	18_BLU_2				
	PHM			100AF	18_RED_2				
	PHM			100L	18_RED_2				

KAREN AND CASSANDRA'S DIAGNOSTIC CHECK LIST 8/7/00									
FROM				W I R E		TO			
COMPONENT	PART NUMBER	PIN	ENTRY	NUMBER		COMPONENT	PART NUMBER	PIN	ENTRY
	PHM			100AF	18_RED_2				
	PHM			100L	18_RED_2				
	PHM			101AR	18_BLU_2				
ODF	TBD	3	3	12A	14_VIO_2	CF1	TBD	LT	LT
CF2	X1301_0189_26	LT	LT	15A	14_VIO_2	FTB	X1349_0338_01	B	B
CC1	TBD	L1	L1	1A	14_RED_2	F	TBD	3	3
TNS1	X1355_0228_01	H1	H1	1B	18_RED_2	CC1	TBD	L1	L1
CC1	TBD	L1	L1	1T	14_RED_2		PHM		
CC1	TBD	L2	L2	2L	14_BLU_2		PHM		
CPR1	TBD			3C	18_BLK_2	CC1	TBD	L3	L3
CC1	TBD	L3	L3	3N	14_BLK_2		PHM		
CC1	TBD	T1	T1	4A	14_RED_2	CPR1	TBD		
CTL	X1310_0055_03	LT	LT	4E	18_RED_2	CC1	TBD	T1	T1
CC1	TBD	T2	T2	6C	14_BLU_2	CPR1	TBD		
TNS1	X1355_0228_01	H3	H3	W 4	18_BLU_2	CC1	TBD	L2	L2
FTB	X1349_0338_01	C	C	W 7	14_RED_2	F	TBD	1	1
ODF	TBD	1	1	W 10	14_VIO_2	CC1	TBD	T3	T3
CC1	TBD	L3	L3	W 50	14_VIO_2	FTB	X1349_0338_01	B	B

[illegible]