TRANE	2309–2097	SHEET 1 OF 14	REV M
THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF TRANE.	SCHEMATIC		
DRAWN BY: JS WATTS ©TRANE DATE: 22-APR-2013	RTAC		
REPLACES:	2 COMPRESSOR MEDIUM/LARGE AIR COOLED		
REVISION DATE: 11-MAR-2022	TABLE OF CONTENTS, NOTES & COLOR CODES		
SIMILIAR TO:			

TABLE of CONTENTS

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	ROJD
VIO	PURPLE	VIOLET	VIOLETT	VIOLA	PAARS	VIOLETA
WHT	WHITE	BLANC	WEISS	BIANCO	WIT	BLANCO
YEL	YELLOW	JAUNE	GELB	GIALLO	GEEL	AMARILLO

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GENERAL & FLAG NOTES

GENERAL NOTES:

1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25°C (77F), 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 LINE INDICATES WIRING BY TRANE.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
4. ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE AND LOCAL REQUIREMENTS.
5. CLASS 1 FIELD WIRING INSULATION RATING IS REQUIRED TO BE EQUAL TO OR GREATER THAN THE EQUIPMENT SUPPLY VOLTAGE RATING. CLASS 2 FIELD WIRE INSULATION TO BE RATED AT 300V MINIMUM.

FLAG NOTES:

1. SINGLE SOURCE POWER IS PROVIDED AS STANDARD ON THESE PRODUCTS. AN OPTIONAL DUAL SOURCE POWER SUPPLY IS AVAILABLE. FIELD CONNECTIONS MADE TO 1TB1, 1CB1 OR 1SW1 REPRESENT SINGLE SOURCE POWER SUPPLY OR CIRCUIT #1 OF THE OPTIONAL DUAL SOURCE POWER SUPPLY.
2. WHEN THE DUAL SOURCE POWER SUPPLY IS SPECIFIED, FIELD WIRING CONNECTIONS FOR CIRCUIT #2 ARE MADE TO 1TB2, 1CB2 OR 1SW2.
3. WIRING FOR 200V/460V UNIT SHOWN. SEE INSET "A" FOR CONTROL POWER TRANSFORMER WIRING OF OTHER VOLTAGES.
4. FOR LOW AND WIDE AMBIENT OPTIONS:
   1K9 IS NOT PRESENT, SEE INSET 'H'.
   1K13 IS NOT PRESENT, SEE INSET 'J'.
5. EVAPORATOR HEATER COMPONENTS 6TS1, 6HR1, 6HR2, 6HR3, 6HR4 AND ASSOCIATED WIRING ARE STANDARD ON ALL RTAC PRODUCTS WITH A UNIT MOUNTED EVAPORATOR. THESE ITEMS ARE NOT PROVIDED WITH THE REMOTE MOUNTED EVAPORATOR OPTION.
6. OPTIONAL CUSTOMER CONVENIENCE OUTLET.
7. CONTROLS AND ASSOCIATED WIRING ARE USED ONLY WHEN THE CONTROL PANEL VENTILATION FAN IS PROVIDED.
8. REFERENCE SHEET 8 AND 9 FOR 3B3 AND 4B3 FAN WIRING WITH LOW AMBIENT OR WIDE AMBIENT TEMPERATURE OPTION.
9. FAN DECK CONFIGURATIONS FOR VARIOUS TONNAGES AND EFFECIENCIES ARE SHOWN IN INSETS 'C', 'D' & 'E'.
10. TRANSFORMERS 1T10 & 1T11 AND ASSOCIATED WIRING USED ON LOW OR WIDE AMBIENT CONDENSER OPTION FOR 575 VOLT UNITS ONLY.
11. COMPONENTS, LIDDS, SENSORS AND OTHER BUS WIRED DEVICES ARE NOT NECESSARILY WIRED ON THE IPC BUS IN THE ORDER SHOWN.
12. ON PRODUCTS WITH THE REMOTE EVAPORATOR OPTION, THE FOLLOWING CONTROLS ARE LOCATED WITH THE REMOTE EVAPORATOR: 3LL1/4LL1, 3PT1/4PT1, 3V1/4V1 & 6RT1/6RT2.
13. FUSES SIZED TO PROTECT TRANSFORMERS.
14. UNITS WITHOUT THE CONTROL PANEL VENTILATION FAN ARE WIRED AS SHOWN. FOR WIRING WHEN THE VENTILATION FAN IS PROVIDED, SEE INSET 'B'.
15. CONTROL MODULE 1U23 AND ASSOCIATED WIRING ARE USED ONLY WHEN THE CONTROL PANEL VENTILATION FAN IS PROVIDED.
16. WIRING CONNECTED TO 1U2J5–3 AND 1U2J5–4, IS REQUIRED ONLY ON UNITS WITH REMOTE MOUNTED EVAPORATOR OPTION. THIS WIRING IS CUSTOMER SUPPLIED AND PROVIDES A COMMUNICATION LINK FROM THE RTAC MOUNTED PROCESSOR TO CONTROL MODULE 7U2, MOUNTED AT THE REMOTE EVAPORATOR.
17. REMOVE JUMPER W3 BETWEEN 1TB6–5 & 1TB6–3. WHEN 5K1 AUX IS INSERTED INTO THE EVAPORATOR WATER FLOW INTERLOCK CIRCUIT, SEE INSET 'G'.
18. OPTIONAL CE MARK WIRING CONFIGURATION, REFERENCE SHEET 14 FOR DETAIL VIEWS.
19. OPTIONAL CE MARK FAN MOTOR BONDING AT GREEN/YELLOW 1TB7 CHASSIS GROUND TERMINAL BLOCKS.

NOTICE

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FAILURE TO DO THE ABOVE COULD RESULT IN EQUIPMENT DAMAGE.

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LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.

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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.

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⚠ AVERTISSEMENT

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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.

UN MANQUEMENT À LA PROCÉDURE CI–DESSUS PEUT ENTRAÎNER DES BLESSURES GRAVES, VOIRE LA MORT.

⚠ ADVERTENCIA

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NO REALIZAR LO ANTEDICHO PUEDE PROVOCAR LA MUERTE O LESIONES GRAVES.

DEVICES, DESCRIPTIONS & DESIGNATIONS

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	CONTROL AND STARTER PANEL
2	N/A
3	REFRIGERATION CIRCUIT 1
4	REFRIGERATION CIRCUIT 2
5	CUSTOMER REMOTELY INSTALLED
6	UNIT MOUNTED
7	REMOTE EVAPORATOR

LEGEND		
DEVICE LOCATION	LINE NUMBER	DESCRIPTION
RTAC PANEL 1 COMPONENTS, LOCATION 1		
1B1	21	PANEL VENTILATION FAN
1CB1	7	HACR CIRCUIT BREAKER FOR CUSTOMER WIRING, ELECTRICAL CIRCUIT 1
1CB2	7	HACR CIRCUIT BREAKER FOR CUSTOMER WIRING, ELECTRICAL CIRCUIT 2
1F1-3	125-127, 185-187, 245-247	CONDENSER FAN FUSES, CIRCUIT 1 – ALL VARIANTS
1F4-6	134-136, 195-197, 257-259	
1F7-9	154-156, 223-225, 275-277	CONDENSER FAN FUSES, CIRCUIT 2 – ALL VARIANTS
1F10-12	163-165, 229-231, 287-289	
1F13-14	129, 189, 249	CONTROL POWER TRANSFORMER PRIMARY FUSES – ALL VARIANTS
1F15	18	CONTROL POWER TRANSFORMER SECONDARY FUSE, 115 VOLT CIRCUIT
1F16	16	CONTROL POWER TRANSFORMER SECONDARY FUSE, LOW VOLTAGE CIRCUIT
1F17	17	CONTROL POWER TRANSFORMER SECONDARY FUSE, LOW VOLTAGE CIRCUIT
1F18-20	309-311, 336-338	INVERTER DRIVE FUSES, CIRCUIT 1 INVERTER DRIVE FUSES, 575V, CIRCUIT 1
1F21-23	322-324, 349-351	INVERTER DRIVE FUSES, CIRCUIT 2 INVERTER DRIVE FUSES, 575V, CIRCUIT 2
1K1	43	START CONTACTOR, COMPRESSOR 1A
1K2	47	WYE-DELTA RUN CONTACTOR, COMPRESSOR 1A
1K3	49	WYE-DELTA SHORTING CONTACTOR, COMPRESSOR 1A
1K4	52	WYE-DELTA TRANSITION CONTACTOR, COMPRESSOR 1A
1K5	105	START CONTACTOR, COMPRESSOR 2A
1K6	108	WYE-DELTA RUN CONTACTOR, COMPRESSOR 2A
1K7	111	WYE-DELTA SHORTING CONTACTOR, COMPRESSOR 2A
1K8	114	WYE-DELTA TRANSITION CONTACTOR, COMPRESSOR 2A
1K9	24	CONDENSER FAN CONTACTOR, CIRCUIT 1
1K10	27	
1K11	30	
1K12	33	
1K13	86	CONDENSER FAN CONTACTOR, CIRCUIT 2
1K14	89	
1K15	92	
1K16	95	
1R1	13	TRANSITION RESISTOR WYE-DELTA STARTER, COMPRESSOR 3B1
1R2	16	
1R3	19	
1R11	75	TRANSITION RESISTOR WYE-DELTA STARTER, COMPRESSOR 4B1
1R12	78	
1R13	81	
1SW1	7	MOLDED CASE SWITCH FOR CUSTOMER POWER WIRING, ELECTRICAL CIRCUIT 1
1SW2	7	MOLDED CASE SWITCH FOR CUSTOMER POWER WIRING, ELECTRICAL CIRCUIT 2
1T1	15	CONTROL POWER SUPPLY TRANSFORMER
1T2	12	CURRENT TRANSFORMER, COMPRESSOR 1A, LINE A
1T3	15	CURRENT TRANSFORMER, COMPRESSOR 1A, LINE B
1T4	18	CURRENT TRANSFORMER, COMPRESSOR 1A, LINE C
1T5	74	CURRENT TRANSFORMER, COMPRESSOR 2A, LINE A
1T6	77	CURRENT TRANSFORMER, COMPRESSOR 2A, LINE B
1T7	80	CURRENT TRANSFORMER, COMPRESSOR 2A, LINE C
1T9	43	POTENTIAL TRANSFORMER, UNDER/OVER VOLTAGE
1T10	336	INVERTER DRIVE POWER SUPPLY TRANSFORMER, CIRCUIT 1
1T11	349	INVERTER DRIVE POWER SUPPLY TRANSFORMER, CIRCUIT 2
1TB1	7	TERMINAL BLOCK FOR CUSTOMER POWER WIRING, ELECTRICAL CIRCUIT 1
1TB2	7	TERMINAL BLOCK FOR CUSTOMER POWER WIRING, ELECTRICAL CIRCUIT 2
1TB4	67-72	CUSTOMER CONTROL WIRING TERMINAL STRIP
1TB5	VARIOUS LOCATIONS	FACTORY CONTROL WIRING TERMINAL STRIP
1TB6	VARIOUS LOCATIONS	FACTORY CONTROL WIRING TERMINAL STRIP
1TB7	117,129-233	FACTORY CONTROL WIRING TERMINAL STRIP
1TS3	72	MAXIMUM TEMPERATURE LIMIT SWITCH 1, MAIN CONTROL PANEL
1TS4	20	VENTILATION FAN ON/OFF TEMPERATURE CONTROL SWITCH, MAIN CONTROL PANEL
1TS5	72	MAXIMUM TEMPERATURE LIMIT SWITCH 2, MAIN CONTROL PANEL
1U2	409	POWER SUPPLY MODULE, TRACER CH.530
1U4	402	DUAL LV BINARY INPUT, EXTERNAL EMERGENCY STOP AND EXTERNAL AUTO/STOP
1U5	397	DUAL LV BINARY INPUT, EXTERNAL CIRCUIT LOCKOUT, REFRIGERANT CIRCUIT 1 AND 2
1U6	390	
1U7	385	DUAL LV BINARY INPUT, ICE MAKING CONTROL
1U8	416	COM 3 OR COMM 5 COMMUNICATION INTERFACE, (ECHELON)
1U10	409	DUAL RELAY OUTPUT, CHILLED WATER PUMP CONTROL
1U12	396	QUAD RELAY OUTPUT, ALARM AND STATUS RELAYS
1U13	389	DUAL RELAY OUTPUT, CE MAKING STATUS RELAY
1U14	35	STARTER MODULE, COMPRESSOR 1A
1U15	21	QUAD RELAY OUTPUT, FAN CONTROL, CIRCUIT 1
1U16	384	DUAL TRIAC OUTPUT, MODULATING LOAD/UNLOAD, COMPRESSOR 1A
1U17	379	DUAL TRIAC OUTPUT, STEP LOAD, COMPRESSORS 1A AND 2A
1U19	97	STARTER MODULE, COMPRESSOR 2A
1U20	83	QUAD RELAY OUTPUT, FAN CONTROL, CIRCUIT 2
1U21	374	DUAL TRIAC OUTPUT, MODULATING LOAD/UNLOAD, COMPRESSOR 2A
1U22	369	DUAL HV BINARY INPUT, HIGH PRESSURE CUTOUT, COMPRESSORS 1A AND 2A
1U23	364	DUAL HV BINARY INPUT, HIGH TEMPERATURE CUTOUT, MAIN CONTROL PANEL
1U24	421	BCI-C COMMUNICATION INTERFACE (BACNET)
1U25	380	DUAL LV BINARY INPUT, EVAPORATOR WATERFLOW PROVING
1U26	375	DUAL LOW VOLTAGE BINARY INPUT
1U27	368 DUAL	DUAL ANALOG INPUT/OUTPUT
1U28	309,339	CONDENSER FAN INVERTER DRIVE, CIRCUIT 1
2U28	322,352	CONDENSER FAN INVERTER DRIVE, CIRCUIT 2
1XJ	VARIOUS LOCATIONS	CONNECTOR, CAP HOUSING
1XP	VARIOUS LOCATIONS	CONNECTOR, PLUG HOUSING

LEGEND		
DEVICE LOCATION	LINE NUMBER	DESCRIPTION
RTAC REFRIGERANT COMPONENTS FOR CIRCUIT 1, LOCATION 3		
3B1	15	MOTOR, COMPRESSOR 1A, CIRCUIT 1
3B3	126,186,246,310,340	CONDENSER FANS, CIRCUIT 1 – ALL VARIANTS
3B4	129,189,252	
3B5	132,193,204,258	
3B6	135,196,207,261	
3B7	138,199	
3B8	141	
3B9	144	
3B13	249	
3B14	255	
3B15	264	
3B16	267	
3HR1	22	COMPRESSOR HEATER, CIRCUIT 1
3HR2	23	OIL SEPARATOR HEATER, CIRCUIT 1
3L1	380	STEP LOAD CONTROL SOLENOID VALVE, COMPRESSOR 1A
3L2	385	PROPORTIONAL LOAD CONTROL SOLENOID VALVE, COMPRESSOR 1A
3L3	387	PROPORTIONAL UNLOAD CONTROL SOLENOID VALVE, COMPRESSOR 1A
3LL1	452	EVAPORATOR REFRIGERANT LIQUID LEVEL SENSOR, CIRCUIT 1
3PT1	457	SUCTION REFRIGERANT PRESSURE TRANSDUCER, CIRCUIT 1, COMPRESSOR 1A
3PT2	462	CONDENSER REFRIGERANT PRESSURE TRANSDUCER, CIRCUIT 1
3PT3	467	OIL PRESSURE TRANSDUCER, COMPRESSOR 1A
3PS1	36	HIGH PRESSURE CUTOUT SWITCH, COMPRESSOR 1A
3RT1	472	OIL TEMPERATURE SENSOR, CIRCUIT 1, COMPRESSOR 1A
3V1	477	ELECTRONIC EXPANSION VALVE, CIRCUIT 1
3TB1	571,575,590,595,597	FACTORY CONTROL WIRING TERMINAL STRIP
3TB2	571,590,595	FACTORY CONTROL WIRING TERMINAL STRIP
3TB3	598	FACTORY CONTROL WIRING TERMINAL STRIP

RTAC REFRIGERANT COMPONENTS FOR CIRCUIT 2, LOCATION 4		
4B1	77	MOTOR, COMPRESSOR 2A, CIRCUIT 2
4B3	155,224,276,323,353	CONDENSER FANS, CIRCUIT 2 – ALL VARIANTS
4B4	158,227,282	
4B5	161,230,288	
4B6	164,233,291	
4B7	167	
4B8	170	
4B9	173	
4B13	279	
4B14	285	
4B15	294	
4B16	297	
4HR1	83	COMPRESSOR HEATER, CIRCUIT 2
4HR2	84	OIL SEPARATOR HEATER, CIRCUIT 2
4L1	382	STEP LOAD CONTROL SOLENOID VALVE, COMPRESSOR 2A
4L2	375	PROPORTIONAL LOAD CONTROL SOLENOID VALVE, COMPRESSOR 2A
4L3	377	PROPORTIONAL UNLOAD CONTROL SOLENOID VALVE, COMPRESSOR 2A
4LL1	452	EVAPORATOR REFRIGERANT LIQUID LEVEL SENSOR, CIRCUIT 2
4PT1	457	SUCTION REFRIGERANT PRESSURE TRANSDUCER, CIRCUIT 2, COMPRESSOR 2A
4PT2	462	CONDENSER REFRIGERANT PRESSURE TRANSDUCER, CIRCUIT 2
4PT3	467	OIL PRESSURE TRANSDUCER, COMPRESSOR 2A
4PS1	98	HIGH PRESSURE CUTOUT SWITCH, COMPRESSOR 2A
4RT1	472	OIL TEMPERATURE SENSOR, CIRCUIT 2, COMPRESSOR 2A
4V1	477	ELECTRONIC EXPANSION VALVE, CIRCUIT 2
4TB1	560,565,585,587,592	FACTORY CONTROL WIRING TERMINAL STRIP
4TB2	560,585,592	FACTORY CONTROL WIRING TERMINAL STRIP
4TB3	587	FACTORY CONTROL WIRING TERMINAL STRIP

RTAC CUSTOMER SUPPLIED COMPONENTS, LOCATION 5		
5B1	3	CHILLER WATER PUMP MOTOR
5K1	7, 363	CHILLER WATER PUMP STARTER
5K4	397	UNIT STATUS RELAY, (PROGRAMABLE) DEFAULT IS UNIT ALARM
5K5	398	UNIT STATUS RELAY, (PROGRAMABLE) DEFAULT IS UNIT ALARM
5K6	400	UNIT STATUS RELAY, (PROGRAMABLE) DEFAULT IS UNIT RUNNING
5K7	401	UNIT STATUS RELAY, (PROGRAMABLE) DEFAULT IS UNIT RUNNING
5K8	403	UNIT STATUS RELAY, (PROGRAMABLE) DEFAULT IS MAXIMUM UNIT CAPACITY
5K9	404	UNIT STATUS RELAY, (PROGRAMABLE) DEFAULT IS MAXIMUM UNIT CAPACITY
5K10	406	UNIT STATUS RELAY, (PROGRAMABLE) DEFAULT IS LIMITED UNIT OPERATION
5K11	411	UNIT STATUS RELAY, (PROGRAMABLE) DEFAULT IS LIMITED UNIT OPERATION
5K14	354	EXTERNAL EMERGENCY STOP INPUT RELAY
5K15	352	EXTERNAL AUTO/STOP INPUT RELAY
5K16	347	EXTERNAL LOCKOUT INPUT RELAY FOR REFRIGERANT CIRCUIT 1
5K17	349	EXTERNAL LOCKOUT INPUT RELAY FOR REFRIGERANT CIRCUIT 2
5K18	325	EXTERNAL INPUT RELAY TO ENABLE ICE MAKING
5K19	391	ICE MAKING STATUS OUTPUT

RTAC UNIT MOUNTED COMMON COMPONENTS, LOCATION 6		
6CO1	61	CUSTOMER CONVENIENCE OUTLET (OPTIONAL)
6HR1-4	70	EVAPORATOR WATER HEATER
6RT1	435	EVAPORATOR ENTERING WATER TEMPERATURE SENSOR
6RT2	440	EVAPORATOR LEAVING WATER TEMPERATURE SENSOR
6RT3	445	AMBIENT AIR TEMPERATURE SENSOR
6S1	363/519	SENSOR, WATER FLOW
6TS1	67	TEMPERATURE CONTROL FOR EVAPORATOR WATER HEATER (OPTIONAL)
6U1	421	EASY VIEW OR DYNA VIEW DISPLAY AND INTERFACE
6TB1	553-555	FACTORY CONTROL WIRING TERMINAL STRIP

RTAC REMOTE EVAP MOUNTED COMPONENTS, LOCATION 7 (SEE SHEET 11)		
7U2	499	POWER SUPPLY MODULE REMOTE EVAP.
7U3	504	DUAL RELAY EVAPORATOR REFRIGERANT DRAIN VALVE CONTROL MODULE
7U4	511	DUAL RELAY EVAPORATOR OIL RETURN CONTROL MODULE, CITCUIT 1 & 2
73L7	513	EVAP OIL RETURN SOLENOID VALVE CIRCUIT 1
74L7	516	EVAP OIL RETURN SOLENOID VALVE CIRCUIT 2
73L9	506	EVAPORATOR REFERIGERANT DRAIN VALVE, CIRCUIT 1
74L9	509	EVAPORATOR REFERIGERANT DRAIN VALVE, CIRCUIT 2
7T12	500	24V TRANSFORMER
73LL1	547	EVAPORATOR REFRIGERANT LIQUID LEVEL SENSOR CIRCUIT 1
74LL1	547	EVAPORATOR REFRIGERANT LIQUID LEVEL SENSOR CIRCUIT 2
73PT1	542	SUCTION REFRIGERANT PRESSURE TRANSDUCER CIRCUIT 1 COMPRESSOR 1A
74PT1	542	SUCTION REFRIGERANT PRESSURE TRANSDUCER CIRCUIT 2 COMPRESSOR 2A
76RT1	526	EVAPORATOR ENTERING WATER TEMPERATURE SENSOR
76RT2	531	EVAPORATOR LEAVING WATER TEMPERATURE SENSOR
73V1	537	EXPANSION VALVE CIRCUIT 1
74V1	537	EXPANSION VALVE CIRCUIT 2
7TB6	VARIOUS LOCATIONS	TERMINAL STRIP

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DRAWN BY: JS WATTS ©TRANE DATE: 22–APR–2013	RTAC		
REPLACES:	2 COMPRESSOR MEDIUM/LARGE AIR COOLED CIRCUIT 1 – COMPRESSOR 1A ACROSS LINE START		
REVISION DATE: 11–MAR–2022			
SIMILIAR TO:			

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 MAY RESULT IN DAMAGE TO THE UNIT.

2 PHASE A L1 B L2 C L3 — 1 PHASE A L1 B L2 C L3

1TB2 or 1CB2 or 1SW2 — 1TB1 or 1CB1 or 1SW1

4 ACE 5 ACE 6 ACE 1 CEJM 2 CEJM 3 CEJM

5K1 F — 5K1 — 5K1 — 5B1 M 3~

ON OFF 5K1–OL 5K1 AUTO

TO LINE 409 & 411 1U10 CHILLED WATER PUMP CONTROL MODULE

3 INSET 'A'

380V 60HZ: 125A H1 — 126A H2

575V 60HZ: 125A H1 — 126A H2 — H3

400V 50HZ UNIT IS FACTORY WIRED AS SHOWN, RECONNECT WIRES 126A TO TERMINALS H2 OR H4 FOR 380V 50HZ OR 415V 50HZ POWER SUPPLIES

380V 415V: 125A H1 — 126A H2 H3 H4

1A 1T2 1A 1K1 — 7A T1, T6

2A 1T3 2A 1K1 — 9A T2, T4

3A 1T4 3A 1K1 — 11A T3, T5

18 — CIRCUIT 1 COMPRESSOR 1A 3B1

62DB 1XJ1–1, 62CA 1XJ1–2, 62CB 1XJ5–3

62B 1XP1–2, 62C 1XP5–3, 62AM 1XP1–1

1TB5–1 62 — 62CZ 1F15 61CA 1XJ3–4 — 1XP3–3 63B

63CA 1XJ3–3 — 63BC 63DE — TO LINE 367

FROM LINE 129 or 190 or 251 460 60HZ

3 125A H1 — 126A H2 H3

18 — 1T1: 115V, 24V

X1 61A 1XP3–4 — X2 — X3 63A — X4 63B

116A 1XP3–5 — 116CA 1F16 117CA 1XJ3–5 — TO LINES 409 & 410

127A 1XP3–6 — 127CA 1F17 115CA 1XJ3–6

7 — 62AP 1K5 AUX 3 134A — 134B 1TS4 133A — 62AM 1K1 AUX 3 134A,B — 1B1 M — 63BC

4 — 1U15 QUAD RELAY CIRCUIT 1 FAN CONTROL MODULE

J2: 12 62CC 1TB5–3 62 — 62CH,CG — 62B — 1K1 AUX2 — 64A — 3HR1 — 63C 1TB5–10 63 — 63D,AR

11 — 64B — 18 — SPLICE SPLICE — 3HR2 — SPLICE SPLICE — 63AR

10 73CA 1XJ7–3 — 73A 1XP7–3 — 1K9 — 63K

9 62CD

8

7 74CA 1XJ7–4 — 74A 1XP7–4 — 1K10 — 63G — 63J

6 62CE

5 NOT USED ON 140T STANDARD OR 120T 50HZ UNITS

4 75CA 1XJ7–5 — 75A 1XP7–5 — 1K11 — 63Q

3 62CG

2

1 76CA 1XJ7–6 — 76A 1XP7–6 — 1K12 — 63J,Q

TO LINE 362 — J11, J1 — WB1

18 — 3PS1 (RED) SPLICE 91A — TO LINE 369

62CD,CE,CJ 1TB5–2 62 — 62D SPLICE (WHT) P — SPLICE (BLK)

1U14 CIRCUIT 1 COMPRESSOR 1A STARTER MODULE

J7: 101A 1 +, 102A 2 –, 103A 3 +, 104A 4 –, 105A 5 +, 106A 6 –

TRANSISTATION COMPLETE — OPTO INPUT — J12: 2 77A, 1 63D — 63CB

J10: 3 65A

STOP — J8: 2 67CA 1XJ1–7 — 67A 1XP1–7 — 1K1 AUX 1 A,B

START — J6: 1 66CA 1XJ1–9 — 66B 1XP1–5 — 67A,C — 1K1 — 63E — 1TB5–11 63 — 63DC,CM

3 66CB 1XJ1–6 — 66C 1XP1–6

RUN — J4: 2

1 — SHORTING — J2: 3

2

1 — TRANSITION

J5: 107CA 1XJ3–1 +, 108CA 1XJ3–2 –

TO LINE 131 or 191 or 251 — 125B — 1T9 — 107A 1XP3–1 — 126B — 108A 1XP3–2 (GRN)

IPC BUS / WB1

TO LINE 407 — WB4 / IPC BUS

J3: RED 1 +24, BLK 2 GND, GRN 3 COM +, WHT 4 COM –

J11, J1 — WB1

LOW AMBIENT — 4 INSET 'H' — 1U15 J2: 12 151CA (12) TO LINE 315 or 345; 11; 10 152CA (18) TO LINE 315 or 345

4 ACE 5 ACE 6 ACE 1 CEJM 2 CEJM 3 CEJM — TO LINE 61

H 62C — N 63BB — TO LINE 81

NOTICE

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AVIS

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UN MANQUEMENT À LA PROCÉDURE CI–DESSUS PEUT ENTRAÎNER DES BLESSURES GRAVES, VOIRE LA MORT.

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TRANE	2309–2097	SHEET 4 OF 14	REV M
THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF TRANE.	SCHEMATIC		
DRAWN BY: JS WATTS ©TRANE DATE: 22–APR–2013	RTAC		
REPLACES:	2 COMPRESSOR MEDIUM/LARGE AIR COOLED CIRCUIT 1 – COMPRESSOR 1A WYE–DELTA START		
REVISION DATE: 11–MAR–2022			
SIMILIAR TO:			

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 MAY RESULT IN DAMAGE TO THE UNIT.

2 PHASE A L1 B L2 C L3 — 1 PHASE A L1 B L2 C L3

1TB2 or 1CB2 or 1SW2 — 1TB1 or 1CB1 or 1SW1

5K1 F — 5B1 M 3~

TO LINE 409 & 411 1U10 CHILLED WATER PUMP CONTROL MODULE — ON — OFF — AUTO — 5K1–OL — 5K1

3 INSET 'A'

380V 60HZ 220V 50HZ 125A 126A H1 H2

575V 60HZ 230V 60HZ 125A 126A H1 H2 H3

400V 50HZ UNIT IS FACTORY WIRED AS SHOWN, RECONNECT WIRES 126A TO TERMINALS H2 OR H4 FOR 380V 50HZ OR 415V 50HZ POWER SUPPLIES — 380V 415V 125A 126A H1 H2 H3 H4

FROM LINE 129 or 190 or 251 200 60HZ 460 60HZ

3 125A 126A H1 H2 H3 — 18 — 1T1 115V 24V X1 X2 X3 X4

116A 116CA 1F16 117CA — 1XP3–5 1XJ3–5 — TO LINES 409 & 410

61A 1XP3–4 — 63A 63B

127A 127CA 1F17 115CA — 1XP3–6 1XJ3–6

1A,B 1T2 — 1K1 1K4 19A 1R1 — 7A T1 — 8A T6 — 1K2 8A,C B,C 1K3

2A,B 1T3 — 1K1 1K4 20A 1R2 — 9A T2 — 10A T4 — 1K2 10A,C B,C 1K3

3A,B 1T4 — 1K1 1K4 21A 1R3 — 11A T3 — 12A T5 — 1K2 12A,C B,C 1K3

CIRCUIT 1 COMPRESSOR 1A — 3B1 — 18

62B,C,AM 62CA,CB,DB 1TB5–1 62 62CZ — 1F15 61CA — 63B

1XP1–2(B) 1XP5–3(C) 1XP1–1(AM) — 1XJ1–2(CA) 1XJ5–3(CB) 1XJ1–1(DB) — 1XP3–3 — 63CA 1XJ3–3 — 1TB5–9 63 — BC 1XJ6–4 — 63DE — TO LINE 367

7 — 62AP 1K5 AUX 3 134A 134B 1TS4 133A — 62AM 62AM,AP 1K1 AUX 3 134A,B — 1B1 M — 63BC 1XP6–4

62B,E 1K1 AUX 2 64A — 18 — 3HR1 SPLICE SPLICE — 63C 1TB5–10 63 — 63D,AR

64B SPLICE 3HR2 SPLICE — 63AR

73CA 1XJ7–3 — 73A 1XP7–3 — 1K9 — 63K 1XP7–2

62CD

74CA 1XJ7–4 — 74A 1XP7–4 — 1K10 — 63G 1XP7–1 — 63J

62CE

NOT USED ON 140T STANDARD OR 120T 50HZ UNITS

75CA 1XJ7–5 — 75A 1XP7–5 — 1K11 — 63Q

62CG

76CA 1XJ7–6 — 76A 1XP7–6 — 1K12 — 63J,Q

1U15 QUAD RELAY CIRCUIT 1 FAN CONTROL MODULE — J2 — 4 — 62CC 1TB5–3 62 — 62CH,CG

TO LINE 362 — J11 J1 — WB1

1U14 STARTER MODULE CIRCUIT 1 COMPRESSOR 1A

J7: 101A 102A 103A 104A 105A 106A

TRANSISTATION COMPLETE — OPTO INPUT — J12 — 77CA 77A 1K2 AUX 1 — 1XJ1–11 1XP1–11

62CD,CE,CJ 1TB5–2 62 — 62D — 18 — 3PS1 (RED) 91A SPLICE (WHT) (BLK) P — TO LINE 369

63CB

65A

J10 — STOP — J8 — 67CA 67A 1K1AUX 1 — 1XJ1–7 1XP1–7 — A,B

START — J6 — 66CA 66B — 1XJ1–5 1XP1–5 — 66CB 66C — 1XJ1–6 1XP1–6 — 66A,C — 1K1 — 1TB5–11 63 — 63CM,DC 1XJ7–1(CM) 1XJ7–2(DC)

63E

RUN — J4 — 69CA 69A — 1XJ1–8 1XP1–8 — 1K4 AUX 2 — 68A — 1K2 — 63P,M

62CH

SHORTING — J2 — 71CA 71A — 1XJ1–9 1XP1–9 — 1K4 AUX 2 — 70A — 1K3 — 63M

62CJ

TRANSITION — 72CA 72A — 1XJ1–10 1XP1–10 — 72A — 1K4 — 63P

TO LINE 407 — WB4 / IPC BUS — IPC BUS / WB1 — J3: RED +24, BLK GND, GRN COM +, WHT COM –

LOW AMBIENT — 4 INSET 'H' — 1U15 J2 — 12 151CA TO LINE (12) 315 or 345 — 10 152CA TO LINE (18) 315 or 345

TO LINE 131 or 191 or 251 — 125B 126B — 1T9 — 107A 1XP3–1 — 107CA 1XJ3–1 — 108A 1XP3–2 — 108CA 1XJ3–2 — (GRN)

H 62C — N 63BB — TO LINE 81 — TO LINE 61

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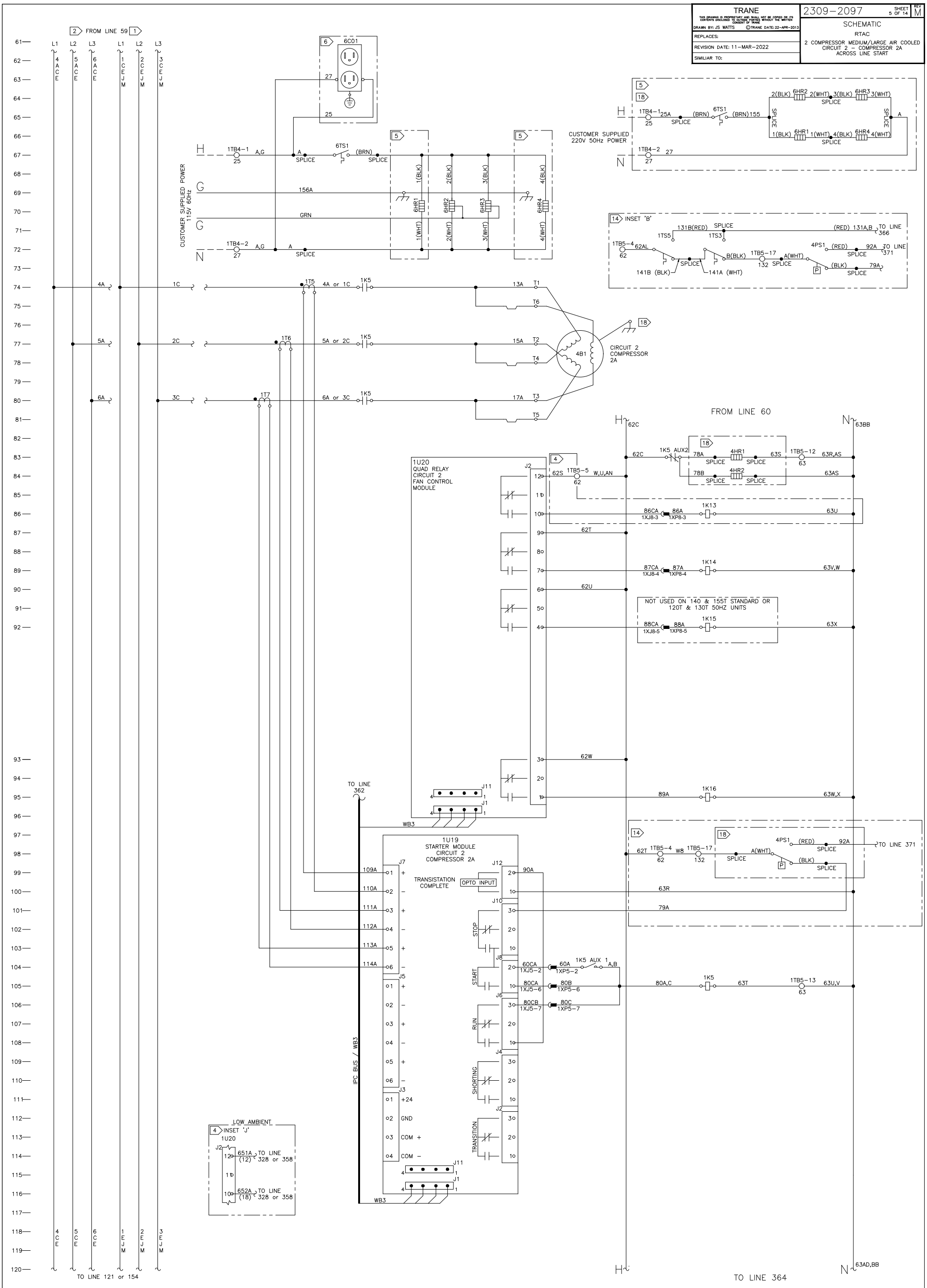
DRAWN BY: JS WATTS ©TRANE DATE: 22-APR-2013
REPLACES:
REVISION DATE: 11-MAR-2022
SIMILIAR TO:

2309-2097 SHEET 5 OF 14 REV M

SCHEMATIC
RTAC
2 COMPRESSOR MEDIUM/LARGE AIR COOLED
CIRCUIT 2 - COMPRESSOR 2A
ACROSS LINE START



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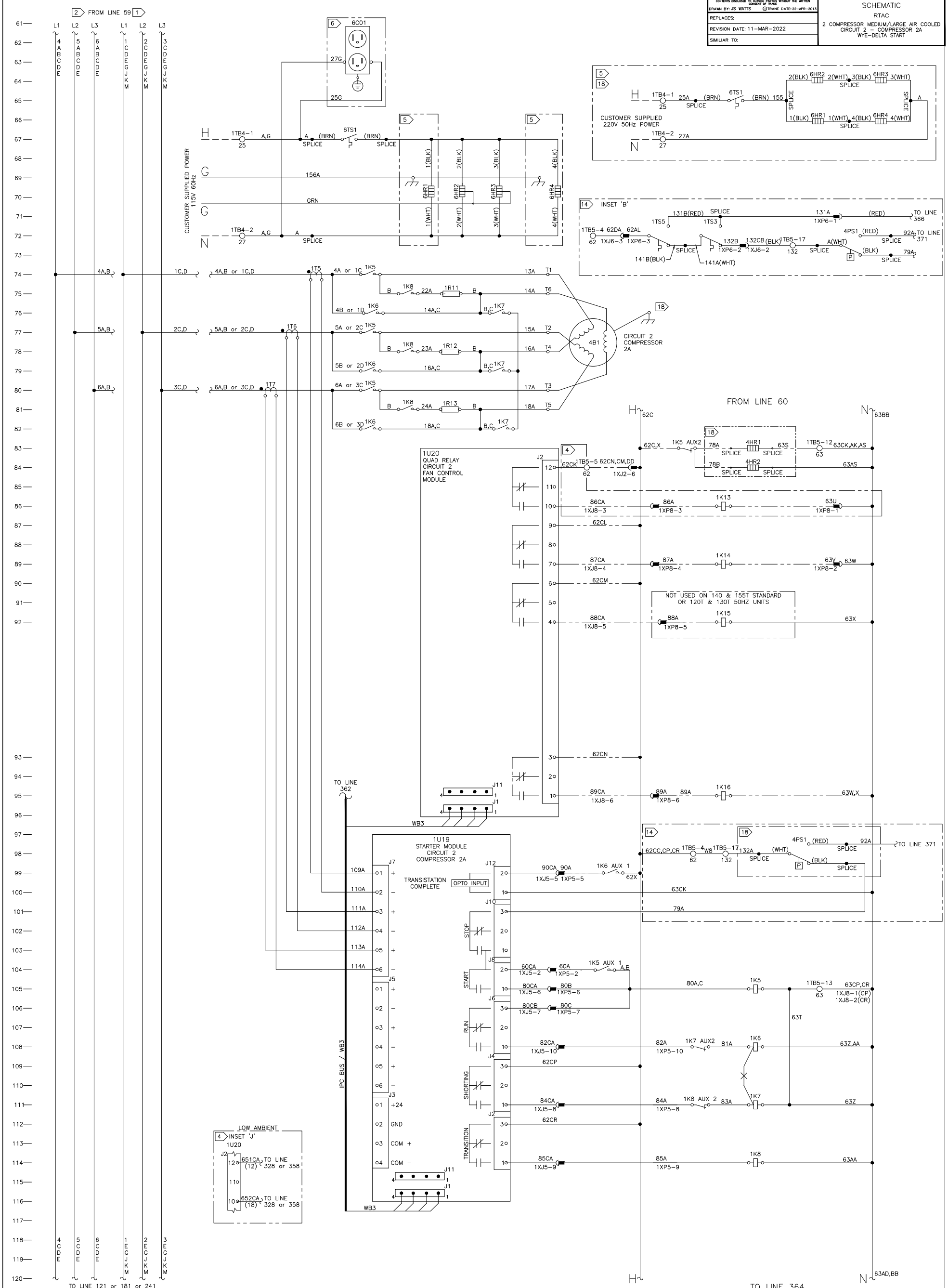
REPLACES:
REVISION DATE: 11-MAR-2022
SIMILIAR TO:

2309-2097 SHEET 6 OF 14 REV M

SCHEMATIC
RTAC
2 COMPRESSOR MEDIUM/LARGE AIR COOLED
CIRCUIT 2 - COMPRESSOR 2A
WYE-DELTA START



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FAN WIRING
170T, 185T, 200T, 225T & 250T STANDARD EFFICIENCY
140T, 155T, 170T, 185T & 200T PREMIUM EFFICIENCY
140, 155, & 170 EXTRA EFFICIENCY
(MEDIUM AIR COOLED)

TRANE	2309–2097	SHEET 7 OF 14	REV M
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DRAWN BY: JS WATTS ©TRANE DATE: 22-APR-2013	RTAC		
REPLACES:	2 COMPRESSOR MEDIUM/LARGE AIR COOLED FANS – CKT 1 & 2		
REVISION DATE: 11-MAR-2022			
SIMILIAR TO:			

FROM LINE 120

DUAL SOURCE POWER OR SUPPLY FOR CIRCUIT 2 — 4C, 5C, 6C, 4D, 5D, 6D, 4E, 5E, 6E

SINGLE SOURCE POWER OR CIRCUIT 1 WITH DUAL SOURCE POWER — 1E, 2E, 3E, 1G, 2G, 3G, 1J, 2J, 3J, 1K, 2K, 3K, 1M, 2M, 3M

CIRCUIT 1

G,L — 1F1 — 28A,D — D — 1K9 — 3B3(RED) — L1 — 3B3 — 8
G,L — 1F2 — 29A,D — D — 1K9 — 3B3(BLU) — L2 — 3B3 — 8
G — 1F3 — 30A,D — D — 1K9 — 3B3(BLK) — L3 — 3B3 — 8

A,C — 1K10 — 3B4(RED) — L1 — 3B4 — 1TB7 — 19
A,C — 1K10 — 3B4(BLU) — L2 — 3B4 — 1TB7 — 19
A,C — 1K10 — 3B4(BLK) — L3 — 3B4 — 1TB7 — 19

1F13 (L) — 125A,B
1F14 (L) — 126A,B
TO LINE
125A TO 13
126A TO 13
125B TO 43
126B TO 44

C — 1K11 — 3B5,8(RED) — L1 — 3B5 — 1TB7 — 19
C — 1K11 — 3B5,8(BLU) — L2 — 3B5 — 1TB7 — 19
C — 1K11 — 3B5,8(BLK) — L3 — 3B5 — 1TB7 — 19

1E — 1F4 — 41A — 1K12 — 3B6,7(RED) — L1 — 3B6 — 1TB7 — 19
2E — 1F5 — 42A — 1K12 — 3B6,7(BLU) — L2 — 3B6 — 1TB7 — 19
3E — 1F6 — 43A — 1K12 — 3B6,7(BLK) — L3 — 3B6 — 1TB7 — 19

3B7,9(RED) — L1 — 3B7 — 1TB7 — 19
3B7,9(BLU) — L2 — 3B7 — 1TB7 — 19
3B7,9(BLK) — L3 — 3B7 — 1TB7 — 19

3B8(RED) — L1 — 3B8 — 1TB7 — 19 — 9
3B8(BLU) — L2 — 3B8 — 1TB7 — 19 — 9
3B8(BLK) — L3 — 3B8 — 1TB7 — 19 — 9

3B9(RED) — L1 — 3B9 — 1TB7 — 19 — 9
3B9(BLU) — L2 — 3B9 — 1TB7 — 19 — 9
3B9(BLK) — L3 — 3B9 — 1TB7 — 19 — 9

1M, 2M, 3M — 8 — TO LINE 302 or 332 CIRCUIT 1 FAN VSD

4E, 5E, 6E — 8 — TO LINE 322 or 349 CIRCUIT 2 FAN VSD

CIRCUIT 2

4C — 1K — 4C or 1K — 1F7 — 44A,D — D — 1K13 — 4B3(RED) — L1 — 4B3 — 8
5C — 2K — 5C or 2K — 1F8 — 45A,D — D — 1K13 — 4B3(BLU) — L2 — 4B3 — 8
6C — 3K — 6C or 3K — 1F9 — 46A,D — D — 1K13 — 4B3(BLK) — L3 — 4B3 — 8

A,C — 1K14 — 4B4(RED) — L1 — 4B4 — 1TB7 — 19
A,C — 1K14 — 4B4(BLU) — L2 — 4B4 — 1TB7 — 19
A,C — 1K14 — 4B4(BLK) — L3 — 4B4 — 1TB7 — 19

C — 1K15 — 4B5,8(RED) — L1 — 4B5 — 1TB7 — 19
C — 1K15 — 4B5,8(BLU) — L2 — 4B5 — 1TB7 — 19
C — 1K15 — 4B5,8(BLK) — L3 — 4B5 — 1TB7 — 19

4D — 1J — 4D or 1J — 1F10 — 57A — 1K16 — 4B6,7(RED) — L1 — 4B6 — 1TB7 — 19
5D — 2J — 5D or 2J — 1F11 — 58A — 1K16 — 4B6,7(BLU) — L2 — 4B6 — 1TB7 — 19
6D — 3J — 6D or 3J — 1F12 — 59A — 1K16 — 4B6,7(BLK) — L3 — 4B6 — 1TB7 — 19

4B7,9(RED) — L1 — 4B7 — 1TB7 — 19
4B7,9(BLU) — L2 — 4B7 — 1TB7 — 19
4B7,9(BLK) — L3 — 4B7 — 1TB7 — 19

4B8(RED) — L1 — 4B8 — 1TB7 — 19 — 9
4B8(BLU) — L2 — 4B8 — 1TB7 — 19 — 9
4B8(BLK) — L3 — 4B8 — 1TB7 — 19 — 9

4B9(RED) — L1 — 4B9 — 1TB7 — 19 — 9
4B9(BLU) — L2 — 4B9 — 1TB7 — 19 — 9
4B9(BLK) — L3 — 4B9 — 1TB7 — 19 — 9

9 INSET 'C'

CIRCUIT #1: 3B8 3B7 3B6 3B5 3B4 3B3
CIRCUIT #2: 4B8 4B7 4B6 4B5 4B4 4B3
200T STANDARD EFFICIENCY
170T HIGH EFFICIENCY
140 EXTRA EFFICIENCY 60 HZ
CONTROL PANEL

CIRCUIT #1: 3B8 3B7 3B6 3B5 3B4 3B3
CIRCUIT #2: 4B7 4B6 4B5 4B4 4B3
185T STANDARD EFFICIENCY
155T HIGH EFFICIENCY
CONTROL PANEL

CIRCUIT #1: 3B9 3B8 3B7 3B6 3B5 3B4 3B3
CIRCUIT #2: 4B9 4B8 4B7 4B6 4B5 4B4 4B3
250T STANDARD EFFICIENCY
200T HIGH EFFICIENCY
170 EXTRA EFFICIENCY 60 HZ
CONTROL PANEL

CIRCUIT #1: 3B9 3B8 3B7 3B6 3B5 3B4 3B3
CIRCUIT #2: 4B8 4B7 4B6 4B5 4B4 4B3
225T STANDARD EFFICIENCY
185T HIGH EFFICIENCY
155 EXTRA EFFICIENCY 60 HZ
CONTROL PANEL

CIRCUIT #1: 3B7 3B6 3B5 3B4 3B3
CIRCUIT #2: 4B7 4B6 4B5 4B4 4B3
170T STANDARD EFFICIENCY
140T HIGH EFFICIENCY
CONTROL PANEL

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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.

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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 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.
FAILURE TO DO THE ABOVE COULD RESULT IN DEATH OR SERIOUS INJURY.
UN MANQUEMENT À LA PROCÉDURE CI–DESSUS PEUT ENTRAÎNER DES BLESSURES GRAVES, VOIRE LA MORT.

⚠ 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 TRANSMISIÓN DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR.
NO REALIZAR LO ANTEDICHO PUEDE PROVOCAR LA MUERTE O LESIONES GRAVES.

FAN WIRING
140T & 155T STANDARD EFFICIENCY
120T & 130T PREMIUM EFFICIENCY 50HZ
(MEDIUM AIR COOLED)

TRANE	2309–2097	SHEET 8 OF 14	REV M
THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF TRANE.	SCHEMATIC		
DRAWN BY: JS WATTS ©TRANE DATE: 22-APR-2013	RTAC		
REPLACES:	2 COMPRESSOR MEDIUM/LARGE AIR COOLED FANS – CKT 1 & 2		
REVISION DATE: 11-MAR-2022			
SIMILIAR TO:			

FROM LINE 118

DUAL SOURCE POWER SUPPLY FOR CIRCUIT 2

SINGLE SOURCE POWER OR CIRCUIT 1 WITH DUAL SOURCE POWER

4C 5C 6C 4D 5D 6D 4E 5E 6E

1E 2E 3E 1J 2J 3J 1K 2K 3K 1M 2M 3M

CIRCUIT 1

G,L 1F1 28A,D — D 1K9 — 3B3(RED) L1 — 3B3 M 3~ — 8

G,L 1F2 29A,D — D 1K9 — 3B3(BLU) L2

G 1F3 30A,D — D 1K9 — 3B3(BLK) L3

A,C 1K10 — 3B4(RED) L1 — 3B4 M 3~ — 1TB7 19

A,C 1K10 — 3B4(BLU) L2

A,C 1K10 — 3B4(BLK) L3

1F13 L — 125A,B — TO LINE 125B TO 14

1F14 L — 126A,B — TO LINE 126B TO 44

C 1K11 — 3B5(RED) L1 — 3B5 M 3~ — 1TB7 19

C 1K11 — 3B5(BLU) L2

C 1K11 — 3B5(BLK) L3

1E 1F4 41A — 41A 1K12 — 3B6,7(RED) — 3B6(RED) L1 — 3B6 M 3~ — 1TB7 19

2E 1F5 42A — 42A 1K12 — 3B6,7(BLU) — 3B6(BLU) L2

3E 1F6 43A — 43A 1K12 — 3B6,7(BLK) — 3B6(BLK) L3

3B7(RED) L1 — 3B7 M 3~ — 1TB7 19 — 9

3B7(BLU) L2

3B7(BLK) L3

1M 2M 3M — 8 TO LINE 302 or 332 CIRCUIT 1 FAN VSD

4E 5E 6E — 8 TO LINE 302 or 332 CIRCUIT 2 FAN VSD

CIRCUIT 2

4C or 1K 1F7 44A,D — D 1K13 — 4B3(RED) L1 — 4B3 M 3~ — 8

5C or 2K 1F8 45A,D — D 1K13 — 4B3(BLU) L2

6C or 3K 1F9 46A,D — D 1K13 — 4B3(BLK) L3

A 1K14 — 4B4(RED) L1 — 4B4 M 3~ — 1TB7 19

A 1K14 — 4B4(BLU) L2

A 1K14 — 4B4(BLK) L3

4D or 1J 1F10 57A — 1K16 — 4B5,6(RED) — 4B5(RED) L1 — 4B5 M 3~ — 1TB7 19

5D or 2J 1F11 58A — 1K16 — 4B5,6(BLU) — 4B5(BLU) L2

6D or 3J 1F12 59A — 1K16 — 4B5,6(BLK) — 4B5(BLK) L3

4B6(RED) L1 — 4B6 M 3~ — 1TB7 19

4B6(BLU) L2

4B6(BLK) L3

9 INSET 'D'

CIRCUIT #1	3B6	3B5	3B4	3B3	CONTROL PANEL
CIRCUIT #2	4B6	4B5	4B4	4B3	

140T STANDARD EFFICIENCY
120T HIGH EFFICIENCY 50Hz

CIRCUIT #1	3B7	3B6	3B5	3B4	3B3	CONTROL PANEL
CIRCUIT #2		4B6	4B5	4B4	4B3	

155T STANDARD EFFICIENCY
130T HIGH EFFICIENCY 50Hz

⚠ WARNING

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FAN WIRING
225T/250T PREMIUM EFFICIENCY 60HZ
185 & 200 EXTRA EFFICIENCY 60HZ
(TWO COIL BOXES)

TRANE	2309–2097	SHEET 9 OF 14	REV M
THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF TRANE.	SCHEMATIC		
DRAWN BY: JS WATTS ©TRANE DATE: 22-APR-2013	RTAC		
REPLACES:	2 COMPRESSOR MEDIUM/LARGE AIR COOLED FANS – CKT 1 & 2		
REVISION DATE: 11-MAR-2022			
SIMILIAR TO:			

FROM LINE 120

DUAL SOURCE POWER OR SUPPLY FOR CIRCUIT 2 — 4 C D E, 5 C D E, 6 C D E

SINGLE SOURCE POWER OR CIRCUIT 1 WITH DUAL SOURCE POWER — 1 E G K M, 2 E G K M, 3 E G K M

CIRCUIT 1

G,L 1F1 28A,D — D 1K9 — 3B3(RED) L1, 3B3(BLU) L2, 3B3(BLK) L3 — 3B3 M 3~ — 8

G,L 1F2 29A,D — D 1K9 — 3B3(BLU) L2

G 1F3 30A,D — D 1K9 — 3B3(BLK) L3

1F13 L, 1F14 L — 125A,B, 126A,B — TO LINE 125B TO 14, 126B TO 44

A,C 1K10 — 3B13(RED) L1, 3B13(BLU) L2, 3B13(BLK) L3 — 3B13 M 3~ — 1TB7 19

C 1K11 — 3B4,14(RED) — 3B4(RED) L1, 3B14(RED) L1 — 3B4 M 3~ — 1TB7 19

3B4,14(BLU) — 3B4(BLU) L2, 3B14(BLU) L2 — 3B14 M 3~ — 1TB7 19

3B4,14(BLK) — 3B4(BLK) L3, 3B14(BLK) L3

1E 1F4 41A — 1K12 — 3B5,15(RED) — 3B5,6(RED) L1 — 3B5 M 3~ — 1TB7 19

2E 1F5 42A — 1K12 — 3B5,15(BLU) — 3B5,6(BLU) L2

3E 1F6 43A — 1K12 — 3B5,15(BLK) — 3B5,6(BLK) L3

3B6(RED) L1 — 3B6 M 3~ — 1TB7 19

3B6(BLU) L2

3B6(BLK) L3

3B15,16(RED) L1 — 3B15 M 3~ — 1TB7 19

3B15,16(BLU) L2

3B15,16(BLK) L3

3B16(RED) L1 — 3B16 M 3~ — 1TB7 19

3B16(BLU) L2

3B16(BLK) L3

1M, 2M, 3M — 8 TO LINE 302 or 332 CIRCUIT 1 FAN VSD

4E, 5E, 6E — 8 TO LINE 302 or 332 CIRCUIT 2 FAN VSD

CIRCUIT 2

4C, 5C, 6C — 1K, 2K, 3K — 4C or 1K, 5C or 2K, 6C or 3K — 1F7 44A,D, 1F8 45A,D, 1F9 46A,D — D 1K13 — 4B3(RED) L1, 4B3(BLU) L2, 4B3(BLK) L3 — 4B3 M 3~ — 8

A,C 1K14 — 4B13(RED) L1, 4B13(BLU) L2, 4B13(BLK) L3 — 4B13 M 3~ — 1TB7 19

C 1K15 — 4B4,14(RED) — 4B4(RED) L1, 4B14(RED) L1 — 4B4 M 3~ — 1TB7 19

4B4,14(BLU) — 4B4(BLU) L2, 4B14(BLU) L2 — 4B14 M 3~ — 1TB7 19

4B4,14(BLK) — 4B4(BLK) L3, 4B14(BLK) L3

4D, 5D, 6D — 1J, 2J, 3J — 4D or 1K, 5D or 2K, 6D or 3K — 1F10 57A, 1F11 58A, 1F12 59A — 1K16 — 4B5,15(RED) — 4B5,6(RED) L1 — 4B5 M 3~ — 1TB7 19

4B5,15(BLU) — 4B5,6(BLU) L2

4B5,15(BLK) — 4B5,6(BLK) L3

4B6(RED) L1 — 4B6 M 3~ — 9

4B6(BLU) L2

4B6(BLK) L3

4B15,16(RED) L1 — 4B15 M 3~ — 1TB7 19

4B15,16(BLU) L2

4B15,16(BLK) L3

4B16(RED) L1 — 4B16 M 3~ — 9

4B16(BLU) L2

4B16(BLK) L3

9 INSET 'E'

CIRCUIT #2			CIRCUIT #1				
4B13	4B14	4B15	3B6	3B5	3B4	3B3	CONTROL PANEL
225T HIGH EFFICIENCY 60HZ 185 EXTRA EFFICIENCY 60HZ							
4B3	4B4	4B5	3B16	3B15	3B14	3B13	CONTROL PANEL

CIRCUIT #2				CIRCUIT #1				
4B13	4B14	4B15	4B16	3B6	3B5	3B4	3B3	CONTROL PANEL
250T HIGH EFFICIENCY 60HZ 200 EXTRA EFFICIENCY 60HZ								
4B3	4B4	4B5	4B6	3B16	3B15	3B14	3B13	CONTROL PANEL

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TRANE	2309–2097	SHEET 10 OF 14	REV M
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DRAWN BY: JS WATTS ©TRANE DATE: 22–APR–2013	RTAC		
REPLACES:	2 COMPRESSOR MEDIUM/LARGE AIR COOLED VSD FANS – CIRCUITS 1 & 2		
REVISION DATE: 11–MAR–2022			
SIMILIAR TO:			

CIRCUIT 1 & 2
VSD ONLY FAN WIRING

DUAL SOURCE POWER SUPPLY FOR CIRCUIT 2 FROM LINES 146–148 or 216–218 or 268–270

SINGLE SOURCE POWER OR CIRCUIT 1 WITH DUAL SOURCE POWER FROM LINES 142–144 or 212–214 or 264–266

4E 5E 6E

1P 2P 3P

1M,P 2M,P 3M,P — 1F18 1F19 1F20 — 34A 35A 36A

37A

1U28 FAN VSD

91(L1) 92(L2) 93(L3) 95(PE)

01 03 FAULT

53 55 SPEED

12 18 RUN

96(U) 97(V) 98(W) 99(PE)

3B3(RED) 3B3(BLU) 3B3(BLK) 3B3

3B3 M 3~

TO LINES 375 / 376: 120CA 1XJ2–8 — 120A 1XP2–8; 121CA 1XJ2–2 — 121A 1XP2–2

TO LINES 368 / 370: 119CA 1XJ2–1 — 119A 1XP2–1; 128CA 1XJ2–3 — 128A 1XP2–3

151CA 151A 1XJ2–4 1XP2–4; 152CA 152A 1XJ2–5 1XP2–5

TO LINES 54 / 56

2U28 FAN VSD

1M or 4E 2M or 5E 3M or 6E — 1F21 1F22 1F23 — 50A 51A 52A

53A

TO LINES 377 / 378: 123CA 1XJ4–2 — 123A 1XP4–2; 124CA 1XJ4–3 — 124A 1XP4–3

TO LINES 371 / 373: 122CA 1XJ4–1 — 122A 1XP4–1; 129CA 1XJ4–4 — 129A 1XP4–4

4B3(RED) 4B3(BLU) 4B3(BLK) 4B3

4B3 M 3~

651CA 651A 1XJ4–5 1XP4–5; 652CA 652A 1XJ4–6 1XP4–6

TO LINES 114 / 116

CIRCUIT 1 & 2
575V VSD FAN WIRING

DUAL SOURCE POWER SUPPLY FOR CIRCUIT 2 FROM LINES 146–148 or 216–218 or 268–270

SINGLE SOURCE POWER OR CIRCUIT 1 WITH DUAL SOURCE POWER FROM LINES 142–144 or 212–214 or 264–266

4E 5E 6E

1P 2P 3P

13

1M,P 2M,P 3M,P — 1F18 1F19 1F20 — 31A 32A 33A

10 1T10

H1 H4 H7 H2 H5 H8 H3 H6 H9

X1 X4 X2 X5 X3 X6

34A 35A 36A

1U28 FAN VSD

91(L1) 92(L2) 93(L3) 95(PE)

37A

01 03 FAULT

53 55 SPEED

12 18 RUN

96(U) 97(V) 98(W) 99(PE)

3B3(RED) 3B3(BLU) 3B3(BLK) 3B3

3B3 M 3~

TO LINES 375 / 376: 120CA 1XJ2–8 — 120A 1XP2–8; 121CA 1XJ2–2 — 121A 1XP2–2

TO LINES 368 / 370: 119CA 1XJ2–1 — 119A 1XP2–1; 128CA 1XJ2–3 — 128A 1XP2–3

151CA 151A 1XJ2–4 1XP2–4; 152CA 152A 1XJ2–5 1XP2–5

TO LINES 54 / 56

13

1M or 4E 2M or 5E 3M or 6E — 1F21 1F22 1F23 — 47A 48A 49A

10 1T11

H1 H4 H7 H2 H5 H8 H3 H6 H9

X1 X4 X2 X5 X3 X6

50A 51A 52A

2U28 FAN VSD

91(L1) 92(L2) 93(L3) 95(PE)

53A

01 03 FAULT

53 55 SPEED

12 18 RUN

96(U) 97(V) 98(W) 99(PE)

4B3(RED) 4B3(BLU) 4B3(BLK) 4B3

4B3 M 3~

TO LINES 377 / 378: 123CA 1XJ4–2 — 123A 1XP4–2; 124CA 1XJ4–3 — 124A 1XP4–3

TO LINES 371 / 373: 122CA 1XJ4–1 — 122A 1XP4–1; 129CA 1XJ4–4 — 129A 1XP4–4

651CA 651A 1XJ4–5 1XP4–5; 652CA 652A 1XJ4–6 1XP4–6

TO LINES 114 / 116

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TRANE	2309–2097	SHEET 11 OF 14	REV M
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DRAWN BY: JS WATTS ©TRANE DATE: 22–APR–2013	RTAC		
REPLACES:	2 COMPRESSOR MEDIUM/LARGE AIR COOLED COMMON CONTROL		
REVISION DATE: 11–MAR–2022			
SIMILIAR TO:			

CE INCORPORATED

FROM LINES 33 & 95 (WB1, WB2, WB3, WB5)

IPC BUS / WB1, 2, 3, 5

TO LINE 414

17 INSET 'G' 5K1 AUX

161A 1TB6–1 (BRN)

162A 1TB6–2 (BLU)

1TB6–3

17 INSET 'G' W3

1TB6–5 (WHT)

1TB6–4 (BLK)

6S1 — 1 +, 3 –, 24V, 2, 4

VENT ONLY

15

11

FROM LINE 120 — H~ — N~ 63AD

1U23 DUAL HIGH VOLTAGE INPUT HIGH TEMPERTURE CUTOUT MAIN CONTROL PANEL — OPTO INPUT — 131CA,B(RED) 1XJ6–1 → TO 1TS3 LINE 71 — 63DE

1U22 DUAL HIGH VOLTAGE INPUT HIGH PRESSURE CUTOUT — 91A → CIRCUIT 1 COMPRESSOR 1A TO N.O. CONTACT 3PS1 LINE 36 — 63CL

92A → CIRCUIT 2 COMPRESSOR 2A TO N.O. CONTACT 4PS1 LINE 98 or 72 — 63CJ

1U27 DUAL ANALOG INPUT/OUTPUT CONDENSOR FAN VSD SPEED CONTROL (OPTIONAL)

TO LINE 306 or 336 FAN INVERTER CIRCUIT #1 — 119CA (53) +10VDC or +20VDC; 128CA (55) GND — INPUT

TO LINE 319 or 349 FAN INVERTER CIRCUIT #2 — 122CA (53) +10VDC or +20VDC; 129CA (55) GND — INPUT

1U26 DUAL LOW VOLTAGE BINARY INPUT CONDENSOR FAN VSD FAULT INPUT (OPTIONAL)

TO LINE 306 or 336 FAN INVERTER CIRCUIT #1 — 120A (01); 121CA (03)

TO LINE 319 or 349 FAN INVERTER CIRCUIT #2 — 123CA (01); 124CA (03)

1U25 DUAL LOW VOLTAGE INPUT EVAPORATOR WATER FLOW PROVING

164A

163A

1U7 DUAL LOW VOLTAGE INPUT ICE MAKING CONTROL (OPTIONAL)

5K18

1U6 ANALOG INPUT/OUTPUT EXTERNAL CURRENT LIMIT & EXTERNAL CHILLED WATER SETPOINT (OPTIONAL)

INTERNAL VOLTAGE SOURCE +10VDC for 2–10V INPUT +20VDC for 4–20mA INPUT — CUSTOMER CURRENT LIMIT SETPOINT INPUT 2–10V or 4–20mA INPUT — +10VDC or +20VDC — INPUT — GND

1U5 DUAL LOW VOLTAGE BINARY INPUT EXTERNAL CIRCUIT LOCKOUT

5K16 CIRCUIT 1 EXTERNAL CIRCUIT LOCKOUT SWITCH

5K17 CIRCUIT 2 EXTERNAL CIRCUIT LOCKOUT SWITCH

1U4 DUAL LOW VOLTAGE EMERGENCY STOP / AUTO STOP

5K15 AUTO STOP — W1

5K14 EMERGENCY STOP — W2

TO LINE 49 — WB4

1U2 POWER SUPPLY — J1, J11, J2, J3, J4, J5

24VAC FROM LINES 16, 17 — 115CA, 117CA, 118CA

161A, 162A → TO LINE 361

BLK, WHT; RED, BLK, GRN, WHT; RED, GRY/BLK, BLU, GRY

16 TO LINE 492 COMMUNICATION LINK TO 7U2 IN REMOTE UNIT CONTROL PANEL (CUSTOMER SUPPLIED)

WB6 → TO LINE 432 CHILLER MOUNTED SENSORS

IPC BUS / WB7

6U1 MAIN PROCESSOR & EASY VIEW OR OPTIONAL DYNA VIEW OPERATOR INTERFACE — J1 — RED +24V; BLK GND; GRN COM+; WHT COM–

SERVICE TOOL SERIAL COMMUNICATION RS232, DB–9 FEMALE CONNECTOR, (DTE)

18

1U21 DUAL TRIAC CIRCUIT 2 COMPRESSOR 2A MODULATING CONTROL LOAD/UNLOAD — 62CS → 1TB5–7 62CT,CW 62; 93A; 62CT; 94A

SPLICE 93B SPLICE 4L2 LOAD SPLICE 63AJ SPLICE 63AG

SPLICE 94B SPLICE 4L3 UNLOAD

1TB5–6 62CU 62

1U17 DUAL TRIAC STEP LOAD CONTROL — 62CU; 97A; 62CW; 98A

CIRCUIT 1 COMPRESSOR 1A 3L1 — SPLICE 63AM 1TB5–14 63 63AG

CIRCUIT 2 COMPRESSOR 2A 4L1 — SPLICE 63AK 1TB5–15 63 63CJ,CL

1U16 DUAL TRIAC CIRCUIT 1 COMPRESSOR 1A MODULATING CONTROL LOAD/UNLOAD — 62CX; 99A SPLICE 99B 3L2 LOAD SPLICE 63AP SPLICE AL 1TB5–16 63 CH 1XJ2–7; 62CY 1TB5–8 62 62CX; 100A SPLICE 100B SPLICE 3L3 UNLOAD

CUSTOMER SUPPLIED 115V/60HZ or 220V/50HZ — H~ N~

1U13 DUAL RELAY ICE MAKING STATUS (ACTIVE or COMPLETED) (OPTIONAL) — 5K19

1U12 QUAD RELAY UNIT OPERATING STATUS — 5K4; 5K5; 5K6; 5K7; 5K8; 5K9; 5K10; 5K11

1U10 DUAL RELAY CHILLED WATER PUMP CONTROL — FROM LINE 8

TO LINE 424 — WB8

1U8 COM 3 or COM5 TRACER COMMUNICATIONS (OPTIONAL) — SHIELDED TWISTED PAIR LEADS → TO TRACER OR OTHER TRANE REMOTE DEVICE; SHIELDED TWISTED PAIR LEADS → TO NEXT UNIT

1U24 SYMBIO BCI2–C BACNET COMMUNICATIONS (OPTIONAL) — J12; J13 LINK; J14 LINK — SHIELDED TWISTED PAIR LEADS → TO BUILDING AUTOMATION SYSTEM OR OTHER TRANE REMOTE DEVICE; SHIELDED TWISTED PAIR LEADS → TO NEXT UNIT

TO LINE 414 — WB8

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TRANE	2309-2097	SHEET 12 OF 14	REV M
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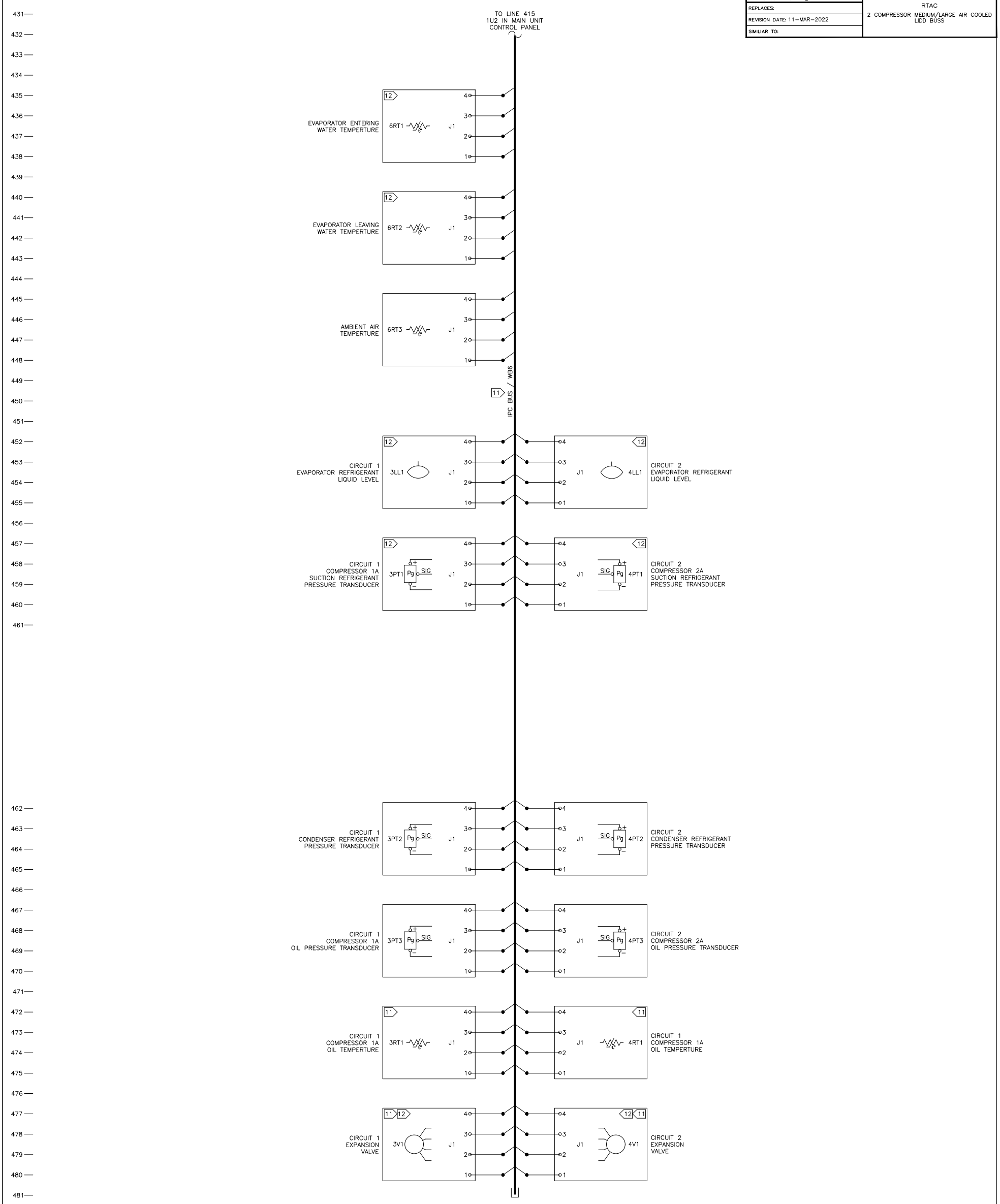
DRAWN BY: JS WATTS ©TRANE DATE: 22-APR-2013	RTAC		
REPLACES:	2 COMPRESSOR MEDIUM/LARGE AIR COOLED LIDD BUSS		
REVISION DATE: 11-MAR-2022			
SIMILIAR TO:			



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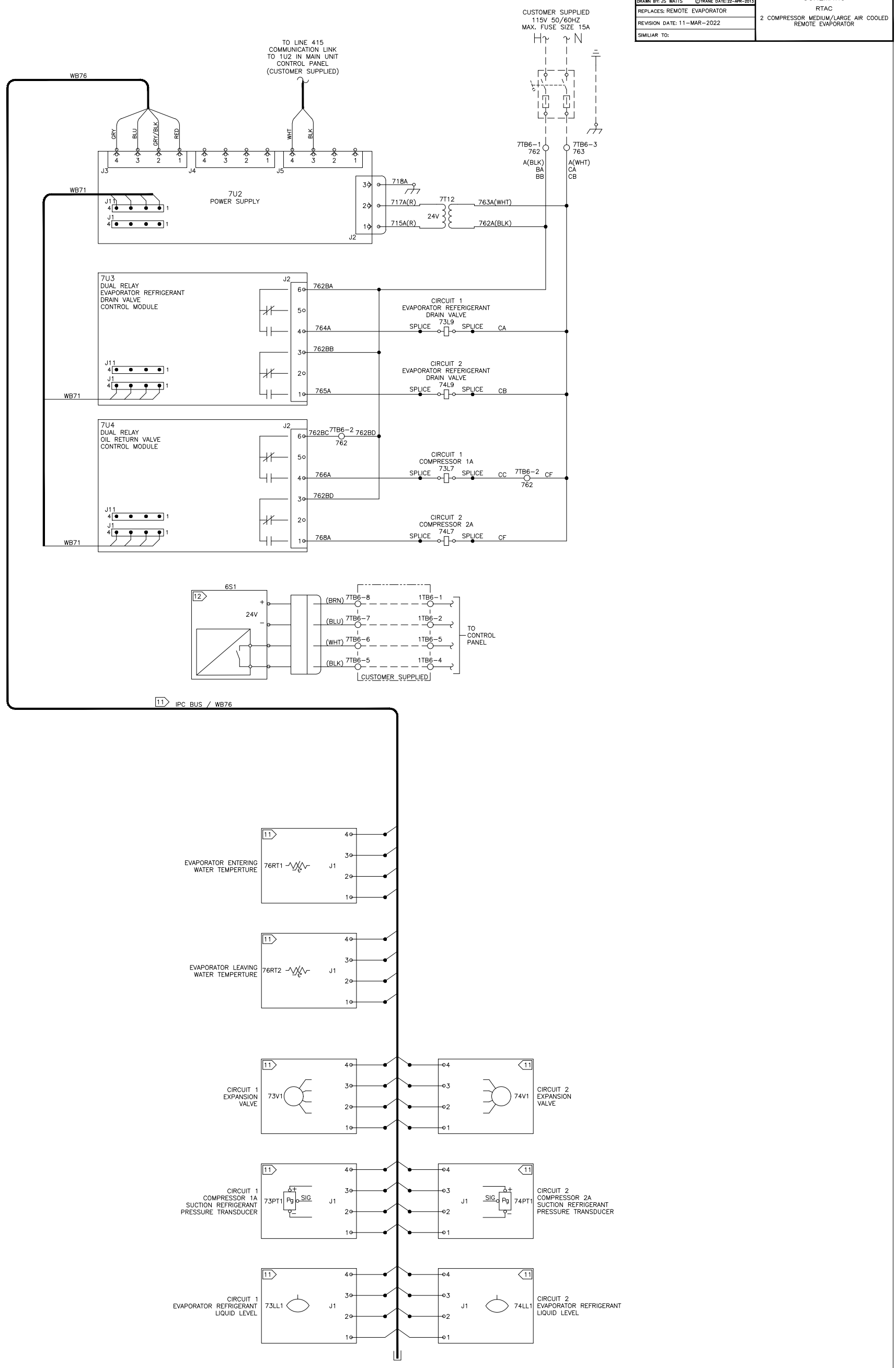
REPLACES: REMOTE EVAPORATOR	2 COMPRESSOR MEDIUM/LARGE AIR COOLED REMOTE EVAPORATOR		
REVISION DATE: 11-MAR-2022			
SIMILIAR TO:			



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DRAWN BY: M WHITAKER ©TRANE DATE: 3–MAR–2014	RTAC		
REPLACES:	CE OPTIONIAL CONFIGURATIONS		
REVISION DATE: 11–MAR–2022			
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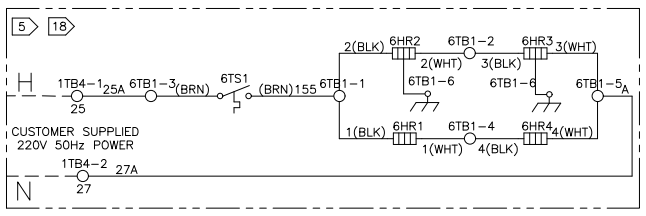

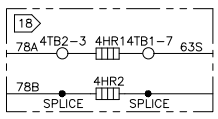

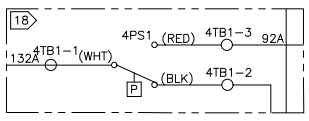

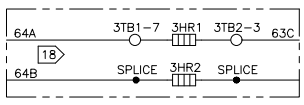

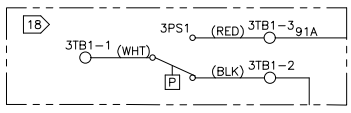

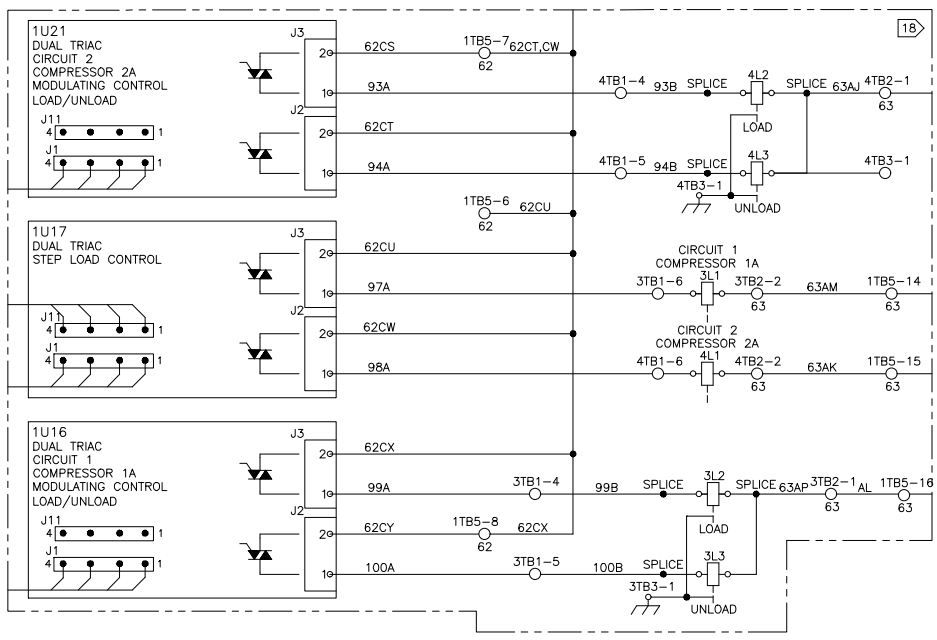

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