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| CONTROL TRANSFORMER SECONDARY CLASS CC |                              |        |
|----------------------------------------|------------------------------|--------|
| DESIGNATION                            | VOLTAGE                      | RATING |
| 1F13<br>2F13                           | 380V<br>400V<br>460V<br>575V | 10A    |
| CONTROL TRANSFORMER PRIMARY CLASS CC   |                              |        |
| 1F15<br>1F16<br>2F15<br>2F16           | 380V<br>400V<br>460V<br>575V | 5A     |

| CONDENSER FANS CLASS CC |           |        |
|-------------------------|-----------|--------|
| DESIGNATION             | TONNAGE   | RATING |
| 1F1                     |           |        |
| 1F2                     |           |        |
| 1F3                     |           |        |
| 1F4                     | 280       |        |
| 1F5                     | 310       |        |
| 1F6                     | 350 / 390 |        |
| 1F7                     | 410       |        |
| 1F8                     | 450       |        |
| 1F9                     | 500 / 520 |        |
| 1F10                    |           |        |
| 1F11                    |           |        |
| 1F12                    |           |        |

| CONDENSER FANS CLASS CC |           |        |
|-------------------------|-----------|--------|
| DESIGNATION             | TONNAGE   | RATING |
| 2F1                     | 280       |        |
| 2F2                     | 310       |        |
| 2F3                     | 350 / 390 |        |
| 2F4                     | 410       |        |
| 2F5                     | 450       |        |
| 2F6                     | 500 / 520 |        |
| 2F7                     | 280       |        |
| 2F8                     | 310       |        |
| 2F9                     | 350 / 390 |        |
| 2F10                    | 410       |        |
| 2F11                    | 450       |        |
| 2F12                    | 500 / 520 |        |

## GENERAL NOTES:

1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25C (77F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY, WITH ALL POWER REMOVED, AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. WIRES REPRESENTED BY DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. WIRES REPRESENTED BY SOLID LINES INDICATE FACTORY INSTALLED WIRING.
3. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE OPTIONAL COMPONENTS/WIRING.
4. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF COMPONENT CONTACTS BY LINE NUMBER.  
AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
5. ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE, AND LOCAL CODES.
6. CLASS 1 FIELD WIRING INSULATION RATING IS REQUIRED TO BE EQUAL TO OR GREATER THAN THE EQUIPMENT SUPPLY VOLTAGE RATING. CLASS 2 FIELD WIRING INSULATION IS REQUIRED TO BE RATED AT 300 V MINIMUM.

## FLAG NOTES:

1. COMPONENT (LLIDS) ARE NOT NECESSARILY WIRED ON THE IPC BUS IN THE ORDER SHOWN ON SCHEMATIC.
2. EXTERNAL STOP AND EMERGENCY STOP CONTACTS ARE JUMPERED IN THE FACTORY BY JUMPERS W1 & W2 TO ENABLE UNIT OPERATION. IF REMOTE CONTROL IS DESIRED, REMOVE THE JUMPERS AND CONNECT TO THE DESIRED CONFIGURATION.
3. CONTACT CLOSURE ENABLES ICE MAKING.
4. FIELD ASSIGNED PROGRAMMABLE RELAYS.
5. ALL UNIT POWER WIRING MUST BE COPPER CONDUCTORS ONLY AND HAVE A MINIMUM INSULATION TEMPERATURE RATING OF 90C.
6. CONNECTIONS ARE INTENDED FOR CLASS 2 ONLY.
7. ONLY ONE OF THE SHOWN VOLTAGES CAN BE UTILIZED. REFER TO THE UNIT NAMEPLATE FOR THE CORRECT SUPPLY VOLTAGE.
8. POWER FOR THE EVAPORATOR HEATER AND/OR OPTIONAL CONVENIENCE OUTLET IS SUPPLIED BY A CUSTOMER PROVIDED POWER SUPPLY. MAX FUSE SIZE IS 20 AMPS FOR EVAPORATORS AND 15 AMPS FOR OPTIONAL CONVENIENCE OUTLET.
9. WIRING FOR 1K24 AS SHOWN IN INSET WHEN CHILLED WATER SETPOINT IS ENABLED VIA MODULE 1K25.
10. TERMINALS 5 & 6 ARE TO BE WIRED TO CUSTOMER DEMAND LIMIT SETPOINT. INPUT CONFIGURED 2-10 VDC FROM FACTORY. SEE OPERATING INSTRUCTIONS TO CONFIGURE FOR 4-20 mA.
11. TERMINALS 2 & 3 ARE TO BE WIRED TO CUSTOMER CHILLED WATER SETPOINT. INPUT CONFIGURED 2-10 VDC FROM FACTORY. SEE OPERATING INSTRUCTIONS TO CONFIGURE FOR 4-20 mA.
12. TERMINALS 1 & 3 ARE TO BE WIRED TO REPORT % CAPACITY. OUTPUT CONFIGURED 2-10 VDC.
13. WIRES 4B, 5B, 6B, 7B, 8B, 9B ONLY PRESENT WHEN PARALLEL WIRE SETS ARE USED.
14. RELAY RATINGS AT 120VAC: 7.2 AMPS RESISTIVE, 2.88 AMPS PILOT DUTY, 1/3 HP, 7.2 FLA.  
RELAY RATINGS AT 240VAC: 5 AMPS GENERAL PURPOSE.
15. SEE AFD PARAMETER LABEL X39003970 FOR ADDITIONAL CONFIGURATION INFORMATION.
16. CUSTOMER SUPPLIED POWER 115/60/1PH OR 230/50/1PH TO POWER RELAYS. MAX FUSE SIZE IS 20 AMPS. GROUND ALL CUSTOMER SUPPLIED POWER SUPPLIES AS REQUIRED BY APPLICABLE CODES. GREEN GROUND SCREWS ARE PROVIDED IN UNIT CONTROL PANEL.
17. OPTIONAL HIGH AND WIDE AMBIENT CONFIGURATIONS. REFERENCE SHEET 13.
18. SHIELDING TO BE GROUNDED AT THE JUNCTION BOX ONLY.
19. OPTIONAL TOTAL FREE COOLING

**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 TOUTS 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 MANŒUVREMENT 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. ASEGURESE 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 ANTERIOR PUEDE PROVOCAR LA MUERTE O LESIONES GRAVES.

**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**

UTILISER QUE DES CONDUCTEURS EN CUIVRE! LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS. UN MANŒUVREMENT À LA PROCÉDURE CI-DESSUS PEUT ENTRAÎNER DES DOMMAGES À L'EQUIPEMENT.

**AVISO**

¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE! EN CUIVRE! LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES. NO REALIZAR LO ANTERIOR PUEDE PROVOCAR DAÑOS EN EL EQUIPO.

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CAD: CREO SCHEMATICS

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STANDARD EFFICIENCY 390, 520T  
HIGH EFFICIENCY 280-500T

**57227670**SHEET  
1REV  
M

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|--------|--------------------------------------------------------------------------------|--------|
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| DEVICE | DESCRIPTION                                                | ZONE   |
|--------|------------------------------------------------------------|--------|
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| DEVICE PREFIX LOCATION CODE |                             |
|-----------------------------|-----------------------------|
| AREA                        | LOCATION                    |
| 1                           | CONTROL PANEL 1             |
| 2                           | CONTROL PANEL 2             |
| 3                           | CIRCUIT 1                   |
| 4                           | CIRCUIT 2                   |
| 5                           | CUSTOMER REMOTELY INSTALLED |
| 6                           | UNIT WIRING                 |

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# LEGEND

STANDARD EFFICIENCY 390, 520T  
 HIGH EFFICIENCY 280-500T

57227670

SHEET 2  
 REV M

| DEVICE | DESCRIPTION                                                                | ZONE   |
|--------|----------------------------------------------------------------------------|--------|
| 3B1    | Switch; High Pressure Cutout - Compressor 1A                               | 12-643 |
| 3B2    | Switch; High Pressure Cutout - Compressor 1B                               | 9-384  |
| 3B3    | Temperature Switch; Ventilation Fan Enable                                 | 13-719 |
| 3BL1   | Level Sensor; Oil Loss - Compressor 1A                                     | 11-595 |
| 3BP1   | Pressure Transducer; Suction Pressure - Circuit 1A                         | 15-860 |
| 3BP2   | Pressure Transducer; Discharge Pressure Circuit 1                          | 15-864 |
| 3BP3   | Pressure Transducer; Oil Pressure Circuit 1A                               | 15-868 |
| 3BP4   | Liquid Line Pressure - Circuit 1                                           | 15-872 |
| 3BP11  | Pressure Transducer; Suction Pressure - Circuit 1B                         | 15-840 |
| 3BP13  | Pressure Transducer; Oil Pressure Circuit 1B                               | 15-844 |
| 3BT1   | Temperature Sensor; Oil Temperature - Circuit 1A                           | 15-844 |
| 3BT2   | Temperature Sensor; Discharge Temperature - Circuit 1A                     | 15-848 |
| 3BT3   | Temperature Sensor; Liquid Line Temperature Microchannel Evap - Circuit 1A | 15-852 |
| 3BT4   | Temperature Sensor; Evaporator Pool Temperature - Circuit 1A               | 15-876 |
| 3BT11  | Temperature Sensor; Oil Temperature - Circuit 1B                           | 15-832 |
| 3BT12  | Temperature Sensor; Discharge Temperature - Circuit 1B                     | 15-836 |
| 3E30   | Heater; Oil Separator - Circuit 1                                          | 9-410  |
| 3E31   | Heater; Crankcase - Compressor 1A                                          | 9-412  |
| 3E32   | Heater; Crankcase - Compressor 1B                                          | 9-407  |
| 3K1    | Electronic Expansion Valve; Circuit 1A                                     | 15-856 |
| 3M1    | Motor; Compressor 1A                                                       | 4-34   |
| 3M2    | Motor; Compressor 1B                                                       | 4-44   |
| 3M3    | Solenoid; Proportional Unload Control - Compressor 1A                      | 9-420  |
| 3M4    | Solenoid; Proportional Load Control - Compressor 1A                        | 9-418  |
| 3M5    | Solenoid; Proportional Unload Control - Compressor 1B                      | 9-428  |
| 3M6    | Solenoid; Proportional Load Control - Compressor 1B                        | 9-426  |
| 3M7    | Solenoid; Oil - Compressor 1A                                              | 9-445  |
| 3M8    | Solenoid; Step Load Control - Compressor 1A                                | 9-442  |
| 3M9    | Solenoid; Oil - Compressor 1B                                              | 11-574 |
| 3M10   | Solenoid; Step Load Control - Compressor 1B                                | 11-571 |
| 3M11   | Motor; Condenser Fan - Circuit 1                                           | 6-152  |
| 3M12   | Motor; Condenser Fan - Circuit 1                                           | 6-167  |
| 3M13   | Motor; Condenser Fan - Circuit 1                                           | 6-157  |
| 3M14   | Motor; Condenser Fan - Circuit 1                                           | 6-172  |
| 3M15   | Motor; Condenser Fan - Circuit 1                                           | 6-162  |
| 3M16   | Motor; Condenser Fan - Circuit 1                                           | 6-177  |
| 3M17   | Motor; Condenser Fan - Circuit 1                                           | 6-185  |
| 3M18   | Motor; Condenser Fan - Circuit 1                                           | 6-205  |
| 3M19   | Motor; Condenser Fan - Circuit 1                                           | 6-190  |
| 3M20   | Motor; Condenser Fan - Circuit 1                                           | 6-210  |
| 3M21   | Motor; Condenser Fan - Circuit 1                                           | 6-195  |
| 3M22   | Motor; Condenser Fan - Circuit 1                                           | 6-215  |
| 3M23   | Motor; Condenser Fan - Circuit 1                                           | 6-200  |
| 3M24   | Motor; Condenser Fan - Circuit 1                                           | 6-220  |
| 3M25   | Solenoid; Condenser Liquid Receiver, Circuit 1                             | 11-545 |
| 3M41   | Motor; Ventilation Fan 1                                                   | 13-720 |
| 3T1    | AFD; Compressor Circuit 1                                                  | 13-713 |
| 3T9    | Choke; Circuit 1                                                           | 13-707 |
| 3X1-1  | Terminal Block; Junction Box - Compressor 1A                               | 9-445  |
| 3X2-1  | Terminal Block; Junction Box - Oil Separator Circuit 1                     | 11-592 |
| 3X3-1  | Terminal Block; Junction Box - Compressor 1B                               | 11-574 |
| 3XJ5   | Jack; Ventilation Fan 1                                                    | 13-719 |
| 3XP5   | Plug; Ventilation Fan 1                                                    | 13-719 |

| DEVICE | DESCRIPTION                                                                | ZONE   |
|--------|----------------------------------------------------------------------------|--------|
| 4B1    | Switch; High Pressure Cutout - Compressor 2A                               | 12-617 |
| 4B2    | Switch; High Pressure Cutout - Compressor 2B                               | 10-466 |
| 4B3    | Temperature Switch; Ventilation Fan Enable                                 | 13-692 |
| 4BL1   | Level Sensor; Oil Loss - Compressor 2A                                     | 11-587 |
| 4BP1   | Pressure Transducer; Suction Pressure - Circuit 2A                         | 16-923 |
| 4BP2   | Pressure Transducer; Discharge Pressure Circuit 2                          | 16-927 |
| 4BP3   | Pressure Transducer; Oil Pressure Circuit 2A                               | 16-931 |
| 4BP4   | Liquid Line Pressure - Circuit 2                                           | 16-935 |
| 4BP11  | Pressure Transducer; Suction Pressure - Circuit 2B                         | 16-915 |
| 4BP13  | Pressure Transducer; Oil Pressure Circuit 2B                               | 16-919 |
| 4BT1   | Temperature Sensor; Oil Temperature - Circuit 2A                           | 16-907 |
| 4BT2   | Temperature Sensor; Discharge Temperature - Circuit 2A                     | 16-911 |
| 4BT3   | Temperature Sensor; Liquid Line Temperature Microchannel Evap - Circuit 2A | 16-915 |
| 4BT4   | Temperature Sensor; Evaporator Pool Temperature - Circuit 2A               | 16-939 |
| 4BT11  | Temperature Sensor; Oil Temperature - Circuit 2B                           | 16-907 |
| 4BT12  | Temperature Sensor; Discharge Temperature - Circuit 2B                     | 16-911 |
| 4E30   | Heater; Oil Separator - Circuit 2                                          | 10-495 |
| 4E31   | Heater; Crankcase - Compressor 2A                                          | 10-497 |
| 4E32   | Heater; Crankcase - Compressor 2B                                          | 10-492 |
| 4K1    | Electronic Expansion Valve; Circuit 2A                                     | 16-919 |
| 4M1    | Motor; Compressor 2A                                                       | 5-108  |
| 4M2    | Motor; Compressor 2B                                                       | 5-118  |
| 4M3    | Solenoid; Proportional Unload Control - Compressor 2A                      | 10-505 |
| 4M4    | Solenoid; Proportional Load Control - Compressor 2A                        | 10-503 |
| 4M5    | Solenoid; Proportional Unload Control - Compressor 2B                      | 10-513 |
| 4M6    | Solenoid; Proportional Load Control - Compressor 2B                        | 10-511 |
| 4M7    | Solenoid; Oil - Compressor 2A                                              | 9-439  |
| 4M8    | Solenoid; Step Load Control - Compressor 2A                                | 9-436  |
| 4M9    | Solenoid; Oil - Compressor 2B                                              | 11-568 |
| 4M10   | Solenoid; Step Load Control - Compressor 2B                                | 11-565 |
| 4M11   | Motor; Condenser Fan - Circuit 2                                           | 7-227  |
| 4M12   | Motor; Condenser Fan - Circuit 2                                           | 7-242  |
| 4M13   | Motor; Condenser Fan - Circuit 2                                           | 7-232  |
| 4M14   | Motor; Condenser Fan - Circuit 2                                           | 7-247  |
| 4M15   | Motor; Condenser Fan - Circuit 2                                           | 7-237  |
| 4M16   | Motor; Condenser Fan - Circuit 2                                           | 7-252  |
| 4M17   | Motor; Condenser Fan - Circuit 2                                           | 7-260  |
| 4M18   | Motor; Condenser Fan - Circuit 2                                           | 7-280  |
| 4M19   | Motor; Condenser Fan - Circuit 2                                           | 7-265  |
| 4M20   | Motor; Condenser Fan - Circuit 2                                           | 7-285  |
| 4M21   | Motor; Condenser Fan - Circuit 2                                           | 7-270  |
| 4M22   | Motor; Condenser Fan - Circuit 2                                           | 7-290  |
| 4M23   | Motor; Condenser Fan - Circuit 2                                           | 7-275  |
| 4M24   | Motor; Condenser Fan - Circuit 2                                           | 7-295  |
| 4M25   | Solenoid; Condenser Liquid Receiver, Circuit 2                             | 11-542 |
| 4M41   | Motor; Ventilation Fan 1                                                   | 13-693 |
| 4T1    | AFD; Compressor Circuit 2                                                  | 13-686 |
| 4T9    | Choke; Circuit 2                                                           | 13-680 |
| 4X1-1  | Terminal Block; Junction Box - Compressor 2A                               | 9-439  |
| 4X2-1  | Terminal Block; Junction Box - Oil Separator Circuit 2                     | 11-584 |
| 4X3-1  | Terminal Block; Junction Box - Compressor 2B                               | 11-568 |
| 4XJ5   | Jack; Ventilation Fan 1                                                    | 13-692 |
| 4XJ7   | Jack; AFD Controls - Compressor 2A                                         | 13-692 |
| 4XP5   | Plug; Ventilation Fan 1                                                    | 13-692 |
| 4XP7   | Plug; AFD Controls - Compressor 2A                                         | 13-691 |

| DEVICE | DESCRIPTION                               | ZONE   |
|--------|-------------------------------------------|--------|
| 5K1    | Relay; External Auto Stop                 | 14-822 |
| 5K2    | Relay; Chilled Water Setpoint Enable      | 14-804 |
| 5K3    | Relay; Ice Making Control Enable          | 14-758 |
| 5K22   | Relay; Unit Status                        | 14-784 |
| 5K23   | Relay; Unit Status                        | 14-783 |
| 5K24   | Relay; Unit Status                        | 14-781 |
| 5K25   | Relay; Unit Status                        | 14-780 |
| 5K26   | Relay; Unit Status                        | 14-778 |
| 5K27   | Relay; Unit Status                        | 14-777 |
| 5K28   | Relay; Unit Status                        | 14-775 |
| 5K29   | Relay; Unit Status                        | 14-774 |
| 5Q10   | Contactor; Customer Supplied Pump Control | 14-768 |
| 5S1    | Switch; Emergency Stop Feedback           | 14-818 |

| DEVICE | DESCRIPTION                                                 | ZONE   |
|--------|-------------------------------------------------------------|--------|
| 6B1    | Switch; Evaporator Water Flow                               | 11-530 |
| 6B52   | Thermostat; Antifreeze Heater                               | 4-17   |
| 6BT1   | Temperature Sensor; Outdoor Air Sensor                      | 15-832 |
| 6BT2   | Temperature Sensor; Evaporator Leaving Water Temperature    | 15-836 |
| 6BT3   | Temperature Sensor; Evaporator Entering Water Temperature   | 15-840 |
| 6BT6   | Temperature Sensor; Free Cooling Entering Water Temperature | 15-848 |
| 6E50-1 | Submersion Heater; Evaporator Shell Antifreeze Heater       | 4-19   |
| 6E50-2 | Submersion Heater; Evaporator Shell Antifreeze Heater       | 4-21   |
| 6E50-3 | Submersion Heater; Evaporator Shell Antifreeze Heater       | 4-23   |
| 6E50-4 | Submersion Heater; Evaporator Shell Antifreeze Heater       | 4-25   |
| 6E50-5 | Heat Tape; Evaporator Shell Antifreeze Heater               | 4-27   |
| 6E50-6 | Heat Tape; Evaporator Shell Antifreeze Heater               | 4-29   |
| 6M3    | Actuator; Bypass Modulating Valve, Total Free Cooling       | 13-732 |
| 6M4    | Actuator; Line Modulating Valve, Total Free Cooling         | 13-738 |
| 6Q12   | Circuit Breaker; Single Point Power Option                  | 4-3    |
| 6T1    | Transformer; 575V Fan Power Circuit 1                       | 4-18   |
| 6T2    | Transformer; 575V Fan Power Circuit 2                       | 5-87   |
| 6X1-1  | Terminal Block; Evaporator Heater Junction Box              | 4-15   |
| 6X11   | Terminal Block; Single Point Power Option                   | 4-5    |

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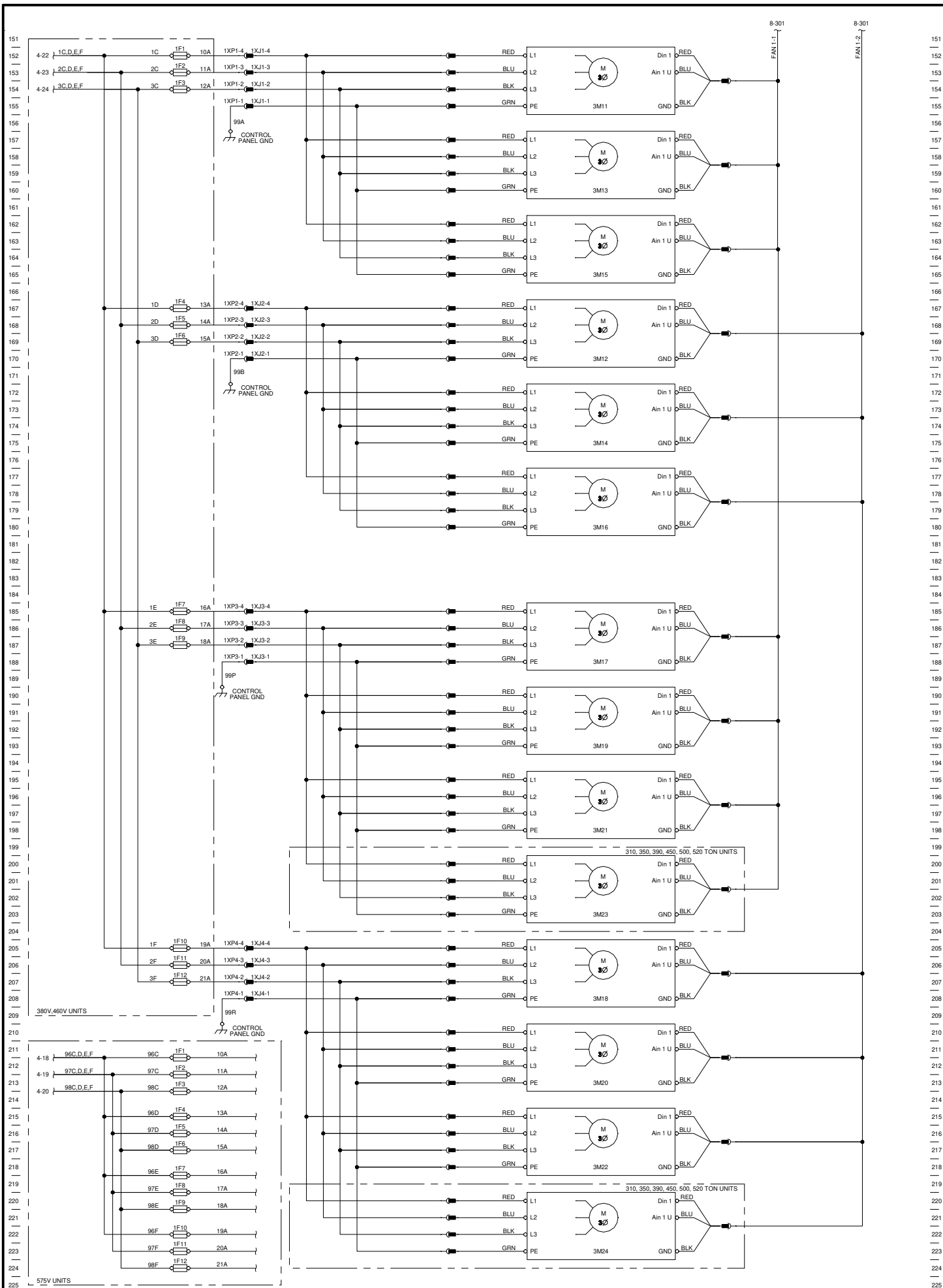
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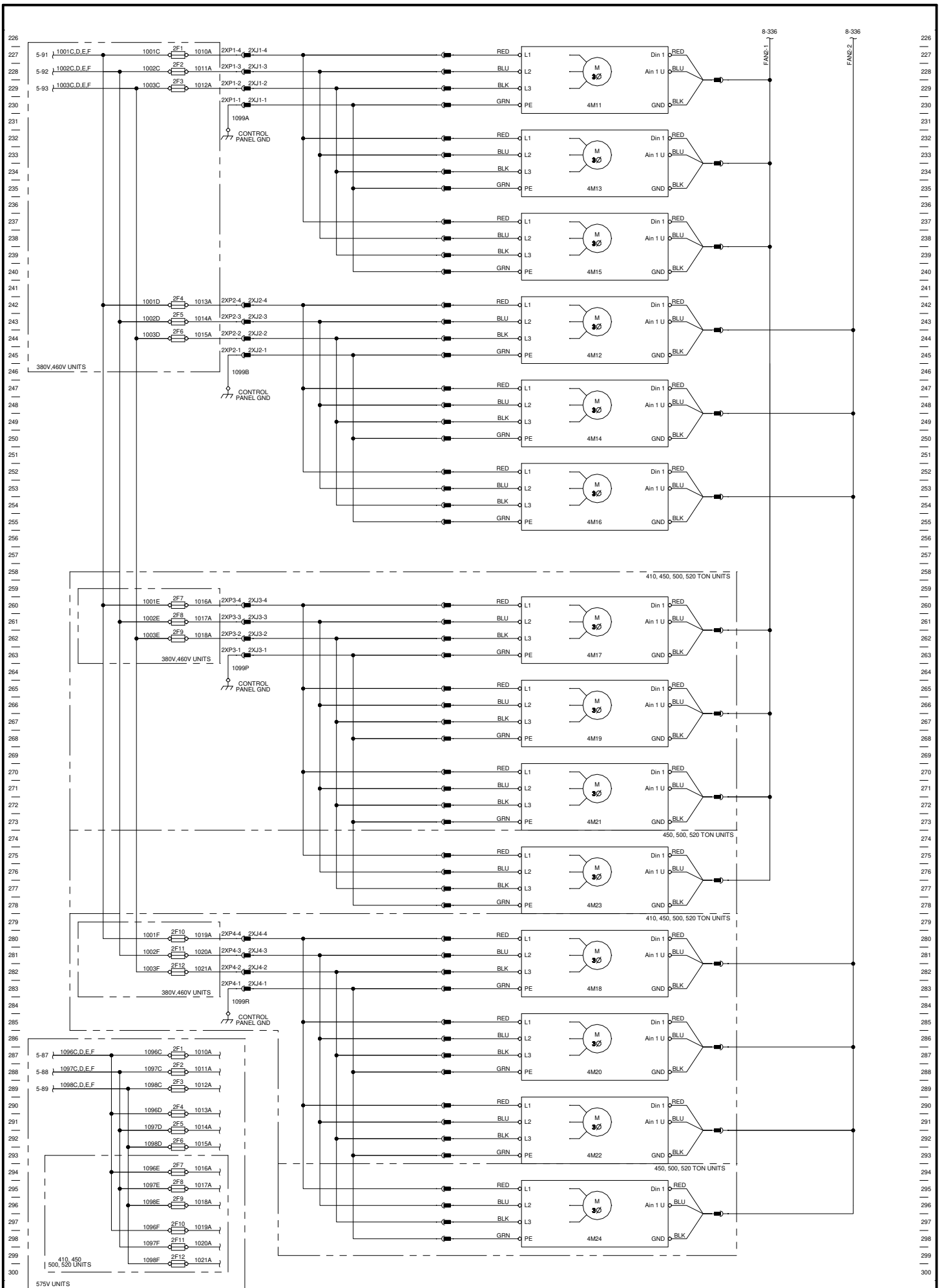
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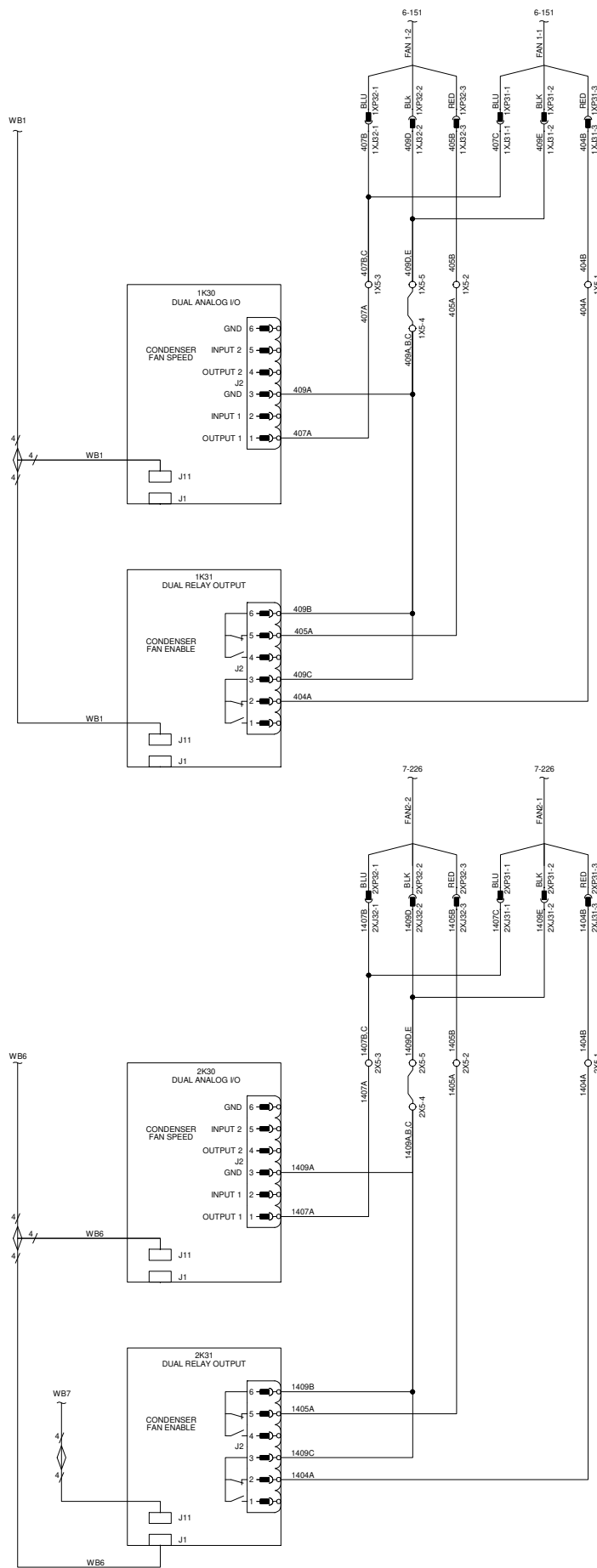
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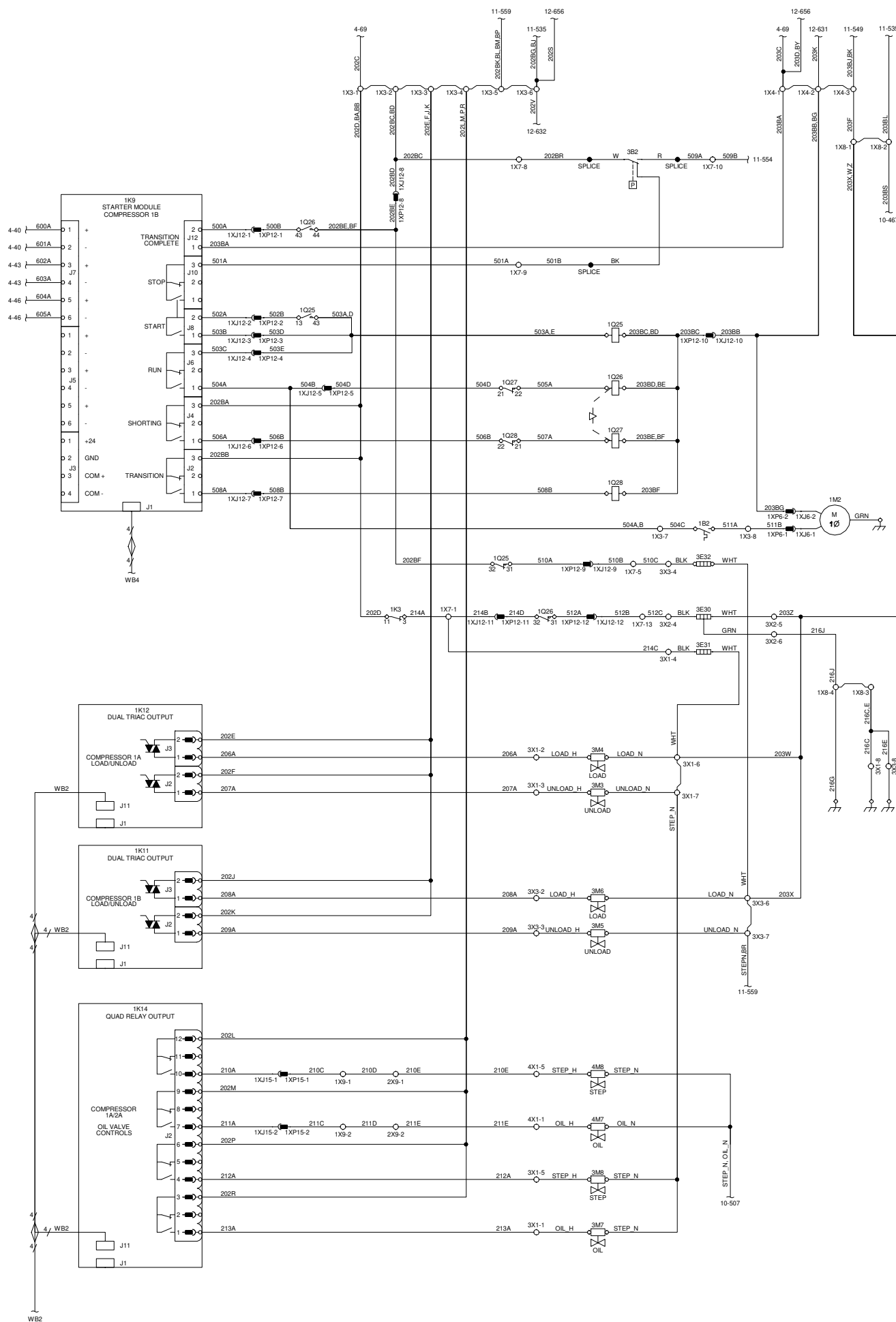
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## FAN CONTROLS

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COMPRESSOR CONTROLS, CIRCUIT 1

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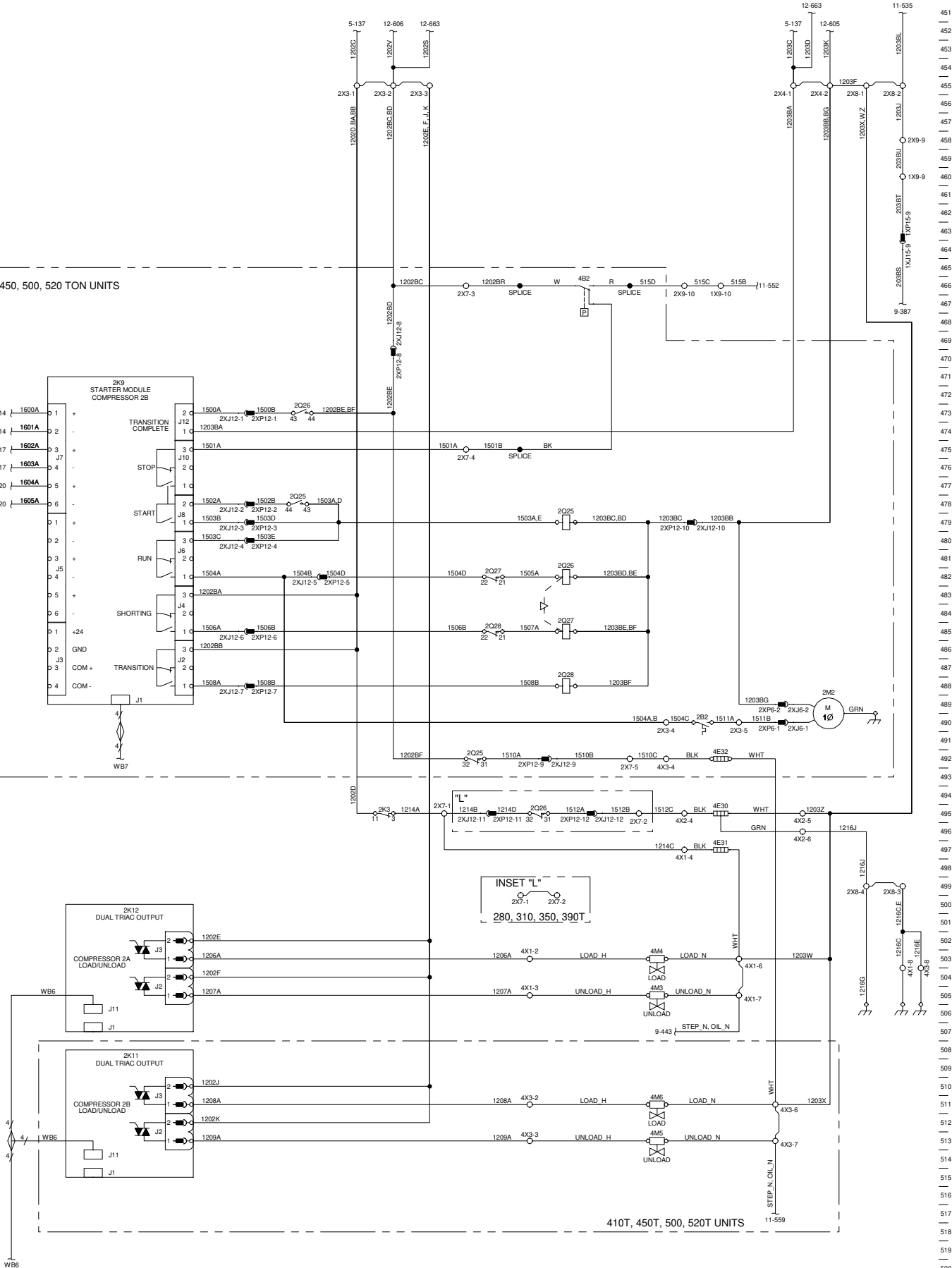
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410, 450, 500, 520 TON UNITS

410T, 450T, 500, 520T UNITS



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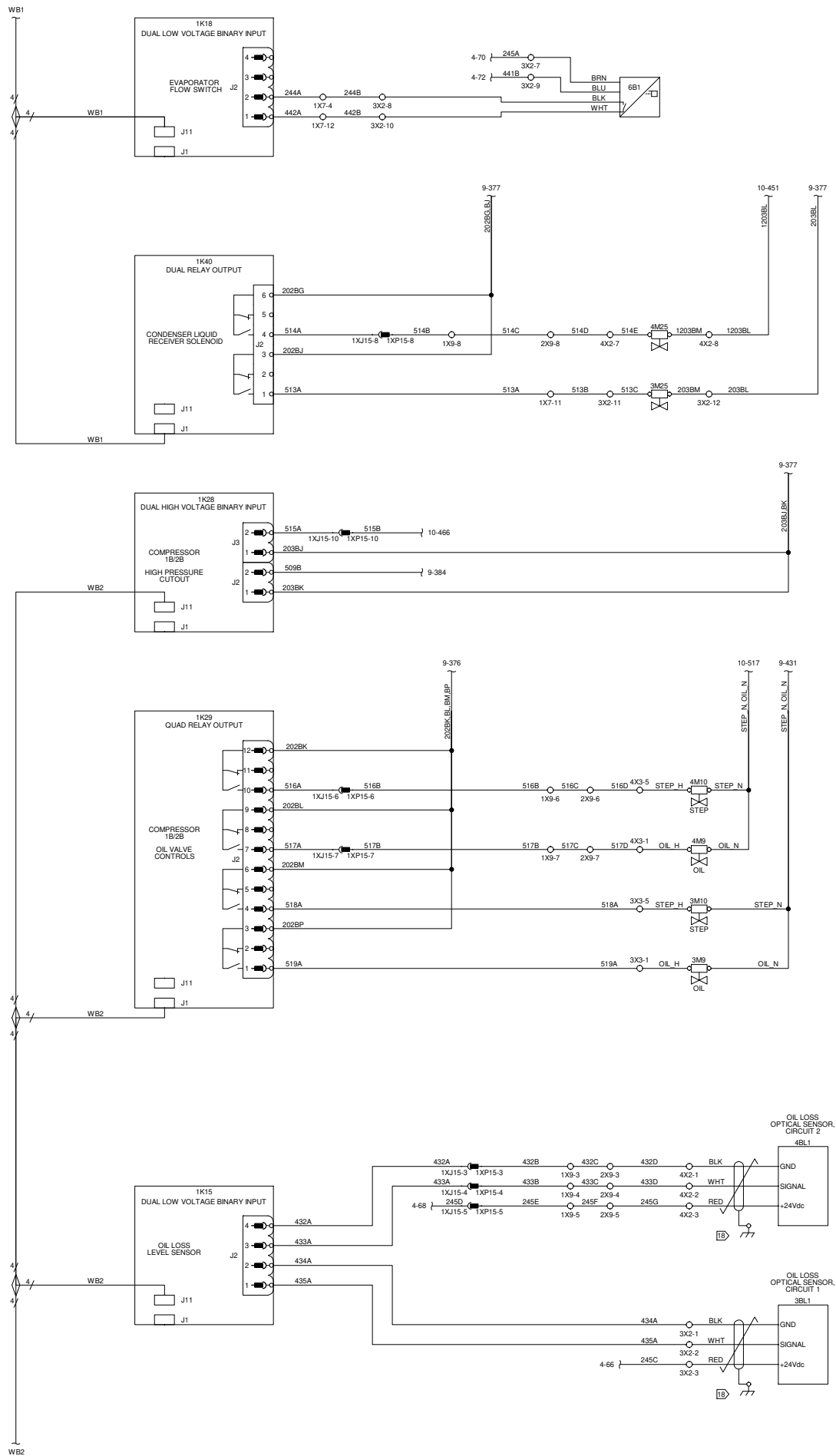
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COMPRESSOR CONTROLS, CIRCUIT 2

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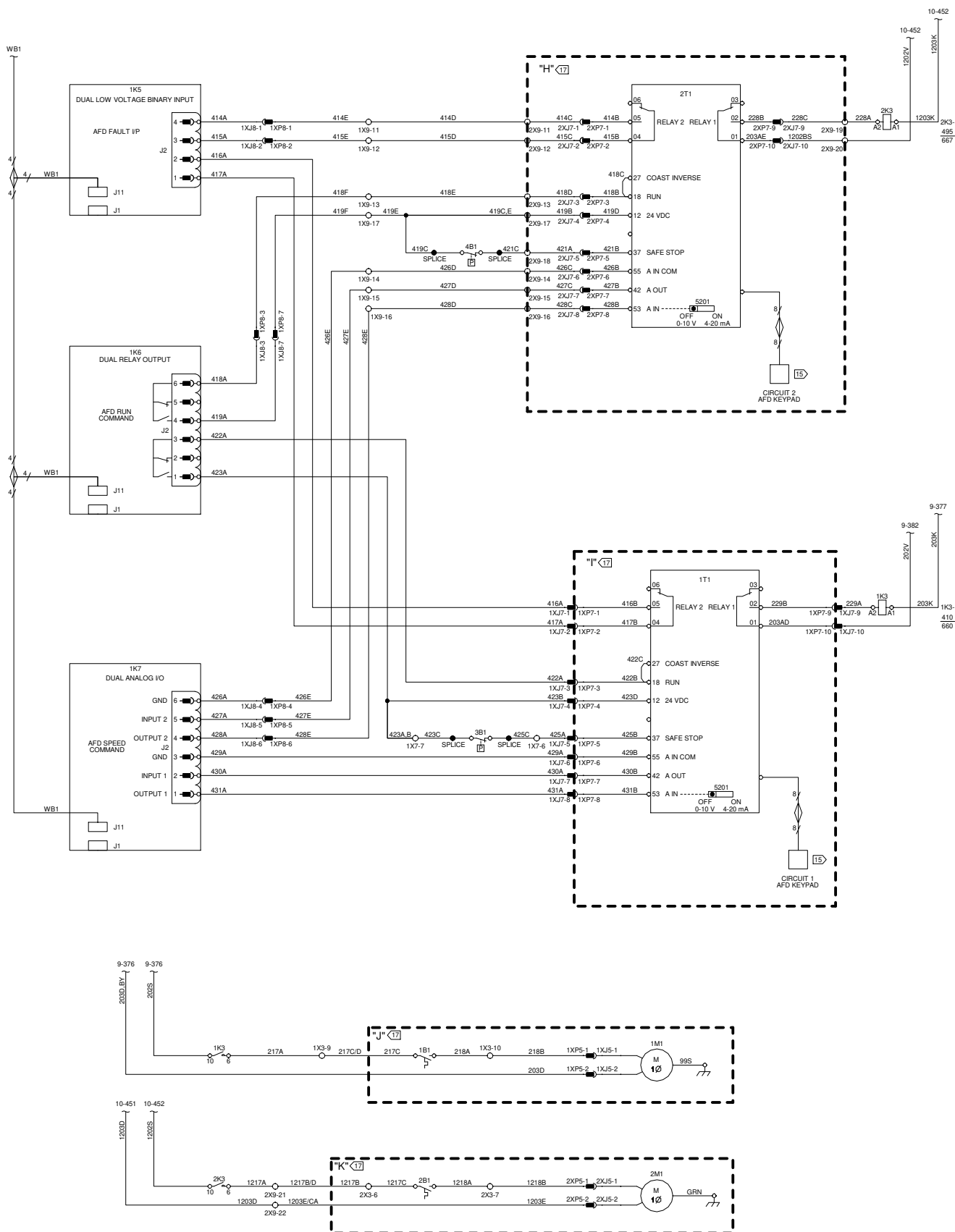
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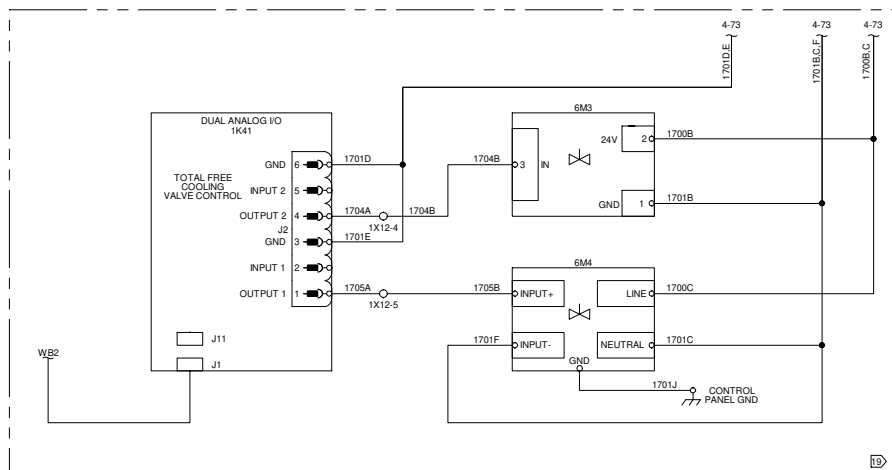
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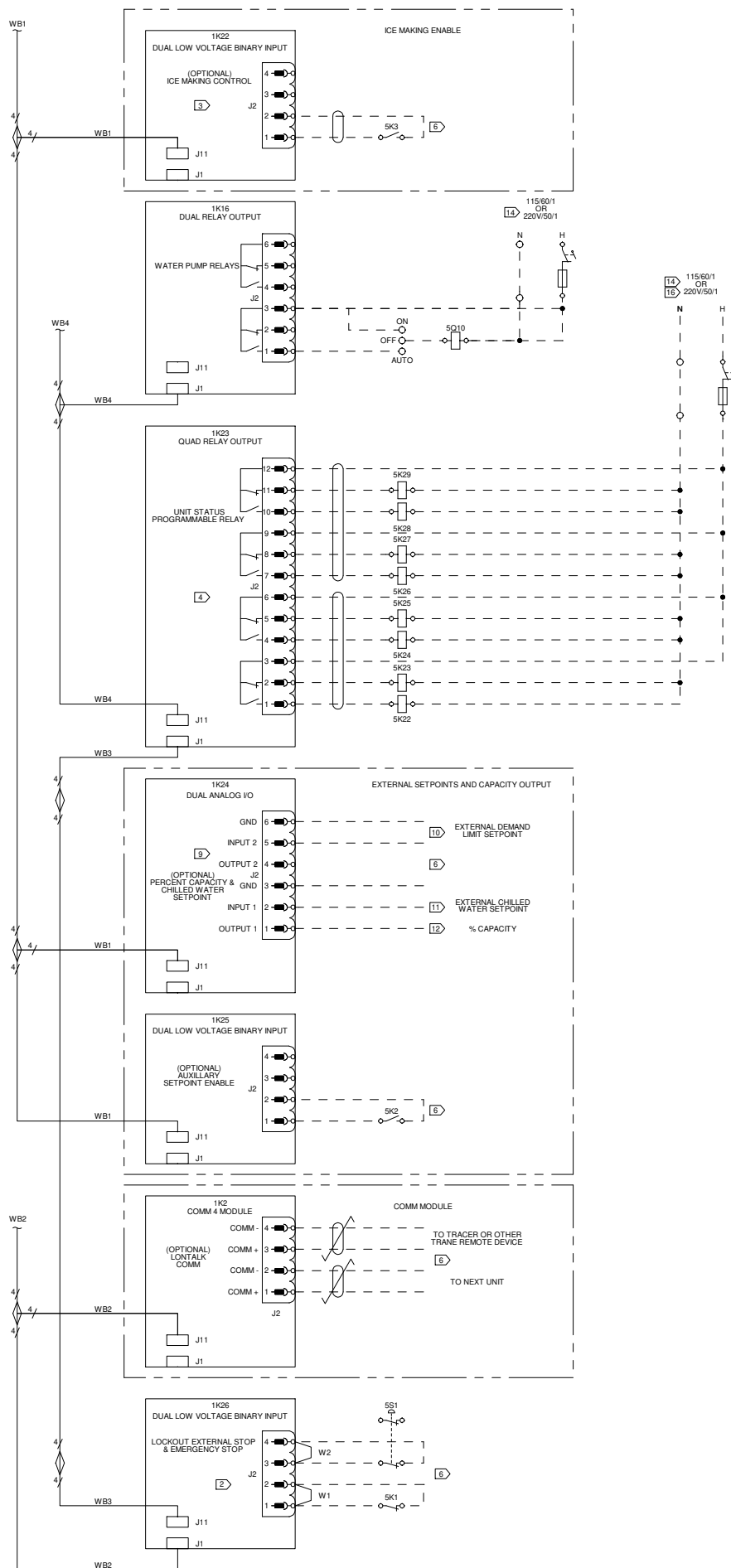
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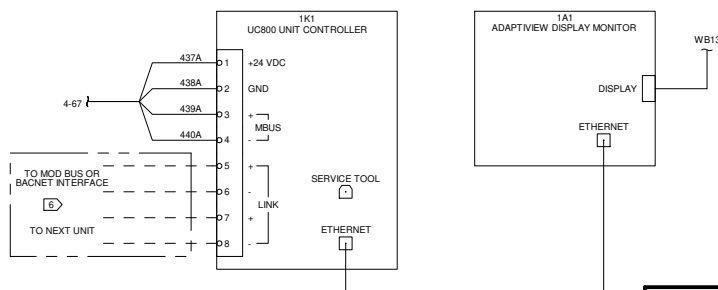
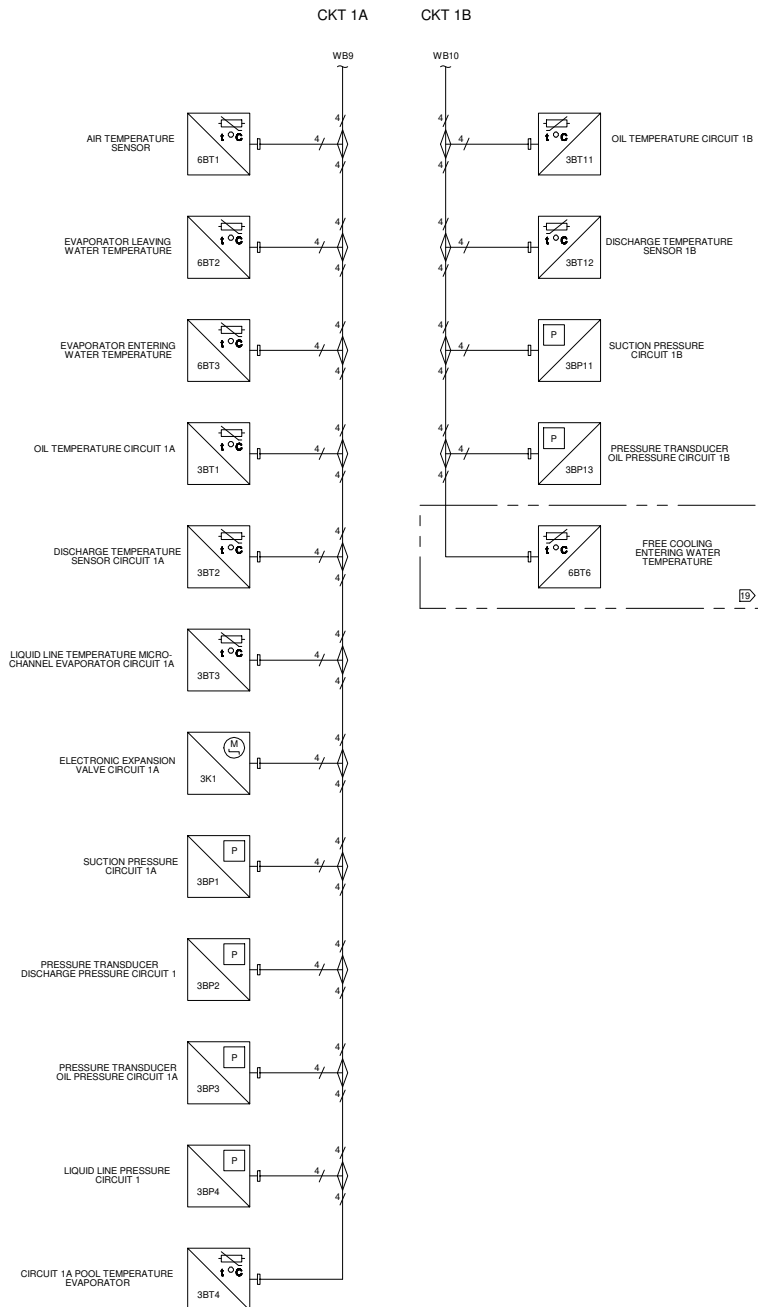
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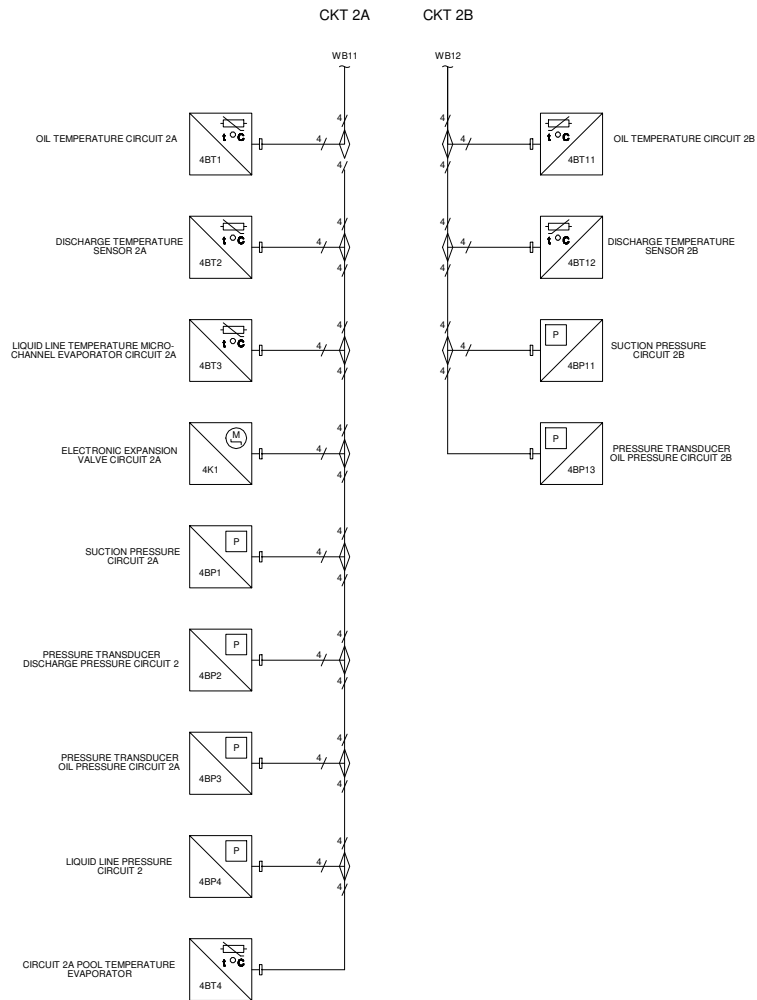
# UNIT SENSORS

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