

TABLE of CONTENTS

TRANE		23094622	SHEET 1 OF 11	REV R
THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF TRANE. © TRANE DATE: 22-APR-2013		SCHEMATIC		
REPLACES:		RTAC		
REVISION DATE: 14-MAR-2022		3 COMPRESSOR UNIT WYE-DELTA STARTER		
SIMILAR TO:		TABLE of CONTENTS & NOTES		

COLOR CODE	EN ENGLISH	FR FRENCH	DE GERMAN	IT ITALIAN	NL DUTCH	ES SPANISH
BLK	BLACK	NOIR	SCHWARZ	NERO	ZWART	NEGRO
BRN	BROWN	BRUN	BRAUN	MARRONE	BRUIN	MARRON
BLU	BLUE	BLEU	BLAU	BLU	BLAUW	AZUL
GRN	GREEN	VERT	GRUEN	VERDE	GROEN	VERDE
ORN	ORANGE	ORANGE	ORANGE	ARANCIONE	ORANJE	NARANJA
RED	RED	ROUGE	ROT	ROSSO	ROOD	ROJO
VIO	PURPLE	VIOLET	VIOLETT	VIOLA	PAARS	VIOLETA
WHT	WHITE	BLANC	WEISS	BIANCO	WIT	BLANCO
YEL	YELLOW	JAUNE	GELB	GIALLO	GEEL	AMARILLO

TABLE OF CONTENTS		
TITLE	LINE NUMBERS	SHEET
TABLE OF CONTENTS & NOTES	N/A	1
DEVICES, DESCRIPTIONS & DESIGNATIONS	N/A	2
COMPRESSOR POWER 1A & FAN CONTROL CIRCUIT 1	1-60	3
COMPRESSOR POWER 1B	61-120	4
COMPRESSOR POWER 2A & FAN CONTROL CIRCUIT 2	121-180	5
FAN POWER CIRCUIT 1	181-240	6
FAN POWER CIRCUIT 2	241-300	7
COMMON CONTROL- PANEL LIID’S	301-360	8
COMMON CONTROL – PANEL LIID’S	361-420	9
COMMON CONTROL – FRAME LLID’S	421-480	10
OPTIONAL CE MARK WIRING CONFIGURATION REFERENCE SHEET	481-540	11

GENERAL & FLAG NOTES

NOTES:

- 1
- DASHED LINES INDICATE FIELD WIRING BY OTHERS.
- 2
- ALL UNIT POWER WIRING MUST BE COPPER CONDUCTORS ONLY AND HAVE A MINIMUM TEMPERATURE INSULATION RATING OF 90 DEGREE C. SEE UNIT NAMEPLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM FUSE SIZE.
- 3
- ONLY LUGS ARE PROVIDED FOR FIELD WIRING IN THE SINGLE SOURCE PANEL.
- 4
- WIRING FOR 460V UNIT SHOWN. SEE INSET "A" FOR CONTROL POWER TRANSFORMER WIRING FOR OTHER VOLTAGES.
- 5
- SINGLE SOURCE POWER OPTIONS ARE AVAILABLE WHEN VOLT = 400, 460 OR 575. DUAL SOURCE POWER IS PROVIDED WHEN VOLT = 200, 230 OR 380.
- 6
- FOR LOW AND WIDE AMBIENT OPTION, 1K9 IS NOT PRESENT. SEE INSET "C"
- 7
- EVAPORATOR HEATER COMPONENTS 6TS1, 6HR1, 6HR2, 6HR3, 6HR4 AND ASSOCIATED WIRING ARE STANDARD ON ALL RTAC PRODUCTS WITH A UNIT MOUNTED EVAPORATOR.
- 8
- OPTIONAL CUSTOMER CONVENIENCE OUTLET. MAX FUSE SIZE IS 25 AMPS.
- 9
- WIRING FOR 460V UNIT SHOWN. SEE INSET "D" FOR CONTROL POWER TRANSFORMER WIRING FOR OTHER VOLTAGES.
- 10
- FOR LOW AND WIDE AMBIENT OPTION, 2K9 IS NOT PRESENT. SEE INSET "F"
- 11
- UNITS WITHOUT THE CONTROL PANEL VENTILATION FAN ARE WIRED AS SHOWN. SEE INSET "B" FOR WIRING WHEN THE VENTILATION FAN IS PROVIDED.
- 12
- REFERENCE INSET "G" FOR 3B3 AND 3B13 WIRING WITH LOW AMBIENT OR WIDE AMBIENT TEMPERATURE OPTION.
- 13
- CIRCUIT 1 FAN DECK CONFIGURATIONS FOR VARIOUS TONNAGES, EFFICIENCIES AND HZ ARE SHOWN IN INSET "H".
- 14
- TRANSFORMER 1T10, 1T11 AND ASSOCIATED WIRES USED ONLY ON 575V 60HZ UNITS. ON 575V UNITS WIRES 31A, 32A AND 33A CONNECT TO TERMINALS H1, H2 AND H3 ON 1T10 AND WIRES 47A, 48A AND 49A CONNECT TO TERMINALS H1, H2 AND H3 ON 1T11.
- 15
- REFERENCE INSET "I" FOR 4B3 WITH LOW AMBIENT OR WIDE AMBIENT TEMPERATURE OPTION.
- 16
- TRANSFORMER 2T10 AND ASSOCIATED WIRES USED ONLY ON 575V 60HZ UNITS. WIRES 531A, 532A & 533A CONNECT TO TERMINALS H1, H2 & H3 ON 2T10.
- 17
- REMOVE JUMPER W3 BETWEEN 1TB6-5 AND 1TB6-3 WHEN 5K1 AUX IS INSERTED INTO THE EVAPORATOR WATER FLOW INTERLOCK CIRCUIT.
- 18
- CONTROLS & ASSOCIATED WIRING ARE USED ONLY WHEN THE CONTROL PANEL VENTILATION FAN IS PROVIDED.
- 19
- FOR LOW & WIDE AMBIENT OPTION HEATERS & THERMOSTAT REQUIRED. – "NO LONGER USED"
- 20
- OPTIONAL CE MARK WIRING CONFIGURATION, REFERENCE SHEET 11 FOR DETAIL VIEWS.
- 21
- OPTIONAL CE MARK FAN MOTOR BONDING AT GREEN/YELLOW 1TB7 OR 2TB7 CHASSIS GROUND TERMINAL BLOCKS.

 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 A DISTANCE, PUIS SUIVRE LES PROCEDURES DE VERROUILLAGE ET DES ETIQUETTES AVANT TOUTE INTERVENTION. VERIFIER QUE TOUTS LES CONDENSATEURS DES MOTEURS SONT DECHARGES. DANS LE CAS D'UNITES COMPORTANT DES ENTRAINEMENTS A VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAINEMENT POUR DECHARGER LES CONDENSATEURS. NE PAS RESPECTER CES MESURES DE PRECAUTION 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.
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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.	PRECAUCIÓN 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.	ATTENTION ¡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.
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THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF TRANE. DRAWN BY: C. WALLS © TRANE DATE: 22-APR-2013	TRANE	23094622	SHEET 2 OF 11	REV R
	REPLACES:	SCHEMATIC		
	REVISION DATE: 14-MAR-2022	RTAC		
	SIMILAR TO:	3 COMPRESSOR UNIT WYE-DELTA STARTER		
		DEVICES, DESCRIPTIONS & DESIGNATIONS		

DEVICES, DESCRIPTIONS & DESIGNATIONS

LEGEND		
DEVICE DESIGNATION	LINE NUMBER	DESCRIPTION
RTAC PANEL COMPONENTS, CONTROL PANEL 1		
1B1	21	PANEL VENTILATION FAN
1CB1	3	HACR CIRCUIT BREAKER, CIRCUIT 1
1F1-3	183-185	CONDENSER FAN FUSES, CIRCUIT 1
1F4-6	208-210	CONDENSER FAN FUSES, CIRCUIT 1
1F7-9	220-222	CONDENSER FAN FUSES, CIRCUIT 1
1F10-12	231-233	CONDENSER FAN FUSES, CIRCUIT 1
1F13-14	185	CONTROL POWER TRANSFORMER PRIMARY FUSES
1F15	17	CONTROL POWER TRANSFORMER SECONDARY FUSE, 115 VOLT CIRCUIT
1F16, 1F17	15,16	CONTROL POWER TRANSFORMER SECONDARY FUSE, LOW VOLTAGE CIRCUIT
1F18-20	183-185	INVERTER DRIVE 1 FUSES, CIRCUIT 1
1F21-23	196-198	INVERTER DRIVE 2 FUSES, CIRCUIT 1
1K1	42	START CONTACTOR, COMPRESSOR 1A
1K2	45	YD RUN CONTACTOR, COMPRESSOR 1A
1K3	48	YD SHORTING CONTACTOR, COMPRESSOR 1A
1K4	51	YD TRANSITION CONTACTOR, COMPRESSOR 1A
1K5	94	START CONTACTOR, COMPRESSOR 1B
1K6	97	YD RUN CONTACTOR, COMPRESSOR 1B
1K7	100	YD SHORTING CONTACTOR, COMPRESSOR 1B
1K8	103	YD TRANSITION CONTACTOR, COMPRESSOR 1B
1K9	23	CONDENSER FAN CONTACTOR, CIRCUIT 1
1K10	26	CONDENSER FAN CONTACTOR, CIRCUIT 1
1K11	29	CONDENSER FAN CONTACTOR, CIRCUIT 1
1K12	32	CONDENSER FAN CONTACTOR, CIRCUIT 1
1K13	33	CONDENSER FAN CONTACTOR, CIRCUIT 1
1K14	10	CONDENSER FAN CONTACTOR, CIRCUIT 1
1R1	12	SHARE TRANSITION RESISTOR, COMPRESSOR 1A
1R2	14	SHARE TRANSITION RESISTOR, COMPRESSOR 1A
1R3	17	SHARE TRANSITION RESISTOR, COMPRESSOR 1A
1R11	74	SHARE TRANSITION RESISTOR, COMPRESSOR 1B
1R12	77	SHARE TRANSITION RESISTOR, COMPRESSOR 1B
1R13	80	SHARE TRANSITION RESISTOR, COMPRESSOR 1B
1SW1	3	DISCONNECT SWITCH FOR CUSTOMER POWER WIRING, CIRCUIT 1
1T1	15	CONTROL POWER SUPPLY TRANSFORMER
1T2	12	CURRENT TRANSFORMER, COMPRESSOR 1A, LINE A
1T3	14	CURRENT TRANSFORMER, COMPRESSOR 1A, LINE B
1T4	17	CURRENT TRANSFORMER, COMPRESSOR 1A, LINE C
1T5	73	CURRENT TRANSFORMER, COMPRESSOR 1B, LINE A
1T6	76	CURRENT TRANSFORMER, COMPRESSOR 1B, LINE B
1T7	79	CURRENT TRANSFORMER, COMPRESSOR 1B, LINE C
1T9	42	POTENTIAL TRANSFORMER, UNDER / OVER VOLTAGE OPTION
1T10	103	INVERTER DRIVE 1 POWER SUPPLY TRANSFORMER, CIRCUIT 1
1T11	195	INVERTER DRIVE 2 POWER SUPPLY TRANSFORMER, CIRCUIT 1
1TB1	3	TERMINAL BLOCK FOR CUSTOMER POWER WIRING, CIRCUIT 1
1TB4	64-71	CUSTOMER CONTROL WIRING TERMINAL STRIP
1TB5	VARIOUS LOCATIONS	FACTORY CONTROL WIRING TERMINAL STRIP
1TB6	VARIOUS LOCATIONS	FACTORY CONTROL WIRING TERMINAL STRIP
1TB7	105,200-239	FACTORY CONTROL WIRING TERMINAL STRIP
1TS3	76	MAXIMUM TEMPERATURE LIMIT SWITCH 1 (CONTROL PANEL 1)
1TS4	21	VENTILATION FAN OFF/ON TEMPERATURE CONTROL SWITCH (CONTROL PANEL 1)
1TS5	75	MAXIMUM TEMPERATURE LIMIT SWITCH 2 (CONTROL PANEL 1)
1U2	341	POWER SUPPLY MODULE, CH530
1U4	323	DUAL LV BINARY INPUT, EXTERNAL EMERGENCY STOP AND EXTERNAL AUTO/STOP
1U5	318	DUAL LV BINARY INPUT, EXTERNAL CIRCUIT LOCKOUT, REFRIGERANT CIRCUIT 1 & 2
1U6	311	DUAL ANALOG I/O, EXTERNAL CURRENT LIMIT AND EXTERNAL CHILLED WATER SETPOINT
1U7	306	DUAL LV BINARY INPUT, ICE MAKING CONTROL
1U8	301	COMM 3 OR 5 COMMUNICATION INTERFACE, (ECHELON)
1U10	355	DUAL RELAY OUTPUT, CHILLED WATER PUMP CONTROL
1U12	336	QUAD RELAY OUTPUT, ALARM AND STATUS RELAYS
1U13	329	DUAL RELAY OUTPUT, ICE MAKING STATUS RELAY
1U14	34	STARTER MODULE, COMPRESSOR 1A
1U15	21	QUAD RELAY OUTPUT, FAN CONTROL, CIRCUIT 1
1U16	325	DUAL TRIAC OUTPUT, MODULATING LOAD / UNLOAD, COMPRESSOR 1A
1U17	320	DUAL TRIAC OUTPUT, STEP LOAD, COMPRESSORS 1A AND 1B
1U19	86	STARTER MODULE, COMPRESSOR 1B
1U21	315	DUAL TRIAC OUTPUT, MODULATING LOAD / UNLOAD, COMPRESSOR 1B
1U22	311	DUAL HV BINARY INPUT, HIGH PRESSURE CUTOUT, COMPRESSORS 1A AND 1B
1U23	306	DUAL HV BINARY INPUT, HIGH TEMPERATURE CUTOUT (CONTROL PANEL 1)
1U24	403	BACNET COMMUNICATION INTERFACE
1U25	402	WATER FLOW SWITCH
1U26	328	FAULT VFD CIRCUIT 1
1U27	333	FAN SPEED CIRCUIT 1
1U28	187	CONDENSER FAN INVERTER DRIVE 1
1U29	199	CONDENSER FAN INVERTER DRIVE 2

LEGEND		
DEVICE DESIGNATION	LINE NUMBER	DESCRIPTION
RTAC PANEL COMPONENTS, CONTROL PANEL 2		
2CB1	127	HACR CIRCUIT BREAKER, CIRCUIT 2
2F1-3	243-245	CONDENSER FAN FUSES, CIRCUIT 2
2F4-6	269-271	CONDENSER FAN FUSES, CIRCUIT 2
2F7-9	280-282	CONDENSER FAN FUSES, CIRCUIT 2
2F13,14	247	CONTROL POWER TRANSFORMER PRIMARY FUSES
2F15	138	CONTROL POWER TRANSFORMER SECONDARY FUSE, 115 VOLT CIRCUIT
2F16,17	136,137	CONTROL POWER TRANSFORMER SECONDARY FUSE, LOW VOLTAGE CIRCUIT
2F18-20	243-245	INVERTER DRIVE 1 FUSES, CIRCUIT 2
2K1	162	START CONTACTOR, COMPRESSOR 2A
2K2	165	YD RUN CONTACTOR, COMPRESSOR 2A
2K3	168	YD SHORTING CONTACTOR, COMPRESSOR 2A
2K4	171	YD TRANSITION CONTACTOR, COMPRESSOR 2A
2K9	143	CONDENSER FAN CONTACTOR, CIRCUIT 2
2K10	146	CONDENSER FAN CONTACTOR, CIRCUIT 2
2K11	149	CONDENSER FAN CONTACTOR, CIRCUIT 2
2K12	152	CONDENSER FAN CONTACTOR, CIRCUIT 2
2R1	12	SHARE TRANSITION RESISTOR, COMPRESSOR 2A
2R2	14	SHARE TRANSITION RESISTOR, COMPRESSOR 2A
2R3	17	SHARE TRANSITION RESISTOR, COMPRESSOR 2A
2SW1	127	DISCONNECT SWITCH FOR CUSTOMER POWER WIRING, CIRCUIT 2
2T1	134	CONTROL POWER SUPPLY TRANSFORMER
2T2	132	CURRENT TRANSFORMER, COMPRESSOR 2A, LINE A
2T3	135	CURRENT TRANSFORMER, COMPRESSOR 2A, LINE B
2T4	138	CURRENT TRANSFORMER, COMPRESSOR 2A, LINE C
2T10	243	INVERTER DRIVE POWER SUPPLY TRANSFORMER, CIRCUIT 2
2TB1	127	TERMINAL BLOCK FOR CUSTOMER POWER WIRING, CIRCUIT 2
2TB5	VARIOUS LOCATIONS	FACTORY CONTROL WIRING TERMINAL STRIP
2TB6	VARIOUS LOCATIONS	FACTORY CONTROL WIRING TERMINAL STRIP
2TB7	172,262-282	FACTORY CONTROL WIRING TERMINAL STRIP
2U2	384	POWER SUPPLY MODULE, CH530
2U14	155	STARTER MODULE, COMPRESSOR 2A
2U15	141	QUAD RELAY OUTPUT, FAN CONTROL, CIRCUIT 2
2U16	388	DUAL TRIAC OUTPUT, MODULATING LOAD / UNLOAD, COMPRESSOR 2A
2U17	383	DUAL TRIAC OUTPUT, STEP LOAD, COMPRESSORS 2A AND 2B
2U22	371	DUAL HV BINARY INPUT, HIGH PRESSURE CUTOUT, COMPRESSORS 2A AND 2B
2U26	370	CIRCUIT 2 FAULT VFD
2U27	374	FAN SPEED CIRCUIT 2
2U28	247	CONDENSER FAN INVERTER DRIVE 1

LEGEND		
DEVICE DESIGNATION	LINE NUMBER	DESCRIPTION
RTAC REFRIGERANT COMPONENTS FOR CIRCUIT 1		
3B1	14	MOTOR, COMPRESSOR 1A, CIRCUIT 1
3B2	76	MOTOR, COMPRESSOR 1B, CIRCUIT 1
3B3-19	183-238	CONDENSER FAN MOTORS, CIRCUIT 1
3HR1	21	COMPRESSOR 1A HEATER CIRCUIT 1
3HR2	22	OIL SEPARATOR HEATER CIRCUIT 1
3HR3	84	COMPRESSOR 1B HEATER CIRCUIT 1
3L1	321	STEP LOAD CONTROL SOLENOID VALVE, COMPRESSOR 1A
3L2	326	PROPORTIONAL LOAD CONTROL SOLENOID VALVE, COMPRESSOR 1A
3L3	328	PROPORTIONAL UNLOAD CONTROL SOLENOID VALVE, COMPRESSOR 1A
3L4	323	STEP LOAD CONTROL SOLENOID VALVE CIRCUIT 1 COMPRESSOR 1B
3L5	316	PROPORTIONAL LOAD CONTROL SOLENOID VALVE, COMPRESSOR 1B
3L6	318	PROPORTIONAL UNLOAD CONTROL SOLENOID VALVE, COMPRESSOR 1B
3L7	91	OIL LINE VALVE COMPRESSOR 1A
3L8	93	OIL LINE VALVE COMPRESSOR 1B
3LL1	454	EVAPORATOR REFRIGERANT LIQUID LEVEL SENSOR, CIRCUIT 1
3PT1	446	SUCTION REFRIGERANT PRESSURE TRANSDUCER, CIRCUIT 1, COMPRESSOR 1A
3PT2	463	CONDENSER REFRIGERANT PRESSURE TRANSDUCER, CIRCUIT 1, COMPRESSOR 1B
3PT3	457	OIL PRESSURE TRANSDUCER, COMPRESSOR 1A
3PT4	434	OIL PRESSURE TRANSDUCER, COMPRESSOR 1B
3PT5	466	SUCTION REFRIGERANT PRESSURE TRANSDUCER, CIRCUIT 1, COMPRESSOR 1B
3PS1	34	HIGH PRESSURE CUTOOUT SWITCH, COMPRESSOR 1A
3PS2	87	HIGH PRESSURE CUTOOUT SWITCH, COMPRESSOR 1B
3RT1	460	OIL TEMPERATURE SENSOR, CIRCUIT 1, COMPRESSOR 1A
3RT2	440	OIL TEMPERATURE SENSOR, CIRCUIT 1, COMPRESSOR 1B
3V1	442	ELECTRONIC EXPANSION VALVE CIRCUIT 1
3TB1	482-495,501-507,525-532	FACTORY CONTROL WIRING TERMINAL STRIP
3TB2	482,486,501,506,525,530	FACTORY CONTROL WIRING TERMINAL STRIP
3TB3	523,533	FACTORY CONTROL WIRING TERMINAL STRIP

LEGEND		
DEVICE DESIGNATION	LINE NUMBER	DESCRIPTION
RTAC REFRIGERANT COMPONENTS FOR CIRCUIT 2		
4B1	135	MOTOR, COMPRESSOR 2A, CIRCUIT 2
4B3-19	244-281	CONDENSER FAN MOTORS, CIRCUIT 2
4HR1	141	COMPRESSOR 2A HEATER CIRCUIT 2
4HR2	142	OIL SEPARATOR HEATER CIRCUIT 2
4L1	384	STEP LOAD CONTROL SOLENOID VALVE, COMPRESSOR 2A
4L2	389	PROPORTIONAL LOAD CONTROL SOLENOID VALVE, COMPRESSOR 2A
4L3	391	PROPORTIONAL UNLOAD CONTROL SOLENOID VALVE, COMPRESSOR 2A
4LL1	445	EVAPORATOR REFRIGERANT LIQUID LEVEL SENSOR, CIRCUIT 2
4PT1	440	SUCTION REFRIGERANT PRESSURE TRANSDUCER, CIRCUIT 2, COMPRESSOR 2A
4PT2	452	CONDENSER REFRIGERANT PRESSURE TRANSDUCER, CIRCUIT 2
4PT3	447	OIL PRESSURE TRANSDUCER, COMPRESSOR 2A
4PS1	75	HIGH PRESSURE CUTOOUT SWITCH, COMPRESSOR 2A
4RT1	449	OIL TEMPERATURE SENSOR, CIRCUIT 2, COMPRESSOR 2A
4V1	457	ELECTRONIC EXPANSION VALVE, CIRCUIT 2
4TB1	506-514,521-527	FACTORY CONTROL WIRING TERMINAL STRIP
4TB2	506,521,527	FACTORY CONTROL WIRING TERMINAL STRIP
4TB3	509	FACTORY CONTROL WIRING TERMINAL STRIP

LEGEND		
DEVICE DESIGNATION	LINE NUMBER	DESCRIPTION
RTAC CUSTOMER SUPPLIED COMPONENTS		
5B1	6	CHILLER WATER PUMP MOTOR
5K1	9	CHILLER WATER PUMP STARTER
5K4	338	UNIT STATUS RELAY, PROGRAMABLE SIGNAL FROM MODULE, DEFAULT IS UNIT ALARM SIGNAL
5K5	339	UNIT STATUS RELAY, PROGRAMABLE SIGNAL FROM MODULE, DEFAULT IS UNIT ALARM SIGNAL
5K6	340	UNIT STATUS RELAY, PROGRAMABLE SIGNAL FROM MODULE, DEFAULT IS UNIT RUNNING
5K7	341	UNIT STATUS RELAY, PROGRAMABLE SIGNAL FROM MODULE, DEFAULT IS UNIT RUNNING
5K8	343	UNIT STATUS RELAY, PROGRAMABLE SIGNAL FROM MODULE, DEFAULT IS MAXIMUM UNIT CAPACITY
5K9	344	UNIT STATUS RELAY, PROGRAMABLE SIGNAL FROM MODULE, DEFAULT IS MAXIMUM UNIT CAPACITY
5K10	345	UNIT STATUS RELAY, PROGRAMABLE SIGNAL FROM MODULE, DEFAULT IS LIMITED UNIT OPERATION
5K11	346	UNIT STATUS RELAY, PROGRAMABLE SIGNAL FROM MODULE, DEFAULT IS LIMITED UNIT OPERATION
5K14	*385	EXTERNAL EMERGENCY STOP INPUT RELAY
5K15	*383	EXTERNAL AUTO / STOP INPUT RELAY
5K16	*378	EXTERNAL LOCKOUT INPUT RELAY FOR REFRIGERANT CIRCUIT 1
5K17	*380	EXTERNAL LOCKOUT INPUT RELAY FOR REFRIGERANT CIRCUIT 2
5K18	*367	EXTERNAL INPUT RELAY TO ENABLE ICE MAKING
5K19	332	ICE MAKING STATUS OUTPUT

LEGEND		
DEVICE DESIGNATION	LINE NUMBER	DESCRIPTION
RTAC UNIT MOUNTED COMMON COMPONENTS		
6C01	63	CUSTOMER CONVENIENCE OUTLET
6HR1,4	70	EVAPORATOR IMMERSION WATER HEATER
6HR2,3-1,2	68,70	EVAPORATOR HEAT TAPE
6RT1	451	EVAPORATOR ENTERING WATER TEMPERATURE SENSOR
6RT2	448	EVAPORATOR LEAVING WATER TEMPERATURE SENSOR
6RT3	436	AMBIENT AIR TEMPERATURE SENSOR
6TS1	68,69	TEMPERATURE CONTROL EVAPORATOR WATER HEATER (OPTIONAL)
6U1	351	EASY VIEW OR DYNA VIEW DISPLAY AND INTERFACE
6S1	396	EVAPORATOR FLOW SWITCH
6TB1	497-499	FACTORY CONTROL WIRING TERMINAL STRIP

NOTES:

1. COMPONENTS (LUIDS) ARE NOT NECESSARILY WIRED ON THE IPC BUS IN THE ORDER SHOWN.

⚠ 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 TOUTS LES CONDENSATEURS DES MOTEURS SONT DÉCHARGÉS. DANS LE CAS D'UNITÉS COMPORTANT DES ENTRAINEMENTS 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.

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.

PRECAUCIÓN

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.

ATTENTION

¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!

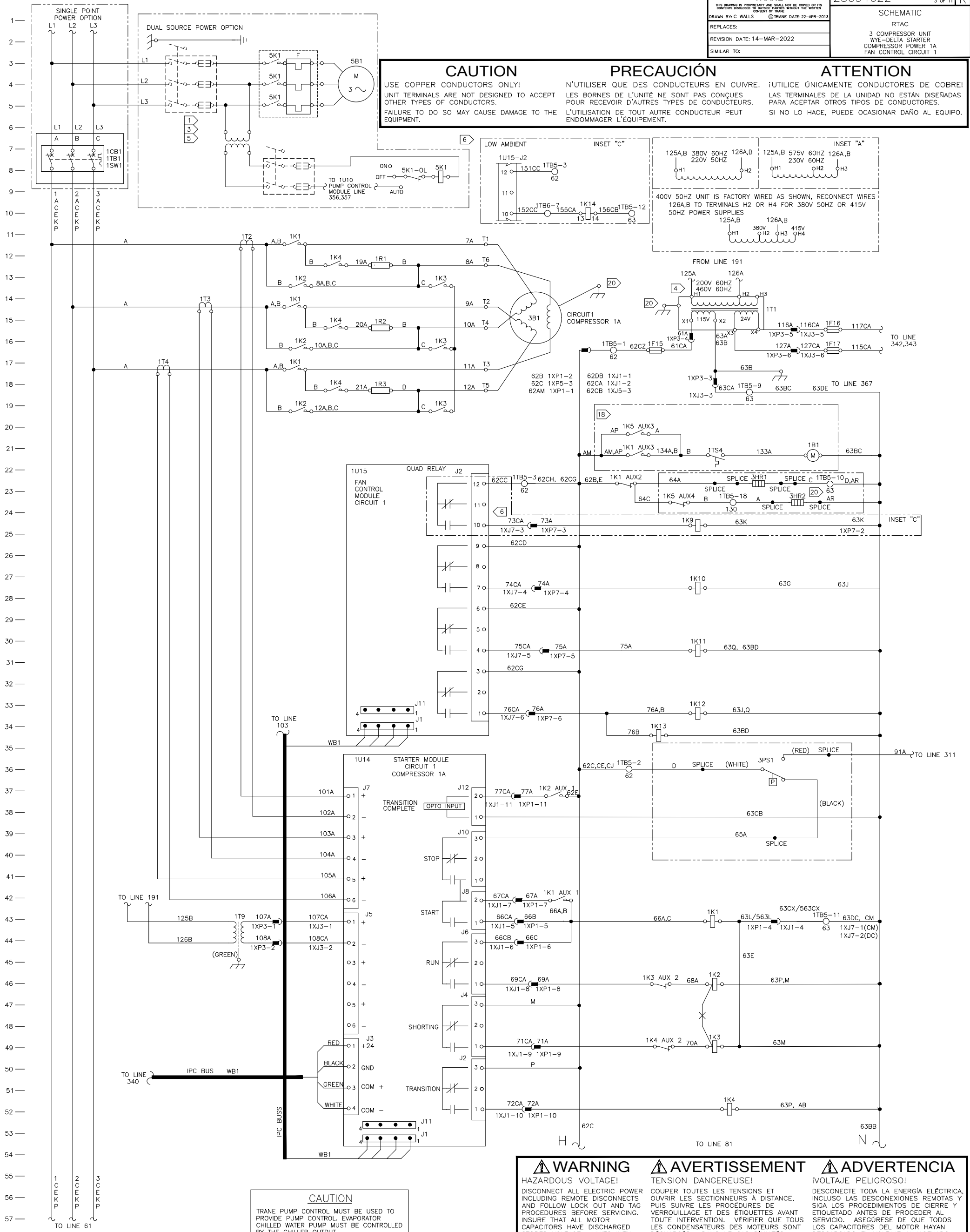
LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.

SI NO LO HACE, PUEDE OCASIONAR DAÑO AL EQUIPO.

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.

PRECAUCIÓN
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'EQUIPEMENT.

ATTENTION
¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!
LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS
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CAUTION
TRANE PUMP CONTROL MUST BE USED TO
PROVIDE PUMP CONTROL. EVAPORATOR
CHILLED WATER PUMP MUST BE CONTROLLED
BY THE CHILLER OUTPUT.
FAILURE TO COMPLY WITH THIS REQUIREMENT
COULD RESULT IN DAMAGE TO THE UNIT.

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 A DISTANCE,
PUIS SUIVRE LES PROCEDURES DE
VERROUILLAGE ET DES ETIQUETTES AVANT
TOUTE INTERVENTION. VERIFIER QUE TOUTS
LES CONDENSATEURS DES MOTEURS SONT
DECHARGES. DANS LE CAS D'UNITES
COMPORTANT DES ENTRAÎNEMENTS A
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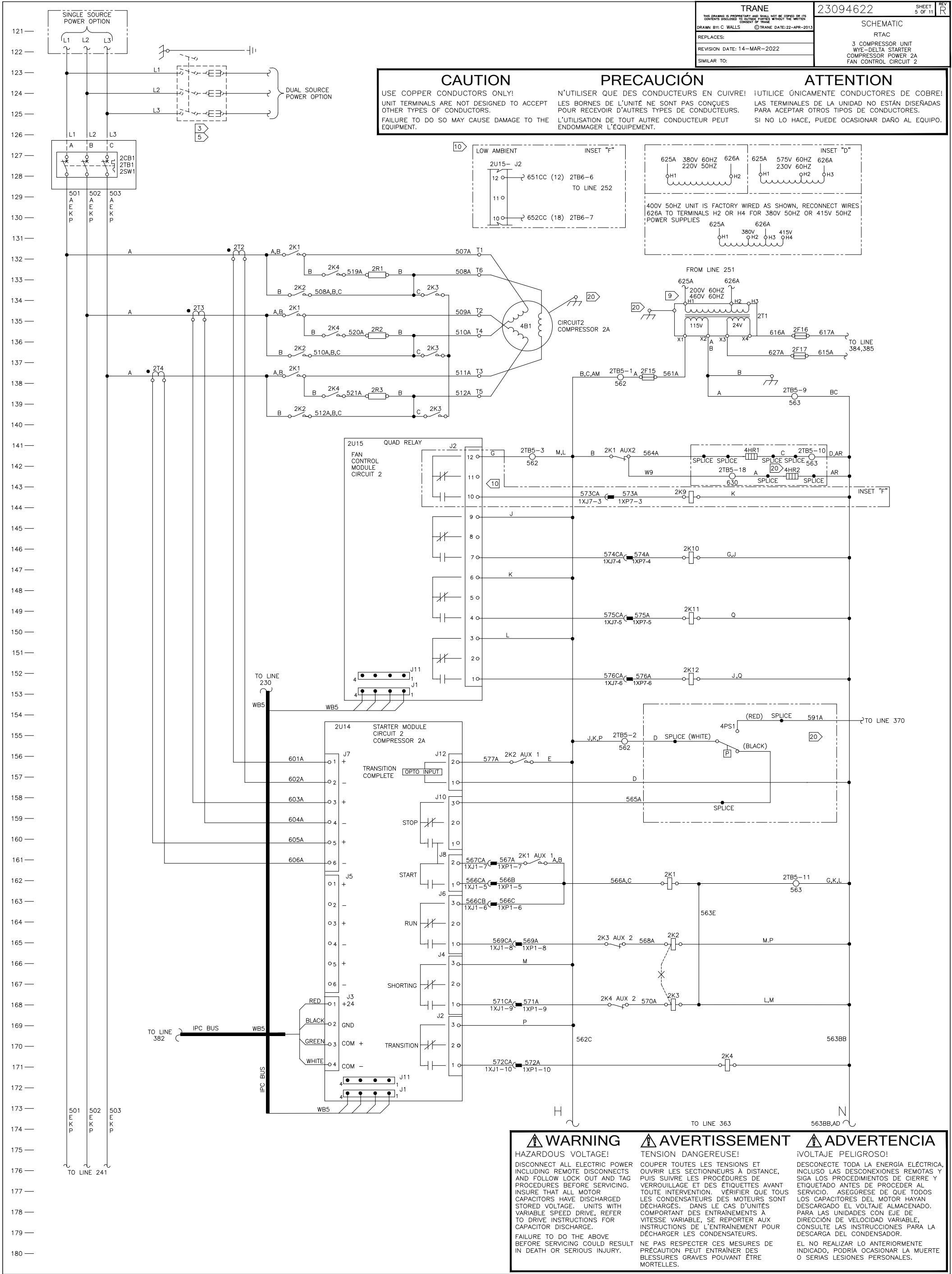
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PARA LAS UNIDADES CON EJE DE
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CONSULTE LAS INSTRUCCIONES PARA LA
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DRAWN BY: C. WALLS © TRANE DATE: 22-APR-2013	
REPLACES:	
REVISION DATE: 14-MAR-2022	
SIMILAR TO:	

23094622	SHEET 5 OF 11	REV R
SCHEMATIC		
RTAC		
3 COMPRESSOR UNIT		
WYE-DELTA STARTER		
COMPRESSOR POWER 2A		
FAN CONTROL CIRCUIT 2		

CAUTION

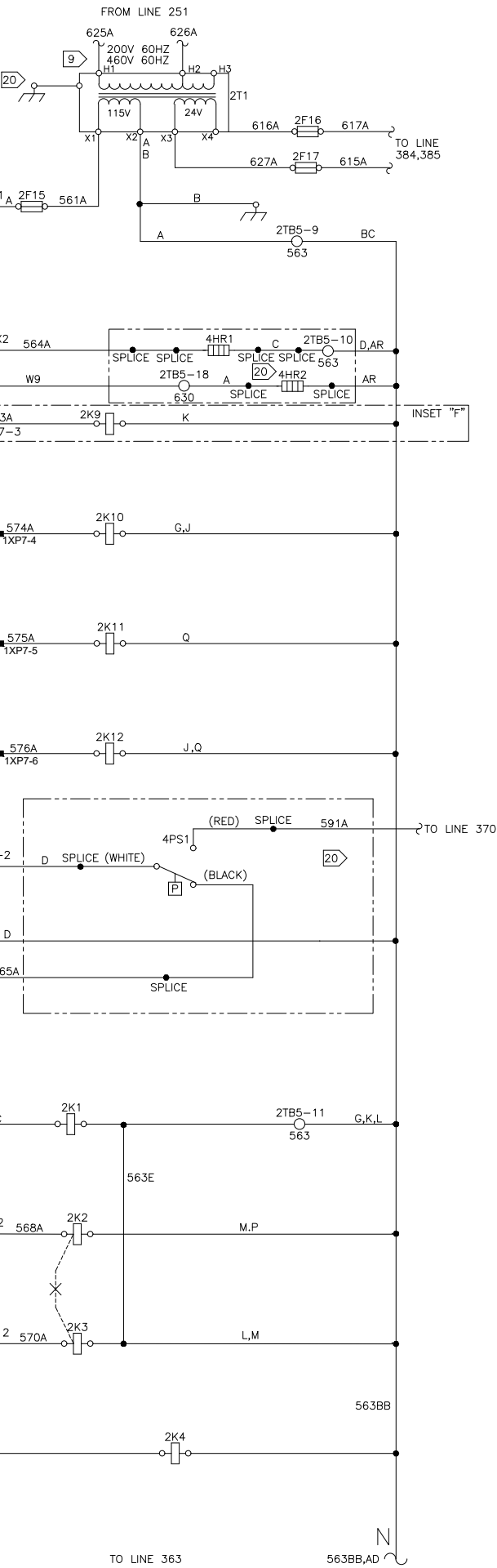
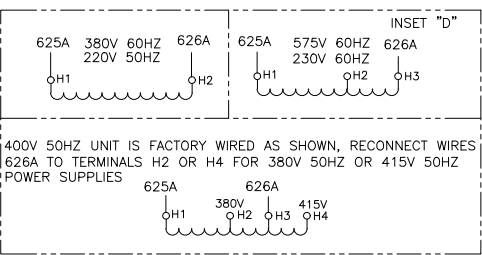
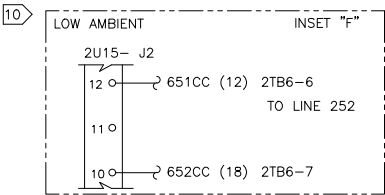
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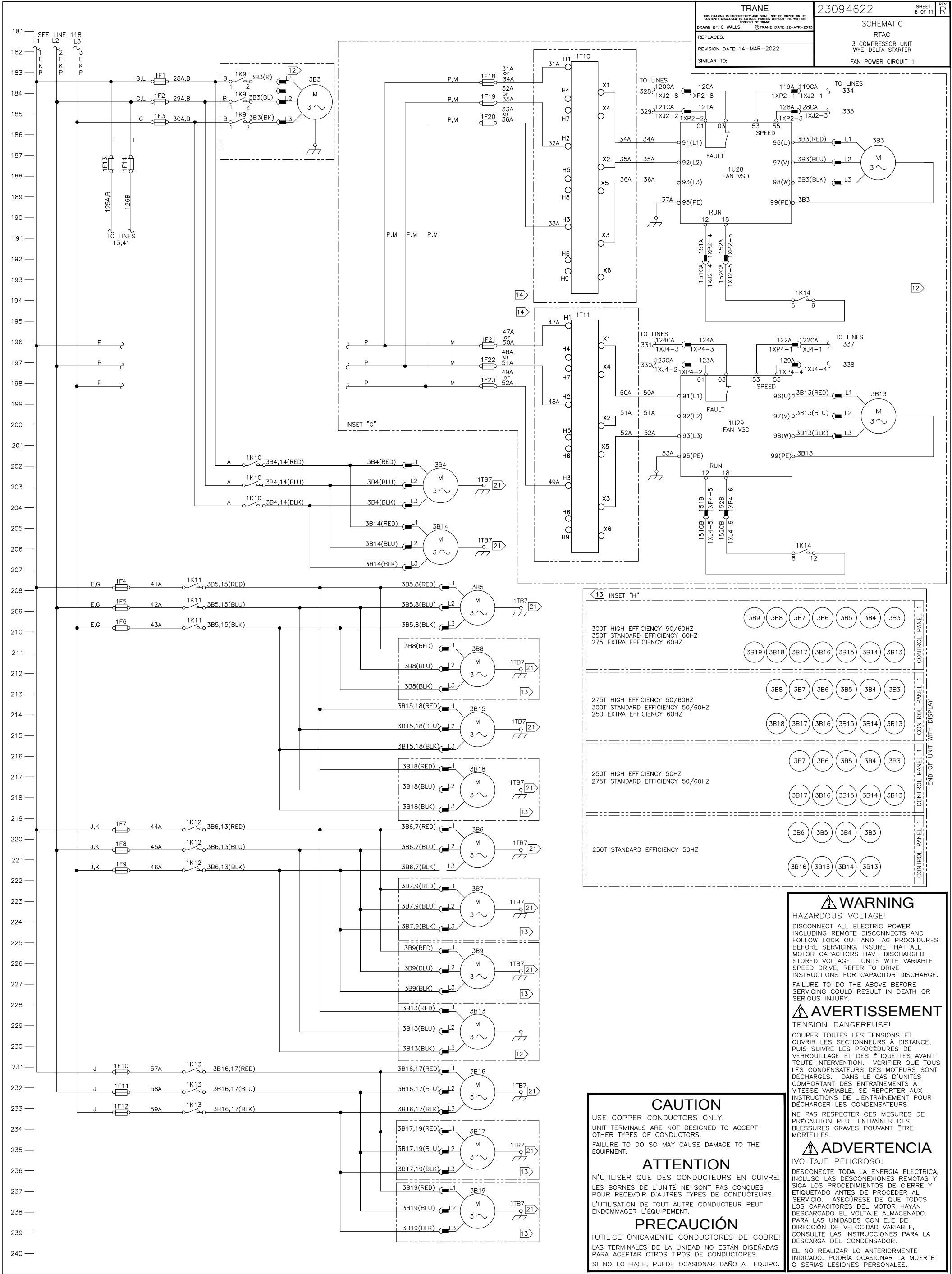
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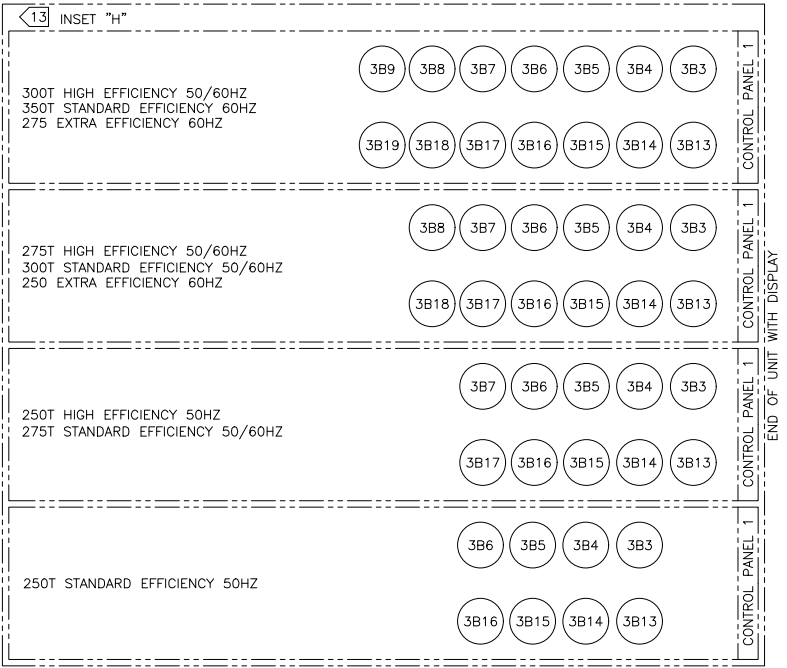
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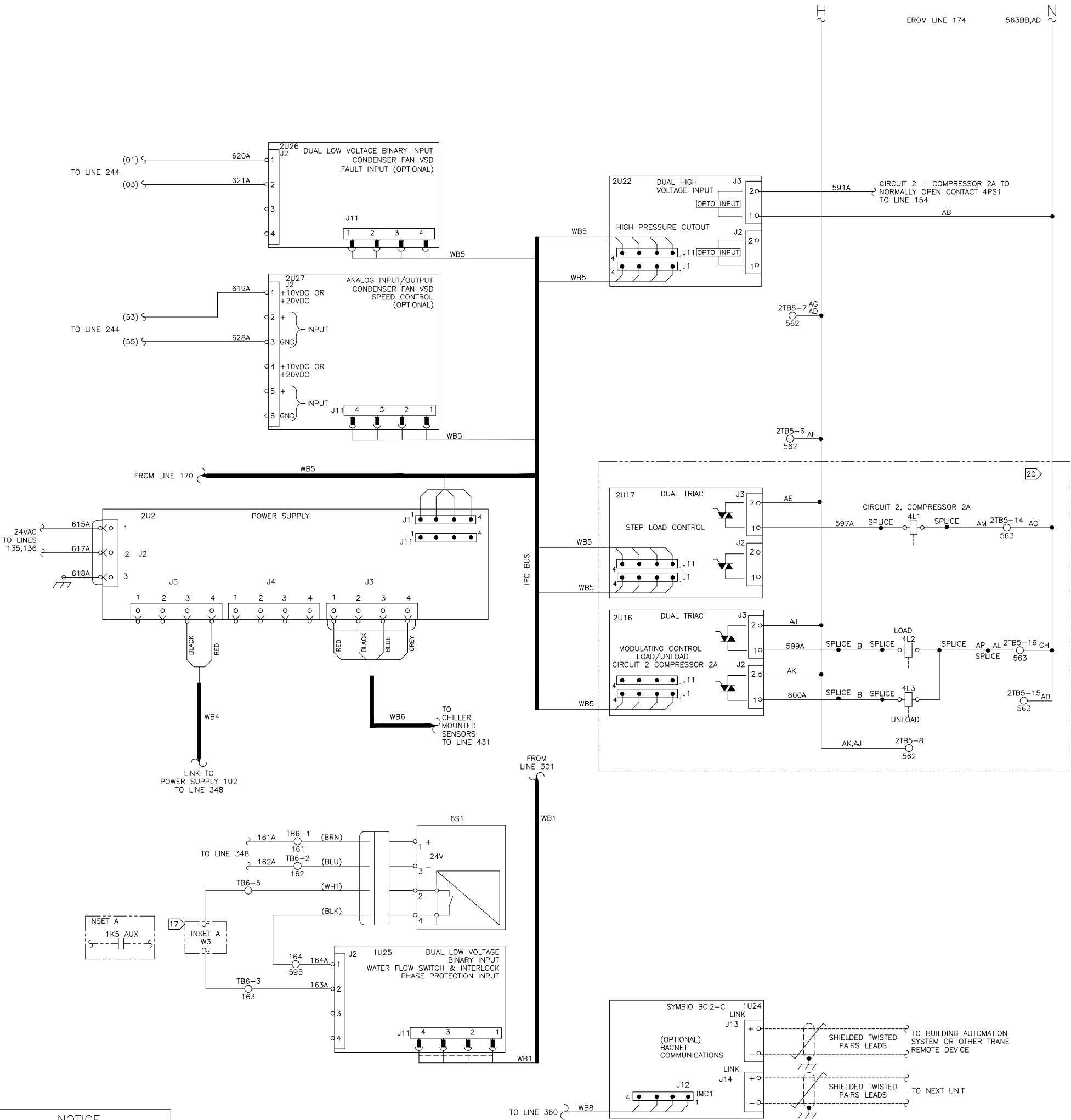
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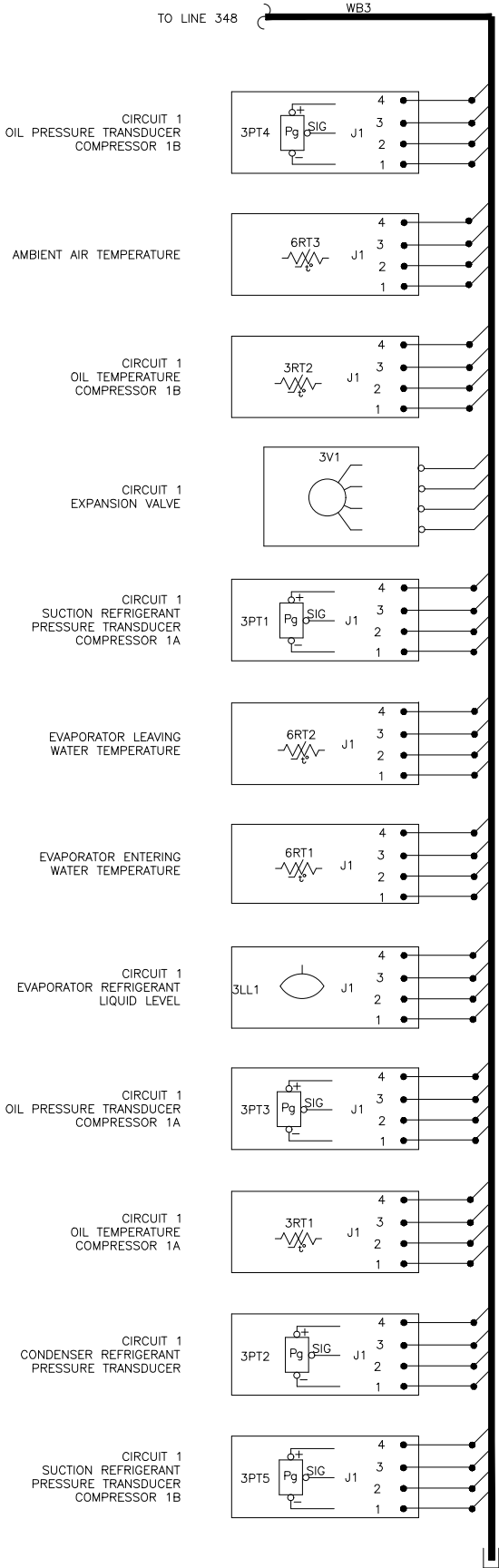
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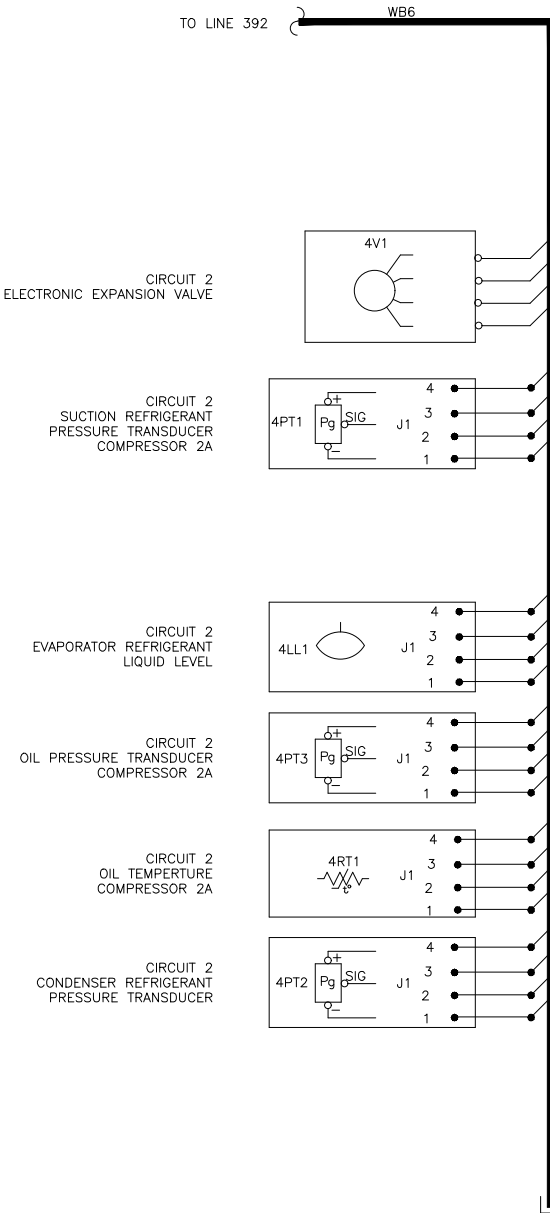
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DEVICE PREFIX LOCATION CODE		
AREA	LOCATION	
1	CONTROL /STARTER PANEL 1	
3	REFRIGERATION CIRCUIT 1	
5	CUSTOMER REMOTELY INSTALLED	
6	UNIT MOUNTED	



DEVICE PREFIX LOCATION CODE		
AREA	LOCATION	
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2	CONTROL / STARTER PANEL 2	
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4	REFRIGERATION CIRCUIT 2	
5		
6	UNIT MOUNTED	



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23094622	SHEET 10 OF 11	REV R
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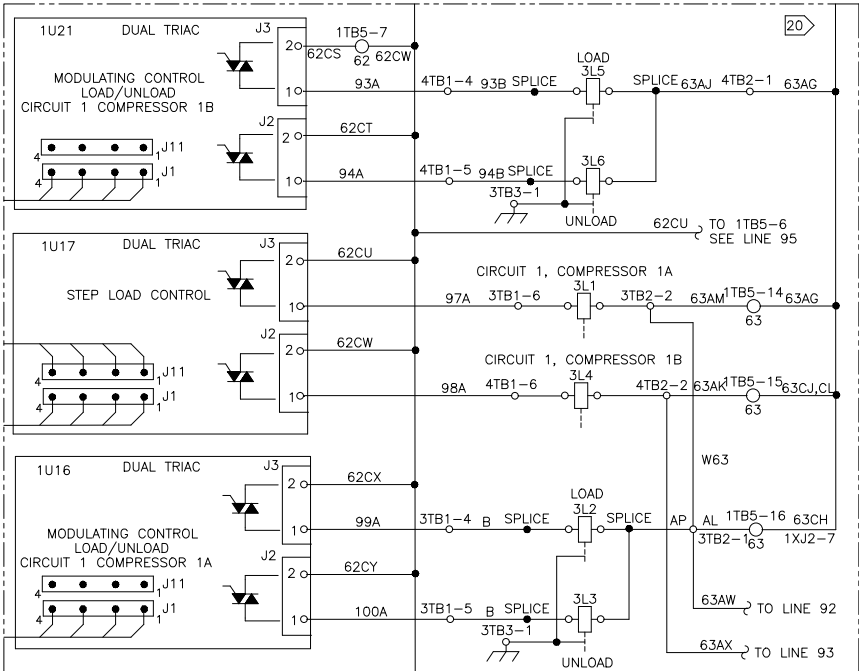
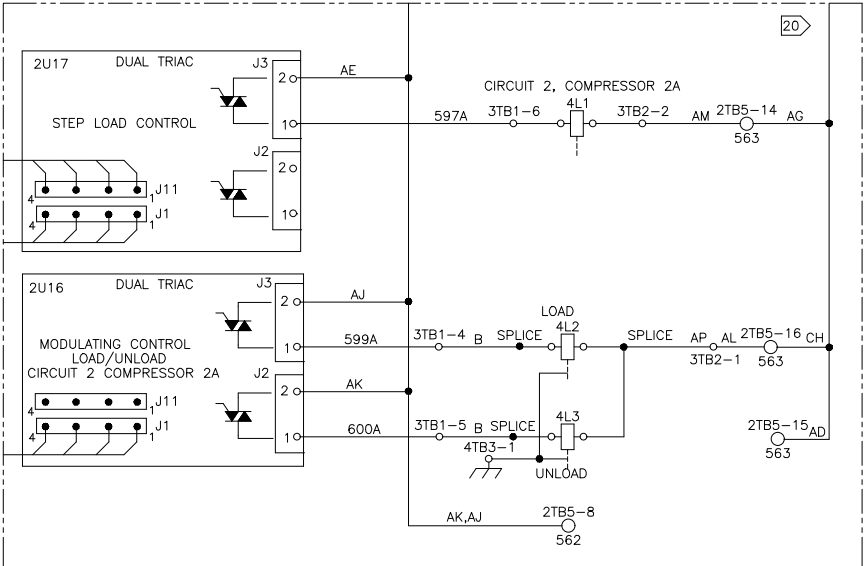
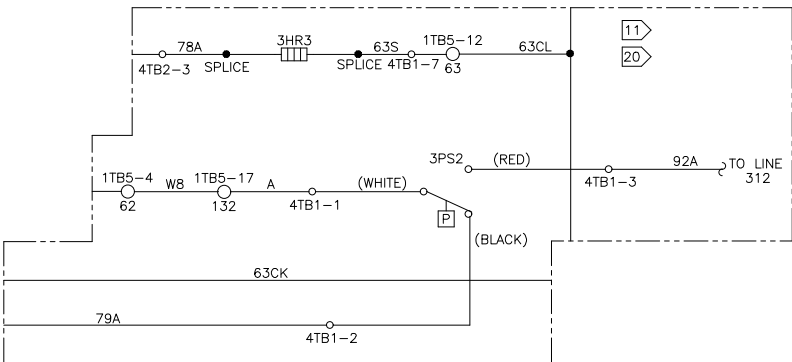
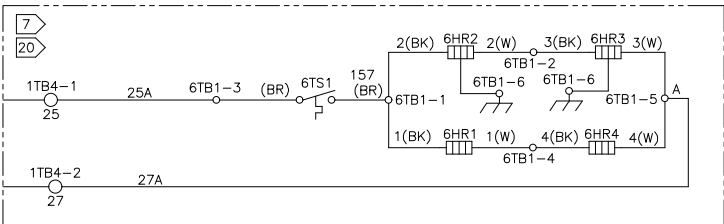
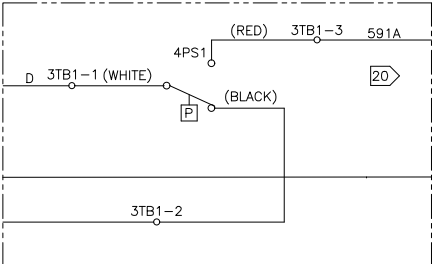
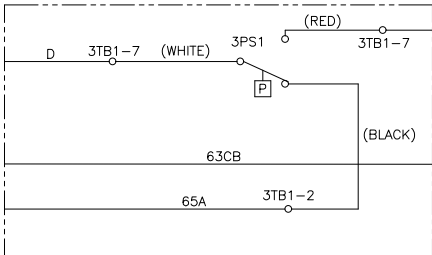
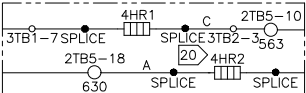
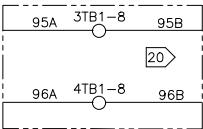
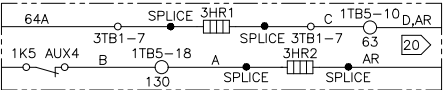
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INCLUSO LAS DESCONEXIONES REMOTAS Y
SIGA LOS PROCEDIMIENTOS DE CIERRE Y
ETIQUETADO ANTES DE PROCEDER AL
SERVICIO. ASEGÚRESE DE QUE TODOS
LOS CAPACITORES DEL MOTOR HAYAN
DESCARGADO EL VOLTAJE ALMACENADO.
PARA LAS UNIDADES CON EJE DE
DIRECCIÓN DE VELOCIDAD VARIABLE,
CONSULTE LAS INSTRUCCIONES PARA LA
DESCARGA DEL CONDENSADOR.
EL NO REALIZAR LO ANTERIORMENTE
INDICADO, PODRÍA OCASIONAR LA MUERTE
O SERIAS LESIONES PERSONALES.