

ED991-5001-B1 Issue 3

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NOTES:

1) SHEET 2; SCHEMATIC DIAGRAM FOR THE ARE-S13006 (120/208/240).

2) SHEET 3; SCHEMATIC DIAGRAM FOR THE ARE-S13012 (120/208/240).

3) SHEET 4; SCHEMATIC DIAGRAM FOR THE ARE-S13012 (480).

4) SHEET 5; SCHEMATIC DIAGRAM FOR THE ARE-S13016 (120/208/240).

5) SHEET 6; SCHEMATIC DIAGRAM FOR THE ARE-S13016 (480).

6) SHEET 7; SCHEMATIC DIAGRAM FOR THE ARE-S13025 (120/208/240).

7) SHEET 8; SCHEMATIC DIAGRAM FOR THE ARE-S13025 (480).

8) SHEET 9; SCHEMATIC DIAGRAM FOR THE ARE-S13035 (120/208/240).

9) SHEET 10; SCHEMATIC DIAGRAM FOR THE ARE-S13035 (480).

10) SHEET 11; SCHEMATIC DIAGRAM FOR THE ARE-S13050 (208/240/480)

11) SHEET 12; SCHEMATIC DIAGRAM FOR THE ARE-S13075 (240/480).

12) 120/208/240 VOLTAGES ARE FIELD CHANGEABLE. INPUT CIRCUIT BREAKER COULD CHANGE IN ORDER TO PROVIDE APPROPRIATE WIRE PROTECTION.

13) SELF LEADED PARTS ARE DESIGNATED WITH AN ASTERISK (*).

14) WIRE NUMBER IS INDICATED INSIDE PARENTHESES ().

15) CONTROL WIRE IS 22 AWG FOR PVC & 18 AWG FOR SIS, UNLESS OTHERWISE SPECIFIED.

16) CONSULT CHARGER SPECIFIC DRAWINGS FOR COMPONENT LOCATIONS, PART NUMBERS, AND QUANTITY.

17) COMPONENTS R3,C3 AND R4,C4 MAKE UP THE RECTIFIER SNUBBERS AND ARE AVAILABLE ONLY IN COMPLETE SETS.

18) ALARM RELAYS ARE SHOWN IN NORMAL OPERATING CONDITIONS (NO ALARMS).

19) RELAY CONTACT RATING 60W/62.5VA, 2AMPS MAX SWITCHING CURRENT & 220VDC/250VAC MAX SWITCHING VOLTAGE.

20) SIS WIRE IS GRAY. COLORS ARE FOR PVC WIRES.

21) BATTERY ELIMINATOR OPTION REPLACES WIRE#65 WITH ELIMINATOR CHOKE (L2)

MAJOR COMPONENT REFERENCES

REFERENCE DESIGNATOR	DESCRIPTION
A1	POWER SUPPLY
A2	CONTROL/DISPLAY PCB
A3	INTERFACE PCB
A4	SCR TRIGGER PCB
A5	EXTENDED RELAY PCB (OPT)
A6	REMOTE COMMS PCB (OPT)
C1	CAP, FILTER
C2	CAP, FILTER
C3	CAP, SNUBBER
C4	CAP, SNUBBER
CB1	CIRCUIT BREAKER, INPUT
CB2	CIRCUIT BREAKER, OUTPUT
CR1	BLOCKING DIODE
D1	FREE WHEELING DIODE
E1	LIGHTNING ARRESTOR (OPT)
L1	CHOKE, MAIN
L2	CHOKE, SECONDARY OR ELIMINATOR (OPT)
R1	SHUNT 50mV
R2	RESISTOR, CAP DISCHARGE
R3	RESISTOR, SNUBBER
R4	RESISTOR, SNUBBER
RM1	RECTIFIER MODULE
RM2	RECTIFIER MODULE
S2	GROUND SWITCH
T1	TRANSFORMER, POWER
TB1	TERMINAL BLOCK
TB2	TERMINAL BLOCK
TB3	TERMINAL BLOCK
TC1	THERMOSENSOR (OPT)
Z1	DC OUTPUT MOV5 (OPT)

ISSUES

ISSUE #	DESCRIPTION	ISS. BY ISS. DATE	APP. BY APP. DATE
7	SEE ECN 20095. UPDATED DRAWING WITH UNIPOWER LOGO/VERBIAGE.	WD 2/20/15	DBW 3/2/15

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON:

HOLES	+0.004 -0.002	DRAWN WD	9/5/12
FRACTIONS	±1/32	CHECKED DBW	9/11/12
DECIMALS (XX)	±0.020	APPROVED MCM	9/12/12
DECIMALS (XXX)	±0.010	APPROVED	
ANGLES	±1/2°		

SQUARE CORNERS AND ANGLES ARE 90° UNLESS OTHERWISE SPECIFIED.

WORKMANSHIP:
PER SPEC ENG032

MATERIAL:

FINISH:

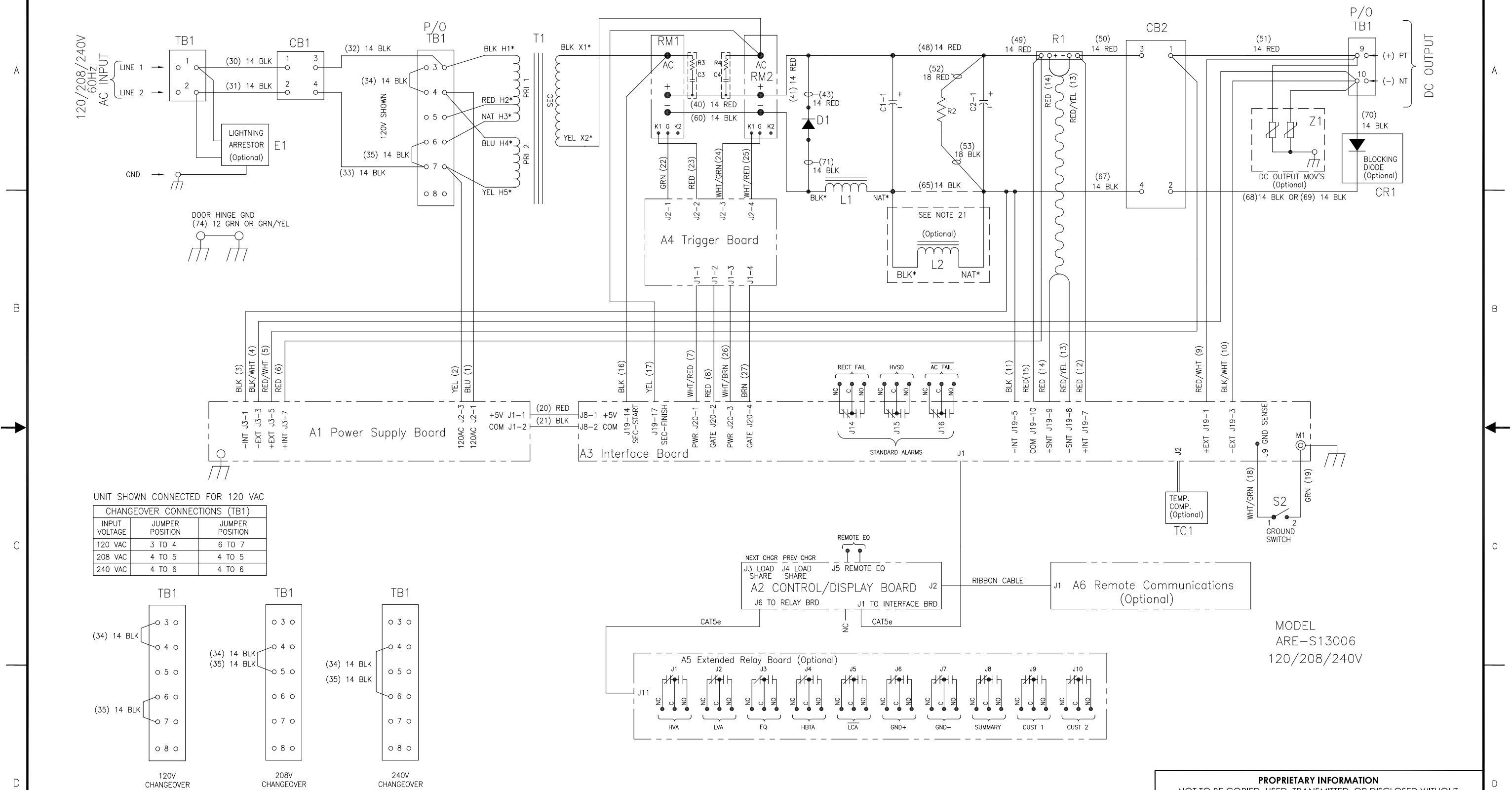
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UNIPOWER

Powering Technology

SCHEMATIC DIAGRAMS
ARE-S 130V SYSTEMS

SIZE B	DOC TYPE / NUMBER SD 102-1090-130	ISSUE 7
SCALE: N/A	SHEET: 1 OF 12	FILE NAME: SD102-1090-130_ISS_7



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SIZE
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SD 102-1090-130ISSUE
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N/ASHEET:
2 OF 12FILE NAME:
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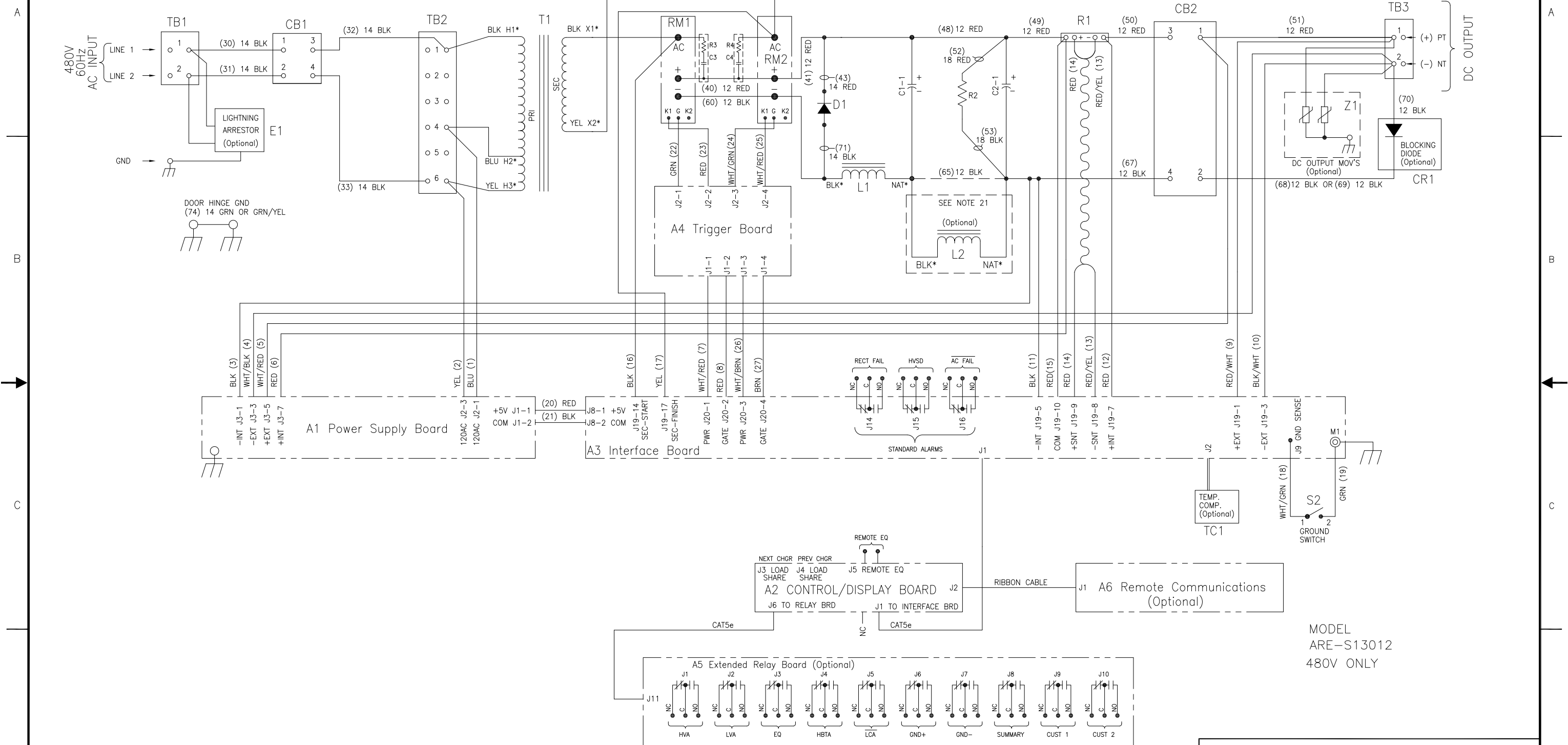


120V CHANGEOVER

208V CHANGEOVER

240V CHANGEOVER

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SIZE B	DOC TYPE / NUMBER SD 102-1090-130	ISSUE 7
SCALE: N/A	SHEET: 3 OF 12	FILE NAME: SD102-1090-130_ISS_7



MODEL
ARE-S13012
480V ONLY

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120V
CHANGEOVER

208V
CHANGEOVER

240V
CHANGEOVER

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SCALE: N/A	SHEET: 5 OF 12	FILE NAME: SD102-1090-130_ISS_7

A

B

C

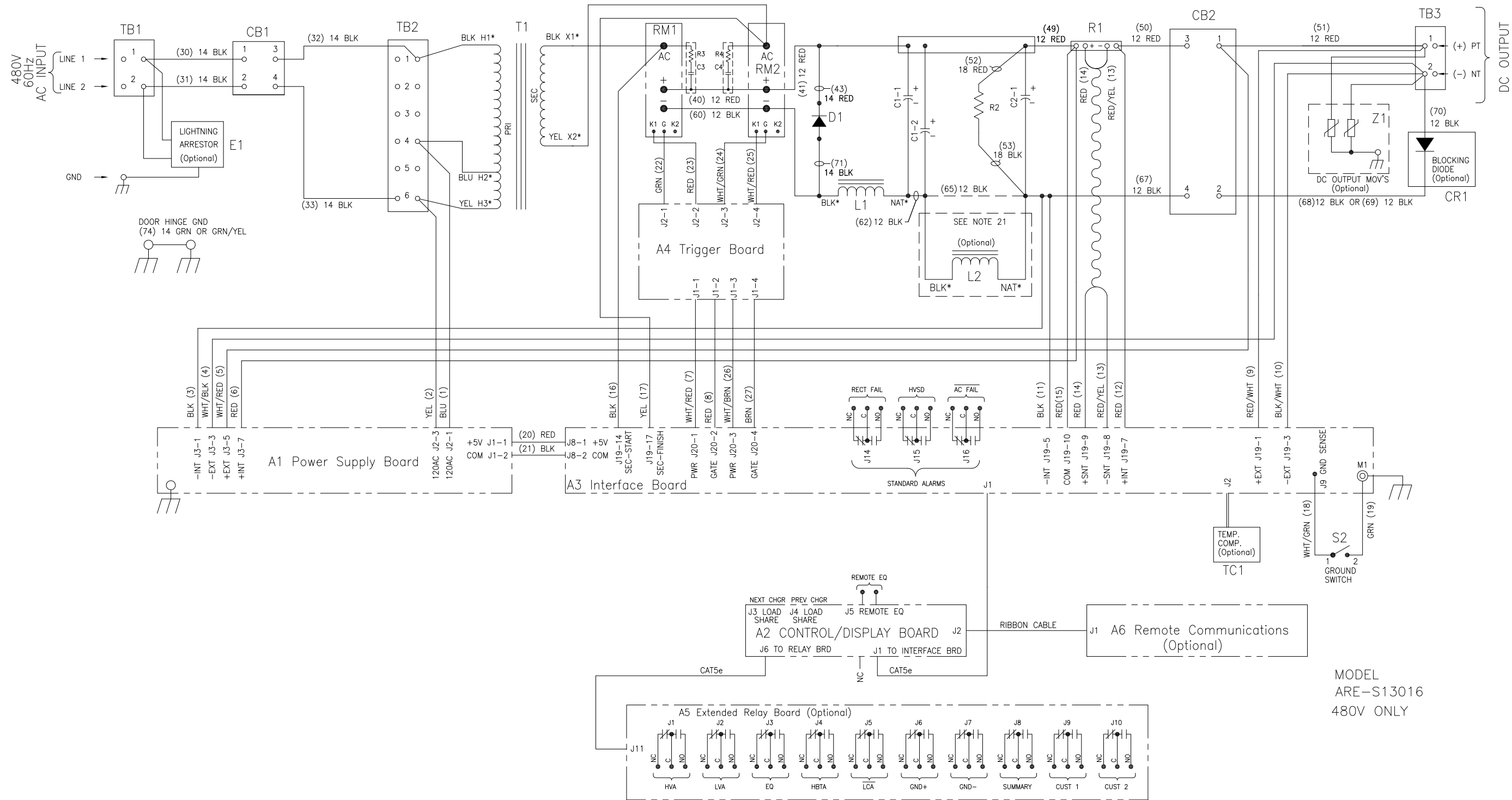
D

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SIZE B	DOC TYPE / NUMBER SD 102-1090-130	ISSUE 7
SCALE: N/A	SHEET: 6 OF 12	FILE NAME: SD102-1090-130_ISS_7

A

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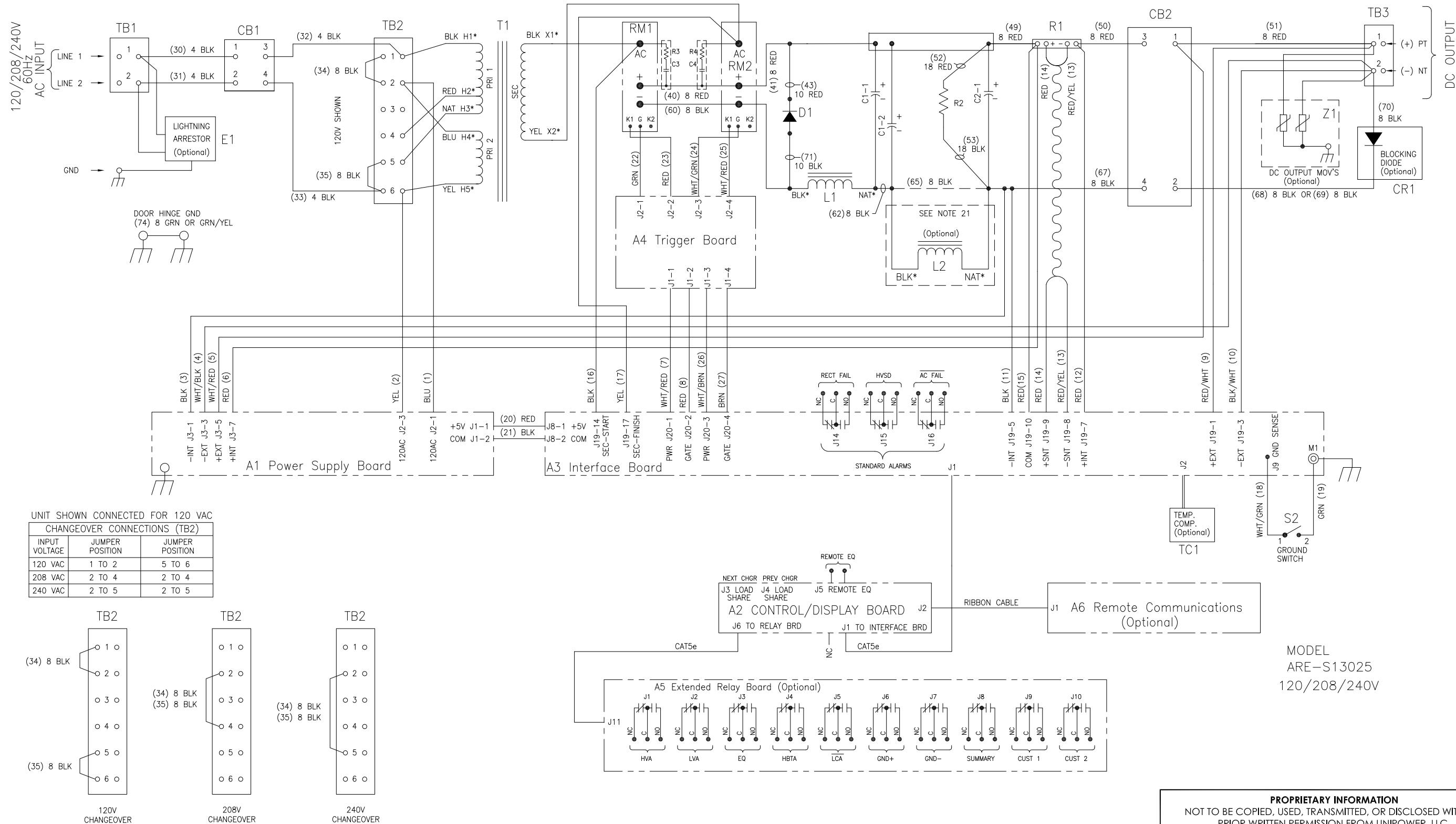
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A

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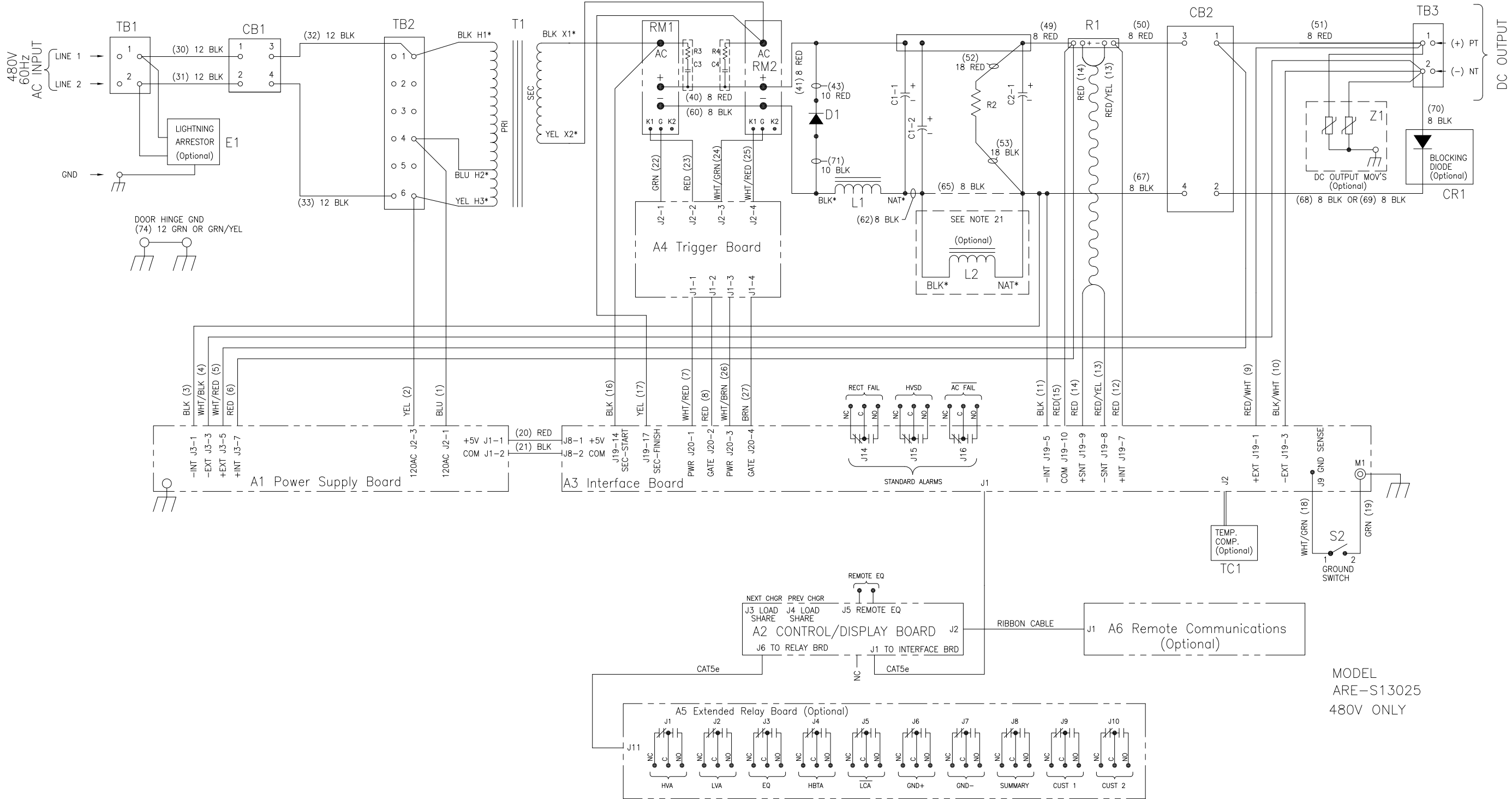
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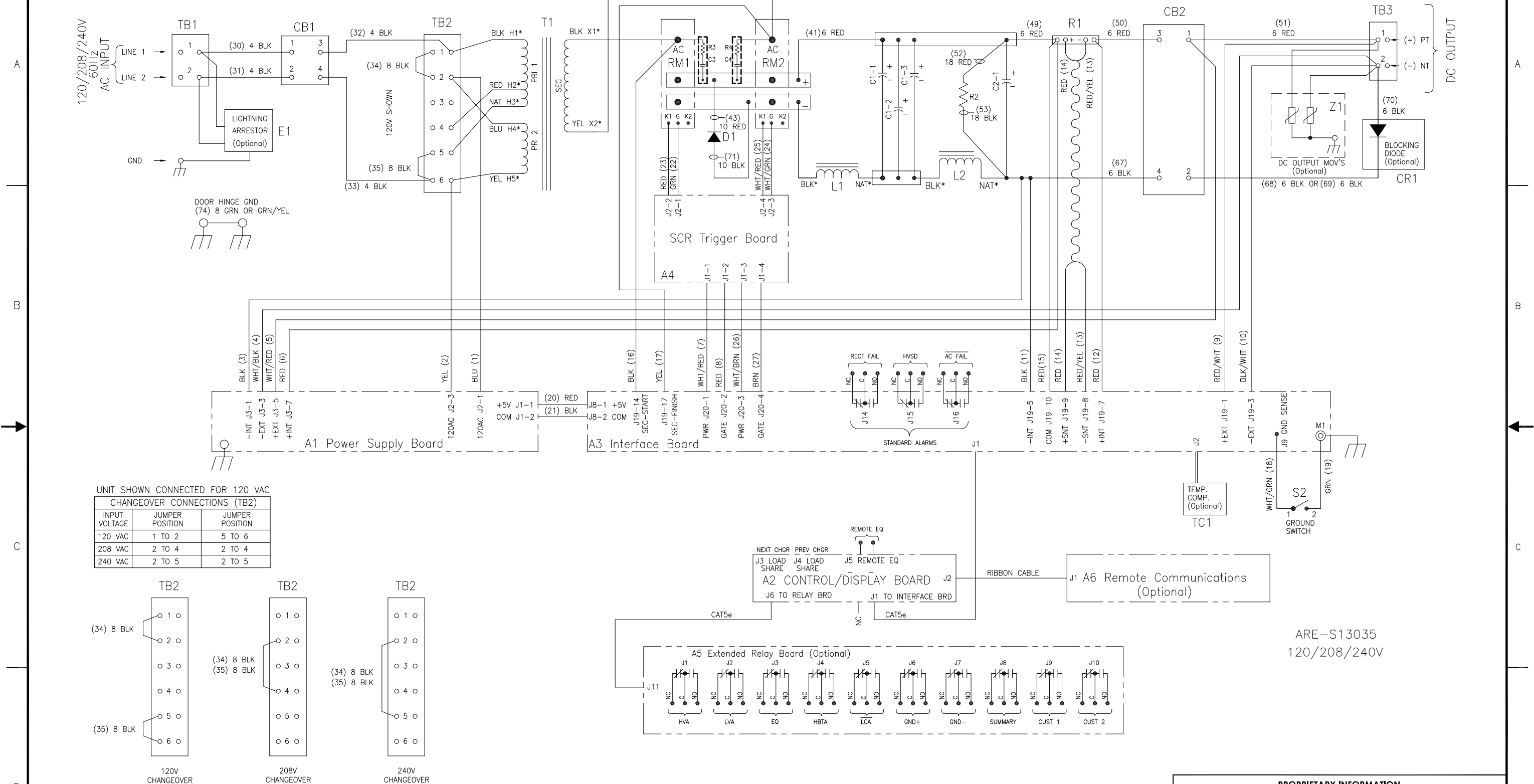
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MODEL
ARE-S13025
480V ONLY

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SCALE: N/A	SHEET: 8 OF 12	FILE NAME: SD102-1090-130_ISS_7

ARE-S13035
120/208/240VPROPRIETARY INFORMATION
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SCALE: N/A	SHEET: 9 OF 12	FILE NAME: SD102-1090-130_ISS_7

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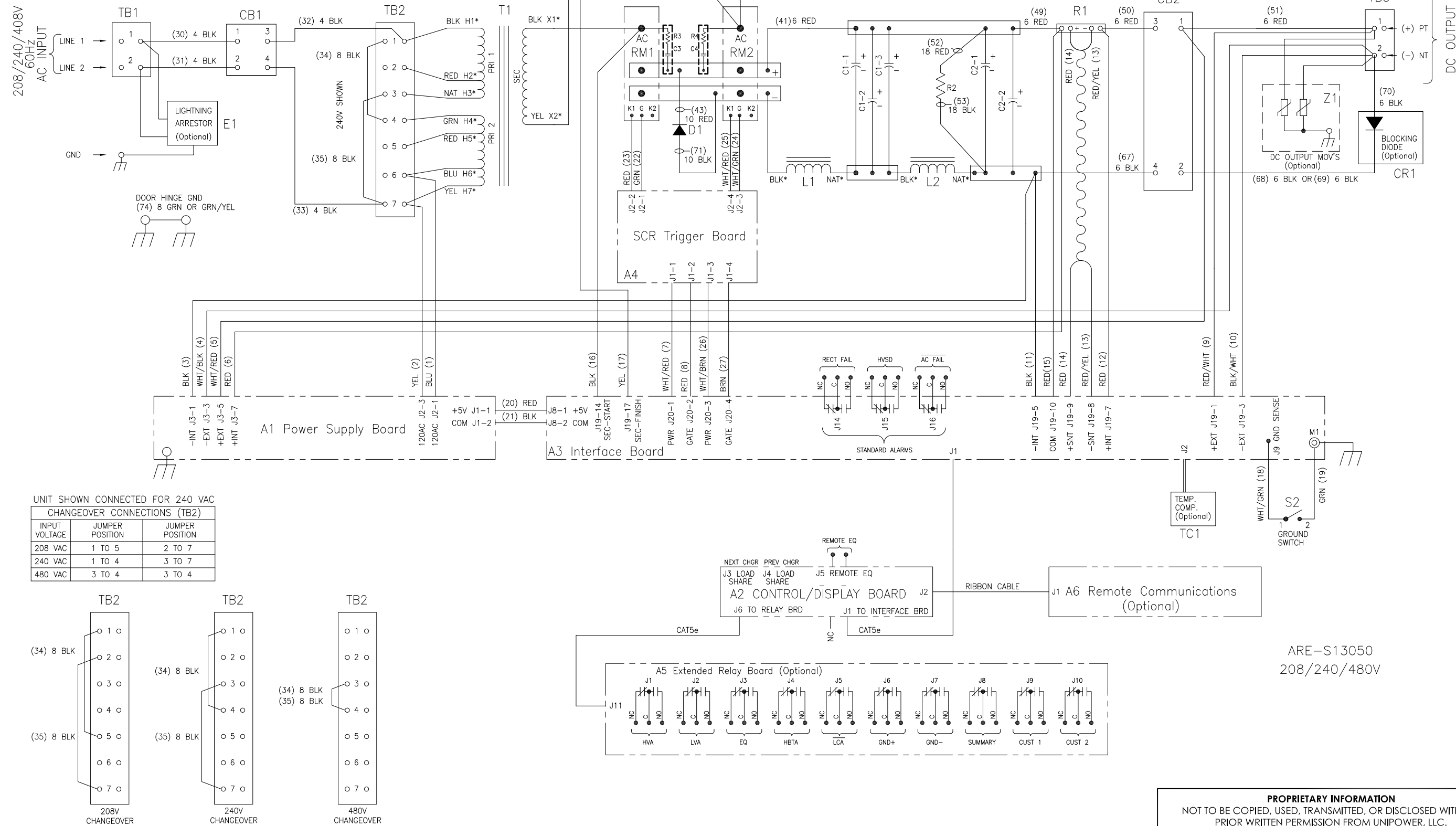
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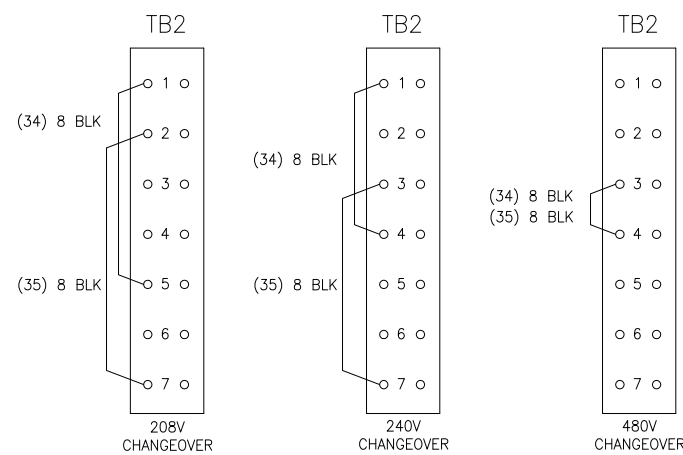
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UNIT SHOWN CONNECTED FOR 240 VAC
CHANGEOVER CONNECTIONS (TB2)

INPUT VOLTAGE	JUMPER POSITION	JUMPER POSITION
208 VAC	1 TO 5	2 TO 7
240 VAC	1 TO 4	3 TO 7
480 VAC	3 TO 4	3 TO 4



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