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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 ENTRAINER DES DOMMAGES À L'ÉQUIPEMENT.

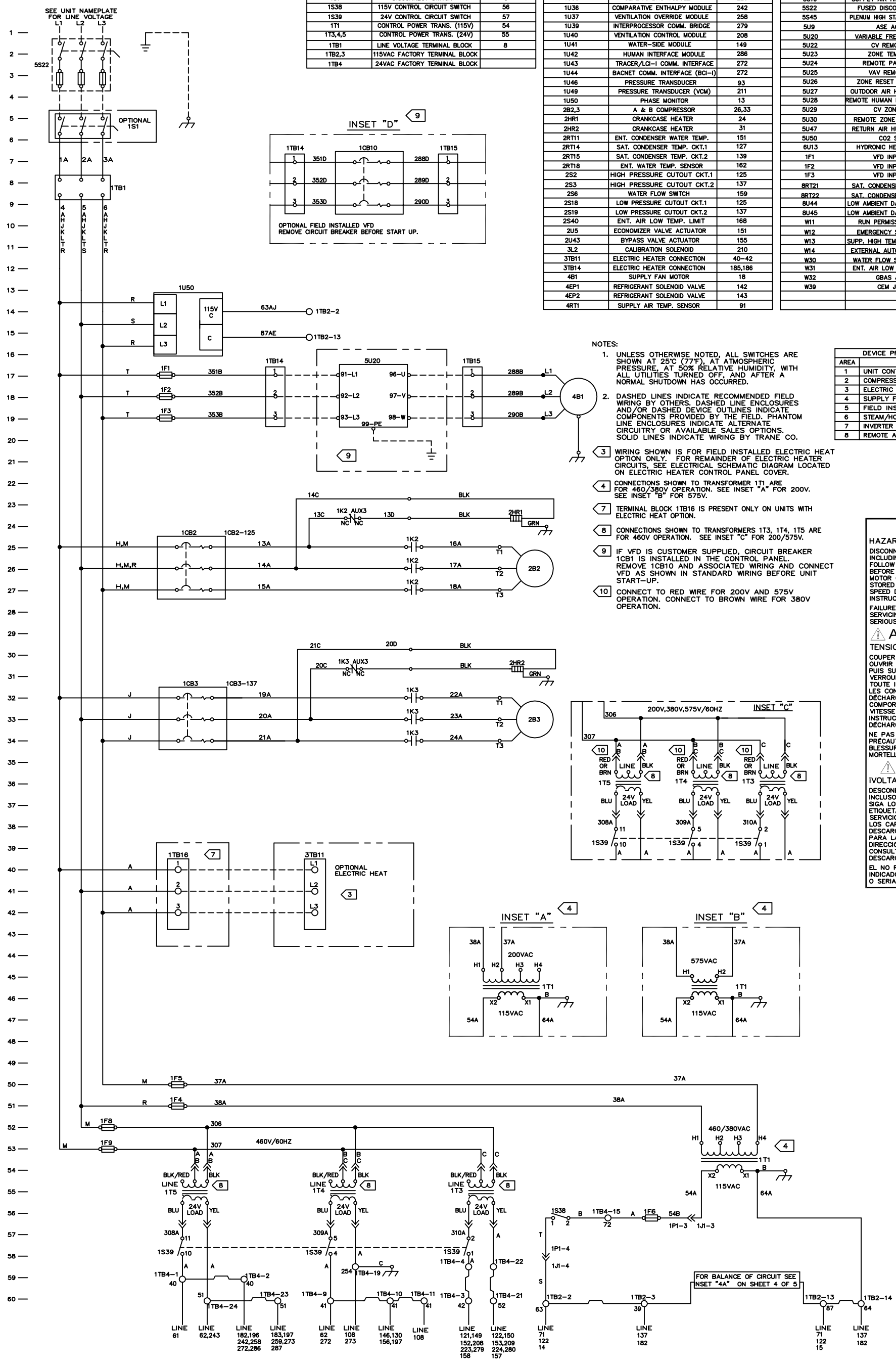
AVISO

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

DEVICE DESIGNATION	LEGEND DESCRIPTION	LINE NUMBER
1CB2	COMPRESSOR CIRCUIT BREAKERS	25–27, 125
1CB3	COMPRESSOR CIRCUIT BREAKERS	32–34, 137
1CB10	MANUAL MOTOR STARTER	7–8
1DL1	TIME DELAY RELAY	141
1DL2	TIME DELAY RELAY	145
1F4,5	TRANS. PRIMARY FUSE	50,51
1F6	TRANS. SECONDARY FUSE	56
1F8,9	TRANS. PRIMARY FUSE	52,53
1K1	FAN CONTACTOR	86
1K2	COMPRESSOR CONTACTOR	124
1K3	COMPRESSOR CONTACTOR	136
1K7	FAN RUN REQUEST RELAY	81, 88
1K8	VFD START COMMAND RELAY	79
1S1	DISCONNECT SWITCH	5
1S38	115V CONTROL CIRCUIT SWITCH	56
1S39	24V CONTROL CIRCUIT SWITCH	57
1T1	CONTROL POWER TRANS. (115V)	54
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	

DEVICE DESIGNATION	LEGEND DESCRIPTION	LINE NUMBER
1TB5	24VDC FACTORY TERMINAL BLOCK	
1TB6	115VAC FIELD TERMINAL BLOCK	
1TB7,11	24VAC FIELD TERMINAL BLOCK	
1TB8,10	24VDC FIELD TERMINAL BLOCK	
1TB9	115VAC FIELD TERMINAL BLOCK	
1TB12	COMM. FACTORY TERMINAL BLOCK	
1TB14	VFD INPUT POWER CONNECTIONS	17–19
1TB15	VFD OUTPUT POWER CONNECTIONS	17–19
1TB16	200/460V ELECT. HEAT CONNECT	40–42
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
1U39	INTERPROCESSOR COMM. BRIDGE	279
1U40	VENTILATION CONTROL MODULE	208
1U41	WATER-SIDE MODULE	149
1U42	HUMAN INTERFACE MODULE	286
1U43	TRACER/LCI-I COMM. INTERFACE	272
1U44	BACNET COMM. INTERFACE (BCI-I)	272
1U46	PRESSURE TRANSDUCER	93
1U49	PRESSURE TRANSDUCER (VCM)	211
1U50	PHASE MONITOR	13
2B2,3	A & B COMPRESSOR	26,33
2HR1	CRANKCASE HEATER	24
2HR2	CRANKCASE HEATER	31
2RT11	ENT. CONDENSER WATER TEMP.	151
2RT14	SAT. CONDENSER TEMP. CKT.1	127
2RT15	SAT. CONDENSER TEMP. CKT.2	139
2RT18	ENT. WATER TEMP. SENSOR	162
2S2	HIGH PRESSURE CUTOUT CKT.1	125
2S3	HIGH PRESSURE CUTOUT CKT.2	137
2S6	WATER FLOW SWITCH	159
2S18	LOW PRESSURE CUTOUT CKT.1	125
2S19	LOW PRESSURE CUTOUT CKT.2	137
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	40–42
3TB14	ELECTRIC HEATER CONNECTION	185,186
4B1	SUPPLY FAN MOTOR	18
4EP1	REFRIGERANT SOLENOID VALVE	142
4EP2	REFRIGERANT SOLENOID VALVE	143
4RT1	SUPPLY AIR TEMP. SENSOR	91

DEVICE DESIGNATION	LEGEND DESCRIPTION	LINE NUMBER
4RT4	MIXED AIR TEMP. SENSOR	174
4RT7	EVAP. TEMP. SENSOR CKT.1	123
4RT8	EVAP. TEMP. SENSOR CKT.2	135
4RT11	AUX. TEMP SENSOR	213
4S8	DIRTY FILTER SWITCH	117
4S17	RETURN AIR HIGH TEMP. LIMIT	106
4S41	ENT. AIR LOW TEMP. LIMIT	204
4S42	SUPPLY AIRFLOW PROVING SWITCH	113
4S43	HYD. HEAT LEAVE. AIR TEMP. LIMIT	198
4U7	INLET GUIDE VANE ACTUATOR	66
5RT5	MORNING WARM-UP SENSOR	186,201
5RT19	OUTDOOR AIR TEMP. SENSOR	100
5RT20	RETURN AIR TEMP. SENSOR	251
5S16	SUPPLY AIR HIGH TEMP. LIMIT	106
5S22	FUSED DISCONNECT SWITCH	2
5S45	PLENUM HIGH STATIC PRESSURE SW	106
5U9	ASE ACTUATOR	65, 71
5U20	VARIABLE FREQUENCY DRIVE	18, 91
5U22	CV REMOTE PANEL	78
5U23	ZONE TEMP. SENSOR	65
5U24	REMOTE PANEL W/ NSB	86
5U25	VAV REMOTE PANEL	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
1F1	VFD INPUT FUSE	17
1F2	VFD INPUT FUSE	18
1F3	VFD INPUT FUSE	19
8RT21	SAT. CONDENSER TEMP. CKT.1	127
8RT22	SAT. CONDENSER TEMP. CKT.2	139
8U44	LOW AMBIENT DAMPER ACTUATOR	133
8U45	LOW AMBIENT DAMPER ACTUATOR	147
W11	RUN PERMISSION JUMPER	79, 86
W12	EMERGENCY STOP JUMPER	106
W13	SUPP. HIGH TEMP. LIMIT JUMPER	106
W14	EXTERNAL AUTO/STOP JUMPER	109
W30	WATER FLOW SWITCH JUMPER	159
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 CO.

3 WIRING SHOWN IS FOR FIELD INSTALLED ELECTRIC HEAT OPTION ONLY. FOR REMAINDER OF ELECTRIC HEATER CIRCUITS, SEE ELECTRICAL SCHEMATIC DIAGRAM LOCATED ON ELECTRIC HEATER CONTROL PANEL COVER.

4 CONNECTIONS SHOWN TO TRANSFORMER 1T1 ARE FOR 460/380V OPERATION. SEE INSET "A" FOR 200V. SEE INSET "B" FOR 575V.

7 TERMINAL BLOCK 1TB16 IS PRESENT ONLY ON UNITS WITH ELECTRIC HEAT OPTION.

8 CONNECTIONS SHOWN TO TRANSFORMERS 1T3, 1T4, 1T5 ARE FOR 460V OPERATION. SEE INSET "C" FOR 200/575V.

9 IF VFD IS CUSTOMER SUPPLIED, CIRCUIT BREAKER 1CB1 IS INSTALLED IN THE CONTROL PANEL. REMOVE 1CB10 AND ASSOCIATED WIRING AND CONNECT VFD AS SHOWN IN STANDARD WIRING BEFORE UNIT START-UP.

10 CONNECT TO RED WIRE FOR 200V AND 575V OPERATION. CONNECT TO BROWN WIRE FOR 380V OPERATION.

AREA	DEVICE PREFIX LOCATION CODE 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
8	REMOTE AIR COOLED COND SECTION (CCRB)

⚠ 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.

CT: 1167379
11-NOV-2014
G. DUNN
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DO NOT SCALE PRINT

THIRD ANGLE PROJECTION

TRANE
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DRAWN BY: M. PETERS © TRANE DATE: 07-JAN-99

SCHEMATIC WIRING DIAGRAM

COMMERCIAL SELF CONTAINED

W/VFD

200V, 380V, 460V, 575V/60HZ/3PH
S*WG 20-35 TON & S*RG 20-32 TON

2307-8271

SHEET 1 OF 5

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