LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1CB2,3,4,5,6	COMPRESSOR CIRCUIT BREAKERS	21,26,31,36,41
1CB7	ELEC HEAT CIRCUIT BREAKERS	23,38
1DL3	TIME DELAY RELAY	132
1FA4,5	TRANS. PRIMARY FUSE	53,151
1F6	TRANS. SECONDARY FUSE	56
1FB,9	TRANS. PRIMARY FUSE	52,53
1K2	COMPRESSOR CONTACTOR	123,124
1K3	COMPRESSOR CONTACTOR	127,136
1K4	COMPRESSOR CONTACTOR	128,135
1K5	COMPRESSOR CONTACTOR	140
1K6	COMPRESSOR CONTACTOR	131
1K7	FAN RUN REQUEST RELAY	74
1K8	VFD START COMMAND RELAY	72
1K15	STAGE 5 CONTROL RELAY	136
1K16	STAGE 6 CONTROL RELAY	133
1S1	DISCONNECT SWITCH	5
1S38	115V CONTROL CIRCUIT SWITCH	56
1S39	24V CONTROL CIRCUIT SWITCH	57
1T1	CONTROL POWER TRANS. (115V)	10,42
1T3,4,5	CONTROL POWER TRANS. (24V)	55
1TB1	LINE VOLTAGE TERMINAL BLOCK	8
1TB2,3	115VAC FACTORY TERMINAL BLOCK	
1TB4	24VAC FACTORY TERMINAL BLOCK	
1TB5	24VDC FACTORY TERMINAL BLOCK	
1TB6	115VAC FIELD TERMINAL BLOCK	
1TB7,11	24VDC FIELD TERMINAL BLOCK	
1TB8,10	115VAC FIELD TERMINAL BLOCK	
1TB9	COMM. FACTORY TERMINAL BLOCK	
1TB12	LINE VOLTAGE TERMINAL BLOCK	
1TB13	TIME CLOCK	
1U10	RTM MODULE	
1U32	MULTIPLE CIRCUIT MODULE	
1U33	HEAT MODULE	18
1U34	GENERIC BAS MODULE	
1U35	COMPARATIVE ENTHALPY MODULE	
1U36	VENTILATION OVERRIDE MODULE	
1U37	TRANSDUCER INTERFACE MODULE	
1U38	INTERPROCESSOR COMM. BRIDGE	
1U39	VENTILATION CONTROL MODULE	
1U40	WATER-SIDE MODULE	
1U41	HUMAN INTERFACE MODULE	
1U42	LONTALK COMM. INTERFACE	
1U43	PRESSURE TRANSDUCER	
1U46	PRESSURE TRANSDUCER (VCM)	
1U49	A & B COMPRESSOR	
2B2,3	COMPRESSOR C, D, E	
2B4,5,6	VFD INPUT FUSE	
7U20F16A	VFD INPUT FUSE	
7U20F16B	VFD INPUT FUSE	
7U20F16C		

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
2B2510	COMPRESSOR A WINDING TSTAT	125
2B3511	COMPRESSOR B WINDING TSTAT	138
2B4512	COMPRESSOR C WINDING TSTAT	129
2B5513	COMPRESSOR D WINDING TSTAT	141
2B6514	COMPRESSOR E WINDING TSTAT	138
2R111	ENT. CONDENSER WATER TEMP.	151
2R114	SAT. CONDENSER TEMP. CKT.1	127
2R115	SAT. CONDENSER TEMP. CKT.2	139
2R116	SAT. CONDENSER TEMP. CKT.3	153
2R117	SAT. CONDENSER TEMP. CKT.4	164
2R118	ENT. WATER TEMP. SENSOR	161
2S2	HIGH PRESSURE CUTOUT CKT.1	124
2S3	HIGH PRESSURE CUTOUT CKT.2	125
2S4	HIGH PRESSURE CUTOUT CKT.3	129,137
2S5	HIGH PRESSURE CUTOUT CKT.4	137,141
2S6	WATER FLOW SWITCH	158
2S18	LOW PRESSURE CUTOUT CKT.1	125,156
2S19	LOW PRESSURE CUTOUT CKT.2	137
2S20	LOW PRESSURE CUTOUT CKT.3	132
2S21	LOW PRESSURE CUTOUT CKT.4	144
2S40	ENT. AIR LOW TEMP. LIMIT	168
2U5	ECONOMIZER VALVE ACTUATOR	151
2U43	BYPASS VALVE ACTUATOR	155
3L2	CALIBRATION SOLENOID	210
3TB11	ELECTRIC HEATER CONNECTION	44
3TM44	ELECTRIC HEAT CONTACTOR	185,186
4B1	SUPPLY FAN MOTOR	15
4R11	SUPPLY AIR TEMP. SENSOR	91
4R14	MIXED AIR TEMP. SENSOR	174
4R77	EVAP. TEMP. SENSOR CKT.1	123
4R78	EVAP. TEMP. SENSOR CKT.2	135
4R79	EVAP. TEMP. SENSOR CKT.3	177
4R710	EVAP. TEMP. SENSOR CKT.4	179
4R711	AUX. TEMP SENSOR	213
4S8	DIRTY FILTER SWITCH	117
4S17	RETURN AIR HIGH TEMP. LIMIT	115
4S41	ENT. AIR LOW TEMP. LIMIT	204
4S42	SUPPLY AIRFLOW PROVING SWITCH	113
4S43	HYD. HEAT LEAVE. AIR TEMP. LIMIT	198
5R119	OUTDOOR AIR TEMP. SENSOR	100
5R120	RETURN AIR TEMP. SENSOR	201
5R15	MORNING WARM-UP SENSOR	186,201
5S16	SUPPLY AIR HIGH TEMP. LIMIT	115
5S22	FUSED DISCONNECT SWITCH (FIELD)	2
5S23	FUSED DISCONNECT SWITCH (FIELD)	2
5S45	PLENUM HIGH STATIC PRESSURE SW	115
5U9	ASE ACTUATOR	65,67

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
5U22	CV REMOTE PANEL	78
5U23	ZONE TEMP. SENSOR	65
5U24	REMOTE PANEL W/ RSB	86
5U25	ZONE LOW RESET	76
5U26	ZONE RESET TEMP. SENSOR	97
5U27	OUTDOOR AIR HUMIDITY SENSOR	104
5U28	REMOTE HUMAN INTERFACE MODULE	291
5U29	CV ZONE PANEL	76
5U30	REMOTE ZONE TEMP. SENSOR	88
5U47	RETURN AIR HUMIDITY SENSOR	253
5U50	CO2 SENSOR	214
6U13	HYDRONIC HEAT ACTUATOR	198,204
7F1	BYPASS PROTECTION FUSE	14
7F2	BYPASS PROTECTION FUSE	15
7F3	BYPASS PROTECTION FUSE	16
7K10	VFD BYPASS CONTACTOR	11,80
7K11	VFD OUTPUT CONTACTOR	15,76
7S28	FAN OVERLOAD RELAY	15,76
7TB1	VFD W/BYPASS FACTORY TERM BLOCK	15
7U20	VARIABLE FREQUENCY DRIVE	15,82
8RT21	SAT. CONDENSER TEMP. CKT.1	127
8RT22	SAT. CONDENSER TEMP. CKT.2	139
8U44	LOW AMBIENT DAMPER ACTUATOR	133,166
8U45	LOW AMBIENT DAMPER ACTUATOR	146
W11	RUN PERMISSION JUMPER	72
W12	EMERGENCY STOP JUMPER	115
W13	SUPP. HIGH TEMP. LIMIT JUMPER	115
W14	EXTERNAL ON/OFF JUMPER	109
W30	ENT. AIR LOW TEMP. JUMPER	160
W31	ENT. AIR LOW TEMP. JUMPER	168
W32	GBAS JUMPER	239
W39	CEM JUMPER	244

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	UNIT CONTROL PANEL
2	COMPRESSOR SECTION
3	ELECTRIC HEATER CONTROL PANEL
4	SUPPLY FAN & CONTROL
5	FIELD INSTALLED DEVICES
6	STEAM/HOT WATER HEAT SECTION
7	INVERTER CONTROL PANEL

NOTICE

USE COPPER CONDUCTORS ONLY UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO THE ABOVE COULD RESULT IN EQUIPMENT DAMAGE.

AVIS

N'UTILISER QUE DES CONDUCTEURS EN CUIVRE! LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS. FAIRE DEFAUT À LA PROCEDURE CI-DESSUS PEUT ENTAINNER DES DOMMAGES À L'EQUIPEMENT.

AVISO

UTILICE ÚNICAMENTE CONDUCTORES DE COBRE! LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES. NO SEGUIR LAS INSTRUCCIONES ANTERIORES PUEDE PROVOCAR DAÑOS EN EL EQUIPO.

⚠ WARNING

HAZARDOUS VOLTAGE!

DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. FOLLOW PROCEDURE BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED BEFORE TOUCHING ANY PART OF 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, INCLUSIVEMENT LES DISCONNECTEURS À VERROUILLAGE DES ÉTIQUETTES AVANT TOUTE INTERVENTION. VÉRIFIER QUE TOUS LES CONDENSATEURS DES MOTEURS SONT DÉCHARGÉS AVANT TOUTE INTERVENTION. SE COMPORTANT DES ENTRAÎNEMENTS À VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAÎNEMENT POUR DÉCHARGER LES CONDENSATEURS.

EL NO REALIZAR LO ANTERIORMENTE INDICADO PUEDE RESULTAR EN LESIÓN O MUERTE O SERIAS LESIONES PERSONALES.

⚠ ADVERTENCIA

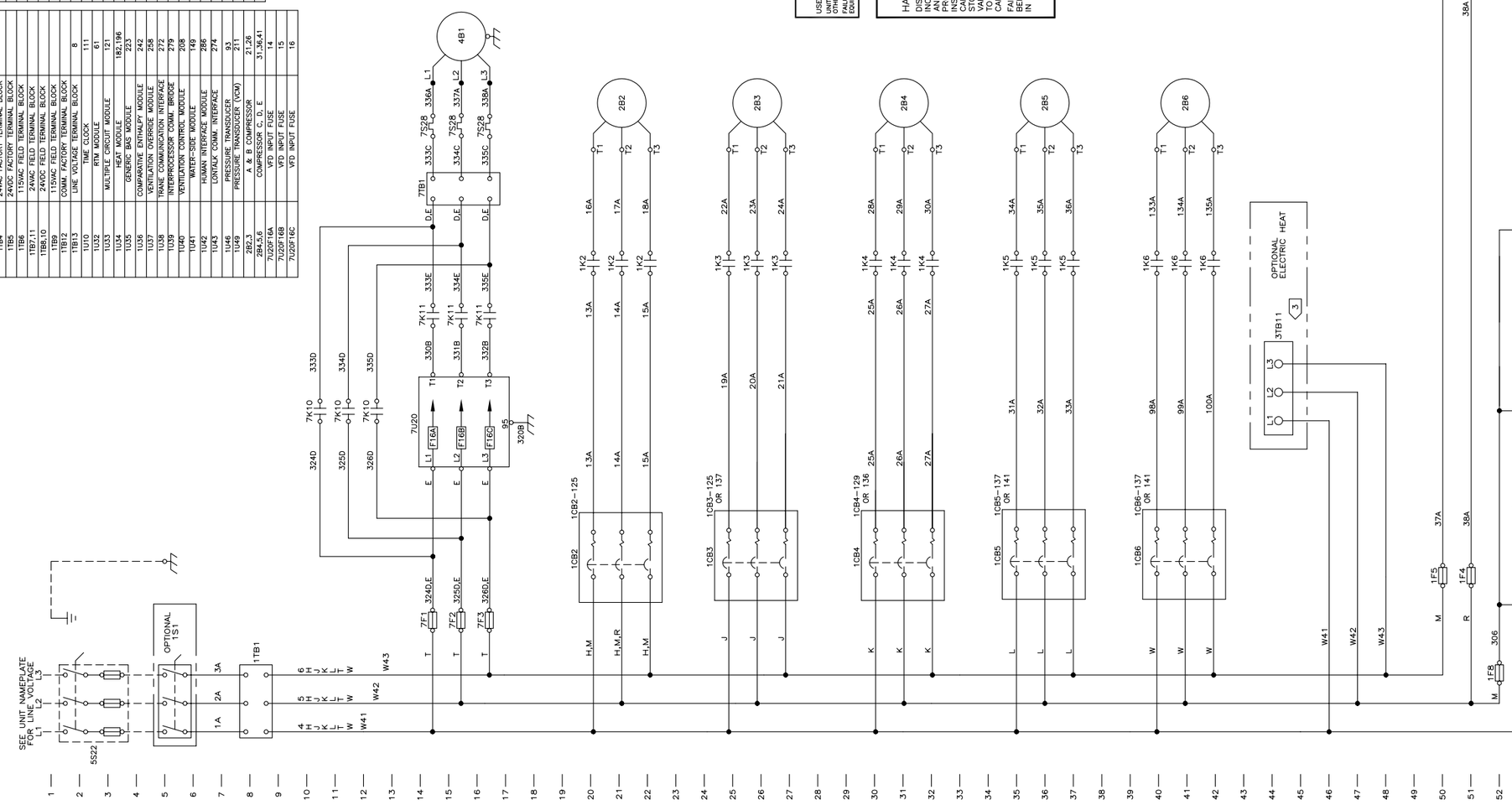
¡VOLTAJE PELIGROSO!

DESCONECTE TODA LA ENERGÍA ELÉCTRICA, INCLUSO LAS DESCONEXIONES REMOTAS Y ESPERE CINCO MINUTOS. DEBE SEGUIR ETIQUETADO ANTES DE PROCEDER A SERVICIO. ASEGÚRESE DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO ANTES DE TOCAR CUALQUIER PARTE DE UNA UNIDAD DE ACCIONAMIENTO DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR.

CN: SC5677 25-FEB-09 K. DANIELS	K	**TRANE** THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF TRANE DRAWN BY: M. PETERS ©TRANE DATE: 26-JUL-99	2307-8299	SHEET 1 OF 5	REV K
		DO NOT SCALE PRINT	THIRD ANGLE PROJECTION	SCHEMATIC DIAGRAM COMMERCIAL SELF CONTAINED VFD W/BYPASS 460V/60HZ/3PH S*WF 85 TON	

NOTES:

1 UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25°C (77°F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY, WITH ALL POWER SUPPLIES ON, 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 LINES INDICATE OPTIONAL FACTORY INSTALLED CIRCUITRY OR AVAILABLE SALES OPTIONS. SOLID LINES INDICATE WIRING BY TRANE.

3 FOR REMAINDER OF ELECTRIC HEATER CIRCUITS, SEE ELECTRICAL SCHEMATIC DIAGRAM LOCATED ON ELECTRIC HEATER CONTROL PANEL COVER.