

| DEVICE | DESCRIPTION                                                                      | ZONE |
|--------|----------------------------------------------------------------------------------|------|
| IA1    | SYMBOL UNIT CONTROLLER                                                           | 136  |
| IA2    | POWER SUPPLY MODULE 1                                                            | 137  |
| IA3    | STARTER MODULE COMPRESSOR 1A                                                     | 66   |
| IA4    | STARTER MODULE COMPRESSOR 2A                                                     | 138  |
| IA5    | DUAL LOW VOLTAGE INPUT, EXTERNAL AUTO STOP AND EMERGENCY STOP INPUTS             | 178  |
| IA6    | DUAL LOW VOLTAGE INPUT, EXTERNAL CIRCUIT LOCKOUT, REFRIGERANT CIRCUIT 1 AND 2    | 189  |
| IA7    | ANALOG I/O, EXTERNAL CURRENT LIMIT, EXTERNAL CHILLED WATER OR HOT WATER SETPOINT | 247  |
| IA8    | ANALOG I/O, CONDENSER CONTROL AND COMPRESSOR NR/LA OUTPUT                        | 258  |
| IA9    | CONTACT INTERFACE                                                                | 344  |
| IA10   | DUAL LOW VOLTAGE INPUT, ICE MACHINE CONTROL AND HEAT MODE CONTROL                | 227  |
| IA11   | DUAL HIGH VOLTAGE INPUT, MOTOR THERMOSTATS COMPRESSOR 2A AND 1A                  | 223  |
| IA12   | DUAL RELAY OUTPUT, ICE MAKING STATUS                                             | 223  |
| IA13   | QUAD RELAY OUTPUTS, UNIT STATUS PROGRAMMABLE DELAYS                              | 199  |
| IA14   | DUAL RELAY OUTPUTS, CONDENSER AND CHILLED WATER PUMP DELAYS                      | 210  |
| IA15   | DUAL HIGH VOLTAGE INPUT, CONDENSER AND CHILLED WATER FLOW AND INTERLOCK          | 223  |
| IA16   | DUAL TRIC OUTPUT, MODULATING UNLOAD AND LOAD COMPRESSOR 2A                       | 173  |
| IA17   | DUAL TRIC OUTPUT, STEP LOAD CONTROL COMPRESSOR 2A AND 1A                         | 181  |
| IA18   | DUAL TRIC OUTPUT, MODULATING UNLOAD AND LOAD COMPRESSOR 1A                       | 189  |
| IA19   | DUAL HIGH VOLTAGE INPUT, HIGH PRESSURE CUTOFF COMPRESSOR 2A AND 1A               | 157  |
| IA20   | DUAL HIGH VOLTAGE INPUT, PANEL VENTILATION                                       | 157  |
| IA21   | DUAL LOW VOLTAGE INPUT, OIL LOSS LEVEL                                           | 152  |
| IA22   | DUAL LOW VOLTAGE INPUT, WATER FLOW SENSOR                                        | 153  |
| IA23   | POWER SUPPLY MODULE 2                                                            | 133  |
| IA24   | DUAL TRIC OUTPUT, OIL RETURN PURGE CONTROL, CIRCUIT1 AND CIRCUIT 2               | 197  |
| IA25   | ADAPTIVE TOUCH SCREEN DISPLAY                                                    | 354  |
| IB1    | THERMOSTAT, PANEL VENTILATION                                                    | 46   |
| IB13   | FUSE, TRANSFORMER PRIMARY, COMPRESSOR 1A, LINE A - ENERGY METER 1, LINE A        | 95   |
| IB14   | FUSE, TRANSFORMER PRIMARY, COMPRESSOR 1A, LINE B - ENERGY METER 1, LINE B        | 29   |
| IB15   | FUSE, CONTROL POWER, TRANSFORMER SECONDARY, 115V                                 | 42   |
| IB1    | CONTACTOR, COMPRESSOR 1A START                                                   | 59   |
| IB2    | CONTACTOR, COMPRESSOR 1A RUN                                                     | 52   |
| IB3    | CONTACTOR, COMPRESSOR 1A SHORT                                                   | 59   |
| IB4    | CONTACTOR, COMPRESSOR 1A TRANSITION                                              | 66   |
| IB5    | CONTACTOR, COMPRESSOR 2A START                                                   | 125  |
| IB6    | CONTACTOR, COMPRESSOR 2A RUN                                                     | 128  |
| IB7    | CONTACTOR, COMPRESSOR 2A SHORT                                                   | 133  |
| IB8    | CONTACTOR, COMPRESSOR 2A TRANSITION                                              | 133  |
| IB9    | MOTOR, VENTILATION FAN                                                           | 46   |
| IP1    | ENERGY METER 1                                                                   | 29   |
| IP2    | ENERGY METER 2                                                                   | 29   |
| IO1    | CIRCUIT BREAKER, POWER DISTRIBUTION                                              | 99   |
| IO4    | CIRCUIT BREAKER, POWER DISTRIBUTION                                              | 99   |
| IB1    | RESISTOR, TRANSITION, COMPRESSOR 1A, LINE A                                      | 36   |
| IB2    | RESISTOR, TRANSITION, COMPRESSOR 1A, LINE B                                      | 36   |
| IB3    | RESISTOR, TRANSITION, COMPRESSOR 2A, LINE A                                      | 99   |
| IB4    | RESISTOR, TRANSITION, COMPRESSOR 2A, LINE B                                      | 99   |
| IB5    | RESISTOR, TRANSITION, COMPRESSOR 2A, LINE C                                      | 106  |
| IB6    | RESISTOR, TRANSITION, COMPRESSOR 2A, LINE D                                      | 106  |
| IT1    | TRANSFORMER, CONTROL POWER                                                       | 99   |
| IT2    | TRANSFORMER, CURRENT, COMPRESSOR 1A, LINE A                                      | 17   |
| IT3    | TRANSFORMER, CURRENT, COMPRESSOR 1A, LINE B                                      | 35   |
| IT4    | TRANSFORMER, CURRENT, COMPRESSOR 1A, LINE C                                      | 35   |
| IT5    | TRANSFORMER, CURRENT, COMPRESSOR 2A, LINE A                                      | 99   |
| IT6    | TRANSFORMER, CURRENT, COMPRESSOR 2A, LINE B                                      | 106  |
| IT7    | TRANSFORMER, CURRENT, COMPRESSOR 2A, LINE C                                      | 106  |
| IT8    | TRANSFORMER, CURRENT, COMPRESSOR 2A, LINE D                                      | 106  |
| IT9    | TRANSFORMER, WATER FLOW SENSOR                                                   | 143  |
| IT10   | TRANSFORMER, 2V CONTROL POWER                                                    | 304  |
| IT11   | TRANSFORMER, CURRENT, ENERGY METER 1, LINE A                                     | 17   |
| IT12   | TRANSFORMER, CURRENT, ENERGY METER 1, LINE B                                     | 17   |
| IT13   | TRANSFORMER, CURRENT, ENERGY METER 1, LINE C                                     | 17   |
| IT14   | TRANSFORMER, CURRENT, ENERGY METER 1, LINE D                                     | 17   |
| IT15   | TRANSFORMER, CURRENT, ENERGY METER 2, LINE A                                     | 15   |
| IT16   | TRANSFORMER, CURRENT, ENERGY METER 2, LINE B                                     | 15   |
| IT17   | TRANSFORMER, CURRENT, ENERGY METER 2, LINE C                                     | 15   |
| IT18   | TRANSFORMER, CURRENT, ENERGY METER 2, LINE D                                     | 15   |
| IX1    | POWER DISTRIBUTION BLOCK                                                         | 99   |
| IX2    | POWER DISTRIBUTION BLOCK                                                         | 99   |
| IX3    | TERMINAL BLOCK, ENERGY METER COMMUNICATION                                       | 331  |
| IX4    | TERMINAL BLOCK, CUSTOMER CONTROL WIRING                                          | 331  |
| IX5    | TERMINAL BLOCK, FACTORY CONTROL WIRING                                           | 43   |

| DEVICE | DESCRIPTION                                                                  | ZONE |
|--------|------------------------------------------------------------------------------|------|
| IX9    | TERMINAL BLOCK, WATER FLOW SENSOR CONTROL WIRING                             | 143  |
| IX10   | TERMINAL BLOCK, VENTILATION                                                  | 157  |
| IX15   | EXTERNAL USB SERVICE PORT                                                    | 341  |
| IB9    | PRESSURE TRANSDUCER, OIL PRESSURE, COMPRESSOR 1A                             | 138  |
| IB10   | LIQUID LEVEL SENSOR, EVAPORATOR REFRIGERANT, CIRCUIT 1                       | 189  |
| IB11   | PRESSURE TRANSDUCER, CONDENSER REFRIGERANT PRESSURE, CIRCUIT 1               | 258  |
| IB12   | TEMPERATURE SENSOR, COMPRESSOR DISCHARGE OIL, COMPRESSOR 1A                  | 361  |
| IB13   | PRESSURE TRANSDUCER, CONDENSER REFRIGERANT PRESSURE, CIRCUIT 1               | 258  |
| IB14   | LIQUID LEVEL OPTICAL SENSOR, OIL LOSS CIRCUIT 1                              | 66   |
| IB15   | HEATER, OIL SEPARATOR, COMPRESSOR 1A                                         | 66   |
| IB16   | HEATER, COMPRESSOR 1A                                                        | 179  |
| IB17   | SOLENOID, STEP LOAD CONTROL, COMPRESSOR 1A                                   | 179  |
| IB18   | SOLENOID, PROPORTIONAL LOAD CONTROL, COMPRESSOR 1A                           | 187  |
| IB19   | SOLENOID, OIL RETURN PURGE VALVE, CIRCUIT 1                                  | 189  |
| IB20   | MOTOR, COMPRESSOR 1A                                                         | 5    |
| IB21   | T-STAT, COMPRESSOR 1A MOTOR WINDING                                          | 210  |
| IB22   | PRESSURE SWITCH, HIGH PRESSURE CUTOFF, COMPRESSOR 1A, CLOSE ON PRESSURE RISE | 2    |
| IB23   | MOTOR, EXPANSION VALVE, CIRCUIT 1                                            | 343  |
| IB24   | PRESSURE TRANSDUCER, CONDENSER REFRIGERANT PRESSURE, CIRCUIT 2               | 258  |
| IB25   | TEMPERATURE SENSOR, COMPRESSOR DISCHARGE OIL, COMPRESSOR 2A                  | 339  |
| IB26   | PRESSURE TRANSDUCER, OIL PRESSURE, COMPRESSOR 2A                             | 138  |
| IB27   | LIQUID LEVEL SENSOR, EVAPORATOR REFRIGERANT, CIRCUIT 2                       | 189  |
| IB28   | PRESSURE TRANSDUCER, SUCTION REFRIGERANT PRESSURE, CIRCUIT 2                 | 337  |
| IB29   | LIQUID LEVEL OPTICAL SENSOR, OIL LOSS CIRCUIT 2                              | 336  |
| IB30   | HEATER, OIL SEPARATOR, COMPRESSOR 2A                                         | 116  |
| IB31   | HEATER, COMPRESSOR 2A                                                        | 117  |
| IB32   | SOLENOID, STEP LOAD CONTROL, COMPRESSOR 2A                                   | 181  |
| IB33   | SOLENOID, PROPORTIONAL LOAD CONTROL, COMPRESSOR 2A                           | 173  |
| IB34   | SOLENOID, OIL RETURN PURGE VALVE, CIRCUIT 2                                  | 189  |
| IB35   | MOTOR, COMPRESSOR 2A                                                         | 210  |
| IB36   | T-STAT, COMPRESSOR 2A MOTOR WINDING                                          | 212  |
| IB37   | PRESSURE SWITCH, HIGH PRESSURE CUTOFF, COMPRESSOR 2A, CLOSE ON PRESSURE RISE | 118  |
| IB38   | MOTOR, EXPANSION VALVE, CIRCUIT 2                                            | 340  |
| IB39   | W/F INTERFACE                                                                | 345  |
| IB40   | AIR-F INTERFACE                                                              | 327  |
| IB41   | TEMPERATURE SENSOR, OUTDOOR AIR TEMPERATURE                                  | 325  |
| IB42   | RELAY, CUSTOMER PROVIDED, CHILLED WATER PUMP STARTER                         | 267  |
| IB43   | RELAY, CUSTOMER PROVIDED, CONDENSER WATER PUMP STARTER                       | 210  |
| IB44   | RELAY, CUSTOMER PROVIDED, ICE MAKING STATUS OUTPUT                           | 223  |
| IB45   | RELAY, CUSTOMER PROVIDED, UNIT STATUS, DEFAULT IS UNIT ALARM                 | 189  |
| IB46   | RELAY, CUSTOMER PROVIDED, UNIT STATUS, DEFAULT IS UNIT ALARM                 | 189  |
| IB47   | RELAY, CUSTOMER PROVIDED, UNIT STATUS, DEFAULT IS UNIT RUNNING               | 189  |
| IB48   | RELAY, CUSTOMER PROVIDED, UNIT STATUS, DEFAULT IS MAXIMUM UNIT CAPACITY      | 189  |
| IB49   | RELAY, CUSTOMER PROVIDED, UNIT STATUS, DEFAULT IS MAXIMUM UNIT CAPACITY      | 189  |
| IB50   | RELAY, CUSTOMER PROVIDED, UNIT STATUS, DEFAULT IS LIMITED UNIT OPERATION     | 189  |
| IB51   | RELAY, CUSTOMER PROVIDED, UNIT STATUS, DEFAULT IS LIMITED UNIT OPERATION     | 189  |
| IB52   | RELAY, EXTERNAL INPUT, ENABLE ICE MAKING                                     | 236  |
| IB53   | RELAY, EXTERNAL LOCKOUT, CIRCUIT 1                                           | 178  |
| IB54   | RELAY, EXTERNAL LOCKOUT, CIRCUIT 2                                           | 173  |
| IB55   | RELAY, EXTERNAL INPUT, AUTO STOP                                             | 178  |
| IB56   | RELAY, EXTERNAL INPUT, EMERGENCY STOP                                        | 180  |
| IB57   | RELAY, EXTERNAL INPUT, CHILLER HEATING MODE CONTROL                          | 184  |
| IB58   | WATER REGULATING VALVE, MOTOR                                                | 223  |
| IB59   | FUSED DISCONNECT, CUSTOMER SUPPLIED, 3 PHASE                                 | 4    |
| IB60   | FUSED DISCONNECT, CUSTOMER SUPPLIED, 3 PHASE                                 | 4    |
| IB61   | FLOW SWITCH, CHILLER WATER                                                   | 224  |
| IB62   | FLOW SWITCH, CONDENSER WATER                                                 | 181  |
| IB63   | TEMPERATURE SENSOR, EVAPORATOR LEAVING WATER TEMPERATURE                     | 369  |
| IB64   | TEMPERATURE SENSOR, EVAPORATOR ENTERING WATER TEMPERATURE                    | 362  |
| IB65   | TEMPERATURE SENSOR, CONDENSER LEAVING WATER TEMPERATURE                      | 367  |
| IB66   | TEMPERATURE SENSOR, CONDENSER ENTERING WATER TEMPERATURE                     | 367  |
| IB67   | SENSOR, EVAPORATOR WATER FLOW                                                | 145  |
| IB68   | SENSOR, CONDENSER WATER FLOW                                                 | 149  |

# NOTES:

- SINGLE SOURCE POWER IS PROVIDED AS STANDARD ON THESE PRODUCTS. DUAL SOURCE POWER IS OPTIONAL. FIELD CONNECTIONS FOR SINGLE SOURCE POWER ARE MADE TO IX1, IQ2. WHEN THE OPTIONAL DUAL SOURCE POWER IS SELECTED THE FIELD CONNECTIONS FOR CIRCUIT #2 ARE MADE TO IX2, 1IQ4.
- POLARITY MARKING ON THE CURRENT TRANSFORMER (DOT OR 1 ON CT) MUST BE FACING TOWARDS THE INCOMING CURRENT.
- WIRING FOR 200V/230V UNIT SHOWN. SEE INSET "A" FOR CONTROL POWER TRANSFORMER WIRING OF OTHER VOLTAGES.
- ONLY "K" AND "L" FRAME COMPRESSORS UTILIZE A COMPRESSOR MOTOR WINDING THERMOSTAT. WHEN COMPRESSOR 1A IS AN "L" FRAME AND COMPRESSOR 2A IS AN "M" FRAME, THE J3 INPUT IS WIRED TO COMPRESSOR 1A WINDING THERMOSTAT AND THE J2 INPUT IS HARDWIRED TO 115V AND NOT USED.
- OUTDOOR AIR TEMP FACTORY INSTALLED LEAD LENGTH TO BE EXTENDED BY CUSTOMER.
- CLASS 1 FIELD WIRED MODULE.
- OPTIONAL ENERGY METER
- RELAY AT 120VAC: 7.2 AMPS RESISTIVE, 2.88 AMPS PILOT DUTY, 3/3 HP, 7.2 FLA AT 240VAC: 5 AMPS GENERAL PURPOSE.
- CONTACT CLOSURE ENABLES ICE MAKING.
- COMPONENTS (LLDS) ARE NOT NECESSARILY WIRED ON THE IPC BUS (WB4) IN THE ORDER SHOWN.
- DO NOT WIRE SHIELD TO GROUND IN CONTROL PANEL. SHIELD IS ATTACHED INTERNALLY TO METAL WASHER ON SENSOR.
- RELAY ENERGIZED WHILE IN HEATING MODE.
- OPTIONAL MODULE. REFER TO FIELD WIRING DIAGRAM FOR SUGGESTED WIRING.
- AUTO EMERGENCY STOP CONTACTS ARE JUMPED AT THE FACTORY BY JUMPERS W1 & W2 TO ENABLE UNIT OPERATION. IF REMOTE CONTROL IS DESIRED, REMOVE THE JUMPERS AND CONNECT TO THE DESIRED CONFIGURATION.
- FIELD ASSIGNED PROGRAMMABLE DELAYS.
- RELAY ENERGIZED WHILE ICE MAKING.
- OPTIONAL UNDER/OVER VOLTAGE.
- FACTORY PROVIDED WATER REGULATING VALVE. MAXIMUM 120VA. 220V VALVE OPTION REQUIRES CUSTOMER PROVIDED POWER.
- ALL UNIT POWER WIRING MUST BE COPPER CONDUCTORS ONLY AND HAVE A MINIMUM INSULATION TEMPERATURE RATING OF 90C AND BE SELECTED AT 75C RATINGS.
- OPTIONAL MODULE. FACTORY WIRING.
- ONLY PRESENT WHEN VENTILATION IS REQUIRED.
- OPTIONAL TALK INTERFACE

# GENERAL NOTES:

- UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25C (77F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY, WITH ALL UTILITIES TURNED OFF, AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
- DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. SOLID LINES INDICATE WIRING BY TRANE CO.
- NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
- ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE AND LOCAL REQUIREMENTS.
- 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.

| COLOR CODE |        |
|------------|--------|
| BLK        | BLACK  |
| BRN        | BROWN  |
| BLU        | BLUE   |
| GRY        | GRAY   |
| RED        | RED    |
| WHT        | WHITE  |
| GRN        | GREEN  |
| ORG        | ORANGE |
| YEL        | YELLOW |

| DEVICE PREFIX LOCATION CODE |                             |
|-----------------------------|-----------------------------|
| AREA                        | LOCATION                    |
| 1                           | CONTROL AND STARTER PANEL   |
| 2                           | NOT USED                    |
| 3                           | REFRIGERATION CIRCUIT 1     |
| 4                           | REFRIGERATION CIRCUIT 2     |
| 5                           | CUSTOMER REMOTELY INSTALLED |
| 6                           | UNIT MOUNTED                |

## WARNING

HAZARDOUS VOLTAGE!

DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. ENSURE 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.

## ADVERTENCIA

TENSION DANGEROUSA!

COUPER TOUTES LES TENSIONS ET OUVRIR LES SECTIONNEURS LES PROC

V  
DES MOTEURS SONT D  
D'UNIT

INSTRUCCIONES DE L'ENTRA  
D  
UN MANUEMENT  
C-DESSUS PEUT ENTRA  
BLESSURES GRAVES, VOIRE LA MORT.

## ADVERTENCIA

VOLTAJE PELIGROSO!

DESCONECTE TODA LA ENERGO INCLUSO LAS DESCONEXIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEG DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON TRANSMISI DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR.

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

## NOTICE

USE COPPER CONDUCTORS ONLY!

FAILURE TO USE COPPER CONDUCTORS COULD RESULT IN EQUIPMENT DAMAGE AS THE EQUIPMENT WAS NOT DESIGNED OR QUALIFIED TO ACCEPT OTHER TYPES OF CONDUCTORS.

## AVIS

NUTILISER QUE DES CONDUCTEURS EN CUIVRE!

L'UTILISATION DE MAT AUTRES QUE LE CUIVRE, PEUT ENDOMMAGER L'CELI-CI N'AYANT PAS HOMOLOGU TYPES DE CONDUCTEURS.

## AVISO

SI NO UTILIZA CONDUCTORES DE COBRE, EL EQUIPO PODR YA QUE NO HA SIDO DISE PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.

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CAD: CRED CHEMICALS

## SCHEMATIC RTWD

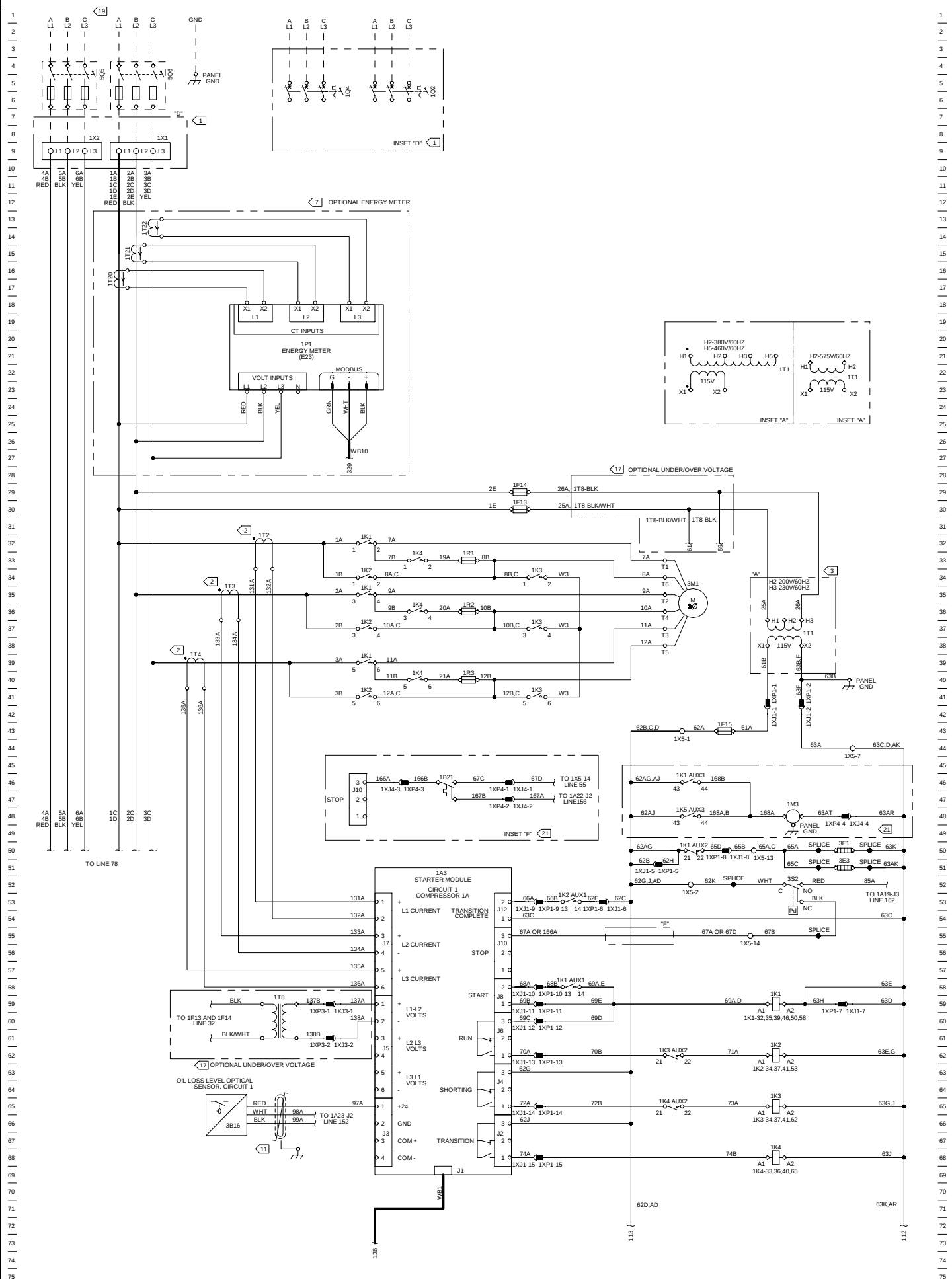
70-250 TON

WYE DELTA STARTER

2311-5999

SHEET 1

REV B



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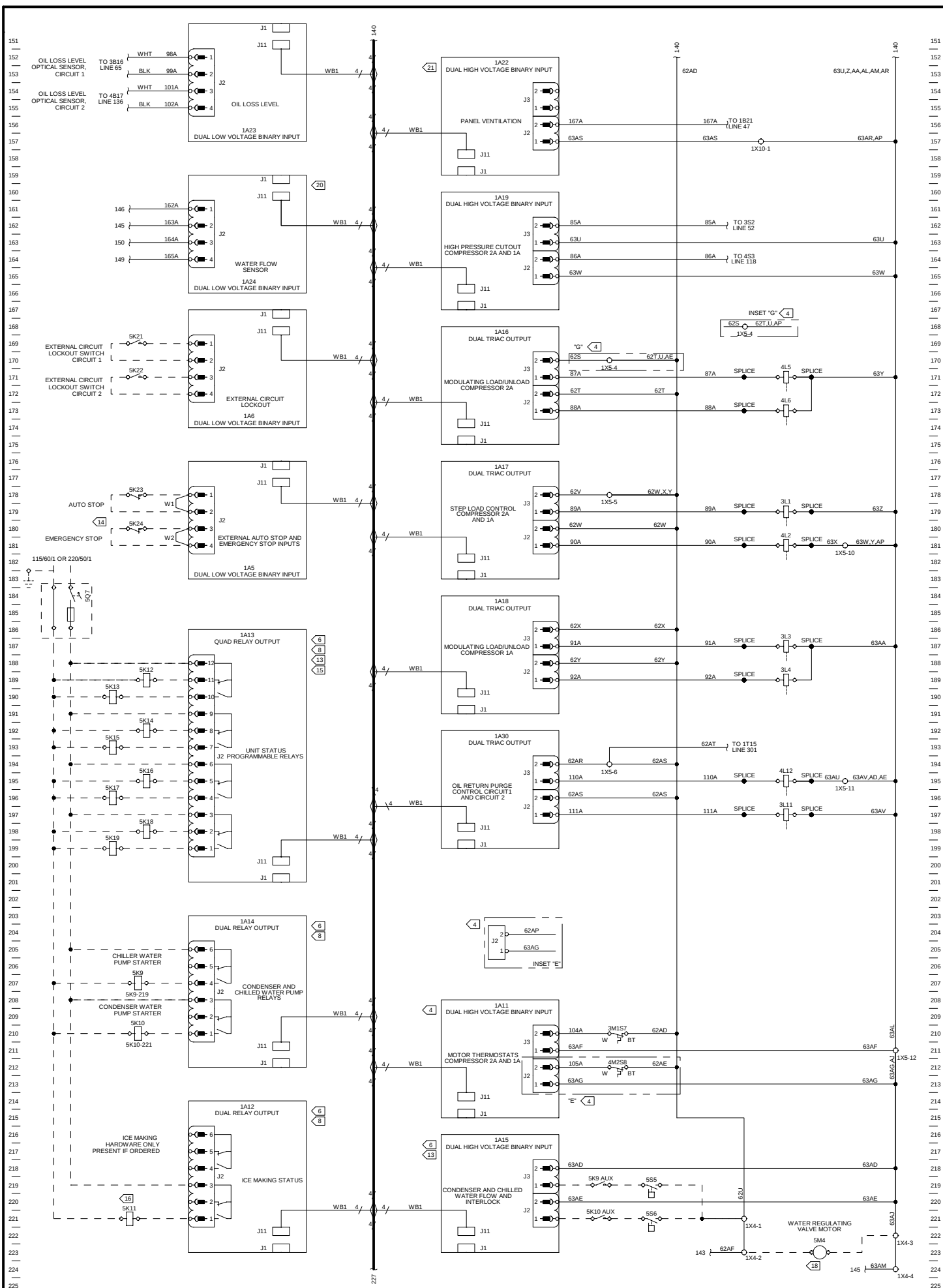
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RTWD  
70-250 TON  
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