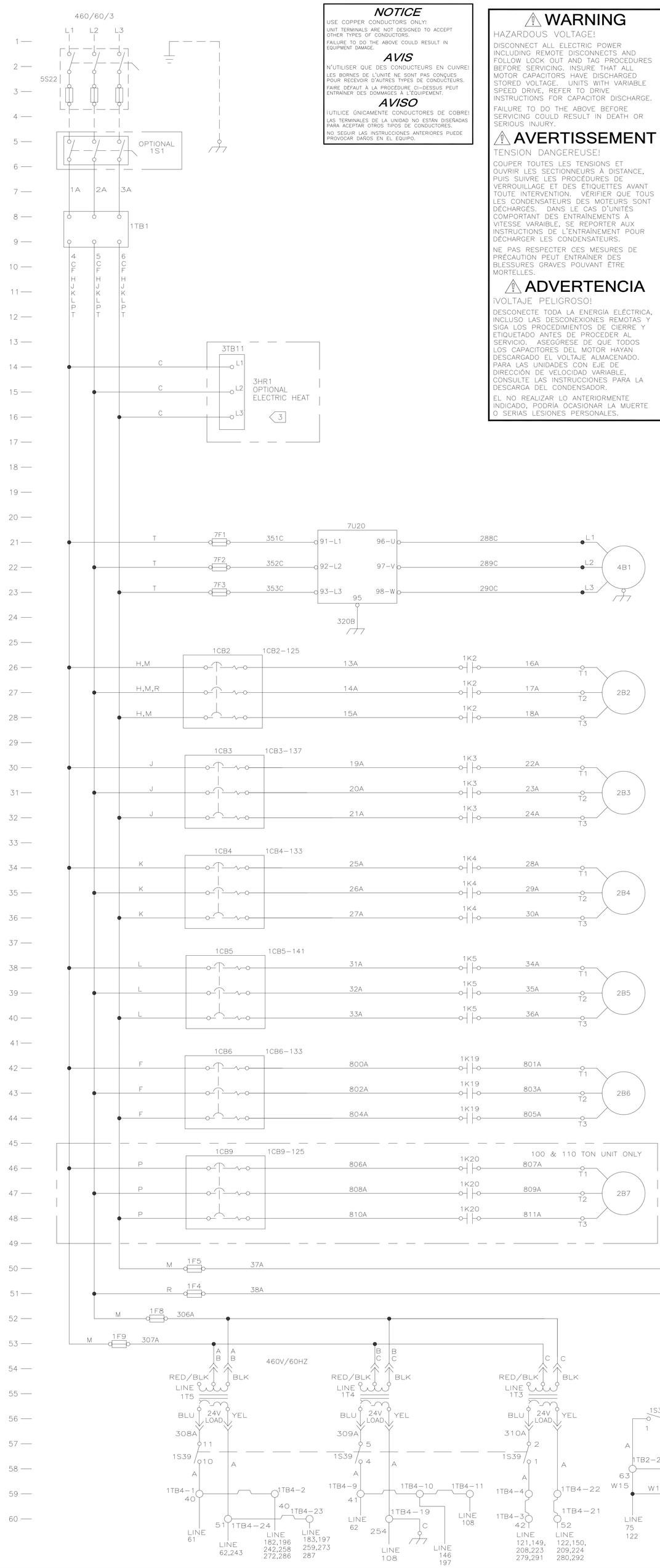

NOTICE

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 DÉFAUT À LA PROCÉDURE CI-DESSUS PEUT ENTRAÎNER DES DOMMAGES À L'ÉQUIPEMENT.

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 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 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, 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.

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1CB2	COMPRESSOR CIRCUIT BREAKER	26,138
1CB3	COMPREESOR CIRCUIT BREAKER	30,141
1CB4	COMPRESSOR CIRCUIT BREAKER	34,125
1CB5	COMPRESSOR CIRCUIT BREAKER	38,125
1CB6	COMPRESSOR CIRCUIT BREAKER	42,128
1CB9	COMPRESSOR CIRCUIT BREAKER	46,128
1F4,5	PRIMARY TRANSFORMER FUSE	51,50
1F6	SECONDARY TRANSFORMER FUSE	56
1F8,9	PRIMARY TRANSFORMER FUSE	52,53
1K2	COMPRESSOR CONTACTOR	27,137,141
1K3	COMPREESOR CONTACTOR	31,140,166
1K4	COMPRESSOR CONTACTOR	35,124,129
1K5	COMPRESSOR CONTACTOR	39,123,129
1K7	FAN RUN REQUEST RELAY	82,93
1K8	VFD START COMMAND RELAY	81,93
1K19	COMPRESSOR CONTACTOR	43,127,155
1K20	COMPRESSOR CONTACTOR	47,126,155
1S1	DISCONNECT SWITCH	5
1S38	115V CONTROL CIRCUIT SWITCH	56
1S39	24V CONTROL CIRCUIT SWITCH	57
1T1	CONTROL POWER TRANS. (115V)	53
1T3,4,5	CONTROL POWER TRANS. (24V)	54
1TB1	LINE VOLTAGE TERMINAL BLOCK	8
1TB2,3	115VAC FACTORY TERMINAL BLOCK	
1TB4	24VAC FACTORY TERMINAL BLOCK	
1TB5	24VDC FACTORY TERMINAL BLOCK	
1TB7,11	24VAC FIELD TERMINAL BLOCK	
1TB8,10	24VDC FIELD TERMINAL BLOCK	
1TB9	115VAC FIELD TERMINAL BLOCK	
1TB12	COMM. FACTORY TERMINAL BLOCK	
1U10	TIME CLOCK	111
1U32	RTM MODULE	61
1U33	MULTIPLE CIRCUIT MODULE	121
1U34	HEAT MODULE	182,196
1U35	GENERIC BAS MODULE	223
1U36	COMPARATIVE ENTHALPY MODULE	242
1U37	VENTILATION OVERRIDE MODULE	258
1U38	TRANE COMMUNICATION INTERFACE	272
1U40	VENTILATION CONTROL MODULE	208
1U41	WATER-SIDE MODULE	149
1U42	HUMAN INTERFACE MODULE	286
1U43	LONTALK COMM. INTERFACE	286
1U46	PRESSURE TRANSDUCER	93
1U49	PRESSURE TRANSDUCER (VCM)	210

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

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
2B2,3	COMPRESSOR A,B	26,30
2B4,5	COMPRESSOR C,D	34,38
2B6,9	COMPRESSOR E,F	42,46
2B2S10	COMPRESSOR WINDING T'STAT	138
2B3S11	COMPRESSOR WINDING T'STAT	141
2B4S12	COMPRESSOR WINDING T'STAT	125
2B5S13	COMPRESSOR WINDING T'STAT	125
2B6S14	COMPRESSOR WINDING T'STAT	128
2B7S15	COMPRESSOR WINDING T'STAT	128
2RT11	ENT. CONDENSER WATER TEMP.	151
2RT14	SAT. CONDENSER TEMP. CKT.1	127
2RT15	SAT. CONDENSER TEMP. CKT.2	139
2RT16	SAT. CONDENSER TEMP. CKT.3	153
2RT17	SAT. CONDENSER TEMP. CKT.4	164
2RT18	ENT. WATER TEMP. SENSOR	161
2S2	HIGH PRESS CUTOUT COMPR A	138
2S3	HIGH PRESS CUTOUT COMPR B	141
2S4	HIGH PRESS CUTOUT COMPR C	125
2S5	HIGH PRESS CUTOUT COMPR D	125
2S6	WATER FLOW SWITCH	158
2S9	HIGH PRESS CUTOUT COMPR E	128
2S10	HIGH PRESS CUTOUT COMPR F	128
2S18	LOW PRESSURE CUTOUT COMPR A	137
2S19	LOW PRESSURE CUTOUT COMPR B	144
2S20	LOW PRESSURE CUTOUT COMPR C	125
2S21	LOW PRESSURE CUTOUT COMPR D	125
2S29	LOW PRESSURE CUTOUT COMPR E	132
2S30	LOW PRESSURE CUTOUT COMPR F	132
2S40	ENT. AIR LOW TEMP. LIMIT	168
2U5	ECONOMIZER VALVE ACTUATOR	151
2U43	BYPASS VALVE ACTUATOR	155
3HR1	ELECTRIC HEAT	14,185,192
3L2	CALIBRATION SOLENOID	210
3TB11	ELECTRIC HEATER CONNECTION	14
3TB14	ELECTRIC HEATER CONNECTION	185,186,192,193
4B1	SUPPLY FAN MOTOR	22
4RT1	SUPPLY AIR TEMP. SENSOR	91
4RT4	MIXED AIR TEMP. SENSOR	174
4RT7	EVAP. TEMP. SENSOR CKT.1	123
4RT8	EVAP. TEMP. SENSOR CKT.2	135
4RT9	EVAP. TEMP. SENSOR CKT.3	177
4RT10	EVAP. TEMP. SENSOR CKT.4	179
4RT11	AUX. TEMP SENSOR	213
4S8	DIRTY FILTER SWITCH	117
4S17	RETURN AIR HIGH TEMP. LIMIT	105
4S41	ENT. AIR LOW TEMP. LIMIT	204
4S42	SUPPLY AIRFLOW PROVING SWITCH	113
4S43	HYD. HEAT LEAVE. AIR TEMP. LIMIT	198
5RT19	OUTDOOR AIR TEMP. SENSOR	100
5RT20	RETURN AIR TEMP. SENSOR	251
5RT5	MORNING WARM-UP SENSOR	186,200
5S16	SUPPLY AIR HIGH TEMP. LIMIT	105
5S22	FUSED DISCONNECT SWITCH	2
5S45	PLENUM HIGH STATIC PRESSURE SW	105
5U9	ASE ACTUATOR	64
5U23	ZONE TEMP. SENSOR	61
5U24	REMOTE PANEL W/ NSB	84
5U25	VAV REMOTE PANEL	65
5U26	ZONE RESET TEMP. SENSOR	97
5U27	OUTDOOR AIR HUMIDITY SENSOR	103
5U30	REMOTE ZONE TEMP. SENSOR	88
5U47	RETURN AIR HUMIDITY SENSOR	253
5U50	CO2 SENSOR	214
6U13	HYDRONIC HEAT ACTUATOR	198
7F1	VFD INPUT FUSE	21
7F2	VFD INPUT FUSE	22
7F3	VFD INPUT FUSE	23
7U20	VARIABLE FREQUENCY DRIVE	21,87
W11	RUN PERMISSION JUMPER	81
W12	EMERGENCY STOP JUMPER	105
W13	SUPP. HIGH TEMP. LIMIT JUMPER	105
W14	EXTERNAL AUTO/STOP JUMPER	109
W31	ENT. AIR LOW TEMP. JUMPER	168
W32	GBAS JUMPER	239
W39	CEM JUMPER	244

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 LINES INDICATE WIRING BY TRANE.

3. WIRING SHOWN IS NOT SUITABLE FOR FIELD INSTALLED ELECTRIC HEATERS. FOR REMAINDER OF ELECTRIC HEATER CIRCUITS, SEE ELECTRICAL SCHEMATIC DIAGRAM LOCATED ON ELECTRIC HEATER CONTROL PANEL COVER.

CN SC5677
26-FEB-09
K. DANIELS
J

DO NOT SCALE PRINT

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DRAWN BY: MCCLELLAN © TRANE DATE: 16-NOV-00

THIRD ANGLE PROJECTION

2309-4601

SCHEMATIC DIAGRAM
COMMERCIAL SELF CONTAINED
W/VFD W/SINGLE POINT POWER
460V/60HZ/3PH
S*WF 90-110 TON

SHEET 1 OF 5

REV. J