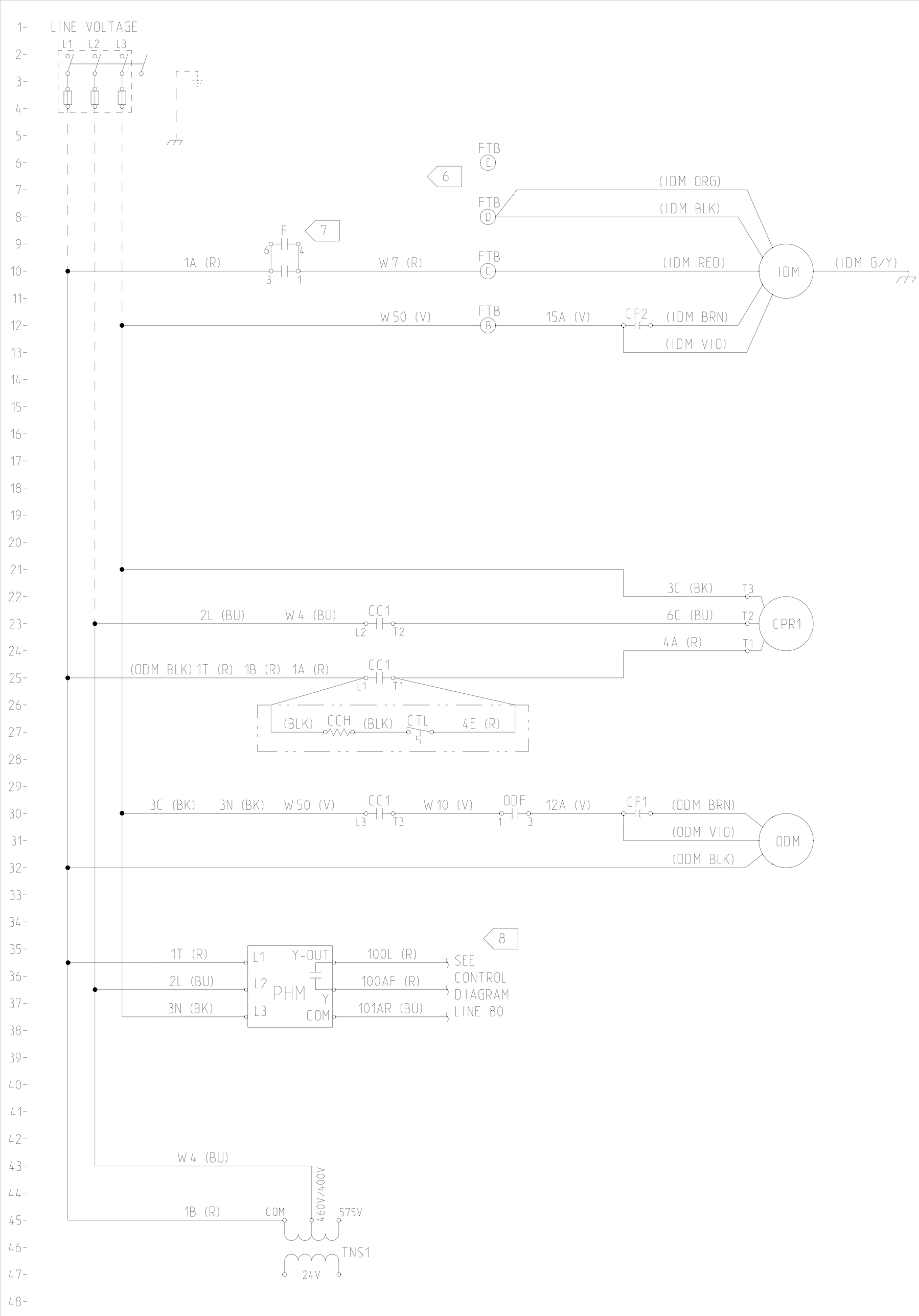

REF	DESCRIPTION	LINE
CC1	COMPRESSOR CONTACTOR	23,25,30
CCH	CRANKCASE HEATER	27
CF1	OD MOTOR CAPACITOR	30
CF2	ID MOTOR CAPACITOR	12
CPR1	COMPRESSOR	23
CTL	COIL TEMP LIMIT SWITCH	27
F	FAN RELAY	10
FTB	ID FAN TERMINAL BLOCK	6,8,10,12
IDM	ID FAN MOTOR	10
ODF	OD FAN RELAY	30
ODM	OD FAN MOTOR	31
PHM	PHASE MONITOR	35
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

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 380V/60HZ/3PH OR 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4 (BLU) FROM THE 400V/460V TERMINAL ON TNS1 TO THE 575V TERMINAL.

6 CONNECTIONS SHOWN ARE FOR LOW SPEED OPERATION. WHEN HIGH SPEED OPERATION IS REQUIRED, MOVE ORANGE WIRE FROM FTB-D TO FTB-E AND MOVE W7 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 CONNECTIONS SHOWN ARE FOR PHASE MONITOR. MOVE 100L FROM LTB1-6 TO PHM Y-OUT. CONNECT 100AF TO LTB1-6. WIRE 100AG IS NOT USED. CUT JUMPER FOR 50 HZ.

⚠ 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!

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.

IMPORTANT

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

SIMILAR TO:

DO NOT SCALE PRINT

THIRD ANGLE PROJECTION

DRAWN BY: K. Vickmark © DATE: 23Aug2000

TRANE

DIAGRAM
POWER - HEAT PUMP,
3-5 TON, 460V/575V PWR,
DD IDM

4366-1024

REV G

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
IDM-DD-ORG	14_ORG_2
1A	14_RED_2
1T	14_RED_2
4A	14_RED_2
IDM-DD-RED	14_RED_2
W7	14_RED_2
12A	14_VIO_2
15A	14_VIO_2
IDM-DD-VIO	14_VIO_2
W10	14_VIO_2
W50	14_VIO_2
3C	18_BLK_2
CCH-BLK1	18_BLK_2
CCH-BLK2	18_BLK_2
ODM-BLK	18_BLK_2
W031	18_BLK_2
101AR	18_BLU_2
W4	18_BLU_2
W030	18_BLU_2
ODM-BRN	18_BRN_2
100AF	18_RED_2
100L	18_RED_2
1B	18_RED_2
4E	18_RED_2
W029	18_RED_2
ODM-VIO	18_VIO_2

FROM				WIRE NUMBER		TO			
COMPONENT	PART NUMBER	PIN	TERMINATOR			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	L3		3N	14_BLK_2		PHM		
CC1	TBD	L3		W50	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		W7	14_RED_2	F	TBD	1	
ODF	TBD	1		W10	14_VIO_2	CC1	TBD	T3	
ODF	TBD	3		12A	14_VIO_2	CF1	TBD	LT	
TNS1	X1355_0228_04			W4	18_BLU_2	CC1	TBD	L2	
TNS1	X1355_0228_04			1B	18_RED_2	CC1	TBD	L1	
	PHM			101AR	18_BLU_2				
	PHM			100AF	18_RED_2				
	PHM			100L	18_RED_2				
				2L	14_BLU_2		PHM		

KAREN AND CASSANDRA'S DIAGNOSTIC CHECK LIST 8/7/00

FROM				WIRE NUMBER		TO			
COMPONENT	PART NUMBER	PIN	ENTRY			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_04			1B	18_RED_2	CC1	TBD	L1	L1
CC1	TBD	L1	L1	1T	14_RED_2		PHM		
				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_04			W4	18_BLU_2	CC1	TBD	L2	L2
FTB	X1349_0338_01	C	C	W7	14_RED_2	F	TBD	1	1
ODF	TBD	1	1	W10	14_VIO_2	CC1	TBD	T3	T3
CC1	TBD	L3	L3	W50	14_VIO_2	FTB	X1349_0338_01	B	B

TNS1		H3	X1355_0228_04
TNS1		H2	X1355_0228_04
TNS1		H1	X1355_0228_04
TNS1		X2	X1355_0228_04
TNS1		X1	X1355_0228_04
PHM		PHM_Y-OUT	PHM
PHM		PHM_Y	PHM
PHM		PHM_L3	PHM
PHM		PHM_L2	PHM
PHM		PHM_L1	PHM
PHM		PHM_COM	PHM
ODM		6	TBD
ODM		5	TBD
ODM		4	TBD
ODM		3	TBD
ODM		2	TBD
ODM		1	TBD
ODF	3	2	TBD
ODF	1	1	TBD
IDM		6	TBD
IDM		5	TBD
IDM		4	TBD
IDM		3	TBD
IDM		2	TBD
IDM		1	TBD
FTB	D	D_RIGHT	X1349_0338_01
FTB	D	D_LEFT	X1349_0338_01
FTB	C	C_RIGHT	X1349_0338_01
FTB	C	C_LEFT	X1349_0338_01
FTB	B	B_RIGHT	X1349_0338_01
FTB	B	B_LEFT	X1349_0338_01
FTB		RIGHT	X1349_0338_01
FTB		LEFT	X1349_0338_01
F	3	1	TBD
F	1	2	TBD
CTL	RT	RT	X1310_0055_03
CTL	LT	LT	X1310_0055_03
CPR1		T3	TBD
CPR1		T2	TBD
CPR1		T1	TBD
CF2	RT	RT	X1301_0189_26
CF2	LT	LT	X1301_0189_26
CF2	LT	1	X1301_0189_26
CF1	RT	RT	TBD
CF1	LT	LT	TBD
CF1	LT	1	TBD
CCH	RT	RT	TBD
CCH	LT	LT	TBD
CC1	T3	T3	TBD
CC1	T2	T2	TBD
CC1	T1	T1	TBD
CC1	L3	L3	TBD
CC1	L2	L2	TBD
CC1	L1	L1	TBD
REF DES	ENTRY_PORT	PIN NAME	MODEL NAME