

CIRCUIT BREAKER PANEL PRODUCT MANUAL FOR P/N 111-2917 P/N 111-3765 P/N 111-3762 P/N 111-3766 P/N 111-3763 P/N 111-3768 P/N 111-3764 P/N 111-3769

UNIPOWER, LLC 65 Industrial Park Rd Dunlap, TN 37327 Phone: +1-954-346-2442 Toll Free: 1-800-440-3504 Web site – www.unipowerco.com

RECEIVING INSTRUCTIONS & GENERAL EQUIPMENT INFORMATION

Please Note: For your protection, the following information and the product manual should be read and thoroughly understood before unpacking, installing, or using the equipment.

UNIPOWER, LLC presents all equipment to the delivering carrier securely packed and in perfect condition. Upon acceptance of the package from us, the delivering carrier assumed responsibility for its safe arrival to you. Once you receive the equipment, it is your responsibility to document any damage the carrier may have inflicted, and to file your claim promptly and accurately.

1. <u>PACKAGE INSPECTION</u>

- **1.1** Examine the shipping crate or carton for any visible damage: punctures, dents, and any other signs of possible internal damage.
- **1.2** Describe any damage or shortage on the receiving documents, and have the carrier sign their full name.
- **1.3** If your receiving freight bill notes that a Tip-N-Tell is attached to your freight, locate it. If the Tip-N-Tell arrow has turned even partially blue, this means the freight has been tipped in transport. Make sure the carrier notes this on your receipt before you sign for the freight.

2. <u>EQUIPMENT INSPECTION</u>

2.1 Within fifteen days, open the crate and inspect the contents for damages. While unpacking, be careful not to discard any equipment, parts, or manuals. If any damage is detected, call the delivering carrier to determine appropriate action. They may require an inspection.

*SAVE ALL SHIPPING MATERIAL FOR THE INSPECTOR TO SEE!

- **2.2** After the inspection has been made, call UNIPOWER, LLC. We will determine if the equipment should be returned to our plant for repair, or if some other method would be more expeditious. If it is determined that the equipment should be returned to UNIPOWER, LLC, ask the delivering carrier to send the packages back to UNIPOWER, LLC at the delivering carrier's expense.
- **2.3** If repair is necessary, we will invoice you for the repair so that you may submit the bill to the delivering carrier with your claim form.

2.4 It is your responsibility to file a claim with the delivering carrier. Failure to properly file a claim for shipping damages may void warranty service for any physical damages later reported for repair.

3. <u>HANDLING</u>

Equipment can be universally heavy or top-heavy. Use adequate humanpower or equipment for handling. Until the equipment is securely mounted, be careful to prevent the equipment from being accidentally tipped over.

4. <u>NAMEPLATE</u>

Each piece of UNIPOWER, LLC equipment is identified by a part number on the nameplate. Please refer to this number in all correspondence with UNIPOWER, LLC.

5. <u>INITIAL SETTINGS</u>

All equipment is shipped from our production area *fully checked and adjusted*. Do not make any adjustments until you have referred to the technical reference or product manual.

6. <u>SPARE PARTS</u>

To minimize downtime during installation or operation, we suggest you purchase spare fuses, circuit boards and other recommended components as listed on the Recommended Spare Parts List in the back of the product manual. If nothing else, we strongly recommend stocking spare fuses for all systems.

PRODUCT SUPPORT

Product support can be obtained using the following addresses and telephone numbers.

Corporate office: UNIPOWER, LLC 210 N University Dr Coral Springs, FL 33071 United States Manufacturing facility: UNIPOWER, LLC 65 Industrial Park Rd Dunlap, TN 37327 United States

Manufacturing facility: UNIPOWER Slovakia SRO ZLATOVSKA 1279 Business Center 22 91105 Trencin, Slovakia

Phone: +1-954-346-2442 Toll Free: 1-800-440-3504 Web site – www.unipowerco.com

When contacting UNIPOWER, please be prepared to provide:

- 1. The product model number, spec number, S build number, and serial number see the equipment nameplate on the front panel
- 2. Your company's name and address
- 3. Your name and title
- 4. The reason for the contact
- 5. If there is a problem with product operation:
 - Is the problem intermittent or continuous?
 - What revision is the firmware?
 - What actions were being performed prior to the appearance of the problem?
 - What actions have been taken since the problem occurred?

REVISION HISTORY

REV	DESCRIPTION	CK'D & APPR'D BY / DATE
9	See PCO# 45463	CJM / 9/19/19

PROPRIETARY AND CONFIDENTIAL

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DISCLAIMER

Data, descriptions, and specifications presented herein are subject to revision by UNIPOWER, LLC without notice. While such information is believed to be accurate as indicated herein, UNIPOWER, LLC makes no warranty and hereby disclaims all warranties, express or implied, with regard to the accuracy or completeness of such information. Further, because the product(s) featured herein may be used under conditions beyond its control, UNIPOWER, LLC hereby disclaims and excludes all warranties, express, implied, or statutory, including any warranty of merchantability, any warranty of fitness for a particular purpose, and any implied warranties otherwise arising from course of dealing or usage of trade. The user is solely responsible for determining the suitability of the product(s) featured herein for user's intended purpose and in user's specific application.

Throughout the remainder of this manual, "UNIPOWER" will mean "UNIPOWER, LLC."

PERSONNEL REQUIREMENTS

Installation, setup, operation, and servicing of this equipment should be performed by qualified persons thoroughly familiar with this Product Manual and Applicable Local and National Codes. A copy of this manual is included with the equipment shipment.

TABLE OF CONTENTS

1.	INSTALLATION	.1
	1.1 MOUNTING	
	1.2 WIRING	
	OPERATION	
	2.1 INSPECTION	
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*Associated drawings at end of manual.

1. INSTALLATION

1.1 MOUNTING

Install panel in a rack or box enclosure using 12 - 24 hardware. Panel can be mounted in a 19" or 23" rack or enclosure.

1.2 WIRING

Connect a properly sized cable to the bus bar using the holes provided.

For panels equipped with the current shunts, do the following:

- 1) Confirm that the rating of the shunt matches the requirements for the monitoring circuits (i.e., 600 Amps at 50 mV).
- 2) Connect 14 AWG wires to the terminal block (TB2) located on the rear of the panel, and to the meter panel. Ensure that proper polarity is observed.

2. OPERATION

2.1 INSPECTION

The circuit breaker panel should be inspected periodically for:

- Loose or overheated connections
- Burned or overheated parts
- Accumulation of dirt

***WARNING:** Excess load breaker capacity may result in improper operation and hazard to equipment and personnel.

ED991-5001-B1 Issue 3 1 2	3	4
		ISSUES
ENGINEERING NOTES:	MANUFACTURING NOTES:	ISSUE DESCRIPTION ISS. BY # ISS. DATE
51. SELECT CIRCUIT BREAKER PANEL PER TABLE A. TABLE A	101. INSULATE BUS WITH 3/4" FIBERGLASS SLEEVING (032-0001-00).	6 SEE PCO# 44479 WD 7/11/17 A
ITEDEL INITEMMODELAMPE/W SWITCHRATING1111-2917-00250NO (NOTE 53)MD2111-2917-10250YES (NOTE 53)STD2111-2917-11250YES (NOTE 53)STD52. AMMETER SHUNTS, IF EQUIPPED, ARE NORMALLY RATED AT 600 AMPS. OTHER VALUES MAY BE SPECIFIED.STD	102. REPLACE BOLT SUPPLIED WITH SHUNT WITH 3/8-16 X 3/4" BRONZE BOLT (210-8128-00).	
 53. PANELS ARE EQUIPPED WITH ALARM SWITCHES FOR CONNECTION TO EXTERNAL ALARM SYSTEMS. ON 111-2917-10, THE SWITCH CLOSES ONLY WHEN THE BREAKER TRIPS. ON 111-2917-11, THE SWITCH CLOSES BOTH WHEN A BREAKER TRIPS, AND ALSO WHEN THE BREAKER HANDLE IS IN THE "OFF" POSITION. 54. SELECT THE PAINT COLOR FROM TABLE B: IE. 111-2917-, COLOR A = ANSI 61 GRAY FINISH IE. 111-2917-, COLOR B = BEIGE FINISH 		В
TABLE B		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ± TOLERANCES ON: SAN 10/27/89
COLOR DESIGNATOR ANSI 61 GRAY A BEIGE B 55. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO THE UNIPOWER VERTICAL BUS BAR SYSTEMS. FOR OTHER SYSTEMS, HOLES ARE PROVIDED FOR BOLTING LUGGED CABLES. INPUT LUGS ARE NOT PROVIDED, BUT MAY BE ORDERED SEPARATELY PER ED 991-0002-00.		HOLES +0.004 CHECKED FRACTIONS ±1/32 APPROVED DECIMALS (XX) ±0.020 DECIMALS (XX) DECIMALS (XX) ±0.010 APPROVED ANGLES ±1/2* SQUARE CORNERS AND ANGLES ARE 90° UNLESS OTHERWISE SPECIFIED. WORKMANSHIP: PER SPEC ENG032 C MATERIAL: FINISH: PROPRIETARY INFORMATION
SHEET INDEX NOTE: THE ISSUE OF SHEET 1 REFLECTS THE LATEST ISSUE OF THE DRAWING SET. WHEN THE DRAWING SET IS REVISED, ONLY THE ISSUE NUMBERS OF MODIFIED SHEETS ARE CHANGED. THE ISSUE NUMBERS OF UNMODIFIED SHEETS ARE NOT CHANGED.	SHEET INDEX SH NO 1 2 3 ISSUE 6 5 2	NOT TO BE COPIED, USED, TRANSMITTED, OR DISCLOSED WITHOUT PRIOR WRITTEN PERMISSION FROM UNIPOWER, LLC. Image: Comparison of the

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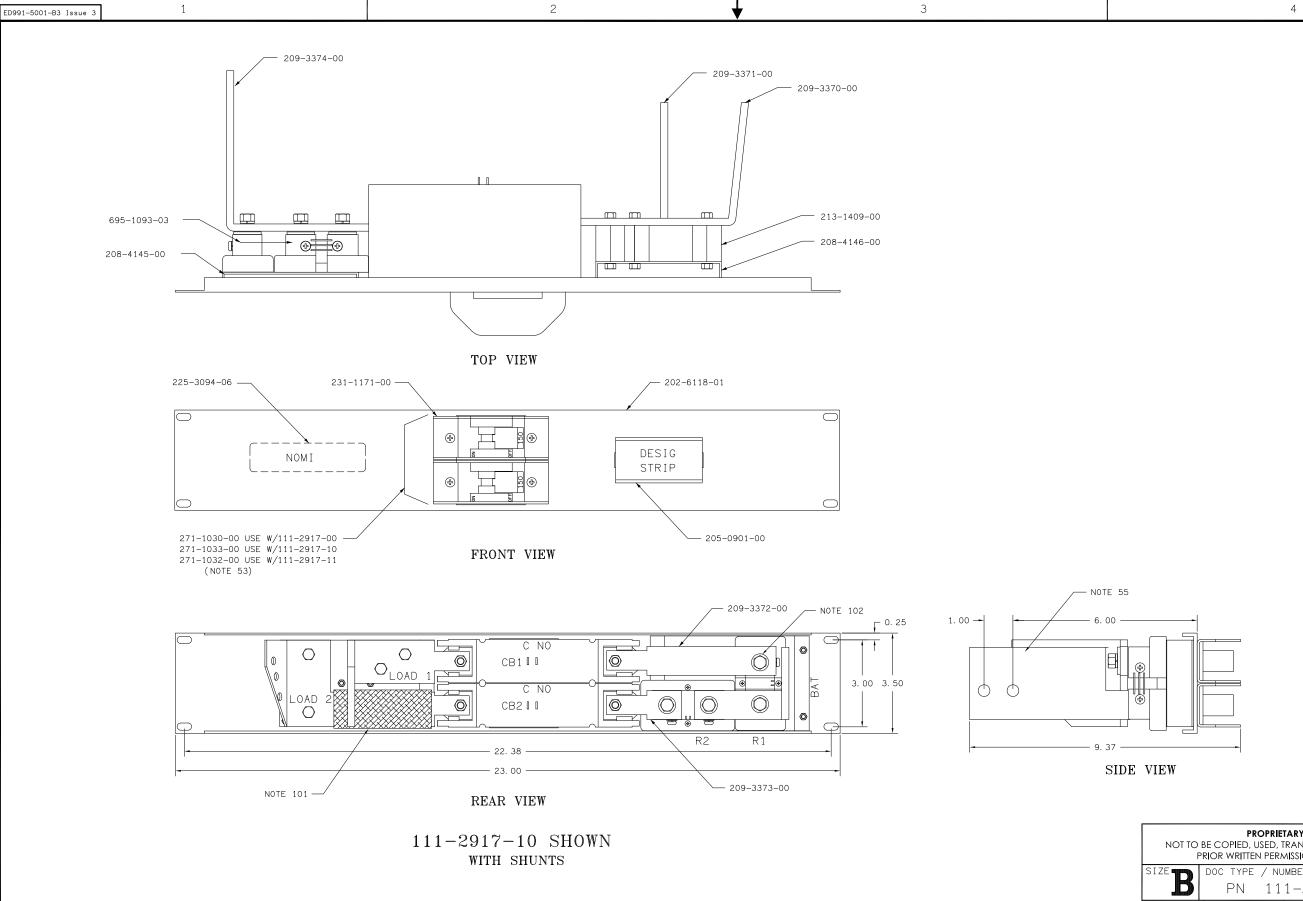
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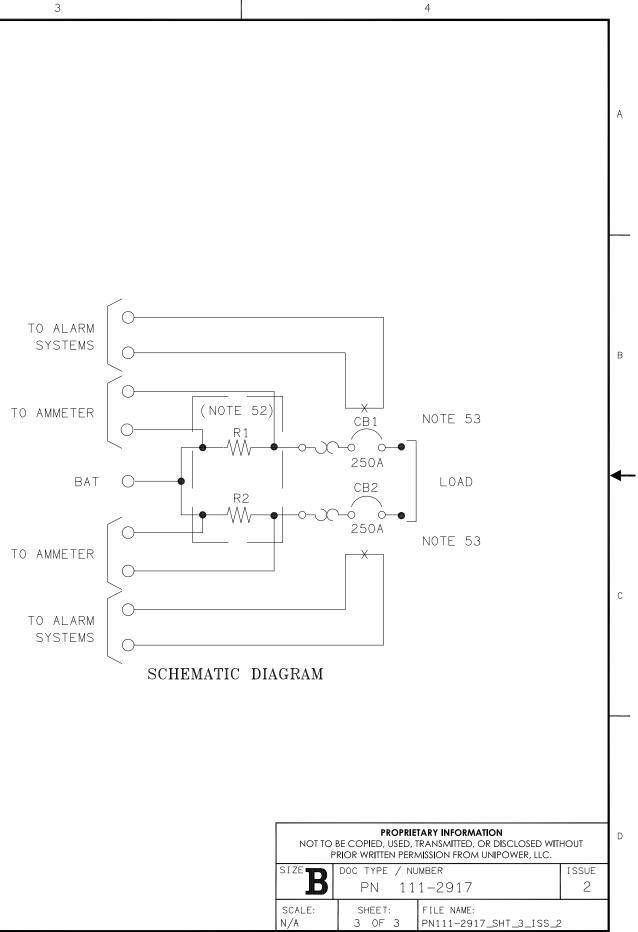
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STOCK LIST

			QUAN	VIIIV
LINE #	DESCRIPTION	PART NUMBERS	-10	-11
1	CIRCUIT BREAKER PANEL E/W 2-GJI W/ SHUNTS	202-6118-01	1	1
	COVER: PROTECTIVE COVER FOR GJI BREAKER	202-6141-01	2	2
	MULTI ROW DESIGNATION STRIP	205-0901-007	1	1
	BRACKET: GJI INPUT BRACKET FOR SHUNT	208-4145-00	1	1
5	BRACKET: GJI OUTPUT BRACKET	208-4146-00	1	1
	BUS BAR: GJI ANGLED OUTPUT BUS, LONG	209-3370-00	1	1
	BUS BAR: GJI ANGLED OUTPUT BUS, SHORT	209-3371-00	1	1
	BUS BAR: SHUNT TO GJI BREAKER, LONG	209-3372-00	1	1
	BUS BAR: SHUNT TO GJI BREAKER, SHORT	209-3373-00	1	1
10	BUS BAR: GJI INPUT BUS	209-3374-00	1	1
	SCREW: SS, HEX HEAD. 1/4-20 X 1"	210-1282-00	4	4
	SCREW: STL, SEMS, P/HD PHIL, 8-32 X 5/8"	210-1580-01	4	4
	SCREW: STL, HEX HEAD, 1/4–20 X 3/8"	210-7003-00	4	4
	SCREW: STL, SEMS, HEX HEAD, 1/4-20 X 5/8"	210-7004-40	4	4
15	BOLT, HEX, SIL, BRONZE: 3/8–16 X 3/4"	210-8128-00	4	4
	NUT, HEX STL: 8–32, ZINC, KEPS	211-0485-00	12	12
	NUT, HEX SS: 1/4-20	211-0531-00	4	4
	LOCKWASHER, SHKPF: 1/4 INTERNAL	212-0500-00	4	4
	LOCKWASHER: DISH, STL, SHKPF, #8	212-0503-00	2	2
20	WASHER, FLAT BRASS, 3/8"	212-2035-00	4	4
	WASHER, FLAT SS: 1/4"	212-2516-00	8	8
	WASHER, BELLEVILLE, SS: 1/4 X .500"	212-5754-00	8	8
	SPACER: HEATSINK, HEX FIBERGLASS, 1" GLASTIC	213-1409-00	4	4
	CB1P: 250A, 125VDC, ALARM SWITCH, GJI	271-1033-00	2	
25	CB1P: 250A, AUX SWITCH, GJI-H2-U-250-125-2	271-1032-00		2
	RES, SHUNT: METER, 600A 50MV	695-1093-03	2	2



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51. AMMETER SHUNTS ARE NORMALLY 600 AMPS, 50M HOWEVER, OTHER CURRENT RATINGS MAY BE SPEC		$\left \right $			+	- A
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BUT MAY BE ORDERED SEPERATELY PER DRAWING ED991-0002-00.	103. REPLACE BOLTS SUPPLIED WITH SHUNT WITH P/N 210-8128-00, AS SHOWN. USE WASHERS SUPPLIED WITH SHUNT.					
53. UNIPOWER'S STANDARD PAINT IS ANSI 61 GRAY.						
54. PANELS NOT EQUIPPPED WITH A SHUNT, DO NOT I SEE TABLE A.	CLUDE R1.					
 55. AN ALARM SIGNAL MAY BE EXTENDED TO AN EXTERNATION SYSTEM. DURING AN ALARM, A CLOSURE TO BATTINT IS PROVIDED ON THE APPROPRIATE ALARM TERMINT 1) NEGATIVE GRD SYSTEMS, FA+OUT. 2) POSITIVE GRD SYSTEMS, FA-OUT. 	Y					в
56. AN ALARM IS ACTIVATED ONLY BY ELECTRICAL TRI A BREAKER IN PANELS EQUIPPED WITH AN ALARM (REFER TO TABLE A).						
57. AN ALARM IS ACTIVATED BY EITHER ELECTRICAL O		SPEC	iless otherwise Cified Dimensions Are in inches	APPROVALS DRAWN	DATE	┨┫
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		ANGLES	±1/2*			
		SQUARE CO		90° UNLESS OTHERWISE SPECIFIED.		┨.
	TABLE A	PER SPE	EC ENG032			- C
VOLTA	PANEL SHUNT RTG. & P/N CIRCUIT BRKR & P/N ALARM TYPE RATING NOTES		_			
+24	111-3762-00 N/A 600A, 160VDC ALARM STD 54,55,56 111-3762-10 600A, 595-1093-03 600A, 160VDC ALARM STD 51,55,56	FINISH:				1
OR	111-3762-20 N/A (1) 2/1-1044-00 Smitch STD 54,55,56		PROPRIET	ARY INFORMATION		1
-48	111-3762-01 N/A 600A, 160VDC AUXILARY STD 54,55,57 111-3762-11 600A 695-1093-03 (1) 271-1043-00 SWITCH STD 51,55,57	NOT TO		RANSMITTED, OR DISCLOSED WI IISSION FROM UNIPOWER, LLC.	HOUT	
SHEET INDEX NOTE:	111-3762-11 600A 695-1093-03 (1) 271-1043-00 SWITCH STD 51,55,57 111-3762-21 N/A III STD 54,55,57					1
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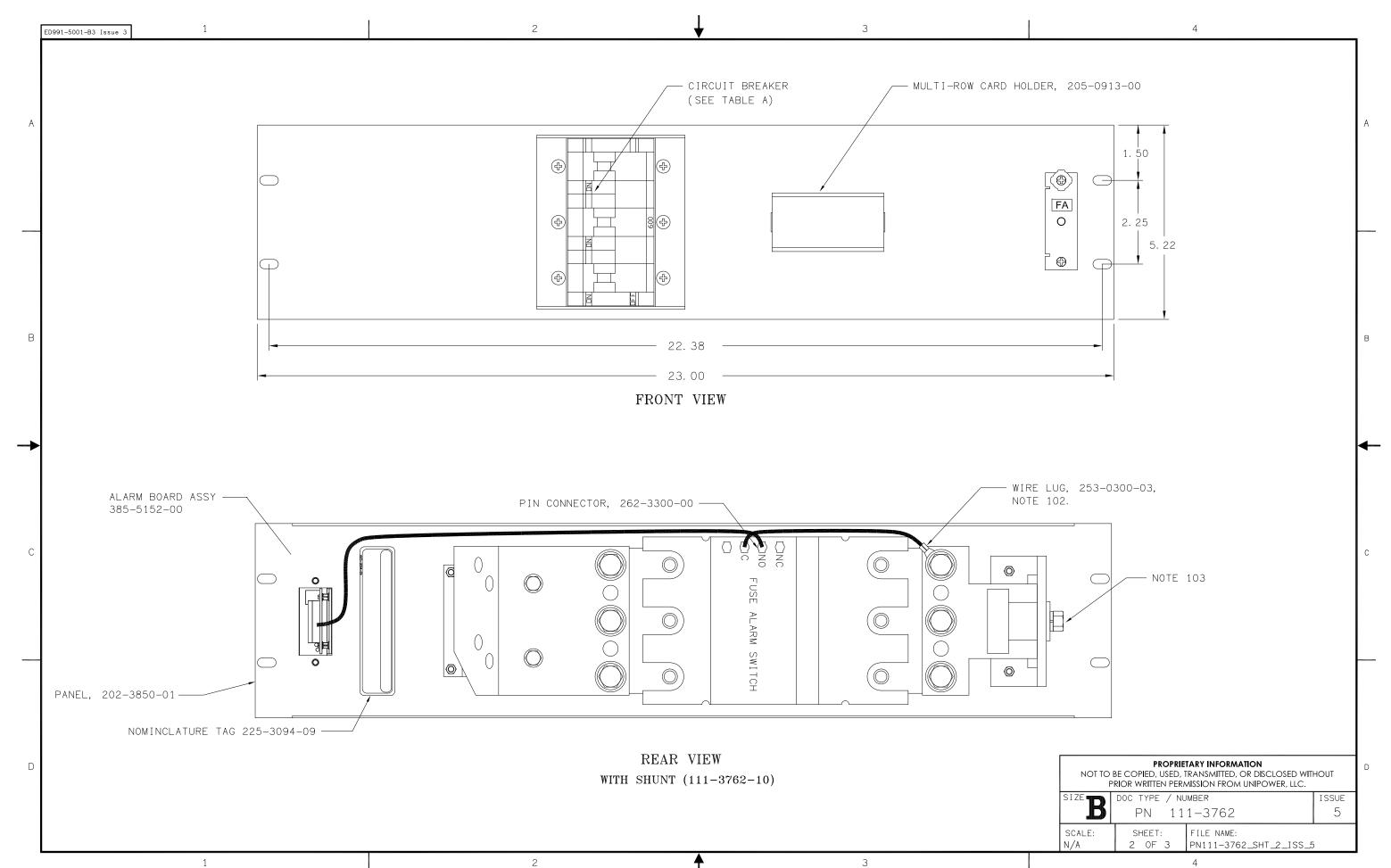
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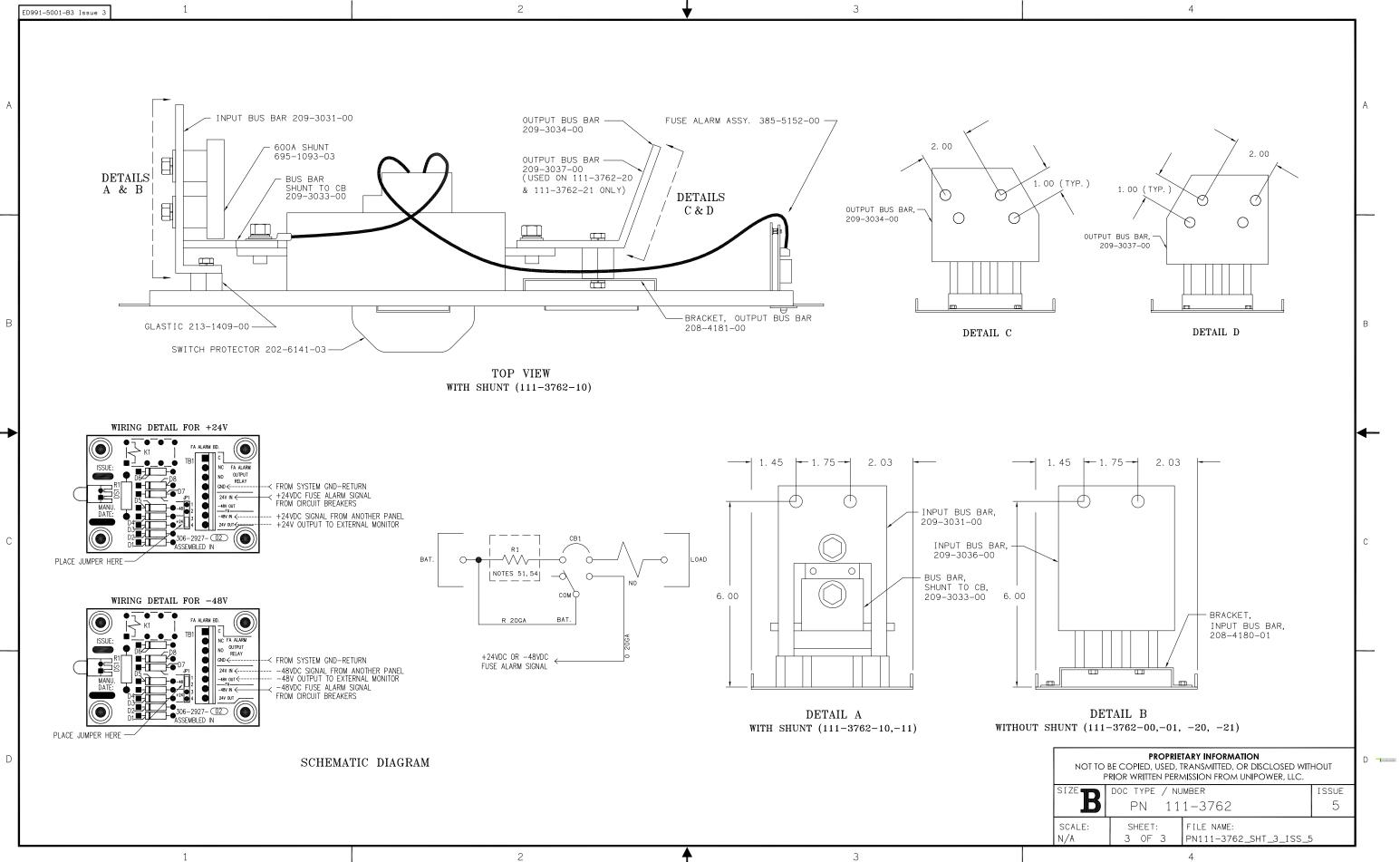
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ENGINEERING NOTES:

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- 51. AMMETER SHUNTS ARE NORMALLY 600 AMPS, 50MV. HOWEVER, OTHER CURRENT RATINGS MAY BE SPECIFIED.
- 52. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO UNIPOWER VERTICAL BUS BAR SYSTEMS. FOR OTHER SYSTEMS, HOLES ARE PROVIDED FOR BOLT-ING LUGGED CABLES. INPUT LUGS ARE NOT PROVIDED. BUT MAY BE ORDERED SEPERATELY PER DRAWING ED991-0002-00.
- 53. UNIPOWER'S STANDARD PAINT IS ANSI 61 GRAY.
- 54. PANELS NOT EQUIPPPED WITH A SHUNT, DO NOT INCLUDE R1. SEE TABLE A.
- 55. AN ALARM SIGNAL MAY BE EXTENDED TO AN EXTERNAL ALARM SYSTEM. DURING AN ALARM, A CLOSURE TO BATTERY IS PROVIDED ON THE APPROPRIATE ALARM TERMINAL: 1) NEGATIVE GRD SYSTEMS, FA+OUT. 2) POSITIVE GRD SYSTEMS, FA-OUT.
- 56. AN ALARM IS ACTIVATED ONLY BY ELECTRICAL TRIPPING OF A BREAKER IN PANELS EQUIPPED WITH AN ALARM SWITCH, (REFER TO TABLE A).
- 57. AN ALARM IS ACTIVATED BY EITHER ELECTRICAL OR MECHANICAL TRIPPING OF A BREAKER IN PANELS EQUIPPED WITH AN AUXILARY SWITCH, (REFER TO TABLE A).

TABLE A

VOLTAGE	PANEL	SHUNT RTG. & P/N	CIRCUIT BRKR & P/N	ALARM TYPE	RATING	NOTES
	111-3763-00	N/A	400A, 160VDC	ALARM	STD	54,55,56
+24	111-3763-10	400A 695-1091-03	(1) 271–1040–01	SWITCH	STD	51,55,56
-48	111-3763-01	N/A	400A, 160VDC	AUXILARY	STD	54,55,57
	111-3763-11	400A 695-1091-03	(1) 271–1040–00	SWITCH	STD	51,55,57

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SHEET INDEX NOTE:

THE ISSUE OF SHEET **R**EFLECTS THE LATEST ISSUE OF THE DRAWING SET. WHEN THE DRAWING SET IS REVISED, ONLY THE ISSUE NUMBERS OF MODIFIED SHEETS ARE CHANGED. THE ISSUE NUMBERS OF UNMODIFIED SHEETS ARE NOT CHANGED.

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MANUFACTURIN

101. ANTI-OXIDATION COATI LAMINATED COPPER B 81Rh WILL BE APPLIED MANUFACTURER'S INS

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- 102. MOUNT WIRE LUG BET
- 103. REPLACE BOLTS SUPP AS SHOWN. USE WASH

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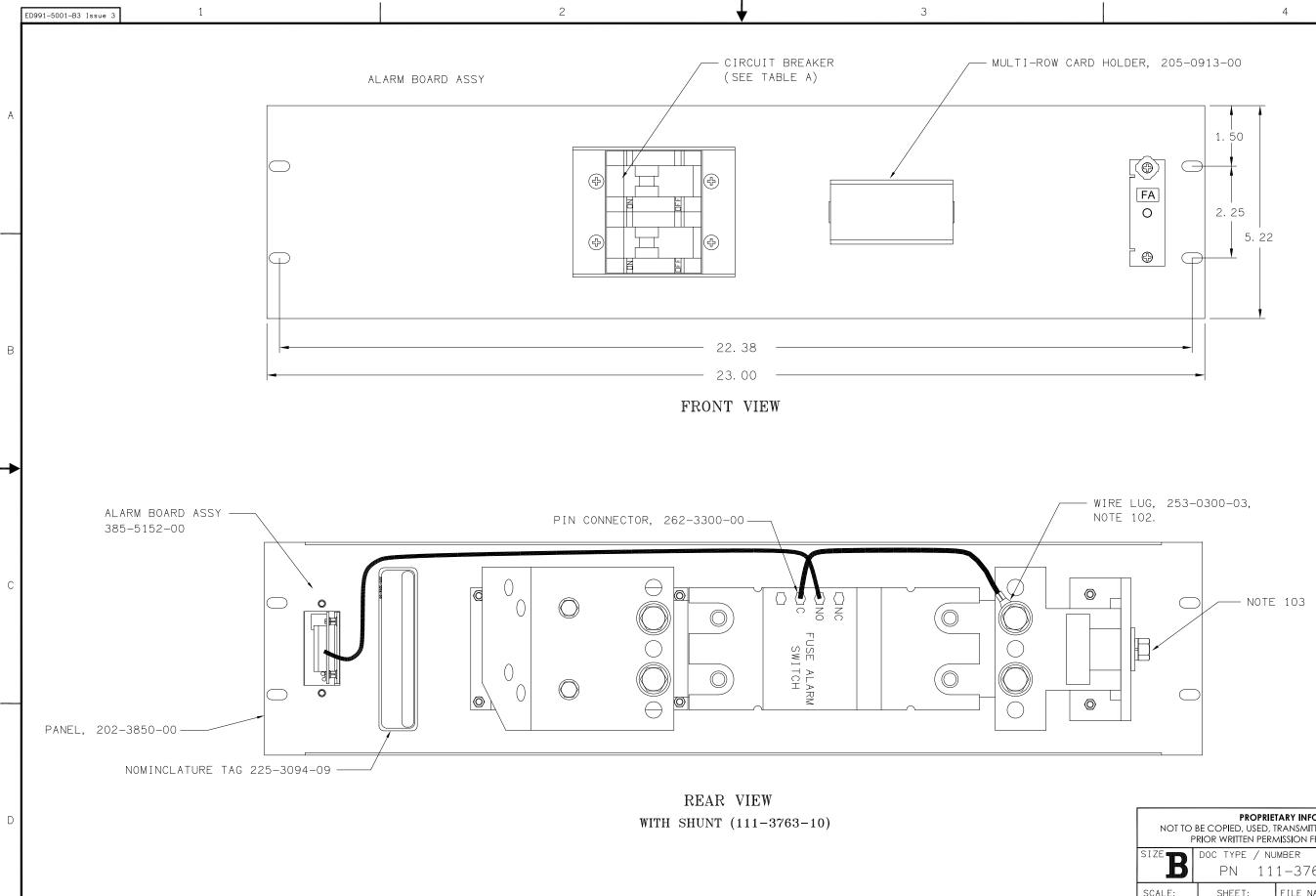
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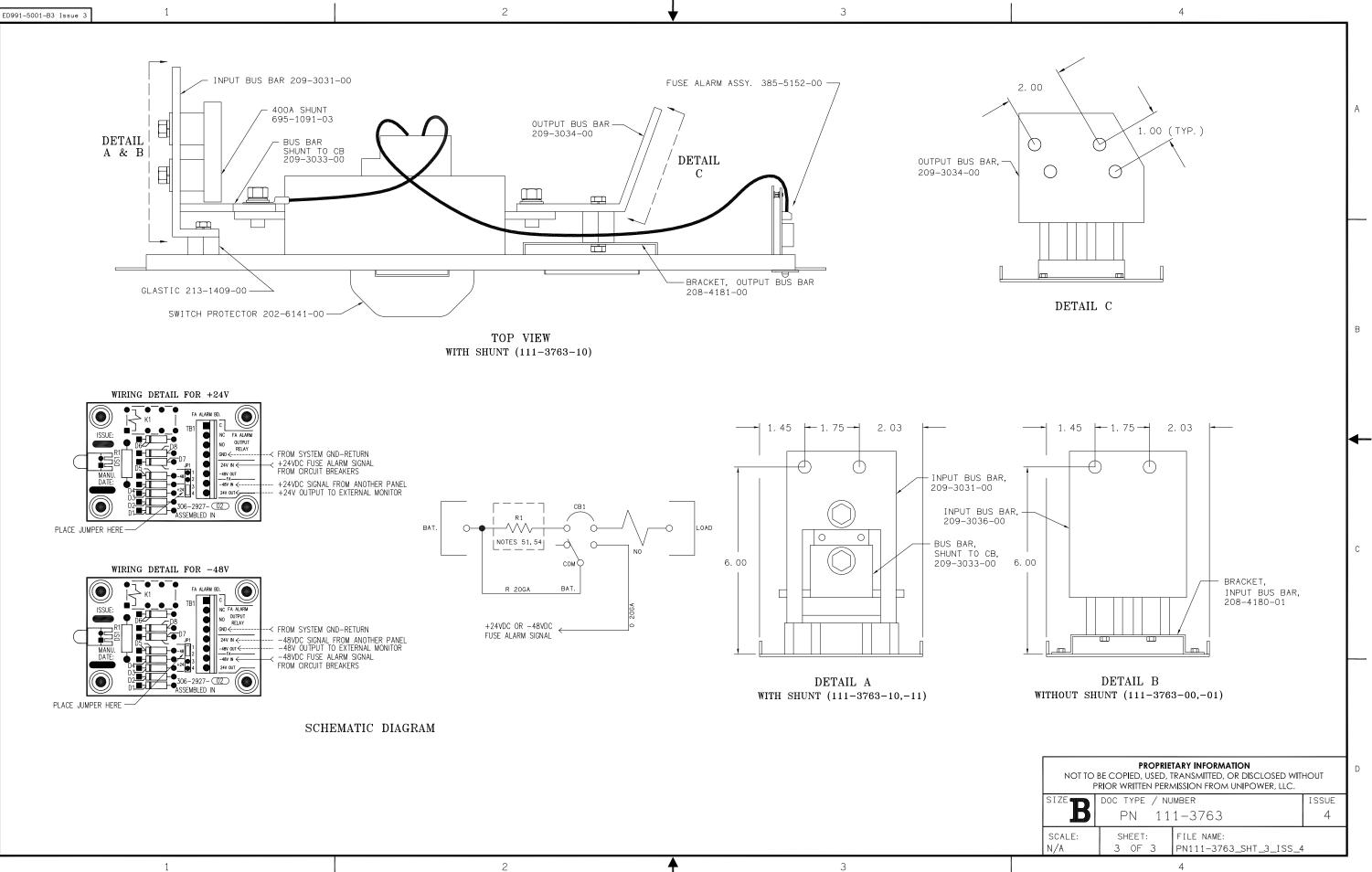
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ENGINEERING NOTES:

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- 51. NORMAL SHUNT RATINGS ARE DETERMINED BY TABLE "A". HOWEVER, OTHER CURRENT RATINGS MAY BE SPECIFIED.
 - 52. THE INPUT COPPER BAR IS DESIGNED FOR DIRECT CONNECTION TO UNIPOWER VERTICAL BUS BAR SYSTEMS. FOR OTHER SYSTEMS, HOLES ARE PROVIDED FOR BOLT-ING LUGGED CABLES. INPUT LUGS ARE NOT PROVIDED, BUT MAY BE ORDERED SEPARTELY.
- 53. UNIPOWER'S STANDARD PAINT IS ANSI 61 GRAY.
- 54. PANELS NOT EQUIPPED WITH A SHUNT, (TABLE A), DO NOT INCLUDE R1 OR R2.

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MANUFACTURING NOTES:

- 101. A COMPOUND SUCH AS CRAMOLIN 81Rh WILL BE APPLIED TO ALL JOINTED FLAT CONDUCTIVE SURFACES PER THE MANUFACTURER'S INSTRUCTIONS.
- 102. MOUNT WIRE LUG BETWEEN BUS BAR AND LARGE MOUNTING WASHER.

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- 103. REPLACE BOLTS SUPPLIED WITH SHUNT WITH 3/8" x 16 x 3/4" BOLTS, (210-8128-00). USE WASHERS SUPPLIED WITH SHUNT.
- 104. ALL WIRES ARE 20 GA UNLESS OTHERWISE NOTED.

TABLE A

REF. RTG.	PANEL	E/W SHUNT	SHUNT RTG. & P/N	RATING	CIRCUIT BRKR & P/N
100A	111-3764-00	NO	N/A	STD	100A, 125VDC
TUUA	111-3764-10	YES	200A 695-1080-03	STD	(2) 271–1011–00
125A	111-3764-05	NO	N/A	SPL	125A, 125VDC
TZSA	111-3764-15	YES	200A 695-1080-03	SPL	(2) 271–1016–00
	111-3764-01	NO	N/A	STD	
150A	111-3764-11	YES	200A 695-1080-03	STD	150A, 125VDC
	111-3764-21	YES	600A 695-1093-03	STD	(2) 271-1018-00
175 4	111-3764-02	NO	N/A	STD	175A, 125VDC
175A	111-3764-12	YES	200A 695-1080-03	STD	(2) 271–1025–00
200A	111-3764-06	NO	N/A	STD	200A, 125VDC
200A	111-3764-16	YES	600A 695-1093-03	STD	(2) 271–1023–10
225 4	111-3764-03	NO	N/A	STD	225A, 125VDC
225A	111-3764-13	YES	600A 695-1093-03	STD	(2) 271–1026–01
250A	111-3764-04	NO	N/A	STD	250A, 125VDC
250A	111-3764-14	YES	600A 695-1093-03	STD	(2) 271–1033–00

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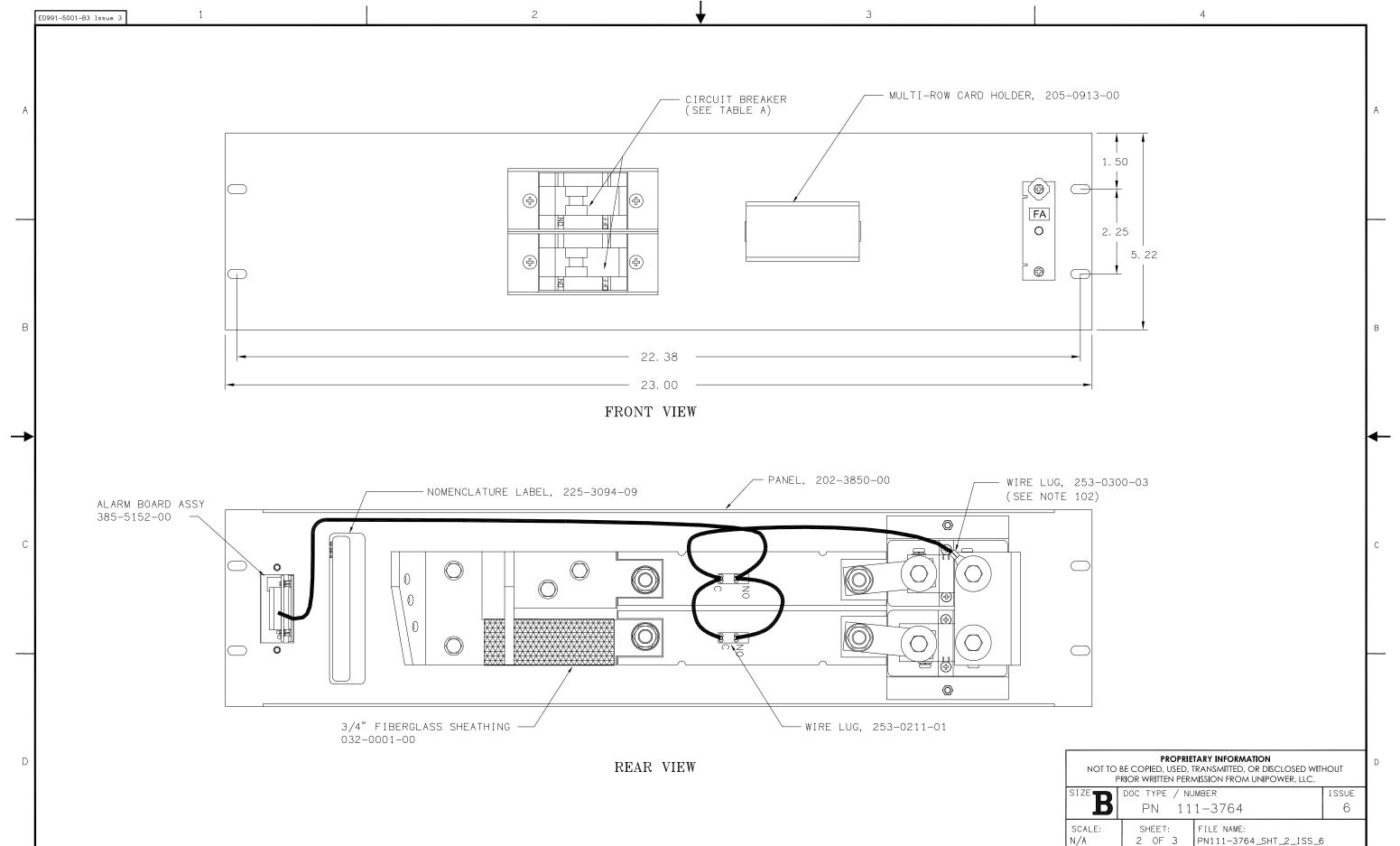
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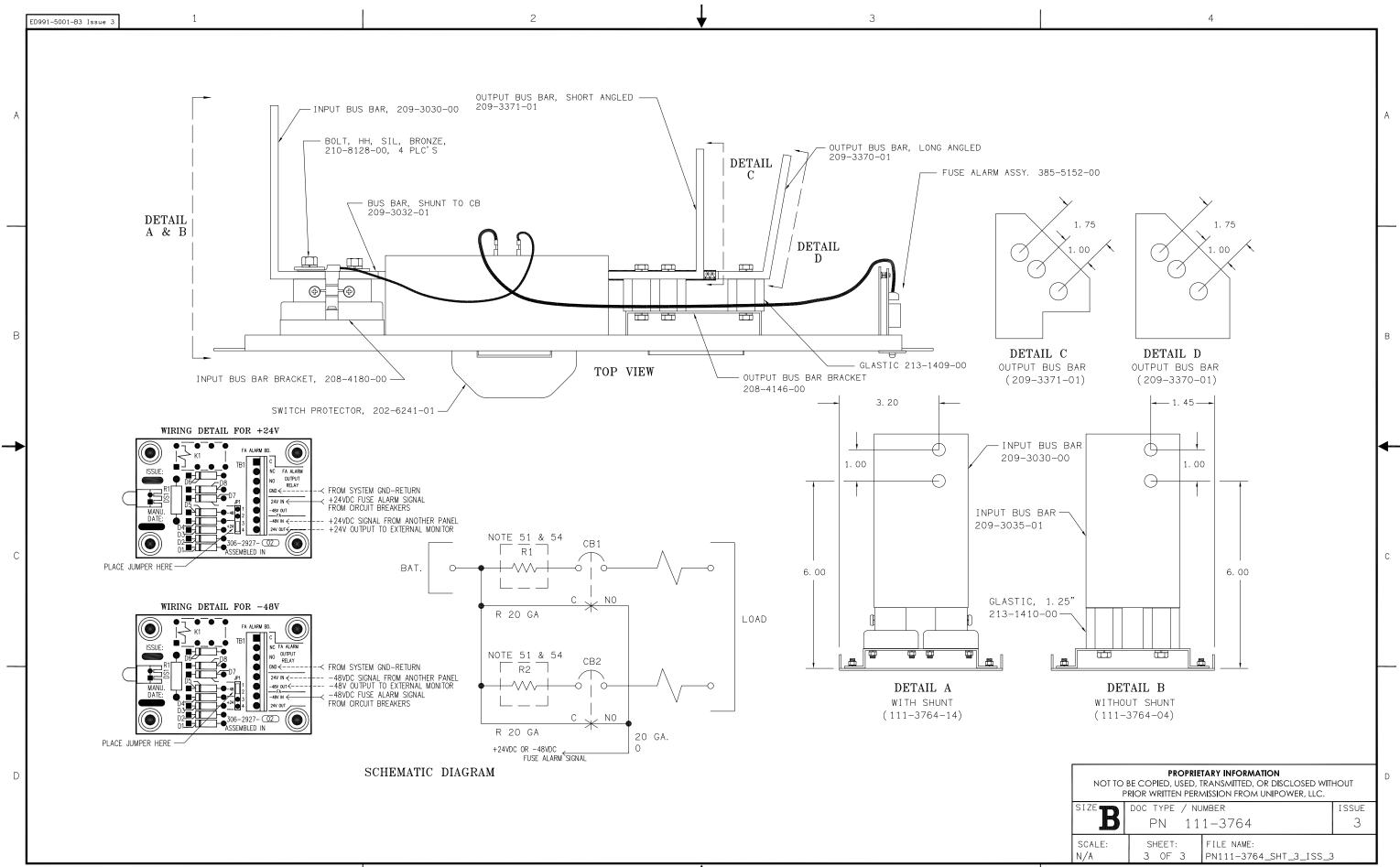
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DECIMALS (xxx) ±0.010	_	APPROVED	<u> </u>	, , , , ,	
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C A	IRCUIT BE	RE A	, GJ1, HEINEMA Aker Panel W H & Fuse Ala	ITH	1	D
size B	doc type , PN		мвеr — 3764		ISSUE 11	
SCALE: N/A	SHEET: 1 OF	3	FILE NAME: PN111-3764_SHT_1_IS	S 11		
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D991-5001-B1	Issue	3	

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ENGINEERING NOTES:

51. AMMETER SHUNTS ARE NORMALLY 600 AMPS, 50MV. HOWEVER, OTHER CURRENT RATINGS MAY BE SPECIFIED. PANELS NOT SPECIFIED WITH A SHUNT (TABLE "A") DO NOT INCLUDE R1.

1

- 52. THIS PANEL WILL ACCOMMODATE A MAXIMUM OF 24 5–100 AMP CIRCUIT BREAKERS OR 4, 125 AMP CIRCUIT BREAKERS. TOTAL PANEL AMPERAGE MUST NOT EXCEED 500 AMPS. ORDER CIRCUIT BREAKERS PER ED991–0009–00.
- 53. UNIPOWER'S STANDARD PAINT IS ANSI 61 GRAY.
- 54. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO UNIPOWER VERTICAL BUS BAR SYSTEMS. FOR OTHER SYSTEMS, HOLES ARE PROVIDED FOR BOLT-ING LUGGED CABLES.
- 55. TO COVER OPEN CIRCUIT BREAKER POSITIONS, ORDER BLANK COVERS, 213.3923.00, PER CIRCUIT BREAKER POSITION.
- 56. BUBBLE REFERENCE DESIGNATORS REFER TO CALLOUT TABLE LINE NUMBER.
- 57. PROVIDE ADEQUATE SPACE ABOVE THE CIRCUIT BREAKER PANEL FOR TURNING DISTRIBUTION CABLES. USE OF A ONE SPACE BLANK PANEL IS HIGHLY RECOMMENDED. ORDER BLANK 202–3245–00.

MANUFACTURING NOTES:

2

101. ANTI-OXIDATION COATING WILL BE APPLIED BETWEEN ALL LAYERS OF LAMINATED COPPER BUS STRUCTURE. A COMPOUND SUCH AS CRAMOLIN 81Rh WILL BE APPLIED TO ALL JOINTED FLAT SURFACES PER MANUFACTURER'S INSTRUCTIONS.

3

- 102. MOUNT WIRE LUG BETWEEN BUS BAR AND 1/4" FLAT WASHER.
- 103. THE REMAINING EXCESS OF ALARM WIRE MUST BE WOUND UP AND TIED TO THE BUS BAR WITH A TIE WRAP. THIS WIRE WILL BE USED FOR ADDITIONAL CIRCUIT BREAKERS.
- 104. WHEN CONNECTING ADDITIONAL CIRCUIT BREAKERS, THE ALARM CONNECTION FROM THE BREAKER (NO) TO THE FA SIGNAL "IN" IS COMPLETED BY DAISY CHAINING EACH CIRCUIT BREAKER WITH PUSH-ON.
- 105. THE ALARM WIRE LENGTH IS 52" LONG TO ALLOW FOR 24 CIRCUIT BREAKERS. (WHEN CIRCUIT BREAKERS ARE ADDED, A 2" LENGTH MUST BE CUT FROM THE REMAINING WIRE FOR EACH BREAKER. THIS 2" LENGTH MUST THEN BE JOINED WITH THE REMAINING ALARM WIRE BY A CRIMP TYPE PUSH-ON.) IF CRIMPING TOOLS ARE NOT AVAILABLE, THE PUSH-ON MAY BE SOLDERED.
- 106. LUGS AND PUSH-ONS ARE USED FOR CONNECTING EACH ALARM CONTACT (C) OF THE CIRCUIT BREAKER TO THE BUS BAR. EACH CONNECTION FROM THE ALARM CONTACT TO THE BUS BAR IS COMPLETED SEPARATELY.
- 107. WHEN A SHUNT IS REQUIRED, REPLACE ITS' BOLTS AS SHOWN IN DETAIL B. USE BRASS WASHERS SUPPLIED WITH THE SHUNT.

TABLE A					
PANEL	E/W SHUNT				
111-3765-00	NO				
111-3765-10	YES				

2

SHEET INDEX NOTE:

THE ISSUE OF SHEET REFLECTS THE LATEST ISSUE OF THE DRAWING SET. WHEN THE DRAWING SET IS REVISED, ONLY THE ISSUE NUMBERS OF MODIFIED SHEETS ARE CHANGED. THE ISSUE NUMBERS OF UNMODIFIED SHEETS ARE NOT CHANGED.

1

SHEET INDEX							
SH NO	1	2	3				
ISSUE	9	7	7				

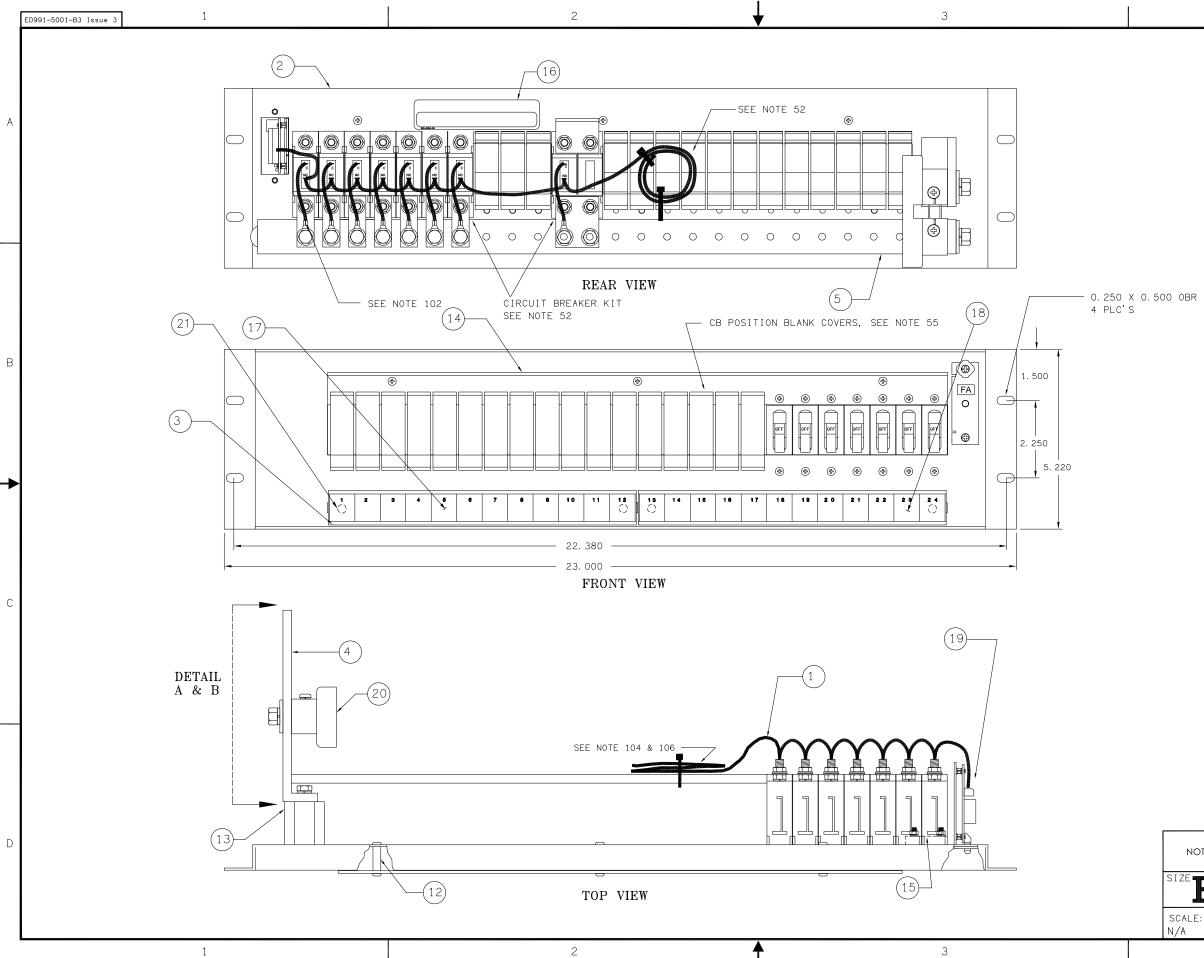
		ISSUES		
ISSUE	DESCRIPTION			ISS. BY
#				ISS. DATE
9	SEE PCO# 44479			WD 7/11/17
S	INLESS OTHERWISE FECIFIED DIMENSIONS	APPROVALS		DATE
±	ARE IN INCHES TOLERANCES ON:	DRAWN MWY	10	/30/89
HOLES	+0.004 -0.002	CHECKED		/2/90
FRACTIO		APPROVED	2	/2/90
DECIMAL		MCM	2	/5/04
		APPROVED		
ANGLES	$\pm 1/2^{\circ}$	0° UNLESS OTHERWISE SPECIFIED.		
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	PEC ENG032			
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		IPOW RING TECHNO		

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24V/NEG GND & -48V/POS GND AM1 5-125 AMP, CKT BKR PNL W/ALM SWITCH & FUSE ALARM				
	TYPE / NUI	MBER	ISSUE	
<u> </u>	PN 111-3765 9			
SCALE: SHEET: FILE NAME: I/A 1 OF 3 PN111-3765_SHT_1_ISS_9				



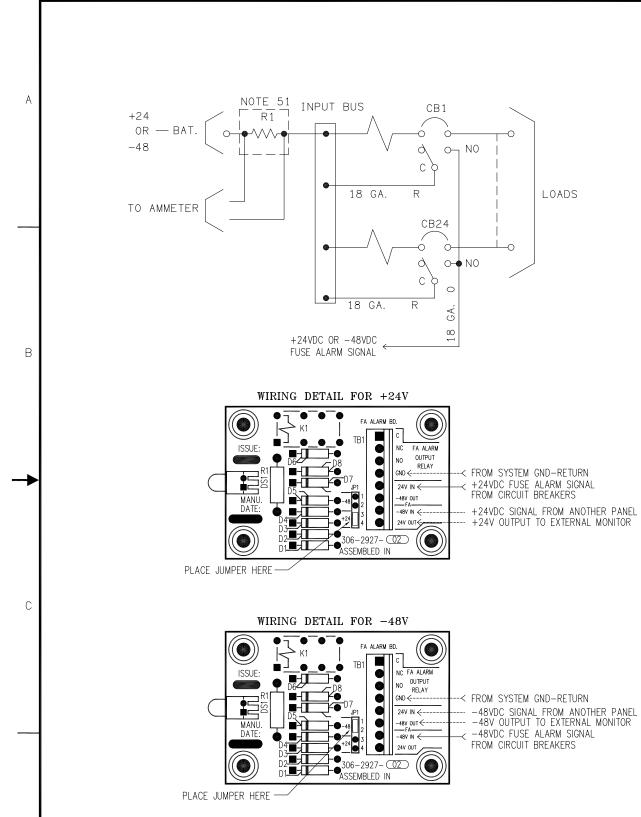
PROPRIETARY INFORMATION NOT TO BE COPIED, USED, TRANSMITTED, OR DISCLOSED WITHOUT PRIOR WRITTEN PERMISSION FROM UNIPOWER, LLC.				
SIZE B	DOC TYPE / NU PN 11	issue 7		
SCALE: N/A	SHEET: 2 OF 3	FILE NAME: PN111-3765_SHT_2_ISS_7	7	

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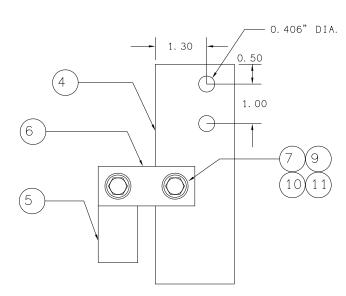
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DETAIL Α WITHOUT SHUNT 111-3765-00

CALLOUT TABLE

4

20

			QUAN	ITITY
LINE #	DESCRIPTION	PART NUMBERS	-00	-10
1	CUT WIRE: 18 GAUGE ORANGE	051-1833-52	1	1
	PANEL: CIRCUIT BREAKER AM1 POS GRD	202-3851-00	1	1
	CARD HOLDER: 1" X 9" AM1 CKT BKR PNL	208-2990-007	2	2
	BUS BAR: CKT BKR PNL AM1, INPUT, POS GRD	209-3040-00	1	1
5	BUS BAR: CKT BKR PNL AM1, SHUNT TO CB	209-3041-00	1	1
	COMB DIST PNL: BUS, SHUNT BYPASS, 200/400A	209-4245-01	2	
	SCREW: SS, HEX HD, 3/8-16 X 1 1/4"	210-1293-00	2	
	BOLT, HEX, SIL, BRONZE: 3/8-16 X 3/4"	210-8128-00		2
	NUT, HEX SS: 3/8-16	211-0533-00	2	
10	WASHER, FLAT SS: 5/16" X 3/4" X .125"	212-2518-00	4	
	WASHER, BELLEVILLE, SS: 1/2" X .900"	212-5758-00	2	
	STANDOFF: SWIVEL, F/F, 6-32 X 3/4 X 1/4 OD	213-1317-00	3	3
	SPACER: HEATSINK, HEX FIBERGLASS, 1.25"GLASTIC	213-1410-00	1	1
	SHIELD: AM1 CKT BKR PANEL, COVER	213-3200-00	1	1
15	INSULATOR: CKT BKR AM1, BUS SUPPORT	213-3635-00	1	1
	LABEL: NOMENCLATURE: GENERAL MISC, 0.9"	225-3094-09	1	1
	LABEL: 1"X 9"1–12, FOR AM1 CKT BKR PNL	225-3107-01	1	1
	LABEL: 1"X 9"13-24, FOR AM1 CKT BKR PNL	225-3108-01	1	1
	ASSY: ALARM BOARD, BKT, LABEL, FOR FA	385-5152-00	1	1
20	RES, SHUNT: METER, 600A 50MV	695-1093-03		1
	SCREW: ROLL/THD, 10 - 24 X 3/8	210-6200-00	4	4
25				

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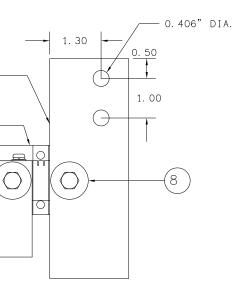
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DETAIL В WITH SHUNT 111-3765-10

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SIZE B	DOC TYPE / NUMBER ISSU PN 111-3765		
scale: N/A	SHEET: 3 OF 3	FILE NAME: PN111-3765_SHT_3_ISS_7	

ED991-5001-B1 Issue 3

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ENGINEERING NOTES:

1

- 51. AMMETER SHUNTS ARE NORMALLY 600 AMPS, 50MV. HOWEVER, OTHER CURRENT RATINGS MAY BE SPECIFIED. PANELS NOT SPECIFIED WITH A SHUNT (TABLE "A") DO NOT INCLUDE R1.
- 52. THIS PANEL WILL ACCOMMODATE A MAXIMUM OF 24 5–100 AMP CIRCUIT BREAKERS. TOTAL PANEL AMPERAGE MUST NOT EXCEED 500 AMPS. ORDER CIRCUIT BREAKERS PER ED991–0009–00.
- 53. UNIPOWER'S STANDARD PAINT IS ANSI 61 GRAY.
- 54. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO UNIPOWER VERTICAL BUS BAR SYSTEMS. FOR OTHER SYSTEMS, HOLES ARE PROVIDED FOR BOLT-ING LUGGED CABLES.
- 55. TO COVER OPEN CIRCUIT BREAKER POSITIONS, ORDER BLANK COVERS, 213.3923.00, PER CIRCUIT BREAKER POSITION.
- 56. BUBBLE REFERENCE DESIGNATORS REFER TO CALLOUT TABLE LINE NUMBER.
- 57. PROVIDE ADEQUATE SPACE ABOVE THE CIRCUIT BREAKER PANEL FOR TURNING DISTRIBUTION CABLES. USE OF A ONE SPACE BLANK PANEL IS HIGHLY RECOMMENDED. ORDER BLANK 202–3245–00.

MANUFACTURING NOTES:

101. ANTI-OXIDATION COATING WILL BE APPLIED BETWEEN ALL LAYERS OF LAMINATED COPPER BUS STRUCTURE. A COMPOUND SUCH AS CRAMOLIN 81Rh WILL BE APPLIED TO ALL JOINTED FLAT SURFACES PER MANUFACTURER'S INSTRUCTIONS.

3

- 102. MOUNT WIRE LUG BETWEEN BUS BAR AND 1/4" FLAT WASHER.
- 103. THE REMAINING EXCESS OF ALARM WIRE MUST BE WOUND UP AND TIED TO THE BUS BAR WITH A TIE WRAP. THIS WIRE WILL BE USED FOR ADDITIONAL CIRCUIT BREAKERS.
- 104. WHEN CONNECTING ADDITIONAL CIRCUIT BREAKERS, THE ALARM CONNECTION FROM THE BREAKER (NO) TO THE FA SIGNAL "IN" IS COMPLETED BY DAISY CHAINING EACH CIRCUIT BREAKER WITH PUSH-ON.
- 105. THE ALARM WIRE LENGTH IS 52" LONG TO ALLOW FOR 24 CIRCUIT BREAKERS. (WHEN CIRCUIT BREAKERS ARE ADDED, A 2" LENGTH MUST BE CUT FROM THE REMAINING WIRE FOR EACH BREAKER. THIS 2" LENGTH MUST THEN BE JOINED WITH THE REMAINING ALARM WIRE BY A CRIMP TYPE PUSH-ON.) IF CRIMPING TOOLS ARE NOT AVAILABLE, THE PUSH-ON MAY BE SOLDERED.
- 106. LUGS AND PUSH-ONS ARE USED FOR CONNECTING EACH ALARM CONTACT (C) OF THE CIRCUIT BREAKER TO THE BUS BAR. EACH CONNECTION FROM THE ALARM CONTACT TO THE BUS BAR IS COMPLETED SEPARATELY.
- 107. WHEN A SHUNT IS REQUIRED, REPLACE ITS' BOLTS AS SHOWN IN DETAIL B. USE BRASS WASHERS SUPPLIED WITH THE SHUNT.

TABLE A				
PANEL	E/W SHUNT			
111-3766-00	NO			
111-3766-10	YES			

		ISSUES	
ISSUE #	DESCRIPTION		ISS. BY ISS. DATE
9	SEE PCO# 44479		WD 7/11/17
	NLESS OTHERWISE ECIFIED DIMENSIONS	APPROVALS	DATE
±	CIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON:	DRAWN MWY	10/30/89
HOLES	+0.004 -0.002	CHECKED SS	2/2/99
FRACTION		APPROVED	2/19/04
DECIMALS	(XXX) ±0.010	APPROVED	
ANGLES	$\pm 1/2^{\circ}$	RE 90° UNLESS OTHERWISE SPECIFIED.	1
WORKM	ANSHIP: EC ENG032		
MATERIA			
NOT	TO BE COPIED, USEE	RIETARY INFORMATION), TRANSMITTED, OR DISCLOSED ERMISSION FROM UNIPOWER, LL	
	U U	NIPOW VERING TECHN	
A	M1 5-100	POS 24V/48V PL AMP, CKT BKR	PNL
	DOC TYPE	TCH & FUSE ALA	
	יייי'' ייין ע		13302

PN 111-3766

FILE NAME:

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1 OF 3 PN111-3766_SHT_1_ISS_9

SHEET:

SCALE:

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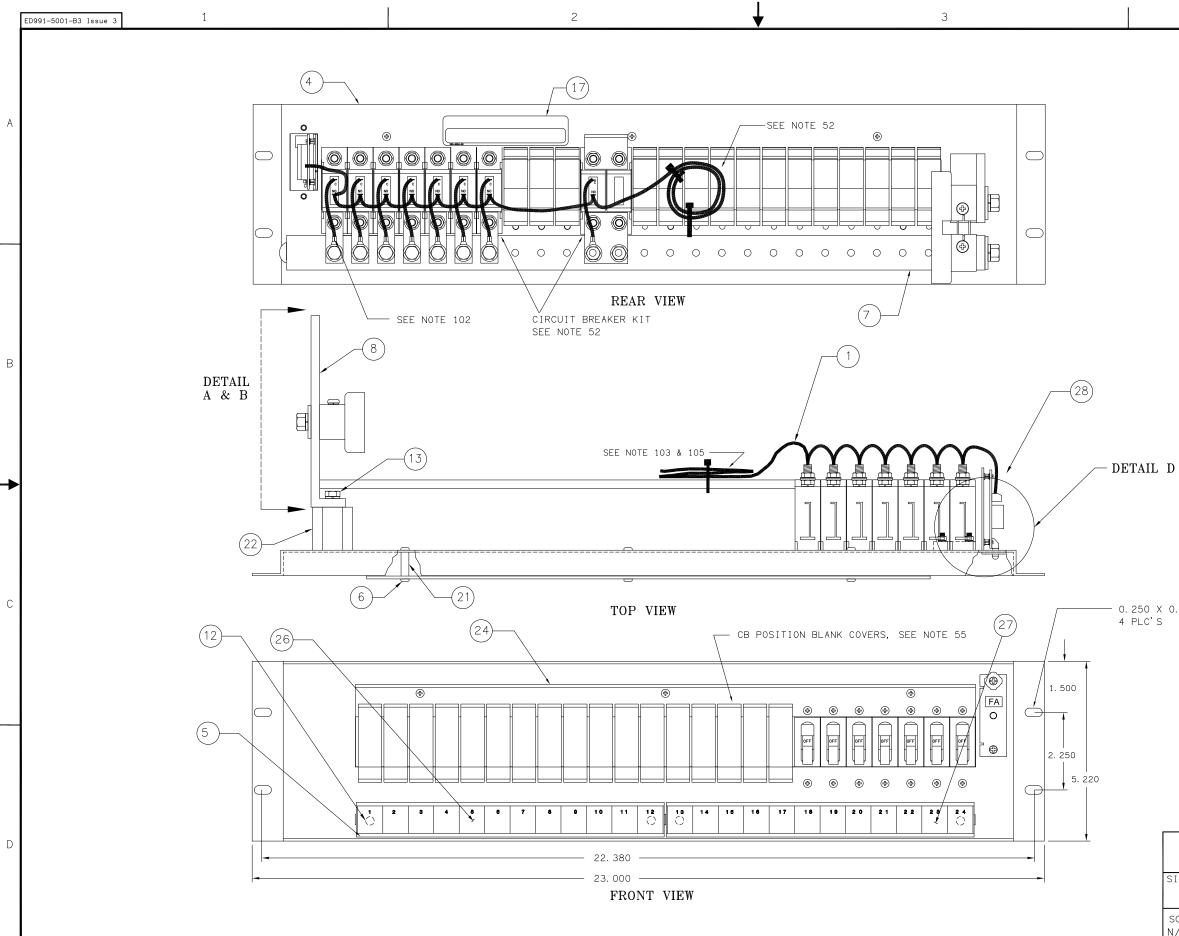
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ISSUES

SHEET INDEX NOTE:

THE ISSUE OF SHEET REFLECTS THE LATEST ISSUE OF THE DRAWING SET. WHEN THE DRAWING SET IS REVISED, ONLY THE ISSUE NUMBERS OF MODIFIED SHEETS ARE CHANGED. THE ISSUE NUMBERS OF UNMODIFIED SHEETS ARE NOT CHANGED.

SHEET INDEX							
SH NO	1	2	3				
ISSUE	9	7	7				



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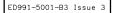
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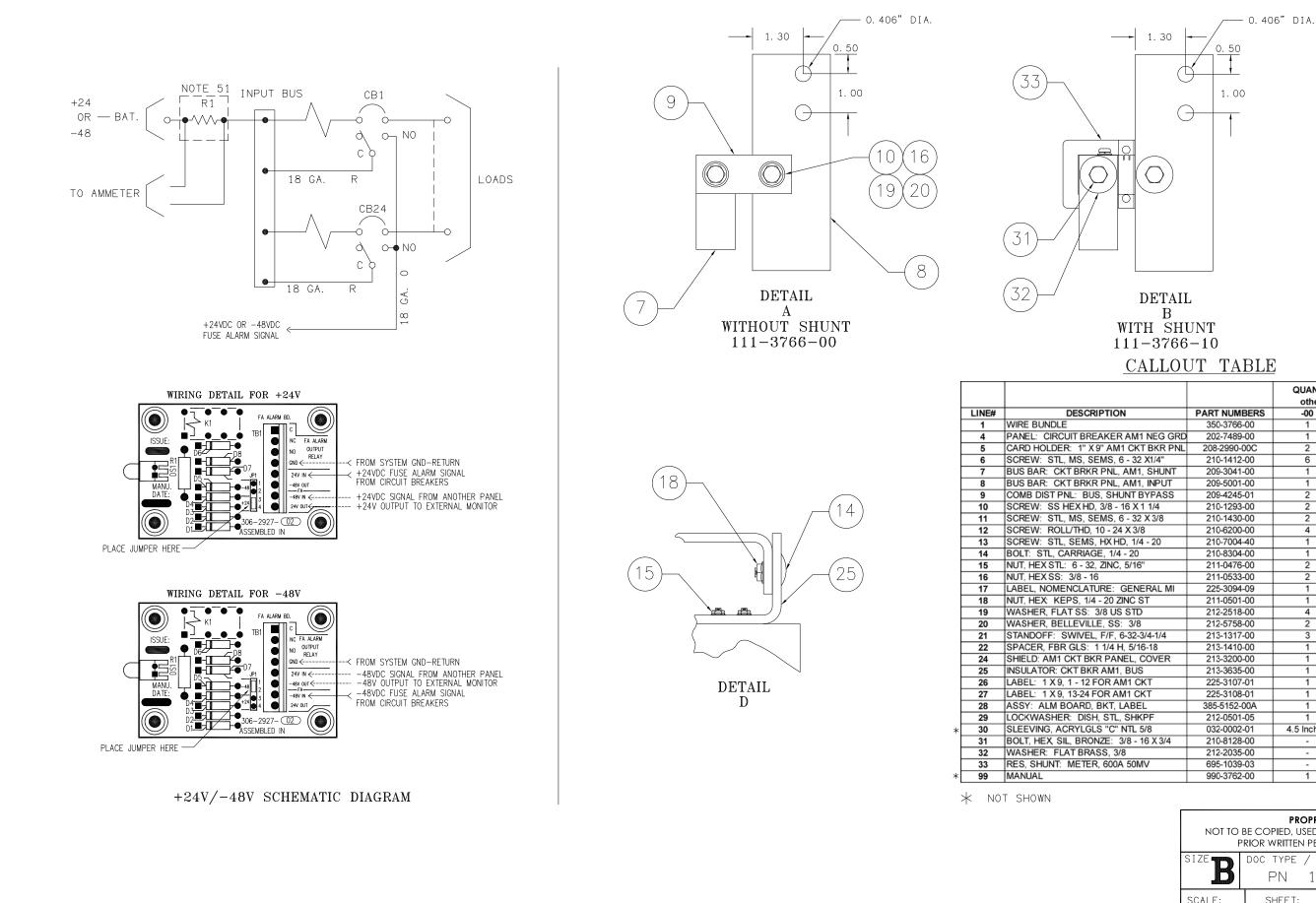
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ALLOUT	TABLE

		QUANTITY (each unless otherwise specified)		
	PART NUMBERS	-00	-10	
	350-3766-00	1	1	
1 NEG GRD	202-7489-00	1	1	
T BKR PNL	208-2990-00C	2	2	
2 X1/4"	210-1412-00	6	6	
1, SHUNT	209-3041-00	1	1	
1, INPUT	209-5001-00	1	1	
BYPASS	209-4245-01	2	-	
1 1/4	210-1293-00	2	-	
2 X 3/8	210-1430-00	2	2	
/8	210-6200-00	4	4	
4 - 20	210-7004-40	1	1	
)	210-8304-00	1	1	
6"	211-0476-00	2	2	
	211-0533-00	2	-	
IERAL MI	225-3094-09	1	1	
ST	211-0501-00	1	1	
D	212-2518-00	4	-	
3	212-5758-00	2	-	
-3/4-1/4	213-1317-00	3	3	
16-18	213-1410-00	1	1	
COVER	213-3200-00	1	1	
S	213-3635-00	1	1	
CKT	225-3107-01	1	1	
кт	225-3108-01	1	1	
EL	385-5152-00A	1	1	
KPF	212-0501-05	1	1	
5/8	032-0002-01	4.5 Inches	4.5 Inches	
16 X 3/4	210-8128-00	-	2	
	212-2035-00	-	2	
MV	695-1039-03	-	1	
	990-3762-00	1	1	

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SIZE B	DOC TYPE / NUMBER PN 111-3766			
SCALE: SHEET: FILE NAME: N/A 3 OF 3 PN111-3766_SHT_3_ISS_7				

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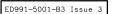
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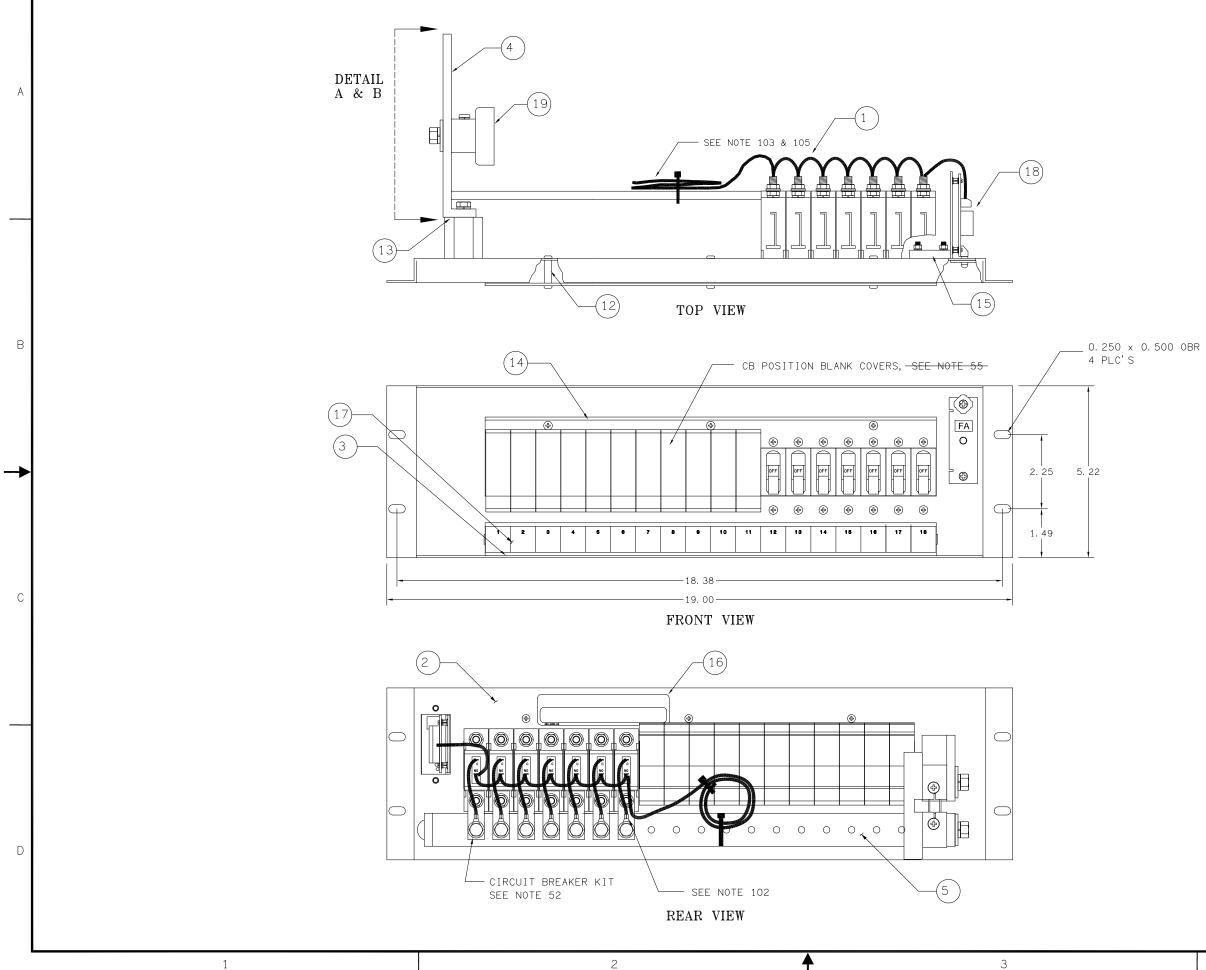
Г	ED991-5001-B1 Issue 3	2	¥	3			4		
	i		·				ISSUES		1
	ENGINEERING NOTES:	MANU	UFACTURING NOTES:		ISSUE #	DESCRIPTION		ISS. BY ISS. DATE	:
А	51. AMMETER SHUNTS ARE NORMALLY 600 AMPS, 50MV. HOWEVER, OTHER CURRENT RATINGS MAY BE SPECIFIE PANELS NOT SPECIFIED WITH A SHUNT (TABLE "A") DO NOT INCLUDE R1.	ED.	ANTI-OXIDATION COATING WILL BE A OF LAMINATED COPPER BUS STRU CRAMOLIN 81Rh WILL BE APPLIED PER MANUFACTURER'S INSTRUCTION	CTURE. A COMPOUND SUCH AS TO ALL JOINTED FLAT SURFACES	7	SEE PCO# 44479		WD 7/11/17	- A
	52. THIS PANEL WILL ACCOMMODATE A MAXIMUM OF 18 5-100 AMP CIRCUIT BREAKERS. TOTAL PANEL AMPERAGE MUST NOT EXCEED 500 AMPS. ORDER CIRCUIT BREAKERS PER ED991-0009-00.	103.	MOUNT WIRE LUG BETWEEN BUS BA THE REMAINING EXCESS OF ALARM TIED TO THE BUS BAR WITH A TIE	WIRE MUST BE WOUND UP AND					
	 53. UNIPOWER'S STANDARD PAINT COLOR IS ANSI 61 GRAY 54. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO UNIPOWER VERTICAL BUS BAR SYSTEM FOR OTHER SYSTEMS, HOLES ARE PROVIDED FOR BOLT 	Y. 104. T MS.	FOR ADDITIONAL CIRCUIT BREAKER WHEN CONNECTING ADDITIONAL CIR CONNECTION FROM THE BREAKER COMPLETED BY DAISY CHAINING E/ PUSH-ON.	CUIT BREAKERS, THE ALARM (NO) TO THE FA SIGNAL "IN" IS					
в	ING LUGGED CABLES. 55. TO COVER OPEN CIRCUIT BREAKER POSITIONS, ORDER BLANK COVERS, P/N 213-3923-00, PER CIRCUIT BRE/ POSITION. —	AKER	BE CUT FROM THE REMAINING WIR LENGTH MUST THEN BE JOINED WI A CRIMP TYPE PUSH-ON.) IF CRIM	ERS ARE ADDED, A 2" LENGTH MUST E FOR EACH BREAKER. THIS 2" TH THE REMAINING ALARM WIRE BY PING TOOLS ARE NOT AVAILABLE,					в
►	 56. BUBBLE REFERENCE DESIGNATORS REFER TO CALLOUT TABLE LINE NUMBER. 57. PROVIDE ADEQUATE SPACE ABOVE THE CIRCUIT BREAK PANEL FOR TURNING DISTRIBUTION CABLES. USE OF A ONE SPACE BLANK PANEL IS HIGHLY RECOMMENDED. OBLANK PANEL P/N 202-3245-00. 	106. A ORDER 107.	(C) OF THE CIRCUIT BREAKER TO	OR CONNECTING EACH ALARM CONTACT THE BUS BAR. EACH CONNECTION IE BUS BAR IS COMPLETED SEPARATELY. LACE ITS' BOLTS AS SHOWN IN	l s		APPROVALS DRAWN MRB CHECKED JW APPROVED	DATE 2/27/95 3/10/95	- -
С	TABLE APANELE/W SHUNT111-3768-00NO111-3768-01NO111-3768-10YES111-3768-20NO111-3768-21YES				DECIMAI ANGLES SQUARE WORK PER S MATEF	CORNERS AND ANGLES ARE S MANSHIP: SPEC ENGO32 RIAL: I: PROPRIET I TO BE COPIED, USED, TH	APPROVED 0° UNLESS OTHERWISE SPECIFIED. ARY INFORMATION RANSMITTED, OR DISCLOSED V ISSION FROM UNIPOWER, LLC		- - - - -
D	SHEET INDEX NOTE: THE ISSUE OF SHEET 1 REFLECTS THE LATEST ISSU OF THE DRAWING SET. WHEN THE DRAWING SET IS REVISED, ONLY THE ISSUE NUMBERS OF MODIFIED S ARE CHANGED. THE ISSUE NUMBERS OF UNMODIFIED ARE NOT CHANGED.	SHEETS	SHEET INDEX SH NO 1 2 3 ISSUE 7 6 6		1 SIZE SCAL N/A	AM1 50-100 W/ALARM SV B DOC TYPE / N PN 11		PNL ALARM issue 7	D
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SIZE	B DOC TYPE / NUMBER PN 111-3768			
SCALE: N/A	SHEET: 2 OF 3	FILE NAME: PN111-3768_SHT_2_ISS_6		

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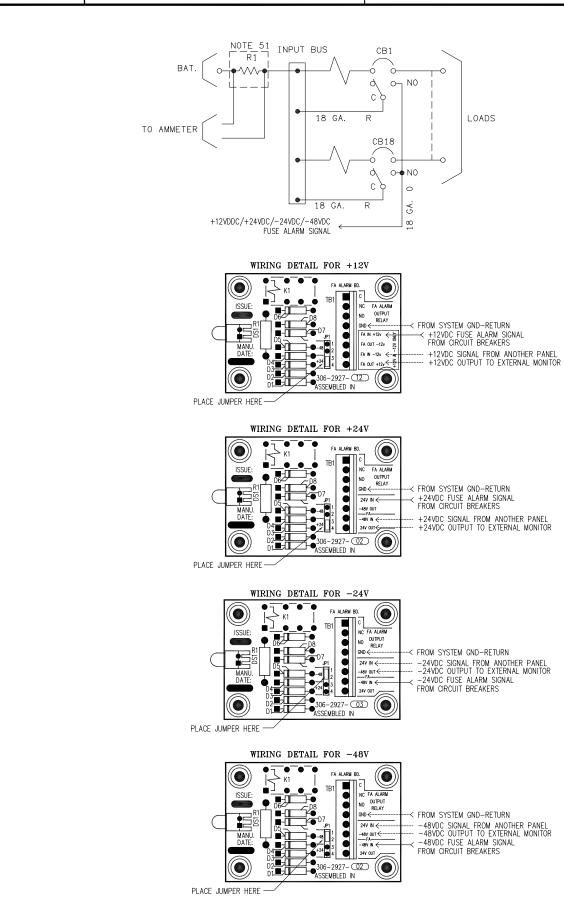
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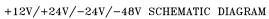
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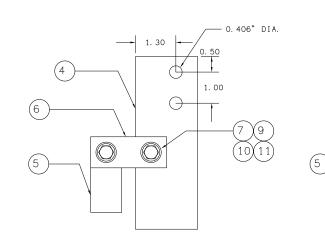
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DETAIL					
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WITHOUT SHUNT					
111 - 3768 - 00					
111 - 3768 - 01					
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CALLOUT TABLE

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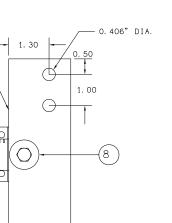
			1AUQ	NTITY
LINE #	DESCRIPTION	PART NUMBERS	-00, -01, -20	-10, -11, -21
1	CUT WIRE: 18 GAUGE ORANGE	051-1833-52	1	1
	PANEL: CIRCUIT BREAKER AM1 POS GRD, 19"	202-3852-00	1	1
	CARD HOLDER: 1" X 13.76" AM1 CKT BKR PNL	213. 3725. 1367	1	1
	BUS BAR: CKT BKR PNL AM1, INPUT, POS GRD	209-3040-00	1	1
5	BUS BAR: CKT BKR PNL AM1, SHUNT TO CB	209-3043-00	1	1
	COMB DIST PNL: BUS, SHUNT BYPASS, 200/400A	209-4245-01	2	
	SCREW: SS, HEX HD, 3/8-16 X 1 1/4"	210-1293-00	2	
	BOLT, HEX, SIL, BRONZE: 3/8-16 X 3/4"	210-8128-00		2
	NUT, HEX SS: 3/8-16	211-0533-00	2	
10	WASHER, FLAT SS: 5/16" X 3/4" X .125"	212-2518-00	4	
	WASHER, BELLEVILLE, SS: 1/2" X .900"	212-5758-00	2	
	STANDOFF: SWIVEL, F/F, 6-32 X 3/4 X 1/4 OD	213-1317-00	3	3
	SPACER: HEATSINK, HEX FIBERGLASS, 1. 25" GLASTIC	213-1410-00	1	1
	SHIELD: AM1 CKT BKR PANEL, COVER 19"	213-3201-00	1	1
15	INSULATOR: CKT BKR AM1, BUS SUPPORT	213-3635-00	1	1
	LABEL: NOMENCLATURE: GENERAL MISC, 0.9"	225-3094-09	1	1
	LABEL: 1" X 13.75" 1-18, FOR AM1 CKT BKR PNL	225-3107-03	1	1
	ASSY: ALARM BOARD, BKT, LABEL, FOR FA	See Table 2	1	1
19	RES, SHUNT: METER, 600A 50MV	695-1093-03		1

TABLE 2

Panel Part#	Alarm Board Kit#
111. 3768. 00A	385. 5152. 00A
111. 3768. 01A	385. 5152. 11A
111. 3768. 10A	385. 5152. 00A
111. 3768. 11A	385. 5152. 11A
111. 3768. 20A	385. 5152. 10A
111. 3768. 21A	385.5152.10A

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DETAIL B WITH SHUNT 111-3768-10 111-3768-11 111-3768-21

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SIZE	3	DOC TYPE / NU PN 11	issue 6		
SCALE: N/A		SHEET: 3 OF 3	FILE NAME: PN111-3768_SHT_3_ISS_6		

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ssue 3 1	2		3			4		
						ISSUES		
EERING NOTES:	МА	NUFACTURING NOTE	S:	ISSUE #	DESCRIPTION		ISS. BY ISS. DATE	
METER SHUNTS ARE NORMALLY 600 AMPS, 50MV. DWEVER, OTHER CURRENT RATINGS MAY BE SPECIFIED. ANELS NOT SPECIFIED WITH A SHUNT (TABLE "A") D NOT INCLUDE R1.	101.	OF LAMINATED COPPER	G WILL BE APPLIED BETWEEN ALL LAYERS BUS STRUCTURE. A COMPOUND SUCH AS E APPLIED TO ALL JOINTED FLAT SURFACES INSTRUCTIONS.		SEE PCO# 44479		WD 7/11/17	A
IS PANEL WILL ACCOMMODATE A MAXIMUM OF 18 100 AMP CIRCUIT BREAKERS. TOTAL PANEL MPERAGE MUST NOT EXCEED 500 AMPS. ORDER RCUIT BREAKERS PER ED991-0009-00. IPOWER'S STANDARD PAINT COLOR IS ANSI 61 GRAY. E INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT DNNECTION TO UNIPOWER VERTICAL BUS BAR SYSTEMS. DR OTHER SYSTEMS, HOLES ARE PROVIDED FOR BOLT- G LUGGED CABLES. COVER OPEN CIRCUIT BREAKER POSITIONS, ORDER ANK COVERS, P/N 213-3923-00, PER CIRCUIT BREAKER DSITION. BBLE REFERENCE DESIGNATORS REFER TO CALLOUT ABLE LINE NUMBER.	103. 104. 105.	 THE REMAINING EXCESS TIED TO THE BUS BAR FOR ADDITIONAL CIRCU WHEN CONNECTING ADD CONNECTION FROM THE COMPLETED BY DAISY PUSH-ON. THE ALARM WIRE LENGT BREAKERS. (WHEN CIRC BE CUT FROM THE REM LENGTH MUST THEN BE A CRIMP TYPE PUSH-O THE PUSH-ON MAY BE LUGS AND PUSH-ONS A 	TIONAL CIRCUIT BREAKERS, THE ALARM BREAKER (NO) TO THE FA SIGNAL "IN" IS CHAINING EACH CIRCUIT BREAKER WITH TH IS 40" LONG TO ALLOW FOR 18 CIRCUIT CUIT BREAKERS ARE ADDED, A 2" LENGTH MUST MAINING WIRE FOR EACH BREAKER. THIS 2" JOINED WITH THE REMAINING ALARM WIRE BY N.) IF CRIMPING TOOLS ARE NOT AVAILABLE, SOLDERED. RE USED FOR CONNECTING EACH ALARM CONTACT					В
OVIDE ADEQUATE SPACE ABOVE THE CIRCUIT BREAKER ANEL FOR TURNING DISTRIBUTION CABLES. USE OF A NE SPACE BLANK PANEL IS HIGHLY RECOMMENDED. ORDER ANK PANEL P/N 202-3245-00.	107.	FROM THE ALARM CON	REAKER TO THE BUS BAR. EACH CONNECTION TACT TO THE BUS BAR IS COMPLETED SEPARATELY. JIRED, REPLACE ITS' BOLTS AS SHOWN IN WASHERS SUPPLIED WITH THE SHUNT.	± HOLES FRACTION DECIMALS DECIMALS ANGLES SQUARE WORKM PER SF MATERI	(xx) ±0.020 (xxx) ±0.010 ±1/2* CORNERS AND ANGLES ARE ANSHIP: 2°EC ENG032	APPROVALS DRAWN MRB CHECKED JW APPROVED NMS APPROVED 90' UNLESS OTHERWISE SPECIFIED.	DATE 3/3/95 3/10/95 3/10/95	c
TABLE A PANEL E/W SHUNT 111-3769-00 NO 111-3769-10 YES				FINISH:	TO BE COPIED, USED, TH	ARY INFORMATION RANSMIITED, OR DISCLOSED IISSION FROM UNIPOWER, LL IISSION FROM UNIPOWER, LL		
SHEET INDEX NOTE: THE ISSUE OF SHEET 1 REFLECTS THE LATEST ISSUE OF THE DRAWING SET. WHEN THE DRAWING SET IS REVISED, ONLY THE ISSUE NUMBERS OF MODIFIED SHEETS ARE CHANGED. THE ISSUE NUMBERS OF UNMODIFIED SHEETS ARE NOT CHANGED.		SHEET IND SH NO 1 2 3 ISSUE 4 3 3		W SIZE SCALE	AM1 5-100 A /ALARM SWI DOC TYPE / N PN 11 : SHEET:	1-3769 File NAME:	PNL _ARM _ISSUE _4	D
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ENGINEERING NOTES:

ED991-5001-B1 Issue 3

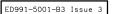
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51. AMMETER SHUNTS ARE NORMALLY 60 HOWEVER, OTHER CURRENT RATINGS PANELS NOT SPECIFIED WITH A SHUT DO NOT INCLUDE R1.

- 52. THIS PANEL WILL ACCOMMODATE A M 5-100 AMP CIRCUIT BREAKERS. TOT AMPERAGE MUST NOT EXCEED 500 CIRCUIT BREAKERS PER ED991-0009-
- 53. UNIPOWER'S STANDARD PAINT COLOR
- 54. THE INPUT COPPER BUS BAR IS DESI CONNECTION TO UNIPOWER VERTICAL FOR OTHER SYSTEMS, HOLES ARE PI ING LUGGED CABLES.
- 55. TO COVER OPEN CIRCUIT BREAKER PO BLANK COVERS, P/N 213-3923-00, POSITION.
- 56. BUBBLE REFERENCE DESIGNATORS RE TABLE LINE NUMBER.

57. PROVIDE ADEQUATE SPACE ABOVE TH PANEL FOR TURNING DISTRIBUTION C ONE SPACE BLANK PANEL IS HIGHLY BLANK PANEL P/N 202-3245-00.



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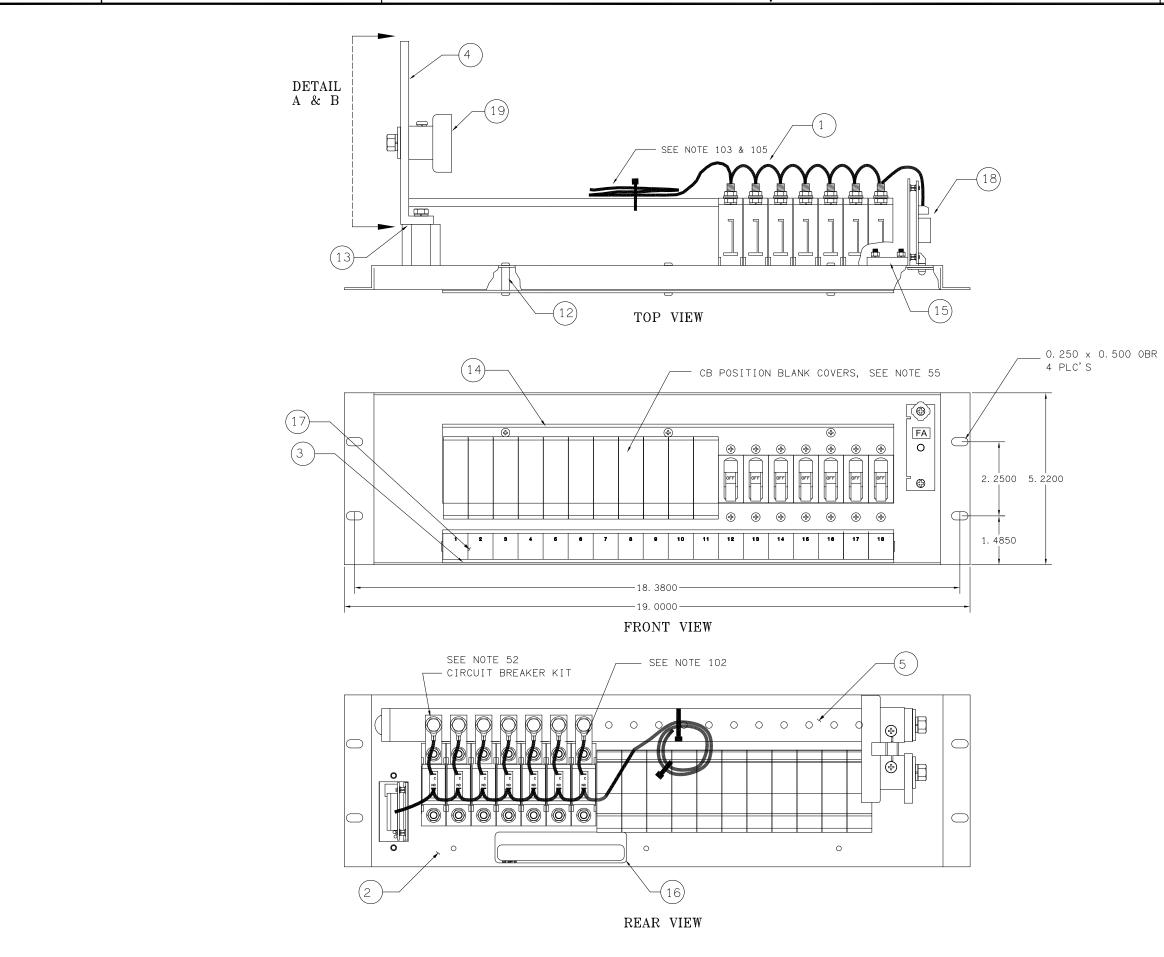
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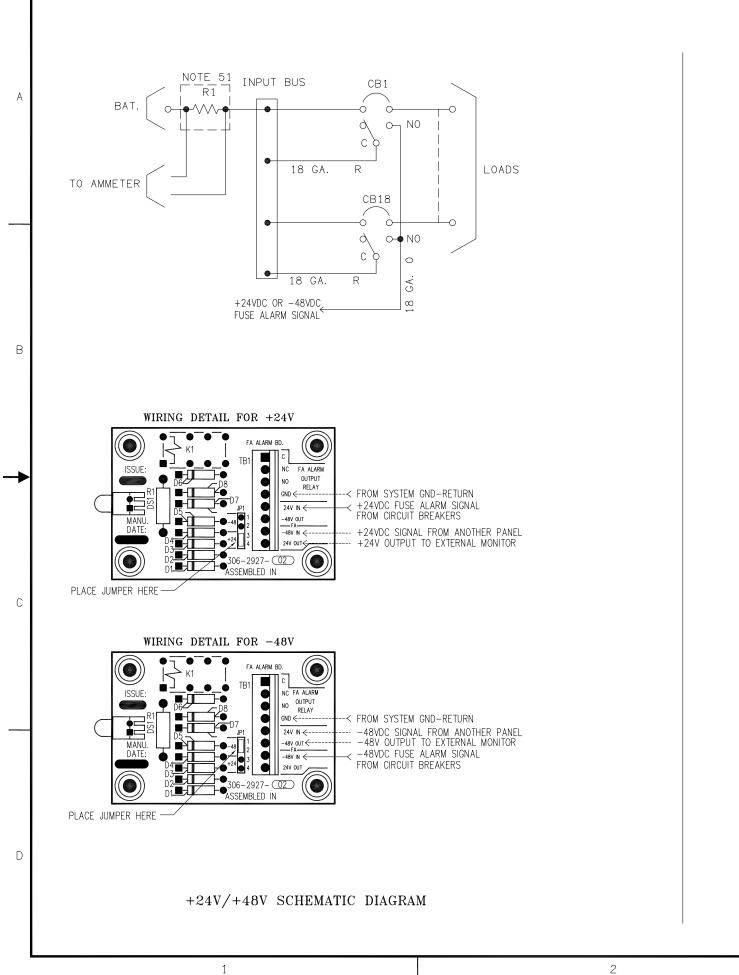
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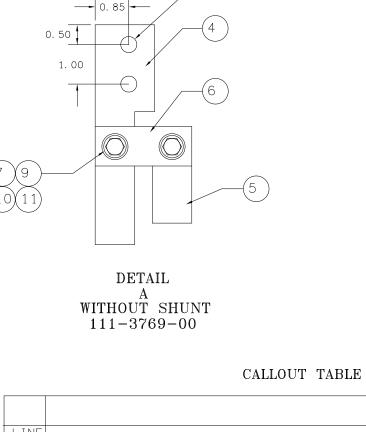
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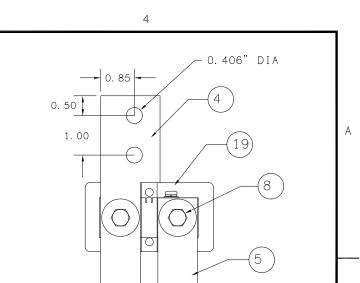
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			QUAN	TITY
LINE #	DESCRIPTION	PART NUMBERS	-00	-10
1	CUT WIRE: 18 GAUGE ORANGE	051-1833-52	1	1
	PANEL: CIRCUIT BREAKER AM1 NEG GRD, 19"	202-3852-01	1	1
	CARD HOLDER: 1" X 13.76" AM1 CKT BKR PNL	208-2991-00	1	1
	BUS BAR: CKT BKR PNL AM1, INPUT, NEG GRD	209-3042-00	1	1
5	BUS BAR: CKT BKR PNL AM1, SHUNT TO CB	209-3043-00	1	1
	COMB DIST PNL: BUS, SHUNT BYPASS, 200/400A	209-4245-01	2	
	SCREW: SS, HEX HD, 3/8-16 X 1 1/4"	210-1293-00	2	
	BOLT, HEX, SIL, BRONZE: 3/8-16 X 3/4"	210-8128-00		2
	NUT, HEX SS: 3/8-16	211-0533-00	2	
10	WASHER, FLAT SS: 5/16" X 3/4" X .125"	212-2518-00	4	
	WASHER, BELLEVILLE, SS: 1/2" X .900"	212-5758-00	4	
	STANDOFF: SWIVEL, F/F, 6-32 X 3/4 X 1/4 OD	213-1317-00	З	3
	SPACER: HEATSINK, HEX FIBERGLASS, 1. 25" GLASTIC	213-1410-00	1	1
	SHIELD: AM1 CKT BKR PANEL, COVER 19"	213-3201-00	1	1
15	INSULATOR: CKT BKR AM1, BUS SUPPORT	213-3635-00	1	1
	LABEL: NOMENCLATURE: GENERAL MISC, 0.9"	225-3094-09	1	1
	LABEL: 1"X 13.75"1–18, FOR AM1 CKT BKR PNL	225-3107-03	1	1
	ASSY: ALARM BOARD, BKT, LABEL, FOR FA	385-5152-00	1	1
	RES, SHUNT: METER, 600A 50MV	695-1093-03		1
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DETAIL В WITH SHUNT 111-3769-10

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