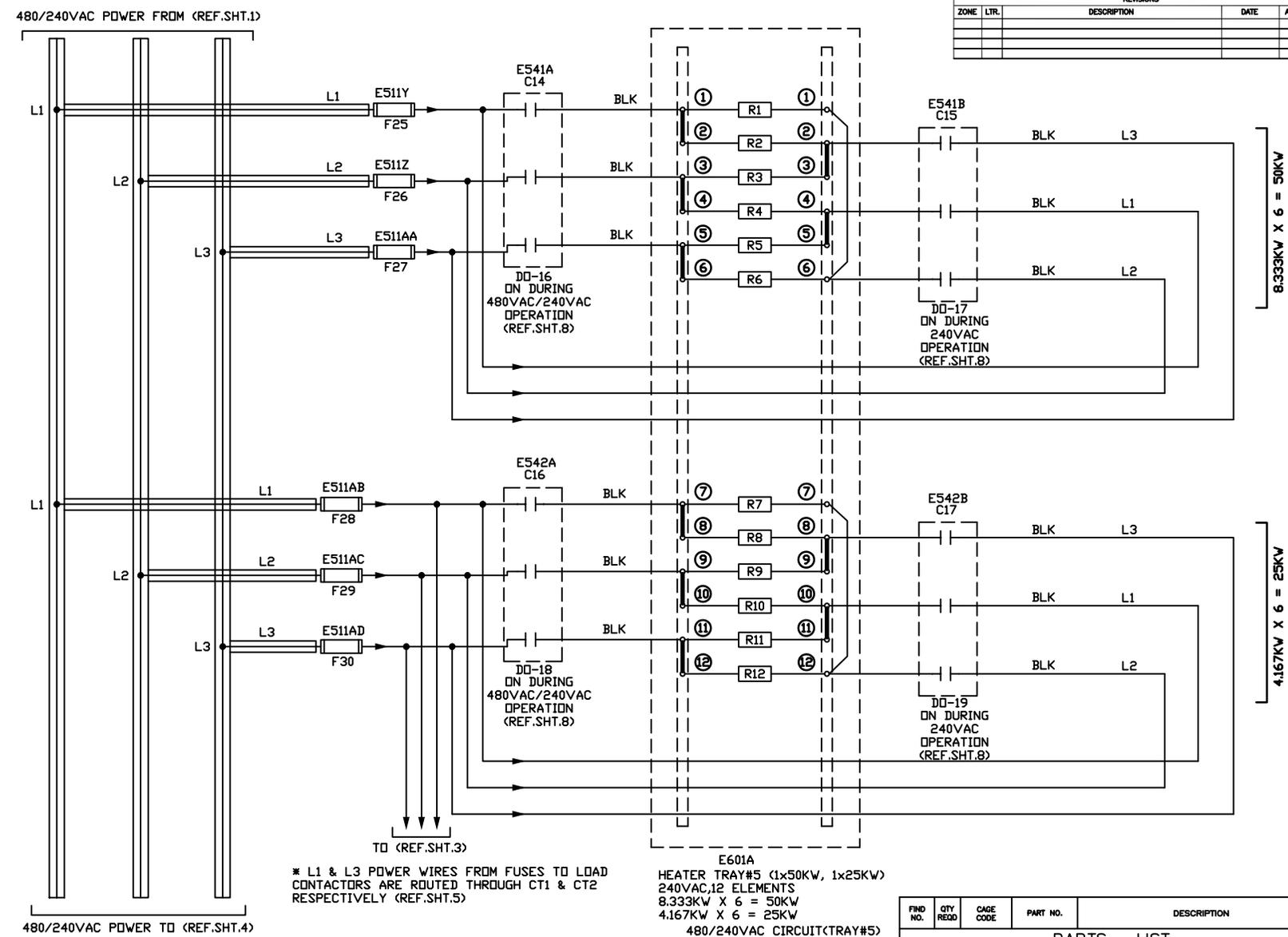


E203004-P0-SHT1 2/4/2023

A

REVISIONS				
ZONE	LTR.	DESCRIPTION	DATE	APPROVED



8.333KW X 6 = 50KW

4.167KW X 6 = 25KW

WIRING NOTES:

- 1) FOR HEATER POWER: USE #8AWG, #12AWG, 150DEG.C, 600VAC INSULATED UL STYLE 3321 WIRE.
- 2) FOR FAN MOTOR POWER: USE #12AWG, 150DEG.C, 600VAC INSULATED UL STYLE 3321 WIRE.
- 3) FOR CONTROL WIRING: USE #16AWG, 105DEG.C, 600VAC INSULATED UL STYLE 1015 WIRE UNLESS OTHERWISE SPECIFIED.

WIRE COLOR
 1AC SINGLE PHASE: #16AWG RED
 2NEUTRAL: #16AWG WHITE
 324VDC CIRCUIT: #16AWG BLUE
 4 480VAC POWER WIRING USE WIRE: #8AWG, #12AWG, #14AWG-BLACK

FINISH MATERIAL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE
 * PLACE DECIMALS ± .03
 * PLACE DECIMALS ± .010

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FIND NO.	QTY REQD	CAGE CODE	PART NO.	DESCRIPTION

PARTS LIST

ULB UNIVERSAL LOAD BANKS

500KW RESISTIVE LOADBANK
MODEL ULB-R500H-480-240-CP

CONTRACT NUMBER: 1168

SIZE: D CAGE CODE: 8LKM0

DO NOT SCALE DRAWING

SCALE: ~ WEIGHT: SHEET: 2

D REV-0
12/2/2022
E203004-PO-SHT2

B

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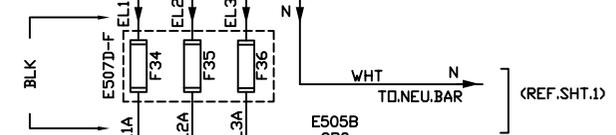
REVISIONS				
ZONE	LTR.	DESCRIPTION	DATE	APPROVED

-CAUTION-
 MOTOR BLOWER/CONTROL POWER CIRCUIT IS NOT
 DESIGNED TO OPERATE FROM AC DRIVE.
 AC POWER SUPPLY FROM SUCH SOURCE WILL DAMAGE
 THE UNIT.

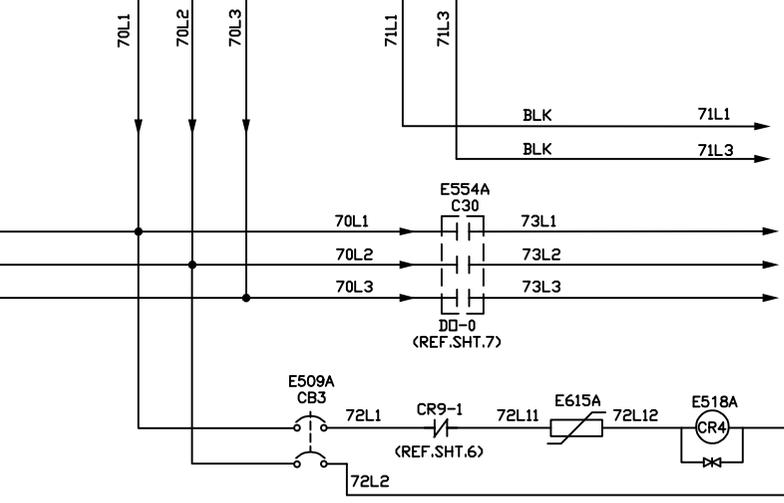
EXTERNAL POWER FROM CUSTOMER FACILITY
 (480VAC/240VAC,3PH,WYE,15KVA,50/60HZ.)

480/240VAC POWER FROM (REF.SHT.2)

E14A L1 L2 L3 N 4-PINS MALE RECEPTACLE] INSTALLED ON POWER CONNECTION
 PANEL ON RIGHT SIDE



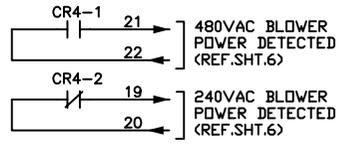
E553A
 C28
 (REF.SHT.6)



240/480VAC POWER TO
 (REF.SHT.6)

240/480VAC POWER TO
 (REF.SHT.4A) C30 205 202 DI-0 COOLING FAN ON
 (REF.SHT.9)

480VAC BLOWER
 POWER DETECTED
 COIL RELAY:480VAC



* L1 & L3 POWER WIRES ARE ROUTED
 THROUGH CT1 & CT2 RESPECTIVELY
 (REF.SHT.5)

480/240VAC POWER TO (REF.SHT.5)

COOLING FAN MOTOR WIRING DETAILS

FIND NO.	QTY REQD	CAGE CODE	PART NO.	DESCRIPTION

APPROVALS		DATE
DRAWN	SP	
CHECKED	BP	
ENGR.	JT	
QUAL.	JT	
REL.		

CONTRACT NUMBER	

SIZE	CAGE CODE	DESCRIPTION
D	8LKM0	E203004-P0

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS ± 1/8
 DECIMALS ± .03
 3 PLACE DECIMALS ± .010

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PARTS LIST

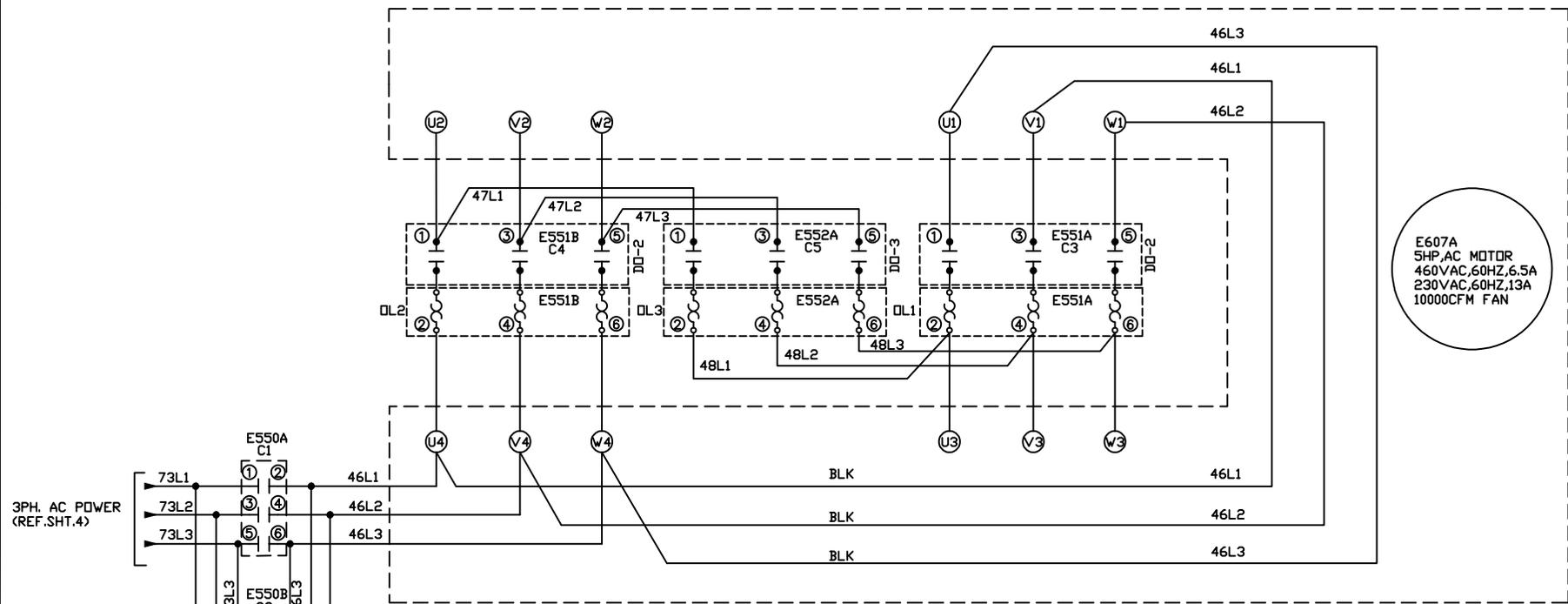
ULB UNIVERSAL LOAD BANKS

500KW RESISTIVE LOADBANK
 MODEL ULB-R500H-480-240-0P

SCALE -- WEIGHT SHEET 4

12/2/2022 E203004-PO-SHT 4 REV-0

REVISIONS				
ZONE	LTR.	DESCRIPTION	DATE	APPROVED



E607A
 5HP, AC MOTOR
 460VAC, 60HZ, 6.5A
 230VAC, 60HZ, 13A
 10000CFM FAN

3PH. AC POWER
 (REF.SHT.4)

FAN DIRECTION
 FORWARD
 REVERSE
 (REF.SHT.6)

CONTACTOR STATUS
 C1 - DN, C2 - OFF
 C1 - OFF, C2 - DN

CONTACTORS STATUS AT 240/480VAC POWER

	C3	C4	C5
480VAC	OFF	OFF	DN
240VAC	DN	DN	OFF

(REF.SHT.6)

COOLING FAN MOTOR WIRING DETAILS

FIND NO.	QTY REQD	CAGE CODE	PART NO.	DESCRIPTION

APPROVALS			DATE
DRAWN	SP		
CHECKED	BP		
ENGR.	JT		
REL.			

PARTS LIST			
ULB UNIVERSAL LOAD BANKS			
500KW RESISTIVE LOADBANK MODEL ULB-R500H-480-240-0P			
CONTRACT NUMBER			
1168			
SIZE	CAGE CODE		
D	8LKM0	E203004-P0	
DO NOT SCALE DRAWING	SCALE	WEIGHT	SHEET 4A

FINISH MATERIAL

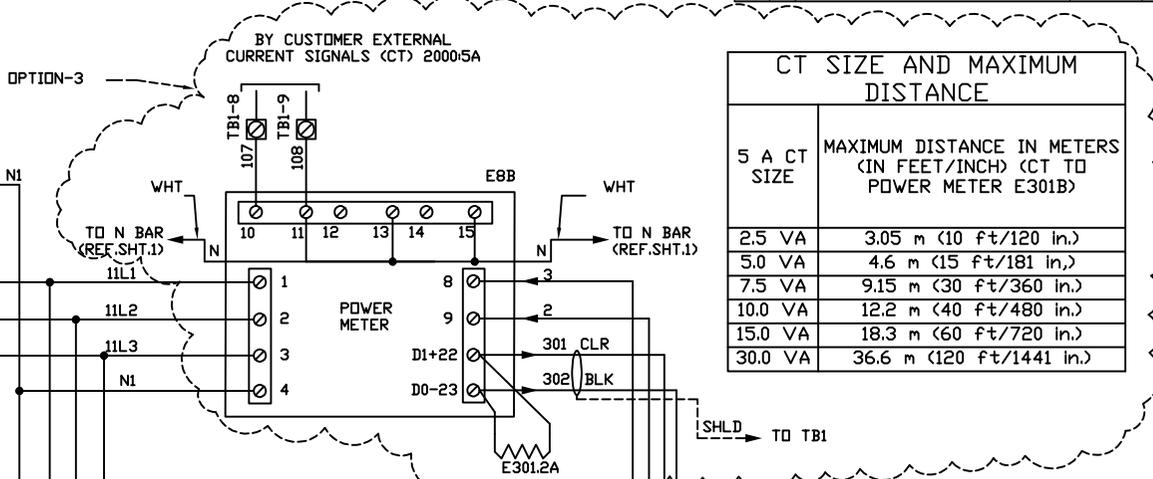
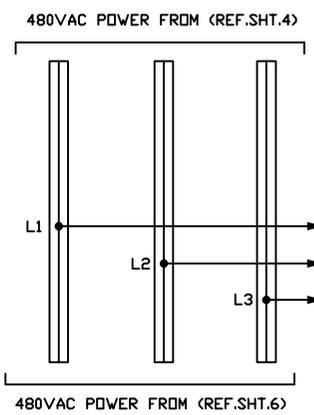
UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE ± 1/8
 2 PLACE DECIMALS ± .03
 3 PLACE DECIMALS ± .010

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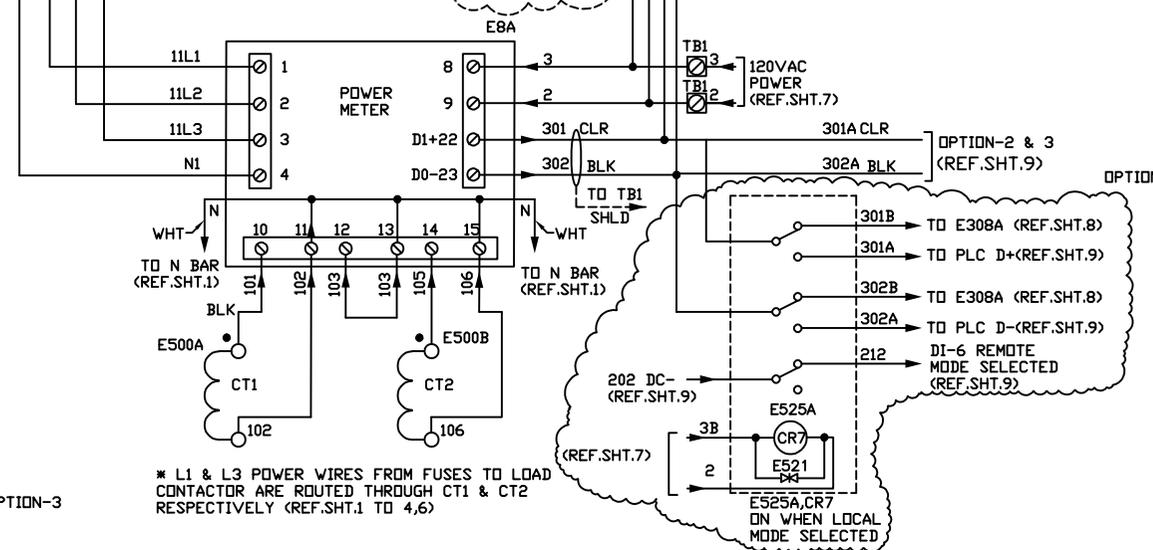
D REV-0
12/2/2022
E203004-P0-SHT 4A
C
B

REVISIONS				
ZONE	LTR.	DESCRIPTION	DATE	APPROVED



CT SIZE AND MAXIMUM DISTANCE	
5 A CT SIZE	MAXIMUM DISTANCE IN METERS (IN FEET/INCH) (CT TO POWER METER E301B)
2.5 VA	3.05 m (10 ft/120 in.)
5.0 VA	4.6 m (15 ft/181 in.)
7.5 VA	9.15 m (30 ft/360 in.)
10.0 VA	12.2 m (40 ft/480 in.)
15.0 VA	18.3 m (60 ft/720 in.)
30.0 VA	36.6 m (120 ft/1441 in.)

CONFIGURATION SHEET FOR POWER METER		
	E301A	E301B
TYPE: POWER SYSTEM CONFIGURATION; [1P.L.N, 1P.L.L, 1P.3L, 3P.3L, 3P.4L] DEFAULT: 3P.4L	3P.4L	3P.4L
VT: VOLTAGE TRANSFORMER; [ND.VT, 2.VT, 3.VT, 1.VT] DEFAULT: ND.VT	ND.VT	ND.VT
VT.PR: PRIMARY VOLTAGE<V L-L>; [0100V TO 999000V] DEFAULT: 415	480V	480V
VT.SE: SECONDARY VOLTAGE<V L-L>; [100, 110, 115, 120, 415] DEFAULT: 415	480V	480V
CT: CURRENT TRANSFORMER; [A.1, A.2, A.3, A.12, A.23, A.31, A.123] DEFAULT: A.123	A.31	A.1
CT.PR: CT PRIMARY; [1A TO 32760A] DEFAULT: 5	1250A	2000A
CT.SE: CT SECONDARY; [1A, 5A] DEFAULT: 5	5A	5A
A.SUP: A.SUPPRESSION (MINIMUM CURRENT AT WHICH METER STARTS FUNCTIONING); [1 TO 99 mA]	20mA	20mA
ID: UNIT ID; [1 TO 247] DEFAULT: 1	1	2
BAUD: BPS(BITS PER SECOND); [4800, 9600, 19200, 38400] DEFAULT: 19200	38400	38400
PRTY: PARITY; [EVEN, ODD, NONE] DEFAULT: EVEN	NONE	NONE
PASS: PASSWORD; CONFIGURABLE FROM 0000 TO 9999 DEFAULT: 0000	1000	1000



* L1 & L3 POWER WIRES FROM FUSES TO LOAD CONTACTOR ARE ROUTED THROUGH CT1 & CT2 RESPECTIVELY (REF.SHT.1 TO 4,6)

FIND NO.	QTY REQD	CAGE CODE	PART NO.	DESCRIPTION

APPROVALS		DATE
DRAWN	SP	
CHECKED	BP	
ENGR.	JT	
QUAL	JT	
REL.	JT	

PARTS LIST		
500KW RESISTIVE LOADBANK MODEL ULB-R500H-480-240-OP		
CONTRACT NUMBER		
1168		
SIZE	CAGE CODE	
D	8LKM0	
SCALE	WEIGHT	SHEET 5

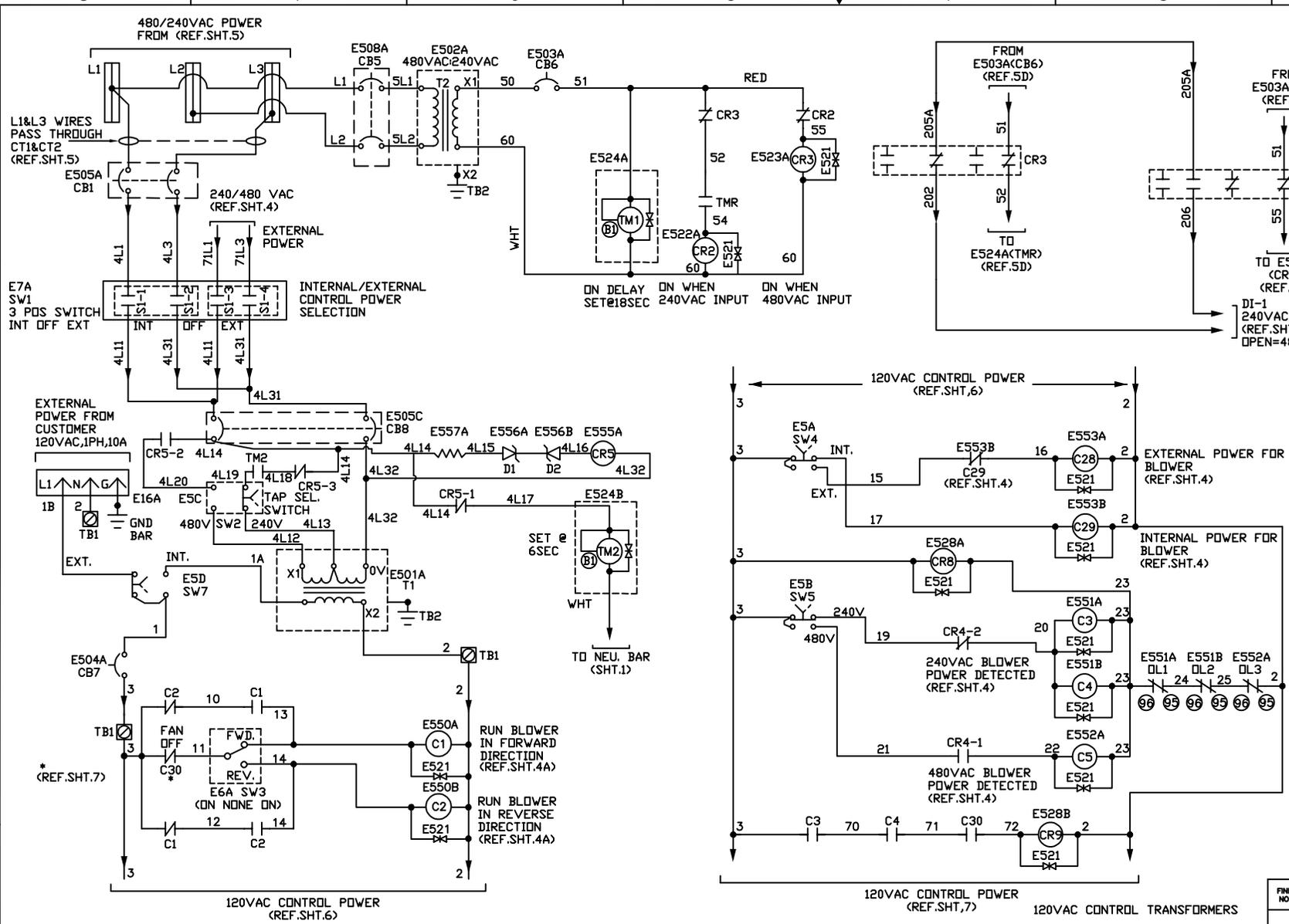
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1/8" ± 0.015" 1/16" ± 0.005" 3 PLACE DECIMALS ± 0.03 3 PLACE DECIMALS ± 0.010

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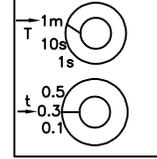
NOTE:
 1) ITEMS E8A POWER METER & E9A/B/C - POWER ON LAMPS ARE INSTALLED NEAR HMI DISPLAY ON FRONT CONTROL PANEL.
 2) OPTION-3 ITEMS ARE INSTALLED WHEN AUTO LOAD LEVEL CONTROL IS SELECTED.

REVISIONS				
ZONE	LTR.	DESCRIPTION	DATE	APPROVED



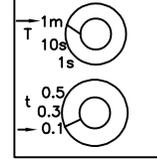
SETTING ON FRONT OF E524A (TMR)

*stn'=ON-DELAY
1M= 60 SEC
DIAL AT 0.3 FOR
18 SEC TIME
SETTING



SETTING ON FRONT OF E524B (TMR)

*stn'=ON-DELAY
1M= 60 SEC
DIAL AT 0.1 FOR
6 SEC TIME
SETTING



FIND NO.	QTY REQD	CAGE CODE	PART NO.	DESCRIPTION

APPROVALS		DATE
DRAWN	SP	
CHECKED	BP	
ENGR.	JT	
QUAL.	JT	
REL.		

PARTS LIST		
500KW RESISTIVE LOADBANK MODEL ULB-R500H-480-240-0P		
CONTRACT NUMBER		
SIZE	CAGE CODE	
D	8LKM0	E203004-P0
DO NOT SCALE DRAWING	SCALE	WEIGHT

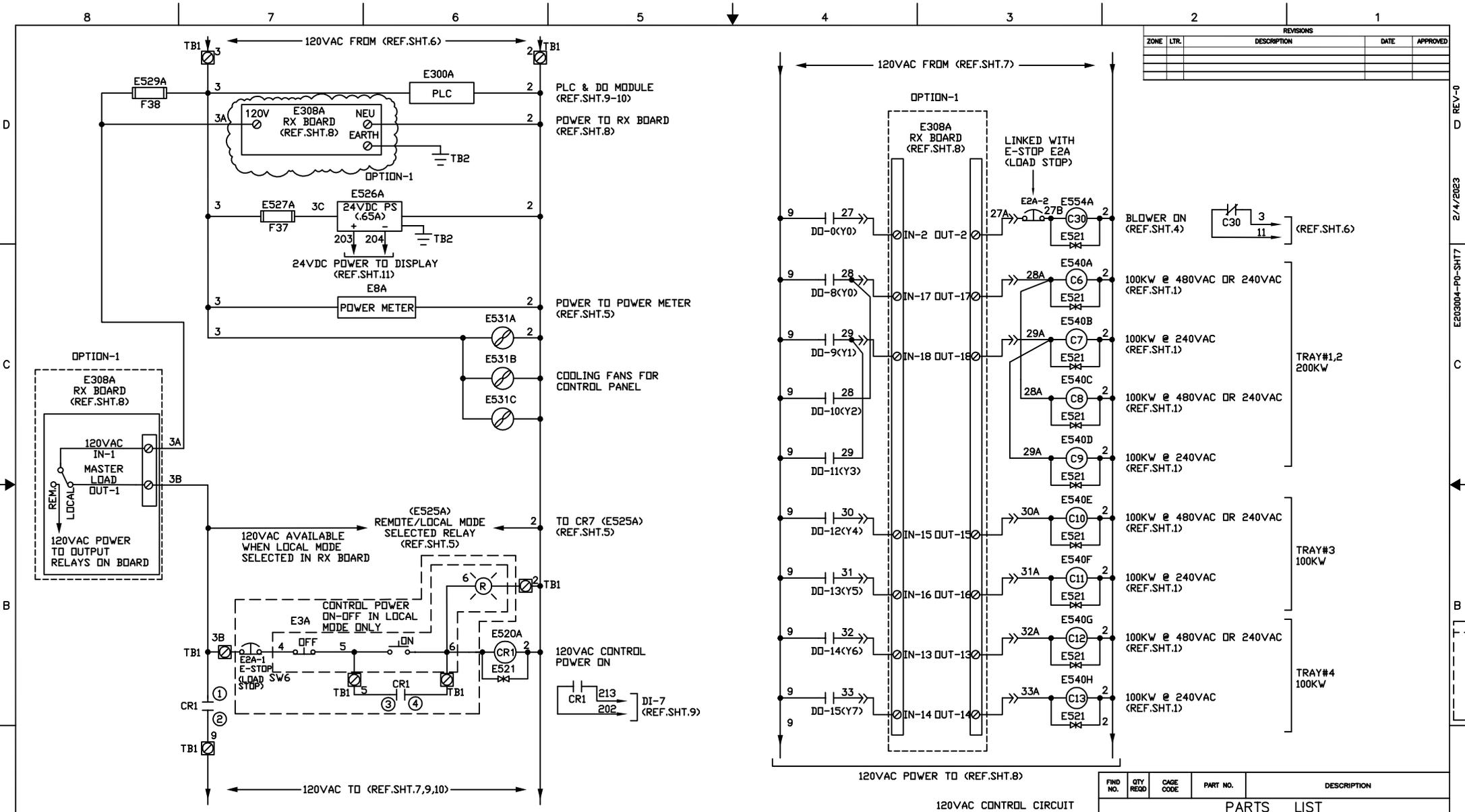
NOTE:
1. E521: ARC SUPPRESSOR-TYPICAL
2. SWITCH E5A/B/C,E7A,E6A ARE INSTALLED ON FRONT CONTROL PANEL.
3. SWITCH E5D INSTALLED ON POWER CONNECTOR PANEL ON RIGHT SIDE.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± 1/8
DECIMALS ± .03
3 PLACE DECIMALS ± .010

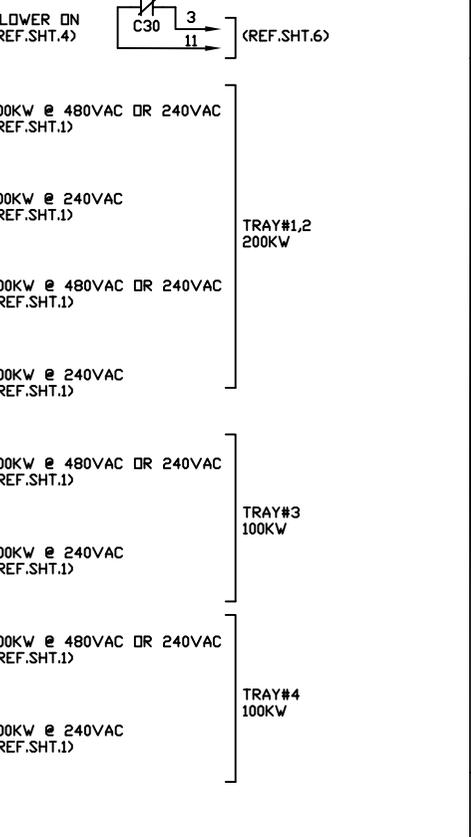
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FINISH	MATERIAL



REVISIONS				
ZONE	LTR.	DESCRIPTION	DATE	APPROVED



- E521: ARC SUPPRESSOR-TYPICAL
- SWITCHES E2A,E3A ARE MOUNTED ON FRONT CONTROL PANEL.
- OPTION-1 ITEMS ARE INSTALLED WHEN REMOTE CONTROL OF LOAD BANK USING Rx BOARD IN LOAD BANK AND Rx MONITORING S/W IN CUSTOMER PC IS REQUIRED.

120VAC CONTROL CIRCUIT

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FIND NO.	QTY	REQD	CAGE CODE	PART NO.	DESCRIPTION

PARTS LIST

ULB UNIVERSAL LOAD BANKS

500KW RESISTIVE LOADBANK
MODEL ULB-R500H-480-240-OP

CONTRACT NUMBER: 1168

SCALE: D BLKMO

WEIGHT: E203004-P0

SHEET 7

2/4/2023

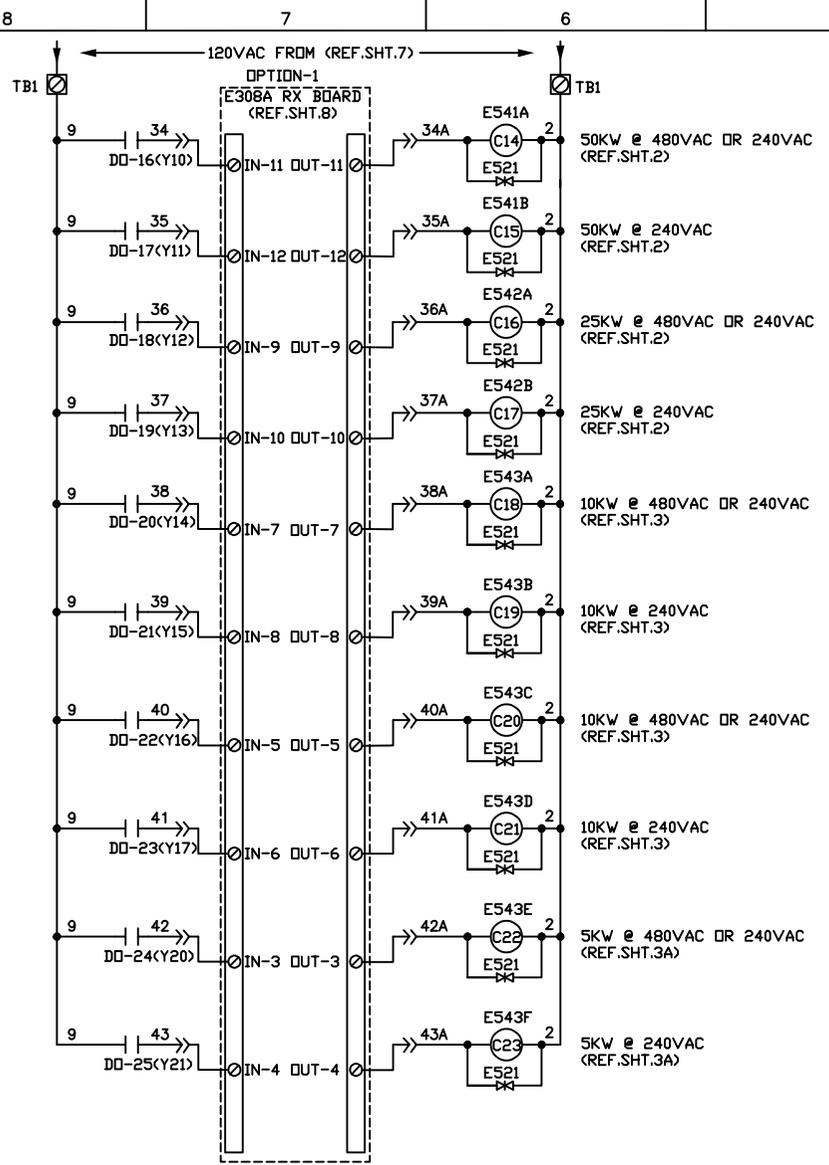
E203004-P0-SHT7

C

B

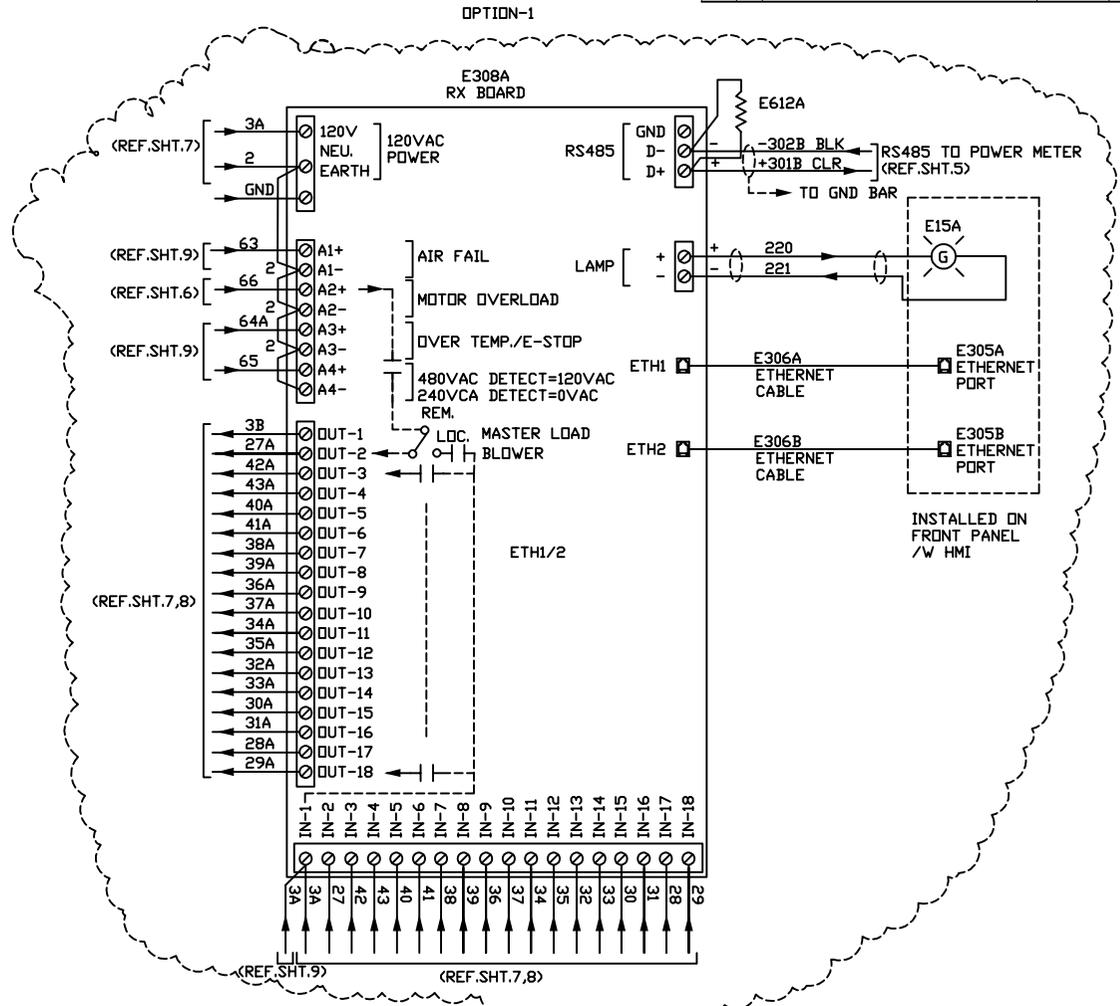
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REVISIONS				
ZONE	LTR.	DESCRIPTION	DATE	APPROVED



TRAY#5
75KW

TRAY#6
25KW



120VAC CONTROL CIRCUIT

FIND NO.	QTY REQD	CAGE CODE	PART NO.	DESCRIPTION
PARTS LIST				
ULB UNIVERSAL LOAD BANKS				
500KW RESISTIVE LOADBANK MODEL ULB-R500-480-240-0P				
CONTRACT NUMBER		1168		
DO NOT SCALE DRAWING		SIZE	CAGE CODE	E203004-P0
		SCALE	WEIGHT	SHEET 8

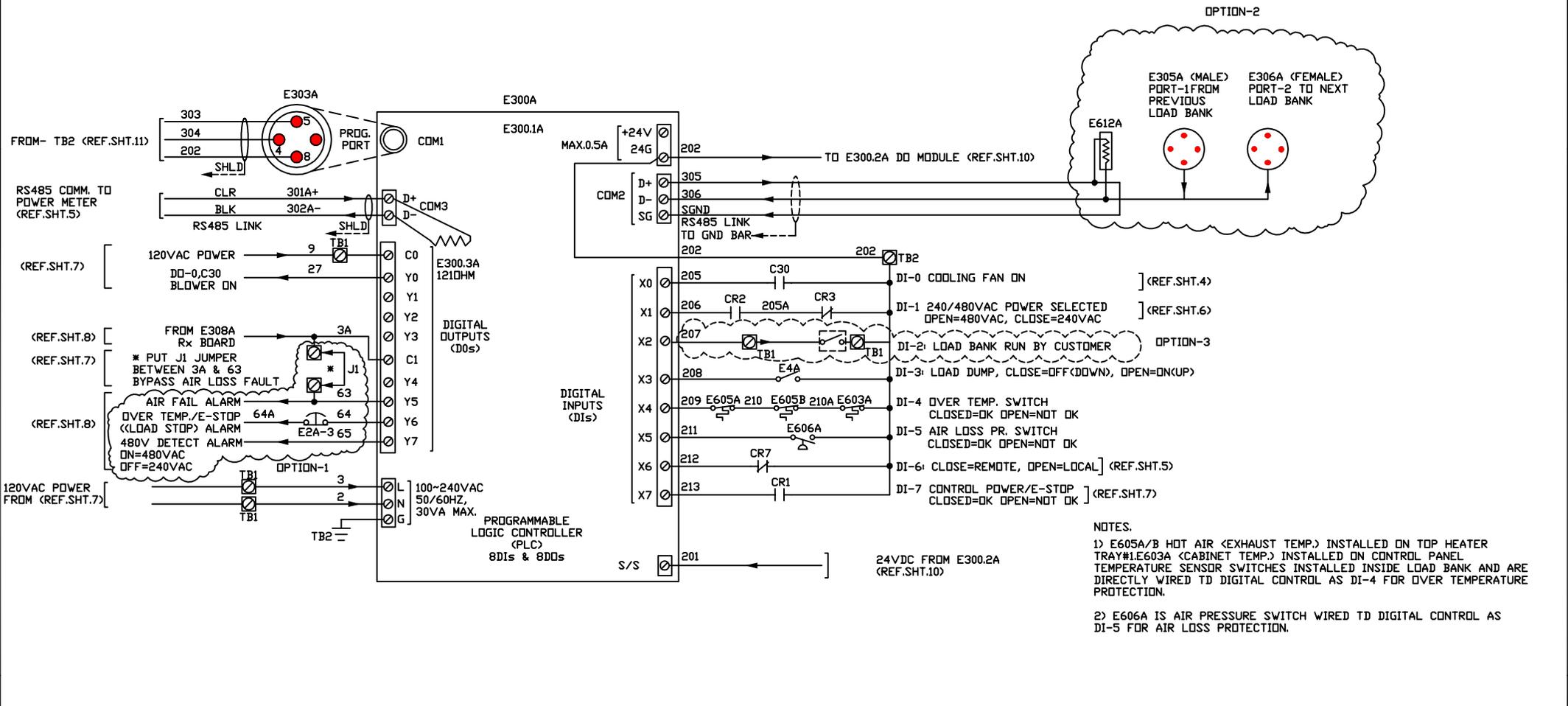
NOTE:
1. E521: ARC SUPPRESSOR-TYPICAL
2. OPTION-1 ITEMS ARE INSTALLED WHEN REMOTE CONTROL OF LOAD BANK USING R_x BOARD IN LOAD BANK AND R_x MONITORING S/W IN CUSTOMER PC IS REQUIRED.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE ± .015
2 PLACE DECIMALS ± .03
3 PLACE DECIMALS ± .010

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REVISIONS				
ZONE	LTR.	DESCRIPTION	DATE	APPROVED
7B	-	E2A-3 EMG.STOP CONTACT ADDED	04/FEB/23	JT



NOTES.
 1) E605A/B HOT AIR (EXHAUST TEMP.) INSTALLED ON TOP HEATER TRAY#1.E603A (CABINET TEMP.) INSTALLED ON CONTROL PANEL TEMPERATURE SENSOR SWITCHES INSTALLED INSIDE LOAD BANK AND ARE DIRECTLY WIRED TO DIGITAL CONTROL AS DI-4 FOR OVER TEMPERATURE PROTECTION.
 2) E606A IS AIR PRESSURE SWITCH WIRED TO DIGITAL CONTROL AS DI-5 FOR AIR LOSS PROTECTION.

NOTE:
 1) OPTION-2 ITEMS ARE INSTALLED WHEN MULTIPLE LOAD BANK NETWORKING OPTION IS SELECTED.
 2) INSERT RESISTOR (120Ω) IN FIRST LOAD BANK AND LAST LOAD BANK DURING MULTI-NETWORKING OPERATION.
 3) OPTION-3 IS APPLICABLE WHEN AUTO LOAD LEVEL OPTION IS SELECTED.
 4) E4A LOAD DUMP SWITCH INSTALLED ON FRONT CONTROL PANEL.
 5) WIRE NO 64 & 64A ARE LINKED WITH EMG.STOP(LOAD STOP)-E2A.

PLC AND DO MODULE WIRING

FINISH MATERIAL

UNLESS OTHERWISE SPECIFIED TOLERANCES SHALL BE 1/16" ANGLES 45° ± 0.1° HOLE POSITION ± .010 3 PLACE DECIMALS ± .010

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FIND NO.	QTY REQD	CAGE CODE	PART NO.	DESCRIPTION
PARTS LIST				
APPROVALS				
DRAWN	SP	DATE		
CHECKED	JF	ULB UNIVERSAL LOAD BANKS		
ENGR.	JT	500KW RESISTIVE LOADBANK		
QUAL.	JT	MODEL ULB-R500H-480-240-OP		
REL.	JT	CONTRACT NUMBER		
1168				
DO NOT SCALE DRAWING				
SIZE	CAGE CODE	E203004-P0		
D	8LKMO	SCALE	WEIGHT	SHEET 9

8 7 6 5 4 3 2 1

D
C
B
A

D REV-0
E203004-P0-SHT9
C
B

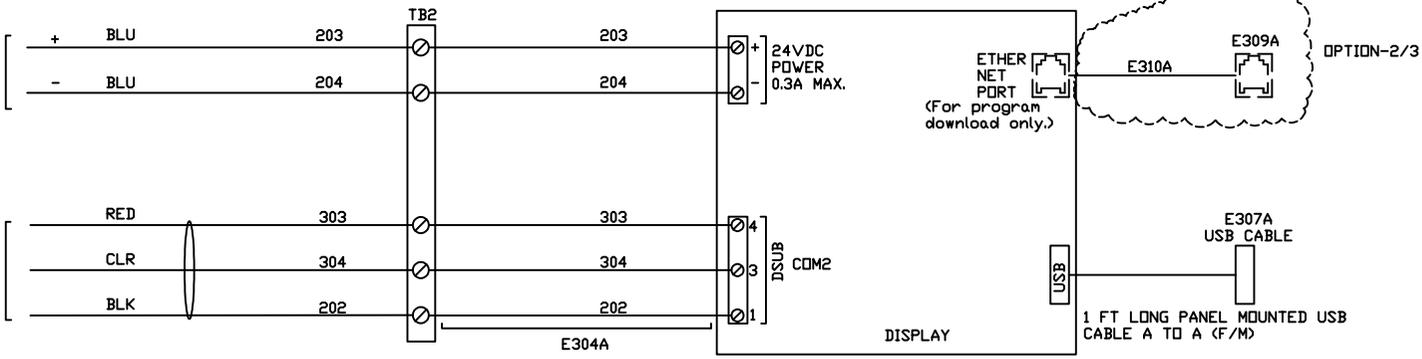
8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

REVISIONS				
ZONE	LTR.	DESCRIPTION	DATE	APPROVED

24VDC POWER FROM E526A PWR. SUPPLY (REF.SHT.7)

FROM E303A COM1 (REF.SHT.9)



INSTALLED ON FRONT CONTROL PANEL

- OPTION 1 : ACTIVATE 480-240-500KW-LOCAL PROGRAM ON HMI.
- OPTION 2/3 : ACTIVATE 480-240-500KW-PLC CONTROL PROGRAM ON HMI

DISPLAY BOX WIRING

FINISH	MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE ± 1/8 INCH ± .03 3 PLACE DECIMALS ± .010
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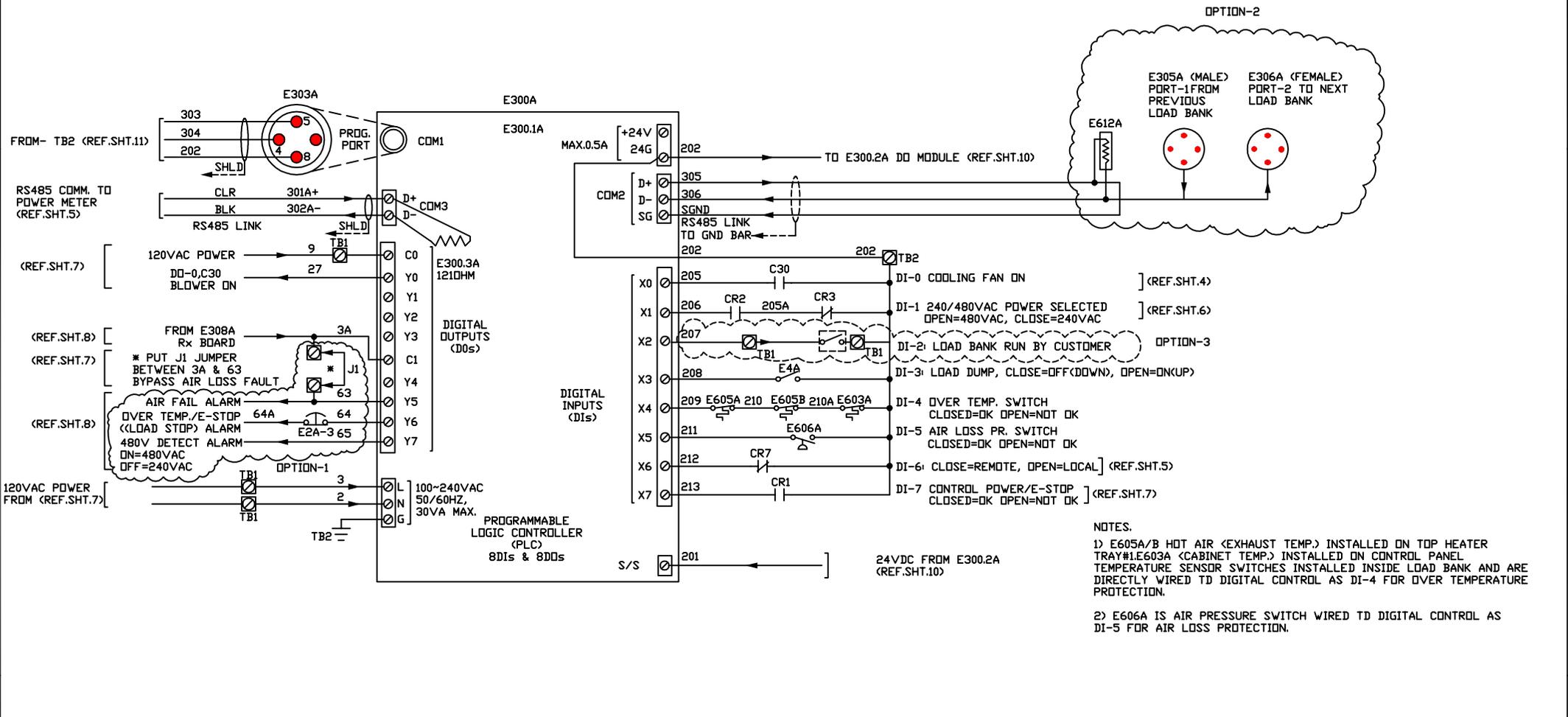
FIND NO.	QTY REQD	CAGE CODE	PART NO.	DESCRIPTION

APPROVALS		DATE		
DRAWN	SP			
CHECKED	BP			
ENGR.	JT			
REL.				
CONTRACT NUMBER			500KW RESISTIVE LOADBANK MODEL ULB-R500H-480-240-OP	
1168				
SIZE	CAGE CODE	PART NO.		
D	8LKM0	E203004-P0		
DO NOT SCALE DRAWING		SCALE	WEIGHT	SHEET 11

8 7 6 5 4 3 2 1

REV-0
12/2/2022
E203004-P0-SHT11

REVISIONS				
ZONE	LTR.	DESCRIPTION	DATE	APPROVED
7B	-	E2A-3 EMG.STOP CONTACT ADDED	04/FEB/23	JT



NOTE:

- OPTION-2 ITEMS ARE INSTALLED WHEN MULTIPLE LOAD BANK NETWORKING OPTION IS SELECTED. INSERT RESISTOR (120Ω) IN FIRST LOAD BANK AND LAST LOAD BANK DURING MULTI-NETWORKING OPERATION.
- OPTION-3 IS APPLICABLE WHEN AUTO LOAD LEVEL OPTION IS SELECTED.
- E4A LOAD DUMP SWITCH INSTALLED ON FRONT CONTROL PANEL.
- WIRE NO 64 & 64A ARE LINKED WITH EMG.STOP(LOAD STOP)-E2A.

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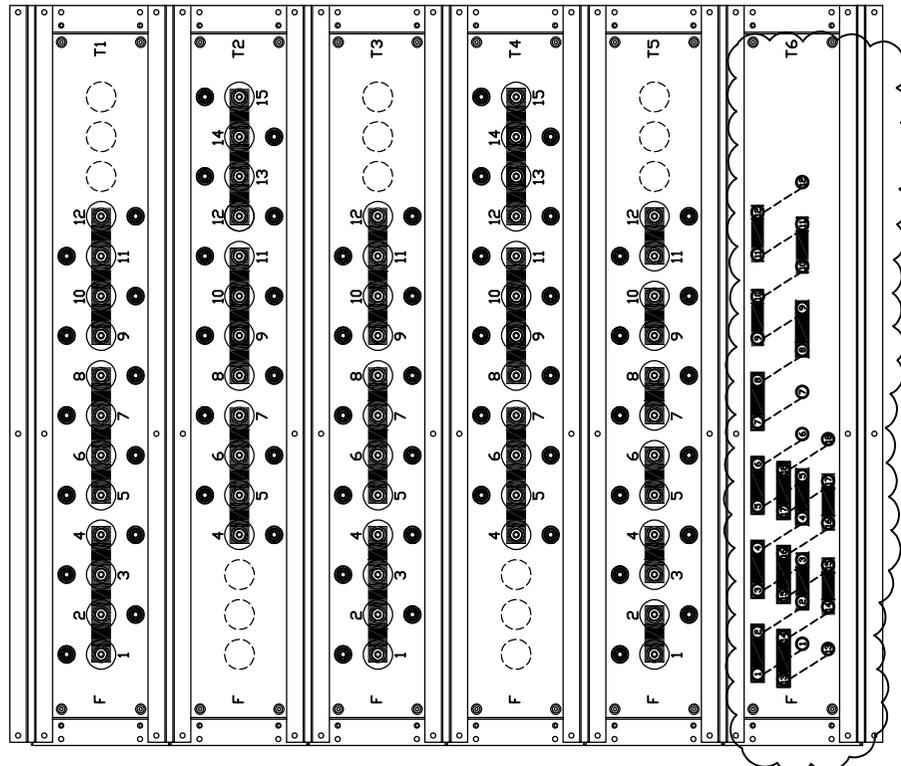
FIND NO.	QTY REQD	CAGE CODE	PART NO.	DESCRIPTION
PARTS LIST				
ULB UNIVERSAL LOAD BANKS				
500KW RESISTIVE LOADBANK MODEL ULB-R500H-480-240-OP				
CONTRACT NUMBER		1168		
DO NOT SCALE DRAWING		SCALE	WEIGHT	SHEET 9

E203004-P0-SHT9 2/4/2023

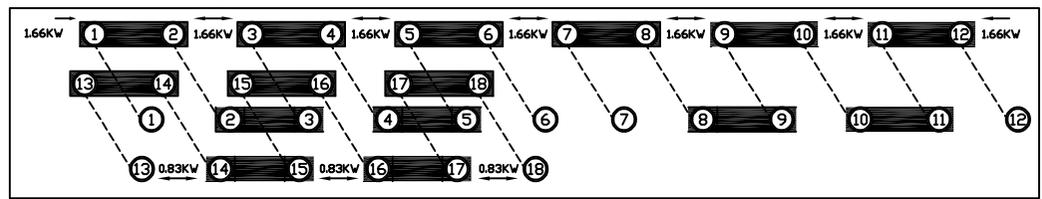
8 7 6 5 4 3 2 1

REVISIONS				
ZONE	LTR.	DESCRIPTION	DATE	APPROVED

TRAY#1 TRAY#2 TRAY#3 TRAY#4 TRAY#5 TRAY#6



FRONT VIEW



TRAY LAYOUT

FIND NO.	QTY REQD	CAGE CODE	PART NO.	DESCRIPTION

APPROVALS		DATE	
DRAWN	SP		
CHECKED	BP		
ENGR.	JT		
REL.			

CONTRACT NUMBER		500KW RESISTIVE LOADBANK MODEL ULB-R500H-480-240-OP
1168		
SIZE	CAGE CODE	E203004-P0
D	8LKM0	
SCALE	WEIGHT	SHEET
		12

FINISH MATERIAL

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE ± 1/8
 2 PLACE DECIMALS ± .03
 3 PLACE DECIMALS ± .010

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D REV-0
 12/13/2022
 E203004-P1-SHT12
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