

TABLE of CONTENTS

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: C WALLS ©TRANE DATE:23-APR-2013	23094624	SHEET 1 OF 12	REV S
REPLACES:	SCHEMATIC		
REVISION DATE: 14-MAR-2022	RTAC		
SIMILAR TO:	4 COMPRESSOR UNIT WYE-DELTA STARTER		
	TABLE of CONTENTS & NOTES		

	EN	FR	DE	IT	NL	ES
COLOR CODE	ENGLISH	FRENCH	GERMAN	ITALIAN	DUTCH	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	ROJD
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
COMPRESSOR POWER 2B	181-240	6
FAN POWER CIRCUIT 1	241-300	7
FAN POWER CIRCUIT 2	301-360	8
COMMON CONTROL- PANEL LIID’S	361-420	9
COMMON CONTROL – PANEL LIID’S	421-480	10
COMMON CONTROL – FRAME LLID’S	481-540	11
OPTIONAL CE MARK WIRING CONFIGURATION REFERENCE SHEET	541-600	12

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 AND 4B13 WIRING WITH LOW AMBIENT OR WIDE AMBIENT TEMPERATURE OPTION.
- 16

CIRCUIT 2 FAN DECK CONFIGURATIONS FOR VARIOUS TONNAGES, EFFICIENCIES AND HZ ARE SHOWN IN INSET "J".
- 17

TRANSFORMER 2T10, 2T11 AND ASSOCIATED WIRES USED ONLY ON 575V 60HZ UNITS. WIRES 531A, 532A & 533A CONNECT TO TERMINALS H1, H2 & H3 ON 2T10 & WIRES 547A, 548A & 549A CONNECT TO TERMINALS H1, H2 & H3 ON 2T11.
- 18

REMOVE JUMPER W3 BETWEEN 1TB6-S AND 1TB6-3 WHEN 5K1 AUX IS INSERTED INTO THE EVAPORATOR WATER FLOW INTERLOCK CIRCUIT.
- 19

CONTROLS & ASSOCIATED WIRING ARE USED ONLY WHEN THE CONTROL PANEL VENTILATION FAN IS PROVIDED.
- 20

UNITS WITHOUT THE CONTROL PANEL VENTILATION FAN ARE WIRED AS SHOWN. SEE INSET "E" FOR WIRING WHEN THE VENTILATION FAN IS PROVIDED.
- 21

FOR LOW & WIDE AMBIENT OPTION HEATERS & THERMOSTAT REQUIRED. -"NO LONGER USED"
- 22

OPTIONAL CE MARK WIRING CONFIGURATION, REFERENCE SHEET 12 FOR DETAIL VIEWS.
- 23

OPTIONAL CE MARK FAN MOTOR BONDING AT GREEN/YELLOW 1TB7 OR 2TB7 CHASSIS GROUND TERMINAL BLOCKS.

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	REPLACES:	SCHEMATIC		
	REVISION DATE: 14-MAR-2022	RTAC		
	SIMILAR TO:	4 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 (CONTROL PANEL 1)
1CB1	3	HACR CIRCUIT BREAKER, CIRCUIT 1
1F1-3	243-245	CONDENSER FAN FUSES, CIRCUIT 1
1F4-6	268-270	CONDENSER FAN FUSES, CIRCUIT 1
1F7-9	278-281	CONDENSER FAN FUSES, CIRCUIT 1
1F10-12	291-293	CONDENSER FAN FUSES, CIRCUIT 1
1F13-14	248	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	243-245	INVERTER DRIVE 1 FUSES, CIRCUIT 1
1F21-23	256-258	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	243	INVERTER DRIVE 1 POWER SUPPLY TRANSFORMER, CIRCUIT 1
1T11	255	INVERTER DRIVE 2 POWER SUPPLY TRANSFORMER, CIRCUIT 1
1T12	12	TERMINAL BLOCK FOR CUSTOMER POWER WIRING, ELECTRICAL 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	105,263-300	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	86	MAXIMUM TEMPERATURE LIMIT SWITCH 2 (CONTROL PANEL 1)
1U2	401	POWER SUPPLY MODULE, CH530
1U4	383	DUAL LV BINARY INPUT, EXTERNAL EMERGENCY STOP AND EXTERNAL AUTO/STOP
1U5	378	DUAL LV BINARY INPUT, EXTERNAL CIRCUIT LOCKOUT, REFRIGERANT CIRCUIT 1 & 2
1U6	371	DUAL ANALOG I/O, EXTERNAL CURRENT LIMIT AND EXTERNAL CHILLED WATER SETPOINT
1U7	366	DUAL LV BINARY INPUT, ICE MAKING CONTROL
1U8	361	COMM 3 OR 5 COMMUNICATION INTERFACE, (ECHELON)
1U10	415	DUAL RELAY OUTPUT, CHILLED WATER PUMP CONTROL
1U12	396	QUAD RELAY OUTPUT, ALARM AND STATUS RELAYS
1U13	389	DUAL RELAY OUTPUT, ICE MAKING STATUS RELAY
1U14	34	STARTER MODULE, COMPRESSOR 1A
1U15	21	QUAD RELAY OUTPUT, FAN CONTROL, CIRCUIT 1
1U16	385	DUAL TRIAC OUTPUT, MODULATING LOAD / UNLOAD, COMPRESSOR 1A
1U17	380	DUAL TRIAC OUTPUT, STEP LOAD, COMPRESSORS 1A AND 1B
1U19	86	STARTER MODULE, COMPRESSOR 1B
1U21	375	DUAL TRIAC OUTPUT, MODULATING LOAD / UNLOAD, COMPRESSOR 1B
1U22	371	DUAL HV BINARY INPUT, HIGH PRESSURE CUTOUT, COMPRESSORS 1A AND 1B
1U23	365	DUAL HV BINARY INPUT, HIGH TEMPERATURE CUTOUT (CONTROL PANEL 1)
1U24	463	BACNET COMMUNICATION INTERFACE
1U25	462	WATER FLOW SWITCH
1U26	388	FAULT VFD CIRCUIT 1
1U27	393	FAN SPEED CIRCUIT 1
1U28	246	CONDENSER FAN INVERTER DRIVE 1
1U29	258	CONDENSER FAN INVERTER DRIVE 2

LEGEND		
DEVICE DESIGNATION	LINE NUMBER	DESCRIPTION
RTAC PANEL COMPONENTS, CONTROL PANEL 2		
2B1	141	PANEL VENTILATION FAN (CONTROL PANEL 2)
2CB1	127	HACR CIRCUIT BREAKER, CIRCUIT 2
2F1-3	303-305	CONDENSER FAN FUSES CIRCUIT 2
2F4-6	329-331	CONDENSER FAN FUSES CIRCUIT 2
2F7-9	340-342	CONDENSER FAN FUSES CIRCUIT 2
2F10-12	352-354	CONDENSER FAN FUSES CIRCUIT 2
2F13,14	307	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	303-305	INVERTER DRIVE 1 FUSES, CIRCUIT 2
2F21-23	316-318	INVERTER DRIVE 2 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
2K5	214	START CONTACTOR, COMPRESSOR 2B
2K6	217	YD RUN CONTACTOR, COMPRESSOR 2B
2K7	220	YD SHORTING CONTACTOR, COMPRESSOR 2B
2K8	222	YD TRANSITION CONTACTOR, COMPRESSOR 2B
2K9	145	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
2K13	153	CONDENSER FAN CONTACTOR, CIRCUIT 2
2K14	130	CONDENSER FAN CONTACTOR, CIRCUIT 2
2R1	133	SHARE TRANSITION RESISTOR, COMPRESSOR 2A
2R2	136	SHARE TRANSITION RESISTOR, COMPRESSOR 2A
2R3	139	SHARE TRANSITION RESISTOR, COMPRESSOR 2A
2R11	194	SHARE TRANSITION RESISTOR, COMPRESSOR 2B
2R12	197	SHARE TRANSITION RESISTOR, COMPRESSOR 2B
2R13	200	SHARE TRANSITION RESISTOR, COMPRESSOR 2B
2SW1	127	DISCONNECT SWITCH FOR CUSTOMER POWER WIRING, CIRCUIT 2
2T1	135	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
2T5	193	CURRENT TRANSFORMER, COMPRESSOR 2B, LINE A
2T6	196	CURRENT TRANSFORMER, COMPRESSOR 2B, LINE B
2T7	199	CURRENT TRANSFORMER, COMPRESSOR 2B, LINE C
2T10	303	INVERTER DRIVE POWER SUPPLY TRANSFORMER, CIRCUIT 2
2T11	315	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	225,329-360	FACTORY CONTROL WIRING TERMINAL STRIP
2TS3	189	MAXIMUM TEMPERATURE UNIT SWITCH 1 (CONTROL PANEL 2)
2TS4	141	VENTILATION FAN OFF/ON TEMPERATURE CONTROL SWITCH (CONTROL PANEL 2)
2TS5	189	MAXIMUM TEMPERATURE UNIT SWITCH 2 (CONTROL PANEL 2)
2U2	444	POWER SUPPLY MODULE, CH530
2U14	155	STARTER MODULE, COMPRESSOR 2A
2U15	141	QUAD RELAY OUTPUT, FAN CONTROL, CIRCUIT 2
2U16	449	DUAL TRIAC OUTPUT, MODULATING LOAD / UNLOAD, COMPRESSOR 2A
2U17	444	DUAL TRIAC OUTPUT, STEP LOAD, COMPRESSORS 2A AND 2B
2U19	207	STARTER MODULE, COMPRESSOR 2B
2U21	436	DUAL TRIAC OUTPUT, MODULATING LOAD/UNLOAD, COMPRESSOR 2B
2U22	431	DUAL HV BINARY INPUT, HIGH PRESSURE CUTOUT, COMPRESSORS 2A AND 2B
2U23	426	DUAL HV BINARY INPUT, HIGH TEMPERATURE CUTOUT (CONTROL PANEL 2)
2U26	429	CIRCUIT 2, FAULT VFD
2U27	434	FAN SPEED CIRCUIT 2
2U28	305	CONDENSER FAN INVERTER DRIVE 1
2U29	318	CONDENSER FAN INVERTER DRIVE 2

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	243-298	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	381	STEP LOAD CONTROL SOLENOID VALVE, COMPRESSOR 1A
3L2	386	PROPORTIONAL LOAD CONTROL SOLENOID VALVE, COMPRESSOR 1A
3L3	388	PROPORTIONAL UNLOAD CONTROL SOLENOID VALVE, COMPRESSOR 1A
3L4	383	STEP LOAD CONTROL SOLENOID VALVE CIRCUIT 1 COMPRESSOR 1B
3L5	378	PROPORTIONAL LOAD CONTROL SOLENOID VALVE, COMPRESSOR 1B
3L6	378	PROPORTIONAL UNLOAD CONTROL SOLENOID VALVE, COMPRESSOR 1B
3L7	91	OIL LINE VALVE COMPRESSOR 1A
3L8	92	OIL LINE VALVE COMPRESSOR 1B
3LL1	515	EVAPORATOR REFRIGERANT LIQUID LEVEL SENSOR, CIRCUIT 1
3PT1	505	SUCTION REFRIGERANT PRESSURE TRANSDUCER, CIRCUIT 1, COMPRESSOR 1A
3PT2	523	CONDENSER REFRIGERANT PRESSURE TRANSDUCER, CIRCUIT 1, COMPRESSOR 1B
3PT3	517	OIL PRESSURE TRANSDUCER, COMPRESSOR 1A
3PT4	494	OIL PRESSURE TRANSDUCER, COMPRESSOR 1B
3PT5	526	SUCTION REFRIGERANT PRESSURE TRANSDUCER, CIRCUIT 1, COMPRESSOR 1B
3PS1	34	HIGH PRESSURE CUTOUT SWITCH, COMPRESSOR 1A
3PS2	87	HIGH PRESSURE CUTOUT SWITCH, COMPRESSOR 1B
3RT1	520	OIL TEMPERATURE SENSOR, CIRCUIT 1, COMPRESSOR 1A
3RT2	500	OIL TEMPERATURE SENSOR, CIRCUIT 1, COMPRESSOR 1B
3V1	502	ELECTRONIC EXPANSION VALVE CIRCUIT 1
3TB1	542-556,582-589	FACTORY CONTROL WIRING TERMINAL STRIP
3TB2	542,545,582,588	FACTORY CONTROL WIRING TERMINAL STRIP
3TB3	580,590	FACTORY CONTROL WIRING TERMINAL STRIP

LEGEND		
DEVICE DESIGNATION	LINE NUMBER	DESCRIPTION
RTAC REFRIGERANT COMPONENTS FOR CIRCUIT 2		
4B1	135	MOTOR, COMPRESSOR 2A, CIRCUIT 2
4B2	196	MOTOR, COMPRESSOR 2B, CIRCUIT 2
4B3-19	303-359	CONDENSER FAN MOTORS, CIRCUIT 2
4HR1	141	COMPRESSOR 2A HEATER CIRCUIT 2
4HR2	142	OIL SEPARATOR HEATER CIRCUIT 2
4HR3	204	COMPRESSOR 2B HEATER CIRCUIT 2
4L1	444	STEP LOAD CONTROL SOLENOID VALVE, COMPRESSOR 2A
4L2	449	PROPORTIONAL LOAD CONTROL SOLENOID VALVE, COMPRESSOR 2A
4L3	451	PROPORTIONAL UNLOAD CONTROL SOLENOID VALVE, COMPRESSOR 2A
4L4	446	STEP LOAD CONTROL SOLENOID VALVE, COMPRESSOR 2B
4L5	437	PROPORTIONAL LOAD CONTROL SOLENOID VALVE, COMPRESSOR 2B
4L6	439	PROPORTIONAL UNLOAD CONTROL SOLENOID VALVE, COMPRESSOR 2B
4L7	211	OIL LINE VALVE COMPRESSOR 2A
4L8	212	OIL LINE VALVE COMPRESSOR 2B
4LL1	505	EVAPORATOR REFRIGERANT LIQUID LEVEL SENSOR, CIRCUIT 2
4PT1	500	SUCTION REFRIGERANT PRESSURE TRANSDUCER, CIRCUIT 2, COMPRESSOR 2A
4PT2	511	CONDENSER REFRIGERANT PRESSURE TRANSDUCER, CIRCUIT 2
4PT3	507	OIL PRESSURE TRANSDUCER, COMPRESSOR 2A
4PT4	494	OIL PRESSURE TRANSDUCER, COMPRESSOR 2B
4PT5	515	SUCTION REFRIGERANT PRESSURE TRANSDUCER, CIRCUIT 2, COMPRESSOR 2B
4PS1	155	HIGH PRESSURE CUTOUT SWITCH, COMPRESSOR 2A
4PS2	189,207	HIGH PRESSURE CUTOUT SWITCH, COMPRESSOR 2B
4RT1	510	OIL TEMPERATURE SENSOR, CIRCUIT 2, COMPRESSOR 2A
4RT2	503	OIL TEMPERATURE SENSOR, CIRCUIT 2, COMPRESSOR 2B
4V1	496	ELECTRONIC EXPANSION VALVE, CIRCUIT 2
4TB1	561-580,584	FACTORY CONTROL WIRING TERMINAL STRIP
4TB2	561,564,574,577	FACTORY CONTROL WIRING TERMINAL STRIP
4TB3	577,590	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	398	UNIT STATUS RELAY, PROGRAMABLE SIGNAL FROM MODULE, DEFAULT IS UNIT ALARM SIGNAL
5K5	399	UNIT STATUS RELAY, PROGRAMABLE SIGNAL FROM MODULE, DEFAULT IS UNIT ALARM SIGNAL
5K6	400	UNIT STATUS RELAY, PROGRAMABLE SIGNAL FROM MODULE, DEFAULT IS UNIT RUNNING
5K7	401	UNIT STATUS RELAY, PROGRAMABLE SIGNAL FROM MODULE, DEFAULT IS UNIT RUNNING
5K8	403	UNIT STATUS RELAY, PROGRAMABLE SIGNAL FROM MODULE, DEFAULT IS MAXIMUM UNIT CAPACITY
5K9	404	UNIT STATUS RELAY, PROGRAMABLE SIGNAL FROM MODULE, DEFAULT IS MAXIMUM UNIT CAPACITY
5K10	405	UNIT STATUS RELAY, PROGRAMABLE SIGNAL FROM MODULE, DEFAULT IS LIMITED UNIT OPERATION
5K11	406	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	392	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 TARE
6RT1	171	EVAPORATOR ENTERING WATER TEMPERATURE SENSOR
6RT2	508	EVAPORATOR LEAVING WATER TEMPERATURE SENSOR
6RT3	496	AMBIENT AIR TEMPERATURE SENSOR
6TS1	69	TEMPERATURE CONTROL EVAPORATOR WATER HEATER (OPTIONAL)
6U1	411	EASY VIEW OR DYNA VIEW DISPLAY AND INTERFACE
6V1	429	EVAPORATOR FLOW SWITCH
6TB1	557	FACTORY CONTROL WIRING TERMINAL STRIP
6T1	113	EVAPORATOR HEATER POWER TRANSFORMER FUSES

NOTES:
COMPONENTS (LLIDS) ARE NOT NECESSARILY WIRED ON THE IPC BUS IN THE ORDER SHOWN.

⚠ WARNING	⚠ AVERTISSEMENT	⚠ ADVERTENCIA
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.	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 TOUS LES CONDENSATEURS DES MOTEURS SONT DECHARGES. DANS LE CAS D'UNITES COMPORTANT DES ENTRAÎNEMENTS A VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAÎNEMENT POUR DECHARGER LES CONDENSATEURS. NE PAS RESPECTER CES MESURES DE PRECAUTION PEUT ENTRAÎNER DES BLESSURES GRAVES POUVANT ETRE MORTELLES.	¡VOLTAJE PELIGROSO! DESCONECTE TODA LA ENERGIA ELÉCTRICA, INCLUSO LAS DESCONEXIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGÓRESE 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.

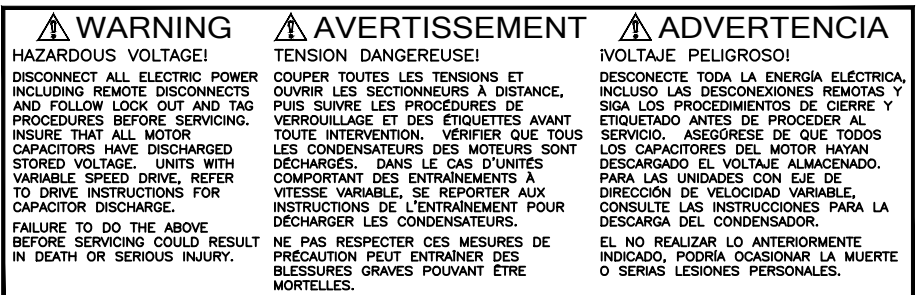
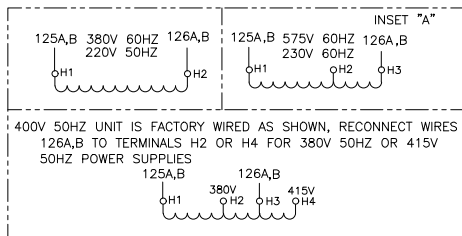
PRECAUCIÓN

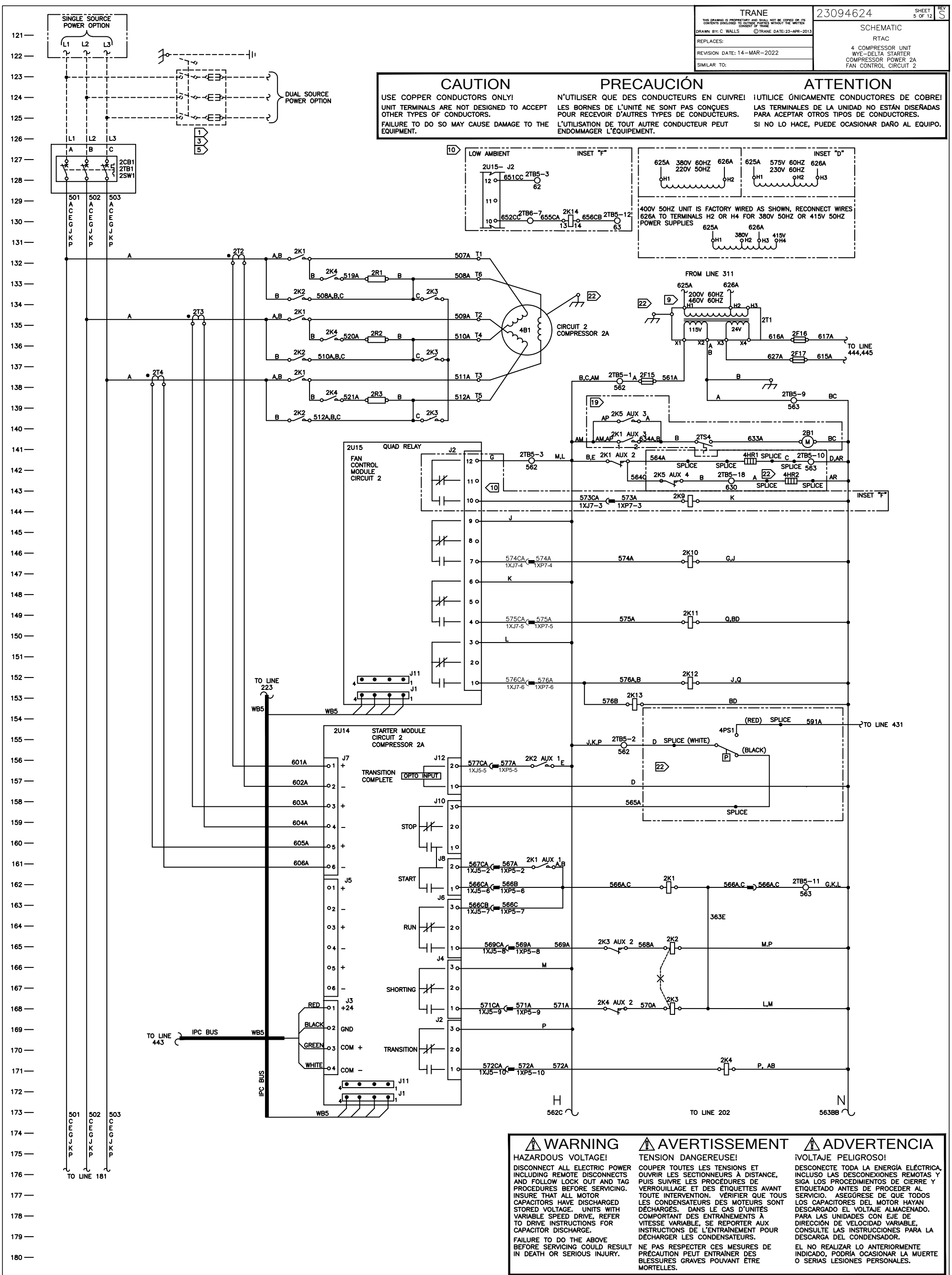
N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!
LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.
L'UTILISATION DE TOUT AUTRE CONDUCTEUR PEUT ENDOMMAGER L'EQUIPEMENT.

ATTENTION

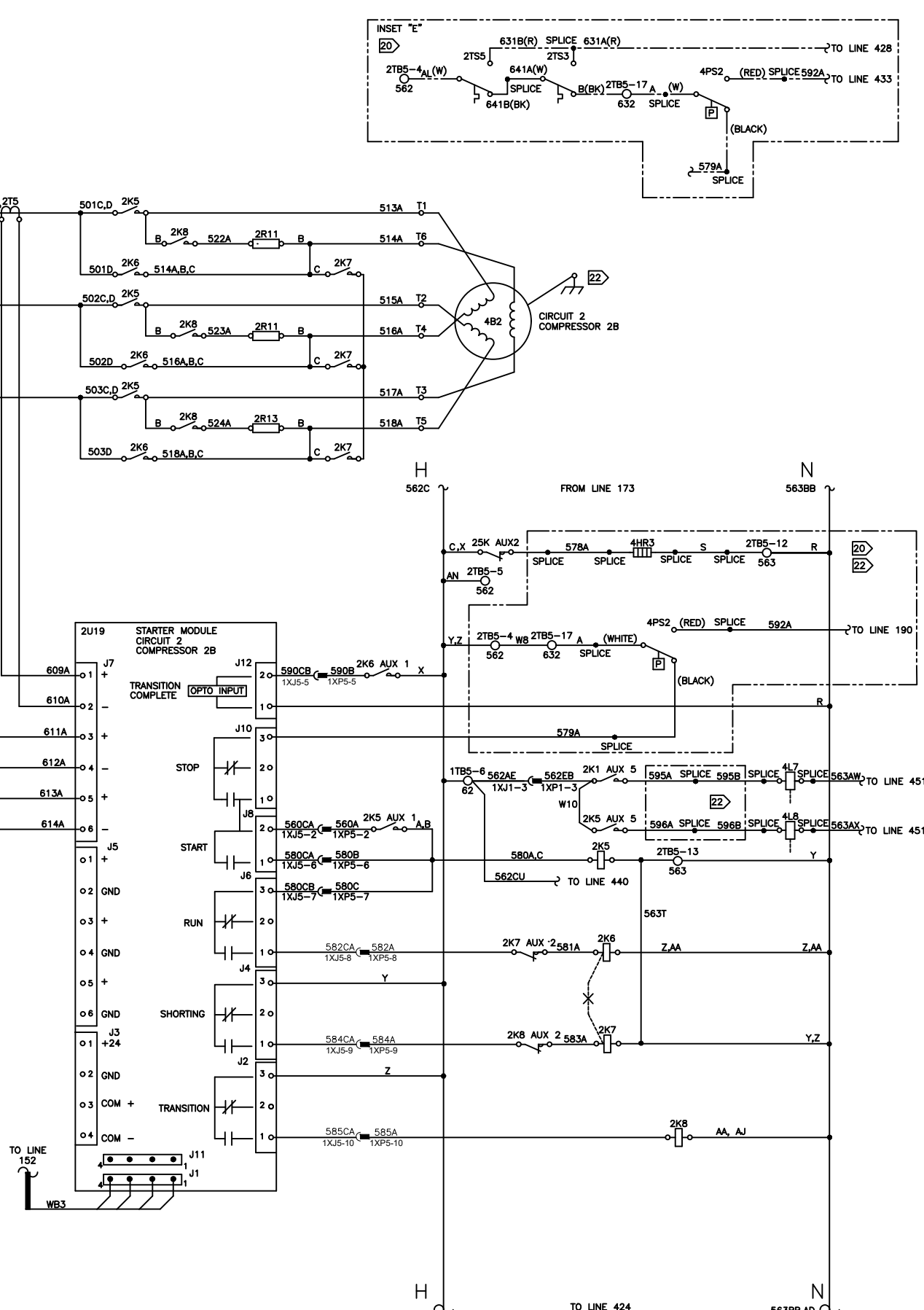
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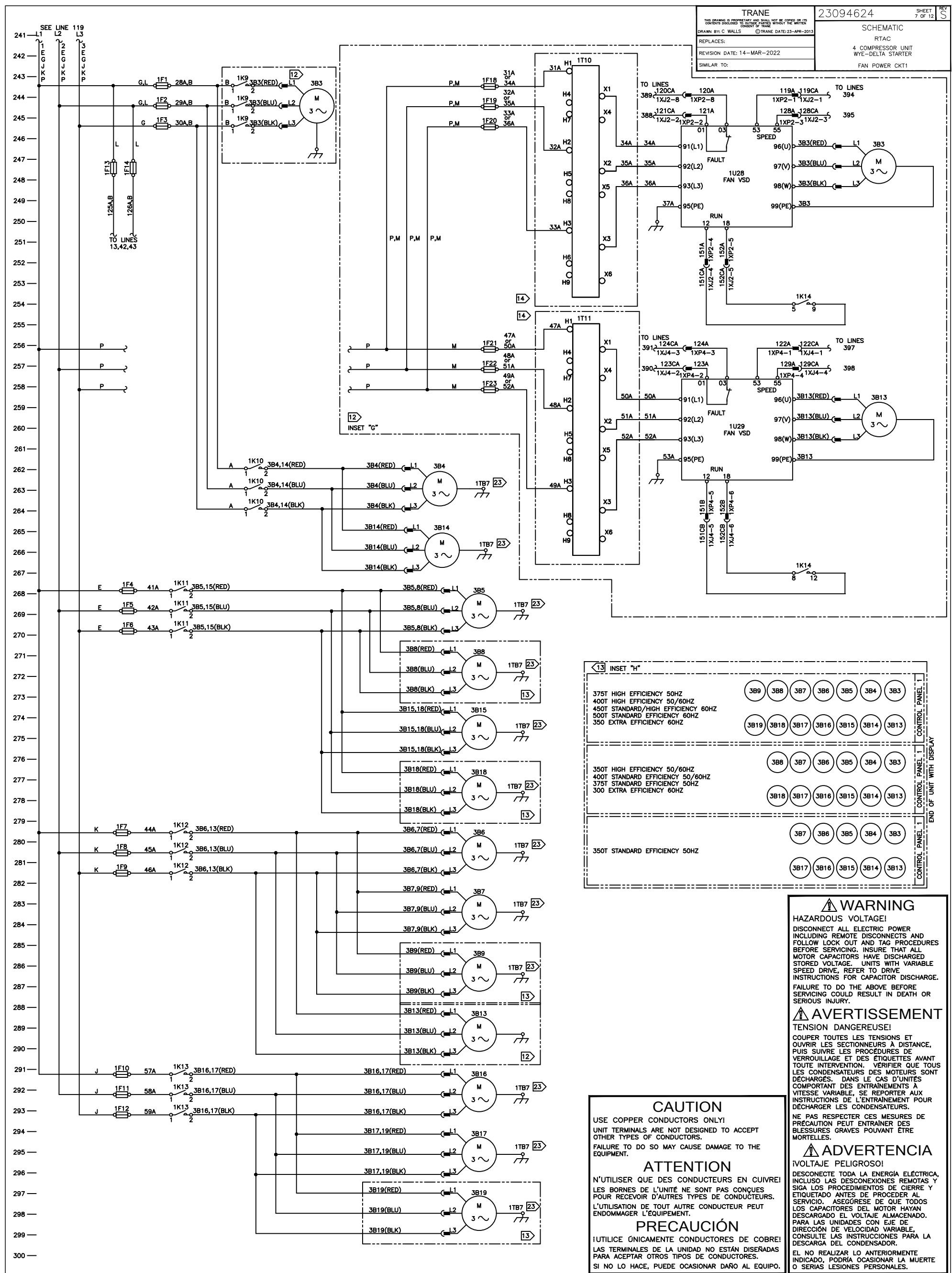


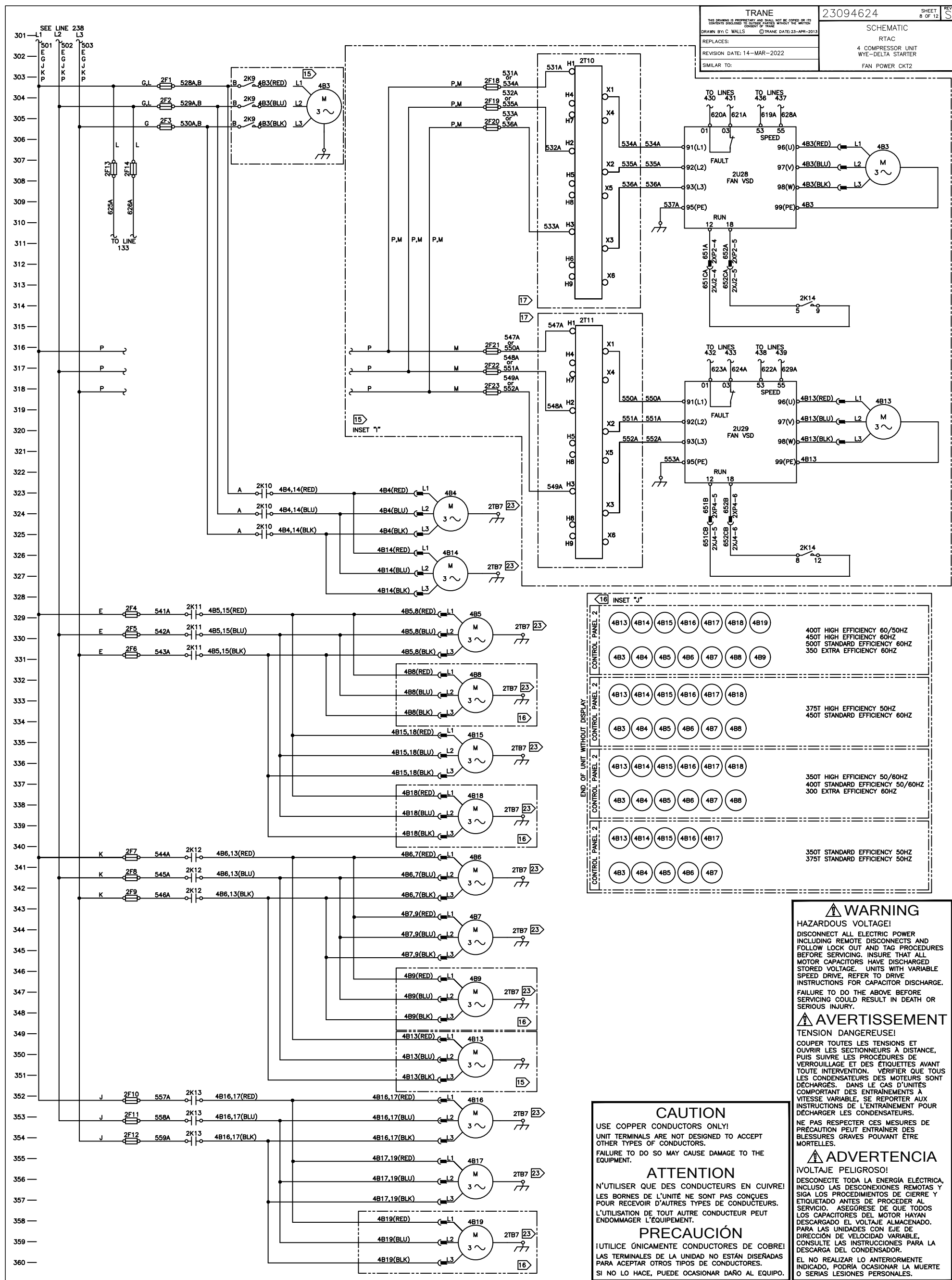


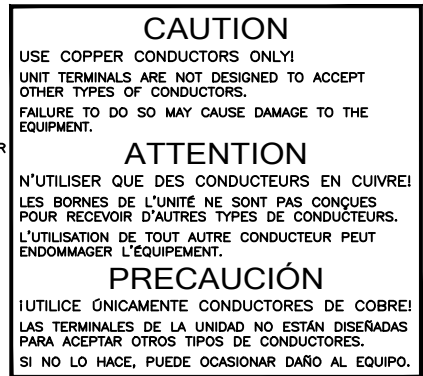
CAUTION	PRECAUCIÓN	ATTENTION
USE COPPER CONDUCTORS ONLY!	N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!	¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.	LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.	LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.
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 WARNING	 AVERTISSEMENT	 ADVERTENCIA
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.	TENSION DANGEREUSE! COUPER TOUTES LES TENSIONS ET OUVRIR LES SECTIONNEURS A 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 ENTRAÎNEMENTS A 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.	VOLTAJE PELIGROSO! DESCONECTE TODA LA ENERGÍA ELÉCTRICA, INCLUIDO 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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TRANE

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DRAWN BY: C. WALLS

REPLACES:

REVISION DATE: 14-MAR-2022

SIMILAR TO:

©TRANE DATE:23-APR-2013

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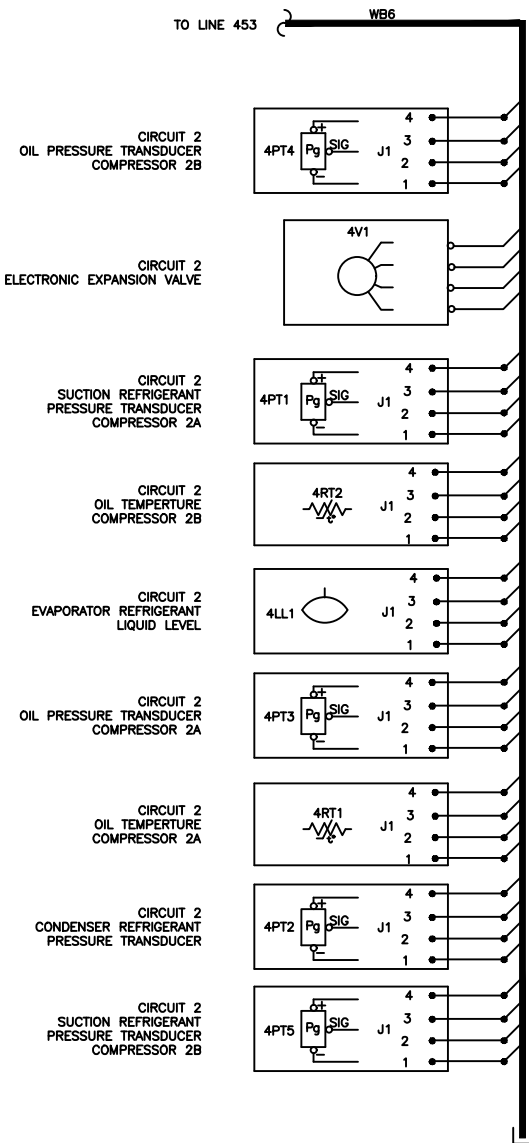
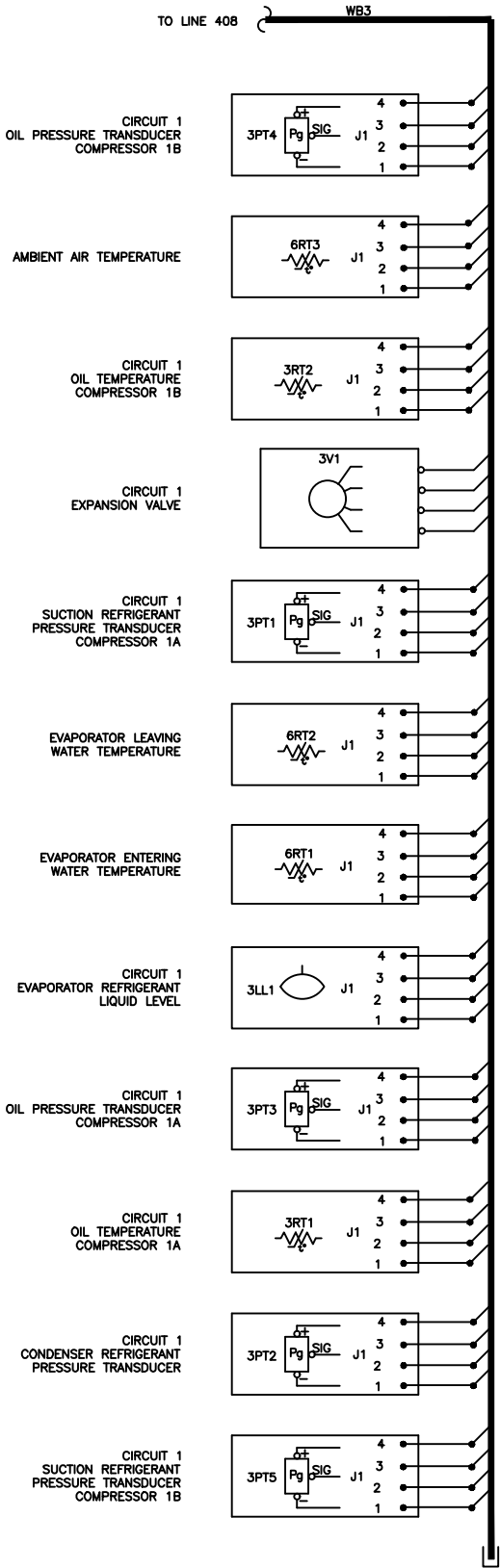
RTAC

4 COMPRESSOR UNIT
WYE-DELTA STARTER

COMMON CONTROLS - FRAME LUD'S

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	
1			
2	CONTROL /	STARTER PANEL 2	
3			
4	REFRIGERATION	CIRCUIT 2	
5			
6	UNIT	MOUNTED	



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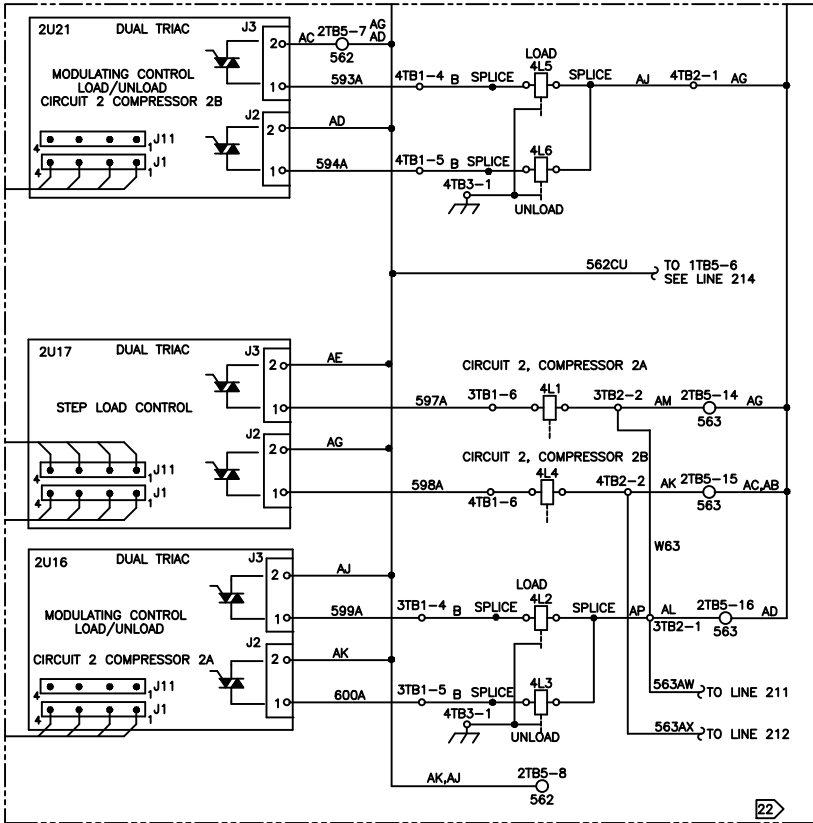
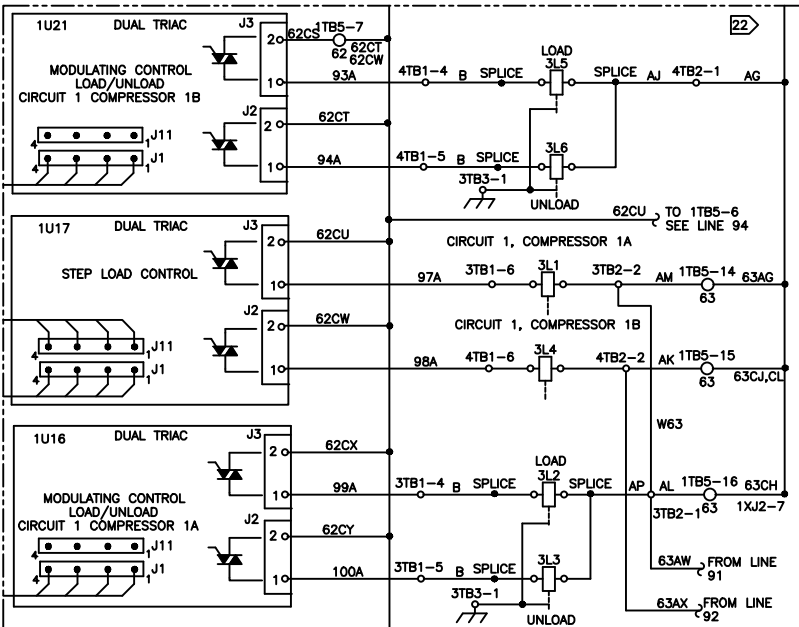
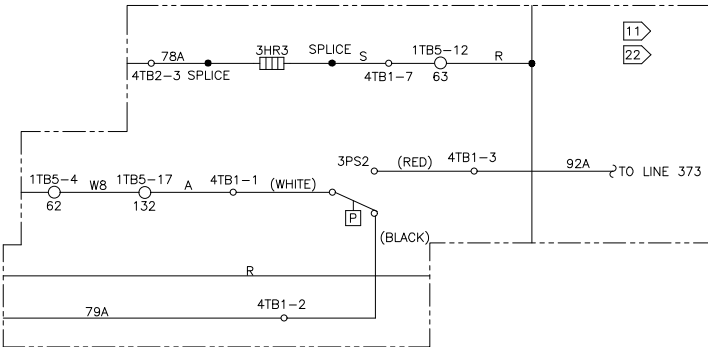
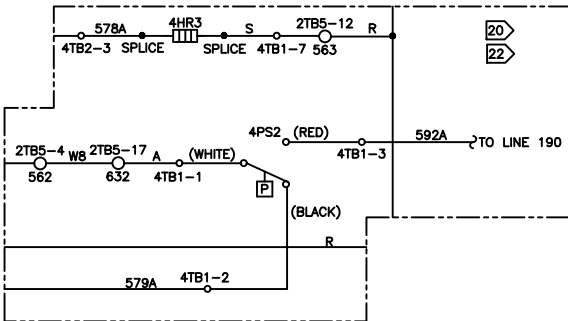
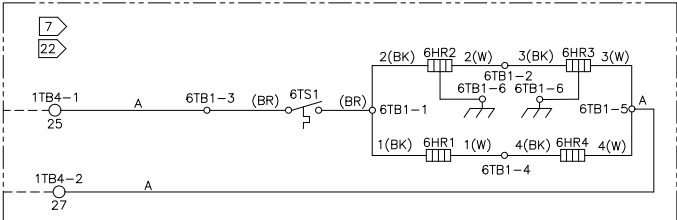
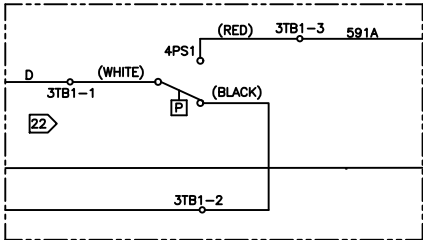
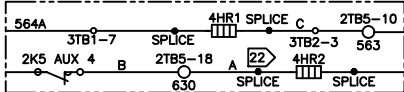
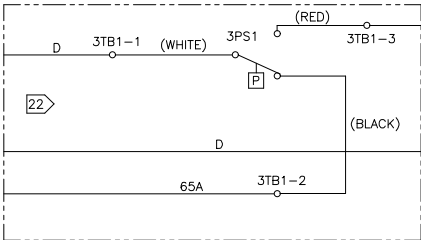
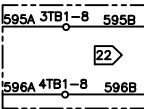
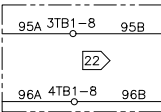
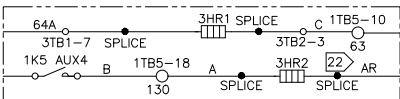
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