

NOTICE
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT
OTHER TYPES OF CONDUCTORS.
EQUIPMENT DAMAGE.

AVISO
N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!
LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES
POUR ACCEPTER D'AUTRES TYPES DE
CÂBLES. L'UTILISATION D'AUTRES CÂBLES
PEUT ENTRAINER DES DOMMAGES À L'ÉQUIPEMENT.

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

WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER
INCLUDING REMOTE DISCONNECTS AND
FAN RUN BEFORE WORKING ON
ELECTRIC PARTS. INSURE THAT
MOTOR CAPACITORS HAVE DISCHARGED
BEFORE SERVICE. 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
Y COMPRIS LES DÉCONNECTS À DISTANCE,
PUIS SUIVRE LES PROCÉDURES DE
VERROUILLAGE ET DES ÉTIQUETTES AVANT
TOUTE INTERVENTION. VÉRIFIER QUE TOUS
LES CONDENSATEURS DES MOTEURS SONT
DÉCHARGÉS AVANT DE TRAVAILLER SUR LES
UNITÉS. UNITS 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.

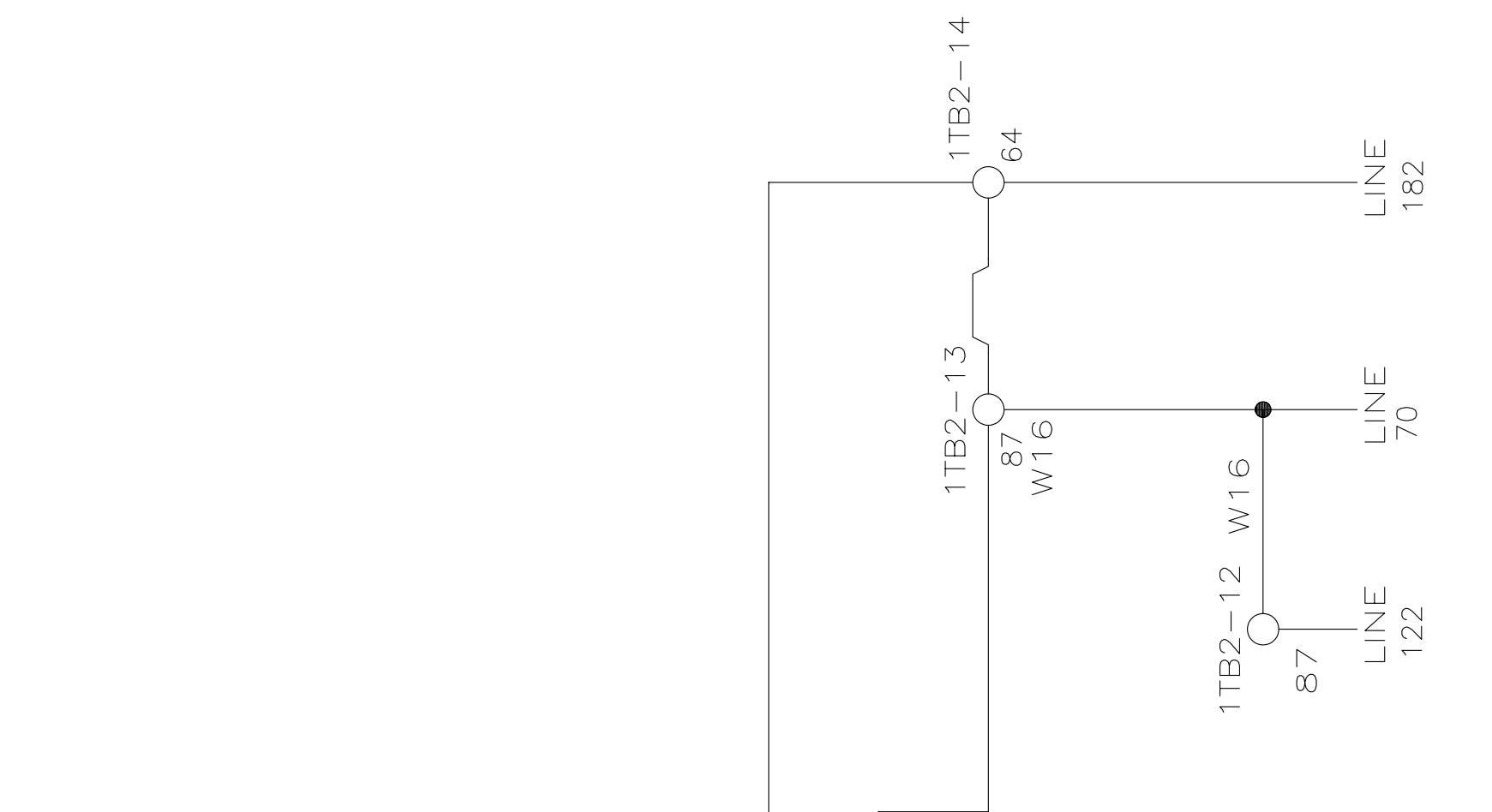
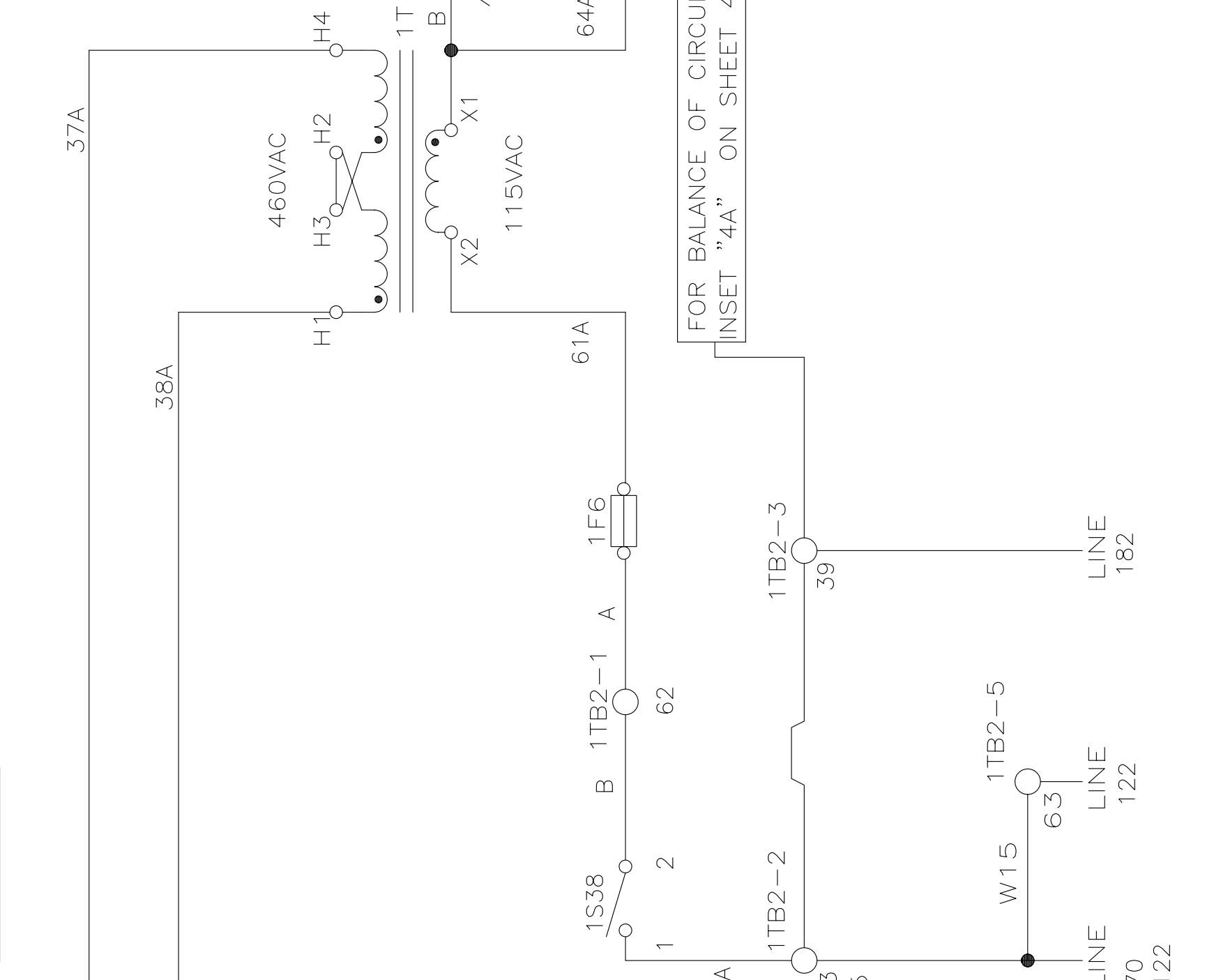
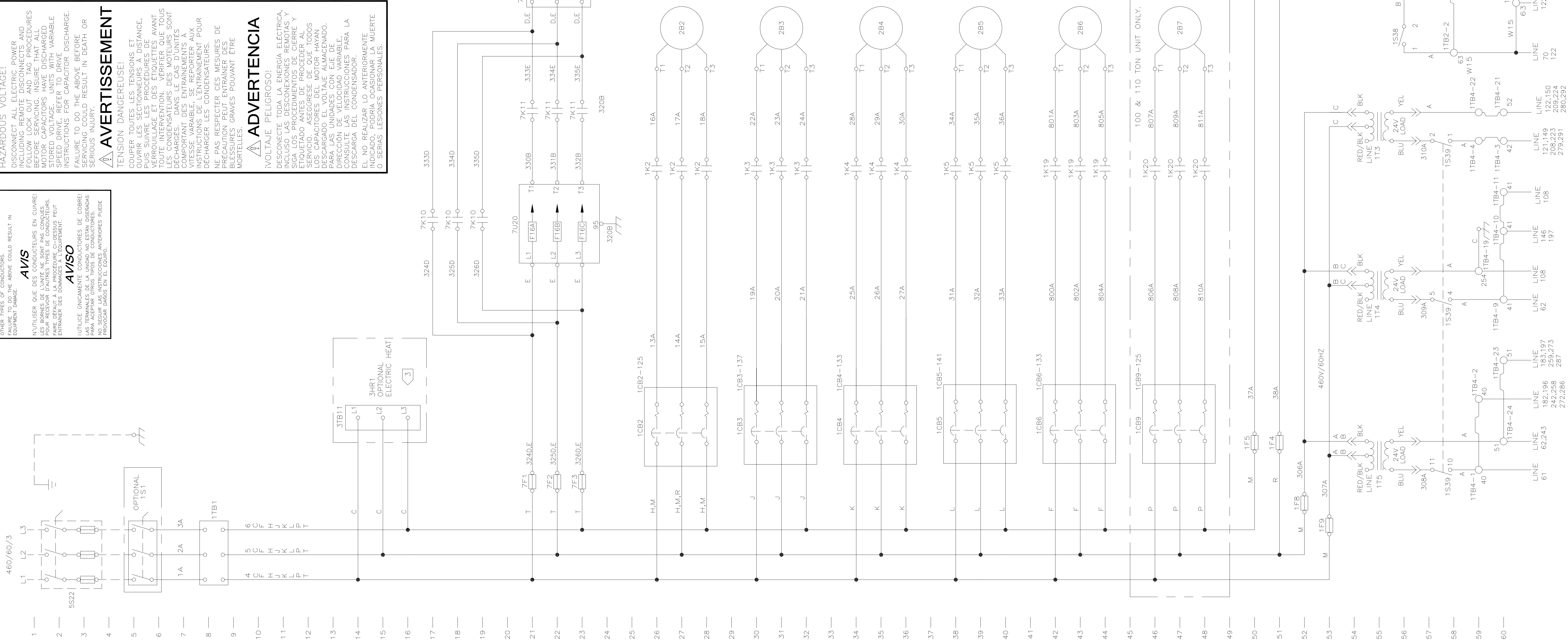
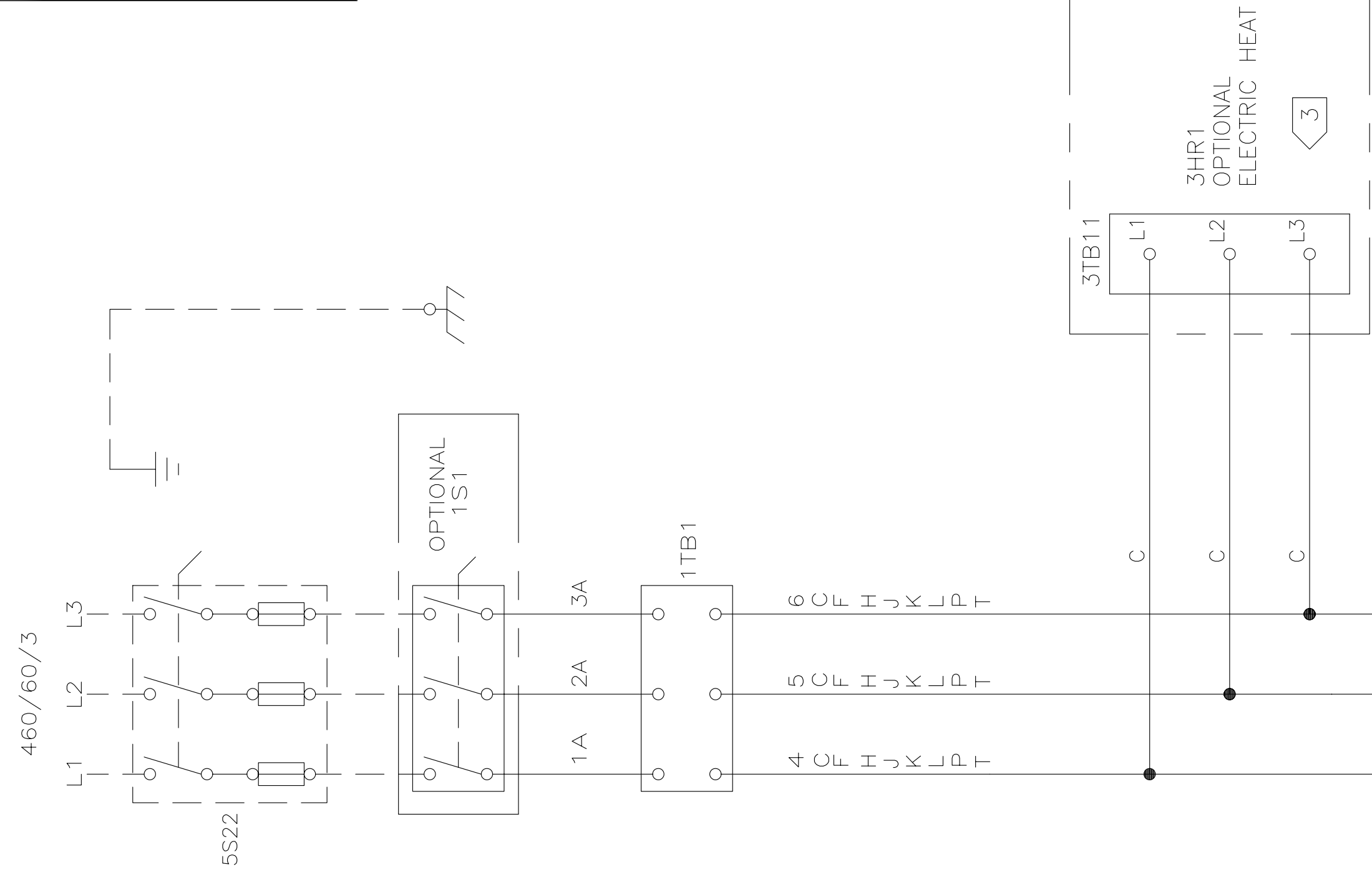
ADVERTENCIA
VOLTAJE PELIGROSO!
DESCONECTE TODA LA ENERGÍA ELÉCTRICA,
INCLUIDOS LOS DESCONECTOS A DISTANCIA,
SIGA LOS PROCEDIMIENTOS DE CIERRE Y
ETIQUETADO ANTES DE PROCEDER AL
SERVICIO. ASEGÚRESE DE QUE TODOS
LOS CAPACITORES DEL MOTOR HAYAN
DESCHARGADO ANTES DE TRABAJAR EN
PARA LAS UNIDADES CON C/E DE
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.

DEVICE DESIGNATION	LEGEND	DESCRIPTION	LINE NUMBER
1CB2		COMPRESSOR CIRCUIT BREAKER	26,138
1CB3		COMPRESSOR CIRCUIT BREAKER	30,141
1CB4		COMPRESSOR CIRCUIT BREAKER	38,125
1CB5		COMPRESSOR CIRCUIT BREAKER	42,128
1CB6		COMPRESSOR CIRCUIT BREAKER	46,128
1FA5		PRIMARY TRANSFORMER FUSE	51,50
1F6		SECONDARY TRANSFORMER FUSE	56
1FB9		PRIMARY TRANSFORMER FUSE	52,53
1K2		COMPRESSOR CONTACTOR	26,137,141
1K3		COMPRESSOR CONTACTOR	30,140,166
1K4		COMPRESSOR CONTACTOR	38,124,129
1K5		COMPRESSOR CONTACTOR	38,123,129
1K7		FAN RUN REQUEST RELAY	74,80,103
1K8		VFD START COMMAND RELAY	72,78,93
1K19		COMPRESSOR CONTACTOR	42,127,155
1K20		COMPRESSOR CONTACTOR	46,126,155
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
7U20FT6A		VFD INPUT FUSE	21
7U20FT6B		VFD INPUT FUSE	22
7U20FT6C		VFD INPUT FUSE	23

DEVICE DESIGNATION	LEGEND	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		COMPR. A WINDING T'STAT	138
2B3S11		COMPR. B WINDING T'STAT	141
2B4S12		COMPR. C WINDING T'STAT	125
2B5S13		COMPR. D WINDING T'STAT	125
2B6S14		COMPR. E WINDING T'STAT	128
2B7S15		COMPR. F 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
252		HIGH PRES. CUTOUT COMPR A	138
253		HIGH PRES. CUTOUT COMPR B	141
254		HIGH PRES. CUTOUT COMPR C	133
255		HIGH PRES. CUTOUT COMPR D	125
256		WATER FLOW SWITCH	198
259		HIGH PRES. CUTOUT COMPR E	133
2S10		HIGH PRES. CUTOUT COMPR F	125
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	21
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
4S17		DIRTY FILTER SWITCH	117
4S18		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
5RT19		OUTDOOR AIR TEMP. SENSOR	100
5RT20		RETURN AIR TEMP. SENSOR	251
5RT5		MORNING WARM-UP SENSOR	186,201
5S16		SUPPLY AIR HIGH TEMP. LIMIT	115
5S22		FUSED DISCONNECT SWITCH	2
5S45		PLENUM HIGH STATIC PRESSURE SW	115
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		BYPASS PROTECTION FUSE	21
7F2		BYPASS PROTECTION FUSE	22
7F3		BYPASS PROTECTION FUSE	23
7K10		VFD BYPASS CONTACTOR	17,18,19,78,80
7K11		VFD OUTPUT CONTACTOR	21,22,23,78,80,94
7S28		FAN OVERLOAD RELAY	21,22,23,78
7TB1		VFD W/BYPASS FACTORY TERM. BLK	21,22,23
7U20		VARIABLE FREQUENCY DRIVE	21,87
W12		EMERGENCY STOP JUMPER	115
W13		SUPP. HIGH TEMP. LIMIT JUMPER	115
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 NO HUMIDITY SENSING OCCURRED, AFTER A NORMAL SHUTDOWN HAS OCCURRED.
 - 2 DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES INDICATE FIELD WIRING BY THE FIELD. PHANTOM 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.

460/60/3



CN SC5677
25-FEB-09
K. DANIELS

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DRAWN BY: MCCLELLAN
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DO NOT SCALE PRINT
THIRD ANGLE PROJECTION

2309-4602
SHEET 1 OF 5
REV J

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