

ED991-5001-B1 Issue 3

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ISSUES

ISSUE #	DESCRIPTION	ISS. BY ISS. DATE	APP. BY APP. DATE
6	SEE ECN 20094. UPDATED DRAWING WITH UNIPOWER LOGO/VERBIAGE.	WD 2/20/15	DBW 2/26/15

UNLESS OTHERWISE
SPECIFIED DIMENSIONS
ARE IN INCHES
TOLERANCES ON:

APPROVALS

DATE

HOLES	+0.004 -0.002	DRAWN WD	8/29/12
FRACTIONS	±1/32	CHECKED CJM	8/30/12
DECIMALS (XX)	±0.020	APPROVED MCM	8/30/12
DECIMALS (XXX)	±0.010	APPROVED	
ANGLES	±1/2°		

SQUARE CORNERS AND ANGLES ARE 90° UNLESS OTHERWISE SPECIFIED.


WORKMANSHIP:
PER SPEC ENG032

MATERIAL:

FINISH:

PROPRIETARY INFORMATION

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 **UNIPOWER**
Powering Technology

SCHEMATIC DIAGRAMS
ARE-S 48V SYSTEMS

SIZE B	DOC TYPE / NUMBER SD 102-1090-48	ISSUE 6
SCALE: N/A	SHEET: 1 OF 5	FILE NAME: SD102-1090-48_ISS_6

NOTES:

1) SHEET 2; SCHEMATIC DIAGRAM FOR THE ARE-S04806 (120/208/240).

2) SHEET 3; SCHEMATIC DIAGRAM FOR THE ARE-S04812 (120/208/240).

3) SHEET 4; SCHEMATIC DIAGRAM FOR THE ARE-S04830 (120/208/240).

4) SHEET 5; SCHEMATIC DIAGRAM FOR THE ARE-S04850 (120/208/240).

5) 120/208/240 VOLTAGES ARE FIELD CHANGEABLE. INPUT CIRCUIT BREAKER
COULD CHANGE IN ORDER TO PROVIDE APPROPRIATE WIRE PROTECTION.

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

7) WIRE NUMBER IS INDICATED INSIDE PARENTHESES ().

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

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

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

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

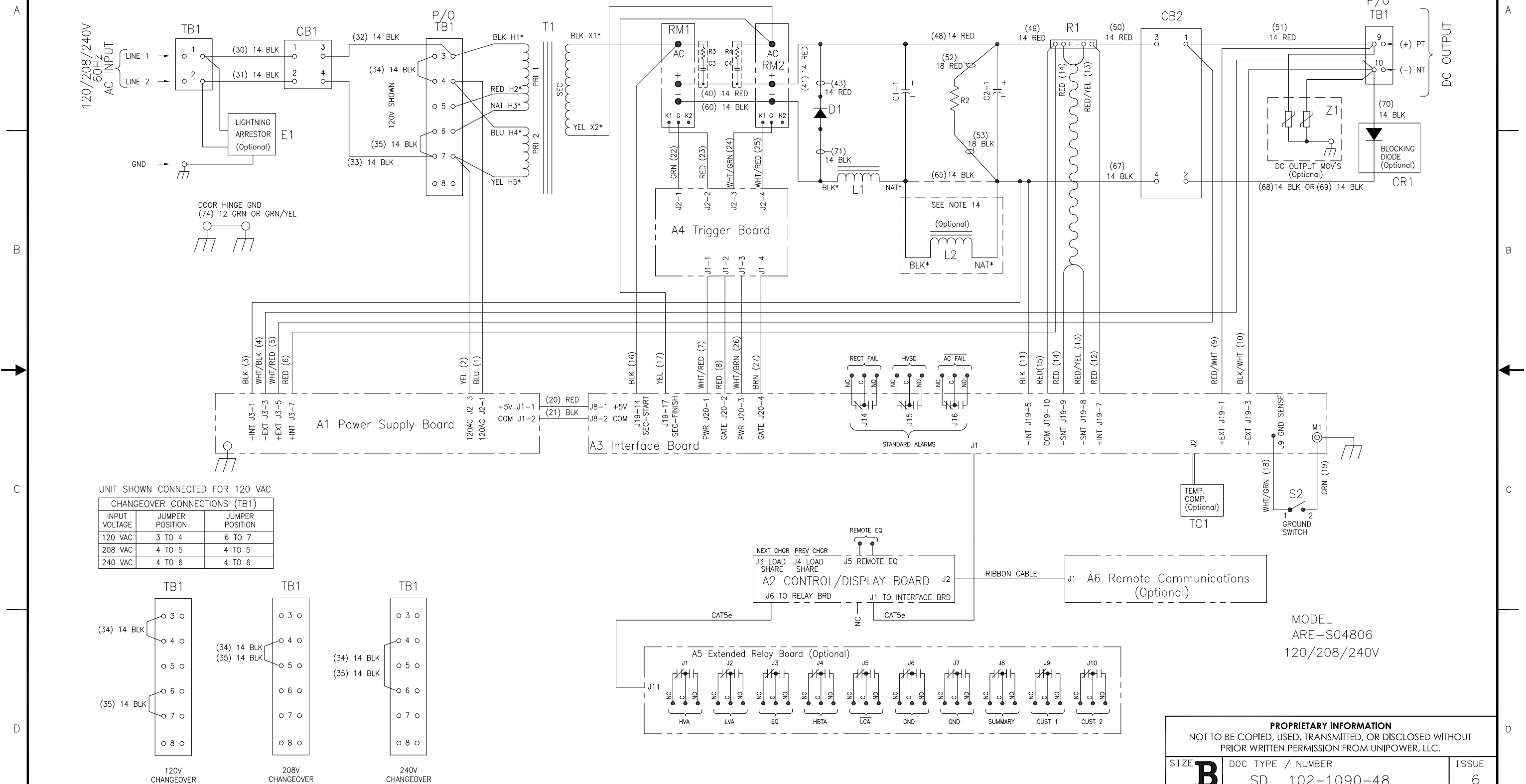
12) RELAY CONTACT RATING 60W/62.5VA, 2AMPS MAX SWITCHING CURRENT &
220VDC/250VAC MAX SWITCHING VOLTAGE.

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

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

MAJOR COMPONENT REFERENCES

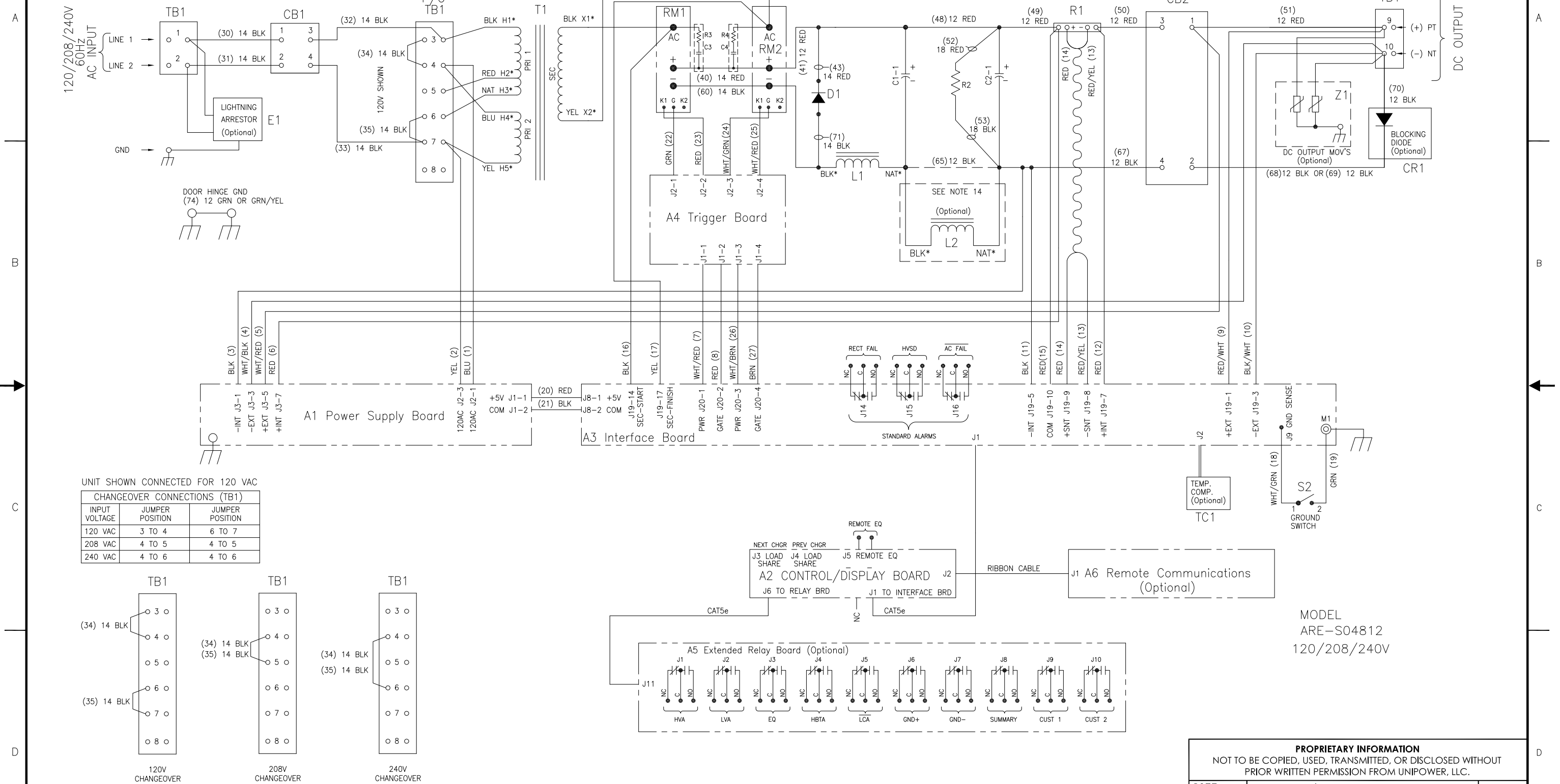
REFERENCE DESIGNATOR	DESCRIPTION
A1	POWER SUPPLY
A2	CONTROL/DISPLAY PCB
A3	INTERFACE PCB
A4	SCR TRIGGER PCB
A5	EXTENDED RELAY PCB (OPT)
A6	REMOTE COMMS PCB (OPT)
C1	CAP, FILTER
C2	CAP, FILTER
C3	CAP, SNUBBER
C4	CAP, SNUBBER
CB1	CIRCUIT BREAKER, INPUT
CB2	CIRCUIT BREAKER, OUTPUT
CR1	BLOCKING DIODE
D1	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 MOVs (OPT)



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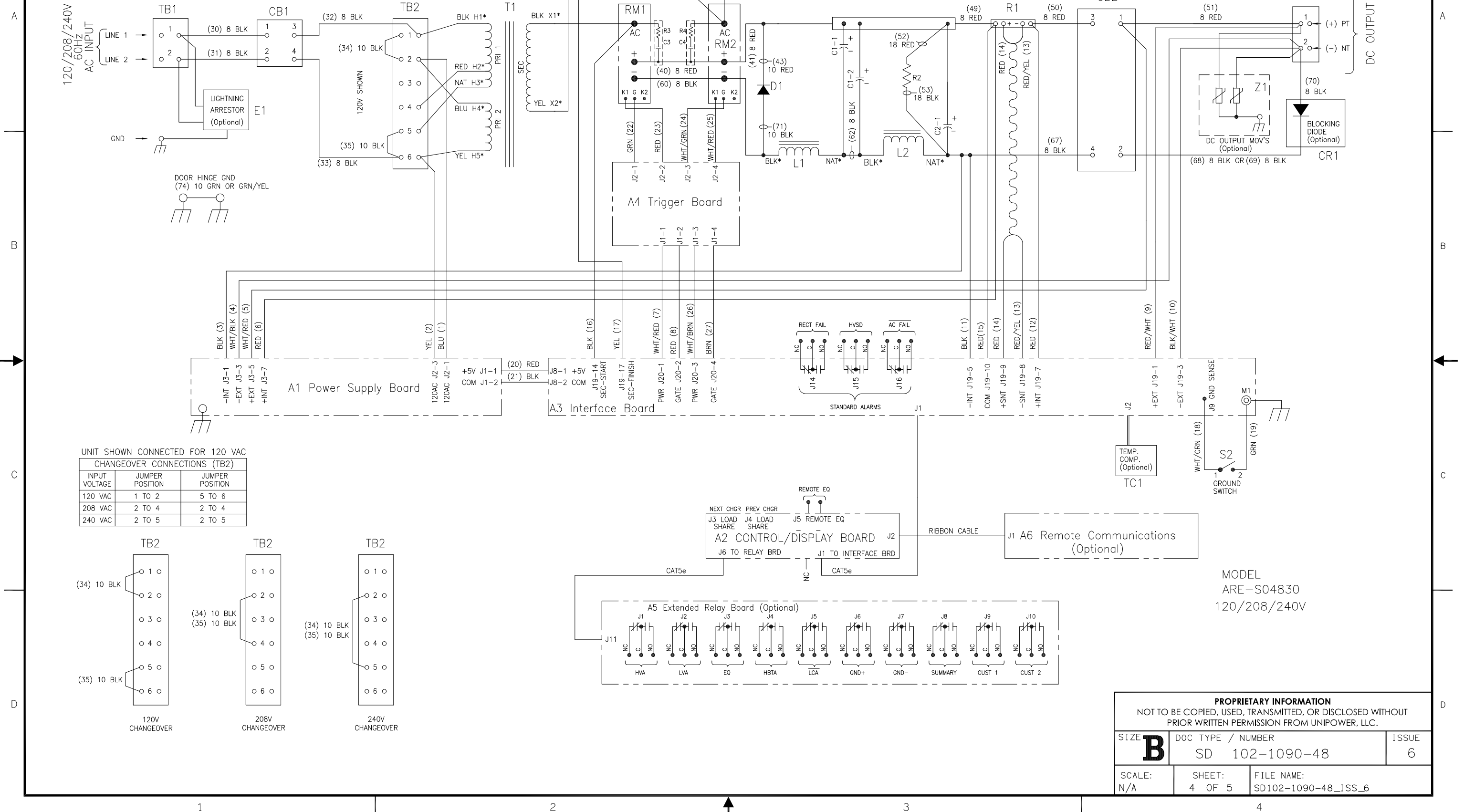
SIZE	DOC TYPE / NUMBER	ISSUE
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A

B

C

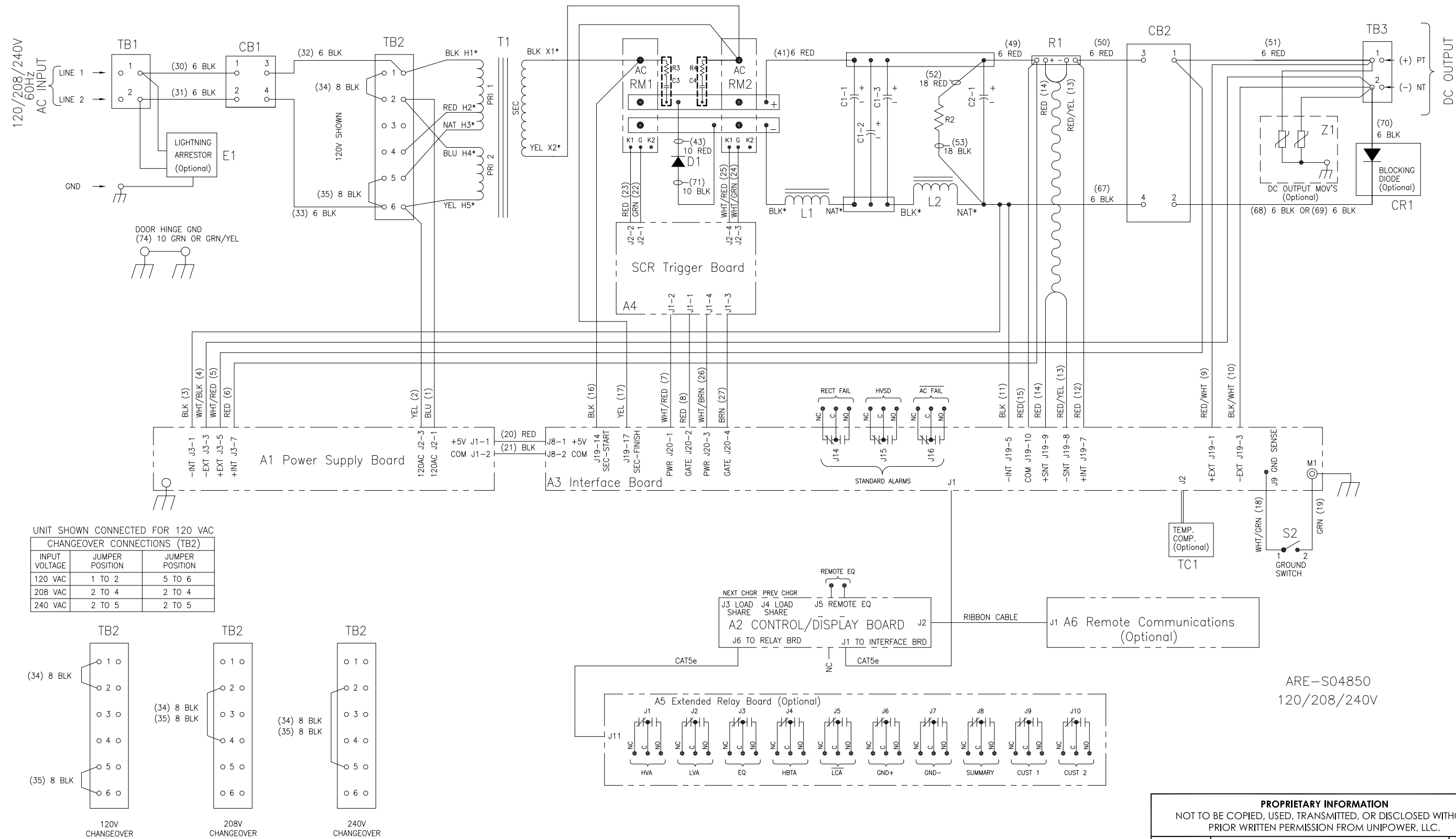
D

A

B

C

D



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