

FUSE PANEL PRODUCT MANUAL

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

Fuse Panel Front Matter

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. PACKAGE INSPECTION

- **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. EQUIPMENT INSPECTION

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. 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, ask the delivering carrier to send the packages back to UNIPOWER 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.

Fuse Panel Front Matter

3. **HANDLING**

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. NAMEPLATE

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

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. **SPARE PARTS**

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.

Manufacturing facility: UNIPOWER, LLC 65 Industrial Park Rd Dunlap, TN 37327 United States

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?

Fuse Panel Front Matter

REVISION HISTORY

REV	DESCRIPTION	CHECKED/APPROVED BY & DATE
9	See PCO 45403	CJM / 8-8-19
10	See ECN 46140	JPR / 1-3-24

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.

Fuse Panel

INSTALLATION AND OPERATION FOR FUSE PANELS

- 1. Install the Fuse Panel in a relay rack, or enclosed box assembly using 12 24 hardware.
- 2. If supplied, remove the fuses from panel by pulling fuse block, and/or removing individual fuses.
- 3. Route and connect the "HOT" load lead to the desired fuse circuit. See the fuse panel drawing for the location of fuse output connection.
- 4. For systems with a vertical branch-feed bus, bolt the fuse panel input bus to the vertical bus. For other systems, connect wire of appropriate size to the input bus on the fuse panel.
- 5. If the fuse panel is equipped with a fuse alarm lamp and/or relay, connect a lead form the Ground bar to the GND terminal on the terminal block.
- 6. For fuse panels not equipped with a local alarm circuit, the fuse alarm signal can be extended to a separate alarm system by wire-wrapping or soldering an alarm wire to the fuse alarm post.
- 7. For fuse panels equipped with a local alarm lamp or lamp and relay circuit, the fuse alarm signal can be extended to a separate alarm system by connecting an alarm wire to the FA terminal.
- 8. If the fuse panel is equipped with current shunts, connect the shunt('s) to the current sensing panel using AWG 14 minimum wire.
- 9. Place properly sized fuses in the appropriate fuse holders. See the fuse panel drawing notes for the recommended alarm fuse ratings.
- 10. When contacting the factory for information or service, please include the model number with a complete description of the difficulty or questions involved.

This manual covers the following Fuse Panels:

PN111.2750.00

PN111.2750.05

PN111.2750.07

111.2998.04

PN111.3012

PN111.3017

111.3051.10

PN111.3063

111.3072.10

PN111.3080

PN111.3783

111B.2750.00

J111B.2751.00

111B.2753.00

111B.3000

PN111B.3001.00

PN111B.3005.00

PN111B.3006.00

111B.3007

PN111B.3010

PN111B.3012

PN111B.3014

PN111B.3016

PN111B.3019

PN111B.3021

PN111B.3023

PN111B.3025

PN111B.3035

111B.3042

J111B.3046

PN111B.3049

111B.3051

111B.3053

111B.3056

PN111B.3068

PN111B.3072

PN111B.3074

ED991-5001-B1 Issue 3 ISSUES

ENGINEERING NOTES:

- 51. SELECT THE PAINT COLOR PER TABLE A.
- 52. THE ONLY FUSES PROVIDED ARE THE MAIN (15A), ALM (.5A), DIST FUSES FOR THE CC (1.3A & 2A LOC #20), AND DIST FUSES FOR THE IC (.5A & 5A LOC #19). ALL OTHER DIST FUSES ALONG WITH THEIR DESIGNATION PINS MUST BE ORDERED SEPARATELY. ORDER PER TABLE B.
- 53. HOLES ABOVE GMT FUSE HOLDERS ARE FOR DESIGNATION PINS.
- 54. RELAY CONTACTS ARE RATED 2 AMP RESISTIVE AT 12-24VDC, 1 AMP AT 48VDC AND .5 AMP AT 120VDC.

TABLE A

COLOR	DESIGNATOR
ANSI 61 GRAY	Α
BEIGE	В

MANUFACTURING NOTES:

- 101. ALL WIRING IS 20 GA UNLESS OTHERWISE SPECIFIED.
- 102. INSTALL ALL FUSES AND COLOR DESIGNATION PINS ON FUSE POSITION 19, 20 AND 21 AS SPECIFIED.
- 103. APPLY HEATSHRINK SO THAT FA TERMINAL AND EXPOSED WIRES ARE COVERED TO PREVENT POSSIBLE ELECTRICAL SHORTING.

TABLE B

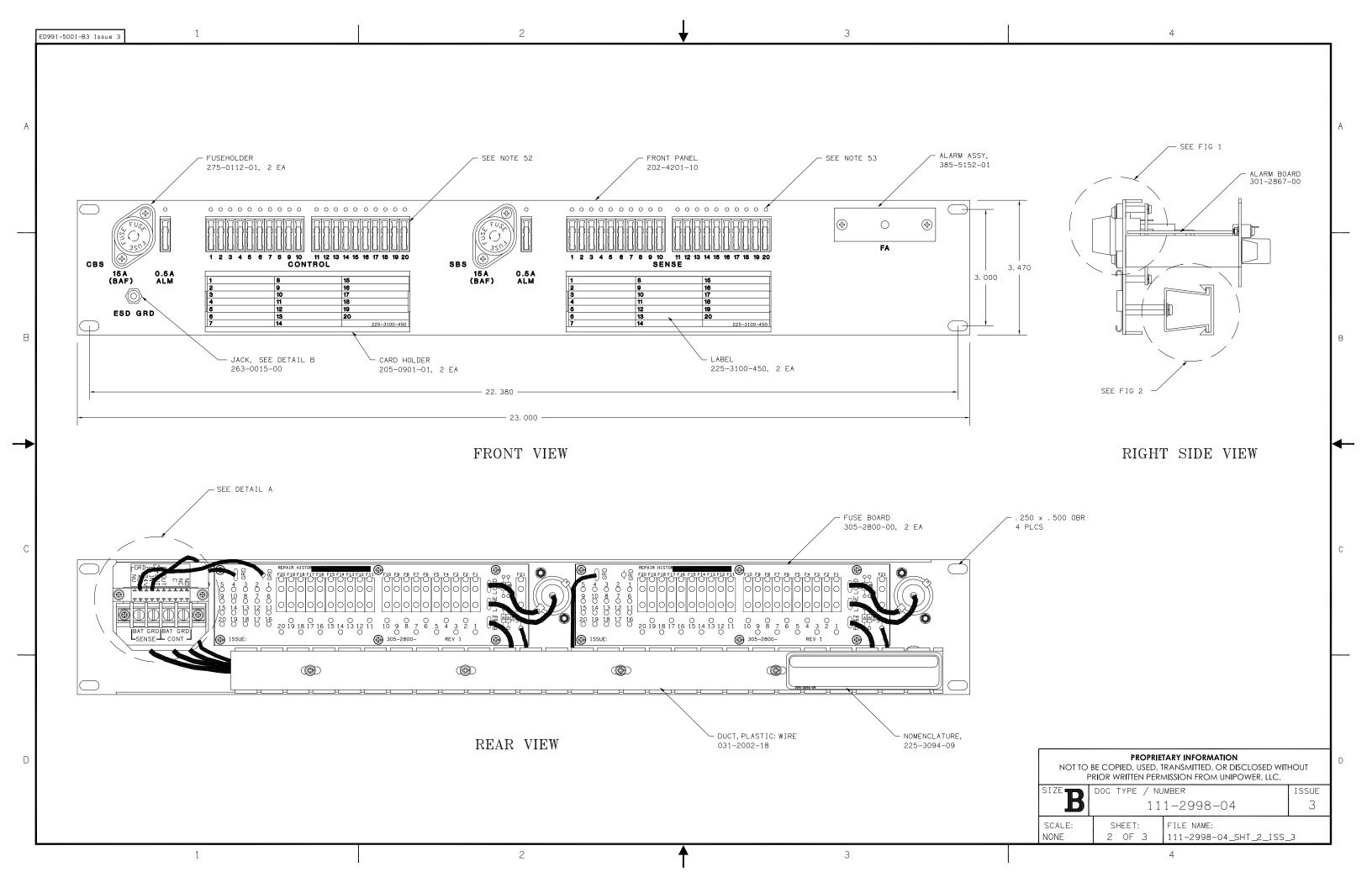
	TYPE "GMT" FUSES						
AMPS	PART NUMBER (FUSE)	COLOR	PART NUMBER (PIN DESIG)				
	(103L)		(FIN DESIG)				
.5	280-0700-00	RED	275-9001-00				
1.33	280-0715-00	WHITE	275-9001-01				
2	280-0735-00	ORANGE	275-9001-02				
3	280-0760-00	BLUE	275-9001-03				
5	280-0740-00	GREEN	275-9001-04				
DUMMY	276-0002-00						

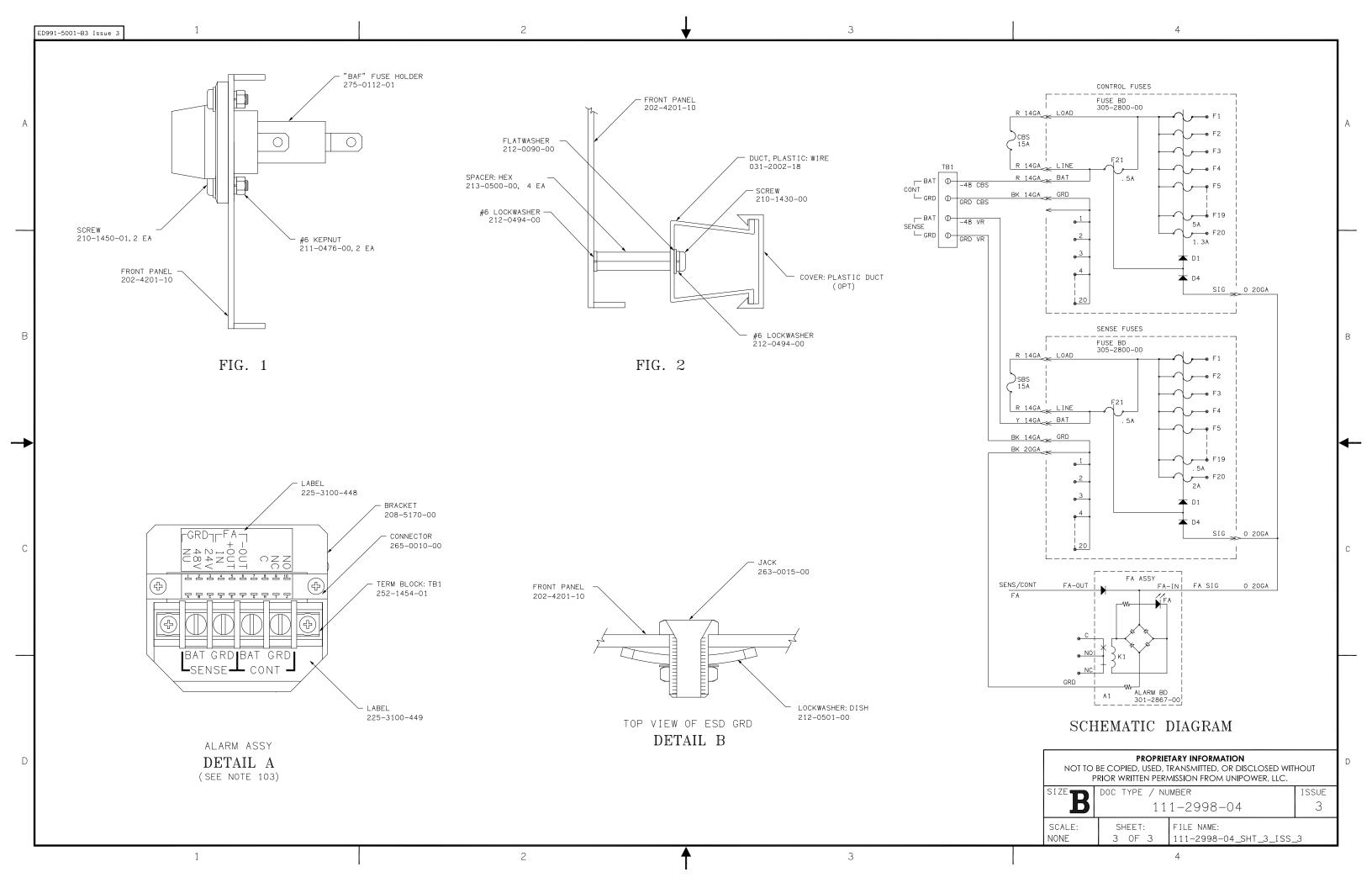
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ISSUE	4	3	3		

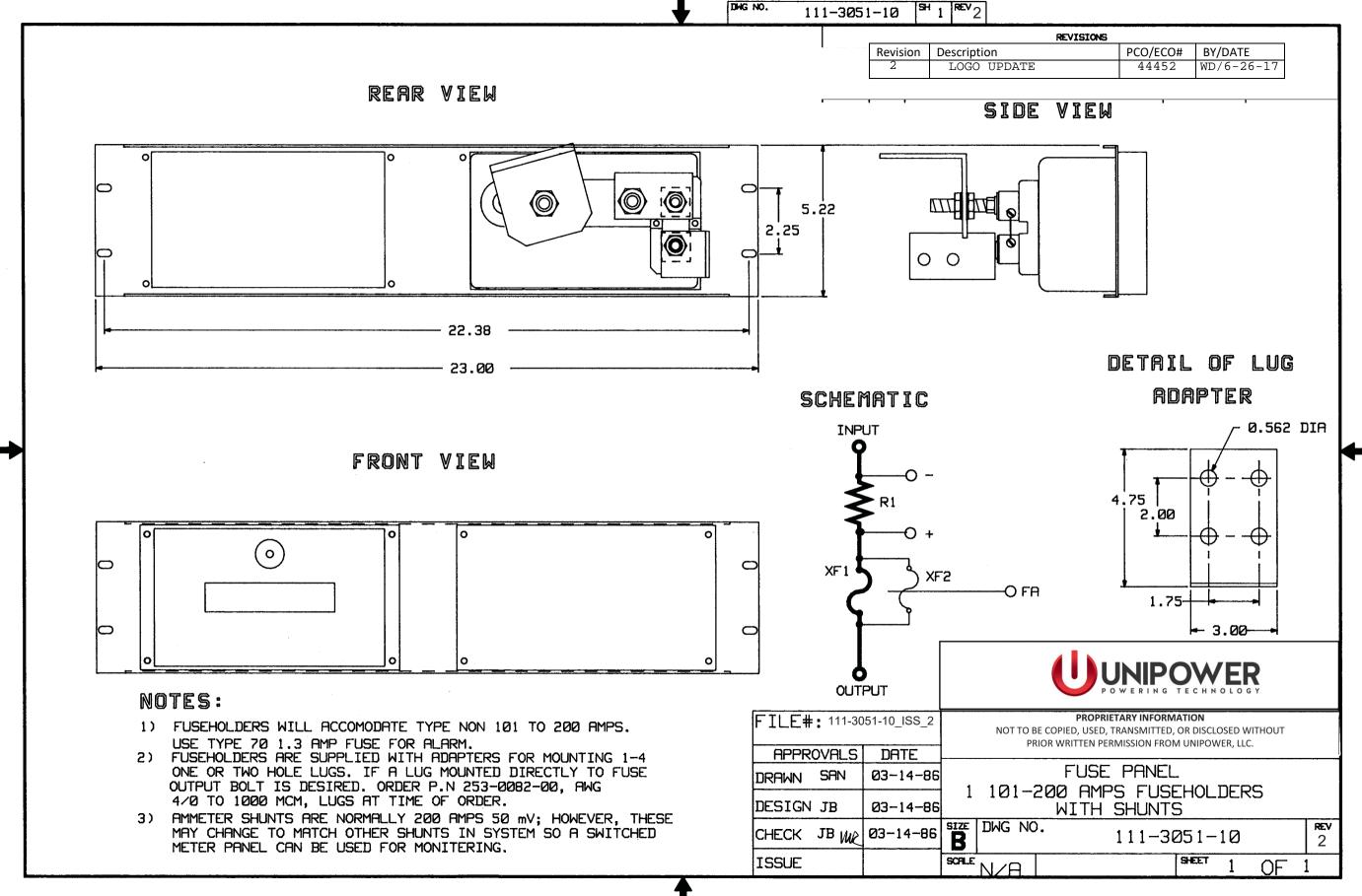
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DECIMALS (ES	4/19/90	l
ANGLES	±1/2°	APPROVED		
		NLESS OTHERWISE SPECIFIED.	•	1
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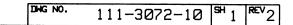
SHEET INDEX

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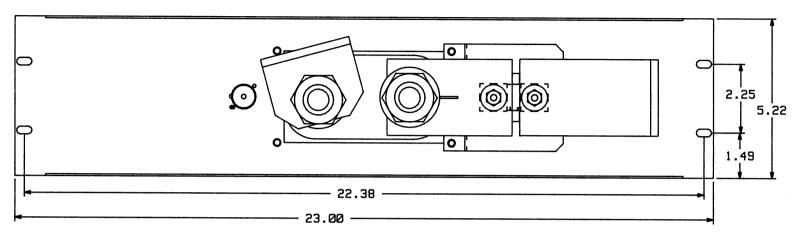




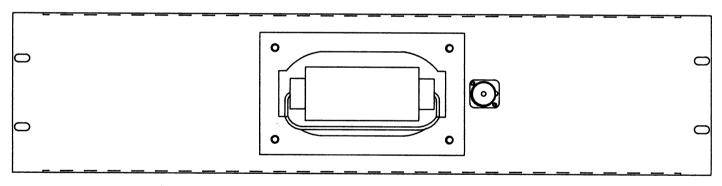


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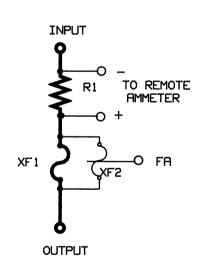
REAR VIEW

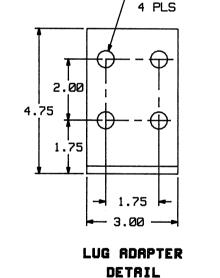


FRONT VIEW



SCHEMATIC





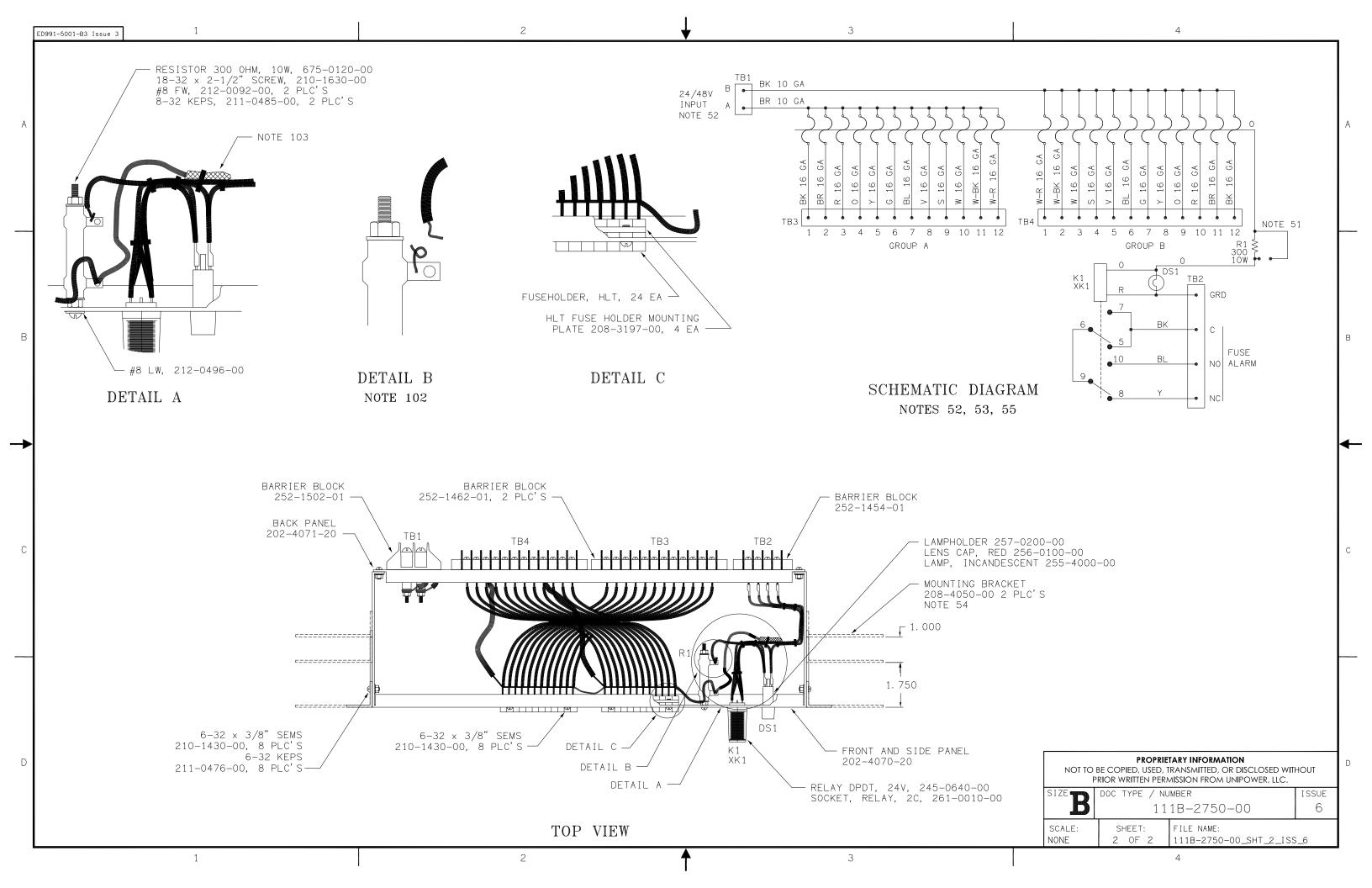
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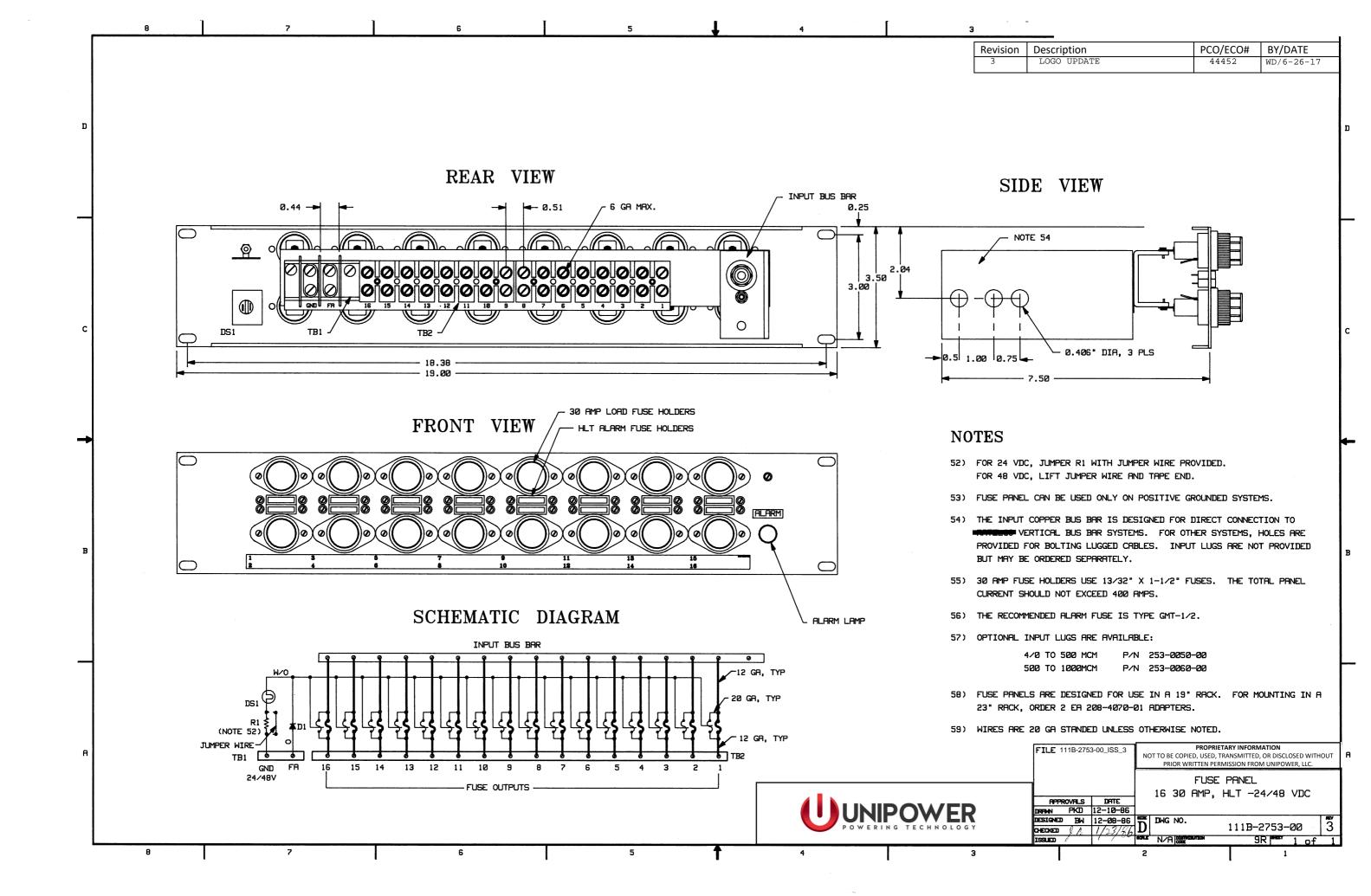
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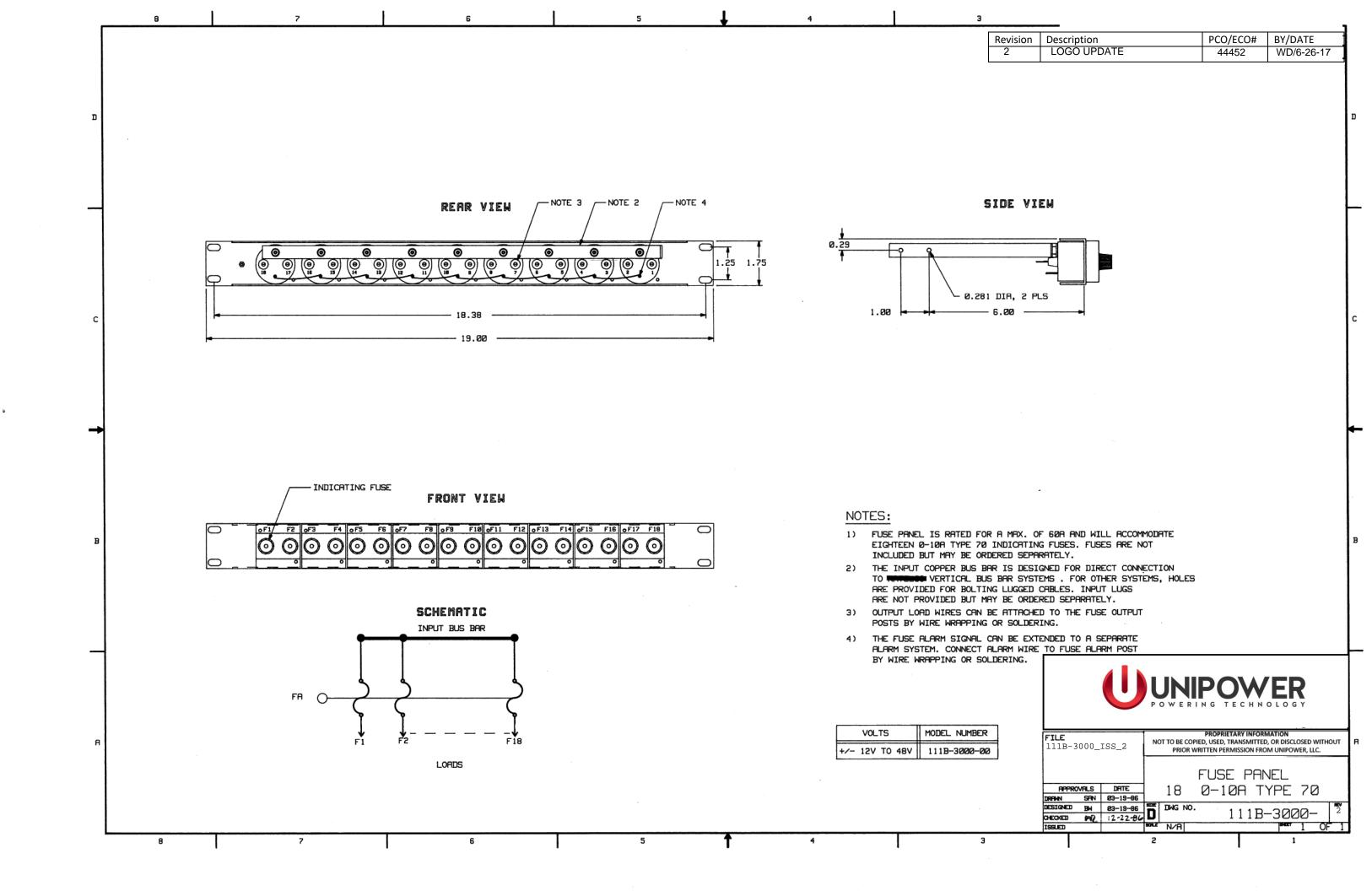
- 1) FUSEHOLDERS WILL ACCOMODATE TYPE LKN 61 TO 600 AMP. USE TYPE 70 1.3 AMP FUSE FOR ALARM.
- 2) FUSEHOLDERS ARE SUPPLIED WITH ADAPTERS FOR MOUNTING 1-6
 ONE OR TWO HOLE LUGS. IF A LUG MOUNTED DIRECTLY TO FUSE
 OUTPUT BOLT IS DESIRED. ORDER P.N. 253-0082-00. AWG
 4/0 TO 1000MCM, LUG AT TIME OF ORDER.
- 3) AMMETER SHUNTS ARE NORMALLY 600 AMP 50mV; HOWEVER, THESE MAY CHANGE TO MATCH OTHER SHUNTS IN SYSTEM SO A SWITCHED METER PANEL CAN BE USED FOR MONITERING.

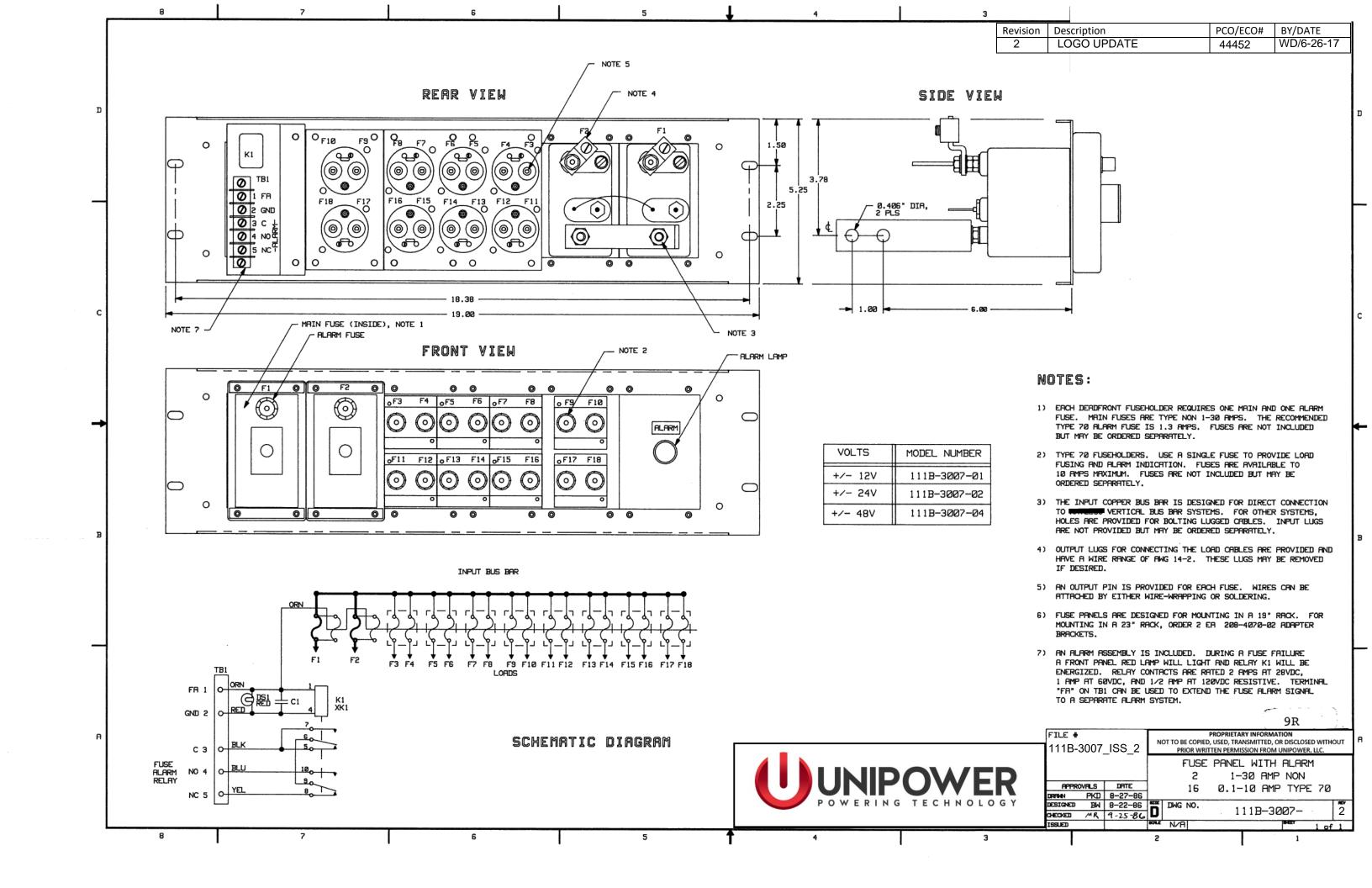
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APPR(OVALS	DATE	PRIOR WRITTEN PERMISSION FROM UNIPOWER, LLC.				
DRAWN	PKD	2-12-86	FUSE PANEL				
DESIGN	BW	1-23-86	ONE 600 AMP WITH SHUNT				
CHECK	EW	2-12-86	B DWG NO.	111-3072-10	REV 2		
ISSUE			SCALE N/A	SHEET 1 OF	1		

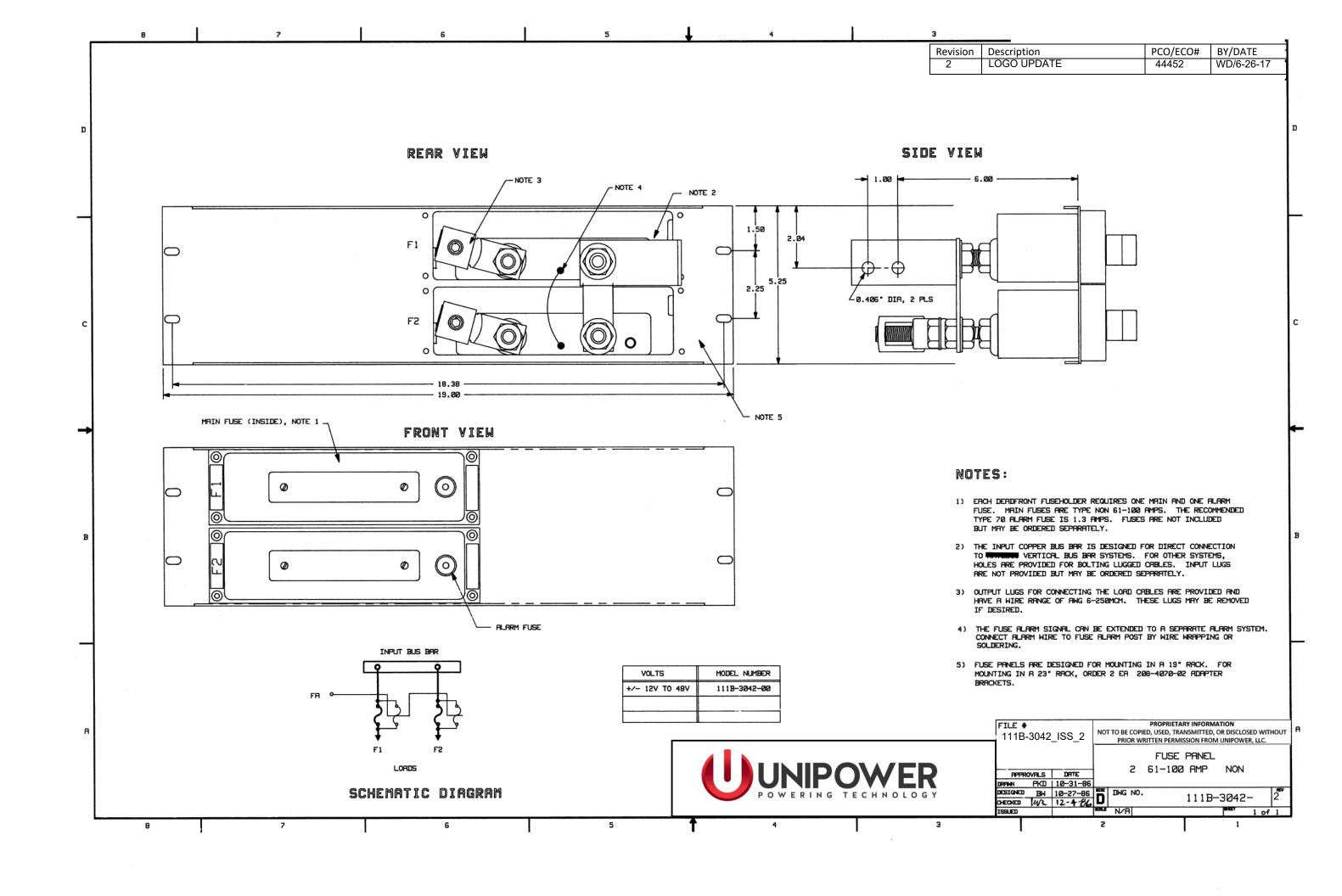
ED991-5001-B1 Issue 3 **ISSUES** DESCRIPTION ISS. BY **ENGINEERING NOTES:** MANUFACTURING NOTES: ISS. DATE WD SEE PCO# 44452 51. STANDARD WIRING IS FOR 48 VDC, FOR 24 VDC, 101. ALL WIRING IS 20 GA UNLESS OTHERWISE SPECIFIED. 6/27/17 REMOVE SLEEVING FROM JUMPER WIRE, SHORT ACROSS 102. LOOP RESISTOR LEAD AS SHOWN, SOLDER WIRE TO LOOP. R1 AS SHOWN, AND SOLDER BACK. TO CONVERT FROM 103. SHEATH LUG ON FREE END OF JUMPER, AND TIE WRAP TO 24 VDC TO 48 VDC LIFT JUMPER WIRE AND TAPE END. WIRE BUNDLE. 52. FUSE PANEL CAN BE USED ON POSITIVE OR NEGATIVE GROUNDED SYSTEMS. 53. INPUTS A AND B MUST BE SUPPLIED FROM A COMMON SOURCE, 30A MAX PER SECTION. 54. MOUNTING BRACKETS ARE ADJUSTABLE FOR 19" OR 23" TABLE A TABLE B RACKS AND SEVERAL PANEL OFFSET DISTANCES. 55. RELAY CONTACTS ARE RATED 2 AMP RESISTIVE AT COLOR DESIGNATOR TYPE "GMT" FUSES 12-24 VDC, 1 AMP AT 48 VDC AND 0.5 AMP AT 120 VDC. PART NUMBER ANSI 61 GRAY **AMPS** 56. SELECT THE PAINT COLOR FROM TABLE A. IE: 111B-2750-00, COLOR A = ANSI 61 GRAY FINISH BEIGE В 280-0700-00 0.5 IE: 111B-2750-00, COLOR B = BEIGE FINISH 280-0715-00 1.33 57. ORDER FUSES FROM TABLE B. 280-0735-00 3 280-0760-00 280-0740-00 **DUMMY** 276-0002-00 UNLESS OTHERWISE SPECIFIED DIMENSIONS APPROVALS DATE ARE IN INCHES TOLERANCES ON: BW8/28/85 +0.004 NOMENCLATURE LABEL, 225-3094-09 0.250" x 0.500" OBR CHECKED -0.002 VBM 3/13/91 4 PLS FRACTIONS ±1/32 APPROVED DECIMALS (XX) ±0.020 PKD4/19/91 ┌ 0.235 DECIMALS (XXX) ±0.010 APPROVED ANGLES ±1/2° 0 SQUARE CORNERS AND ANGLES ARE 90° UNLESS OTHERWISE SPECIFIED 1.250 1.720 WORKMANSHIP: PER SPEC ENG032 0 0 MATERIAL: - 17.000 5.380 18.380 6.920 19.000 7.820 22.380 PROPRIETARY INFORMATION SIDE VIEW NOT TO BE COPIED, USED, TRANSMITTED, OR DISCLOSED WITHOUT 23.000 PRIOR WRITTEN PERMISSION FROM UNIPOWER, LLC. FRONT VIEW FUSE PANEL FUSE ALARM 24GMT, 24/48VDC, 60A MAX SHEET INDEX SH NO SIZE DOC TYPE / NUMBER ISSUE ISSUE 111B-2750-00 REAR VIEW FILE NAME: SCALE: N/A1 OF 2 111B-2750-00 SHT 1 ISS 7

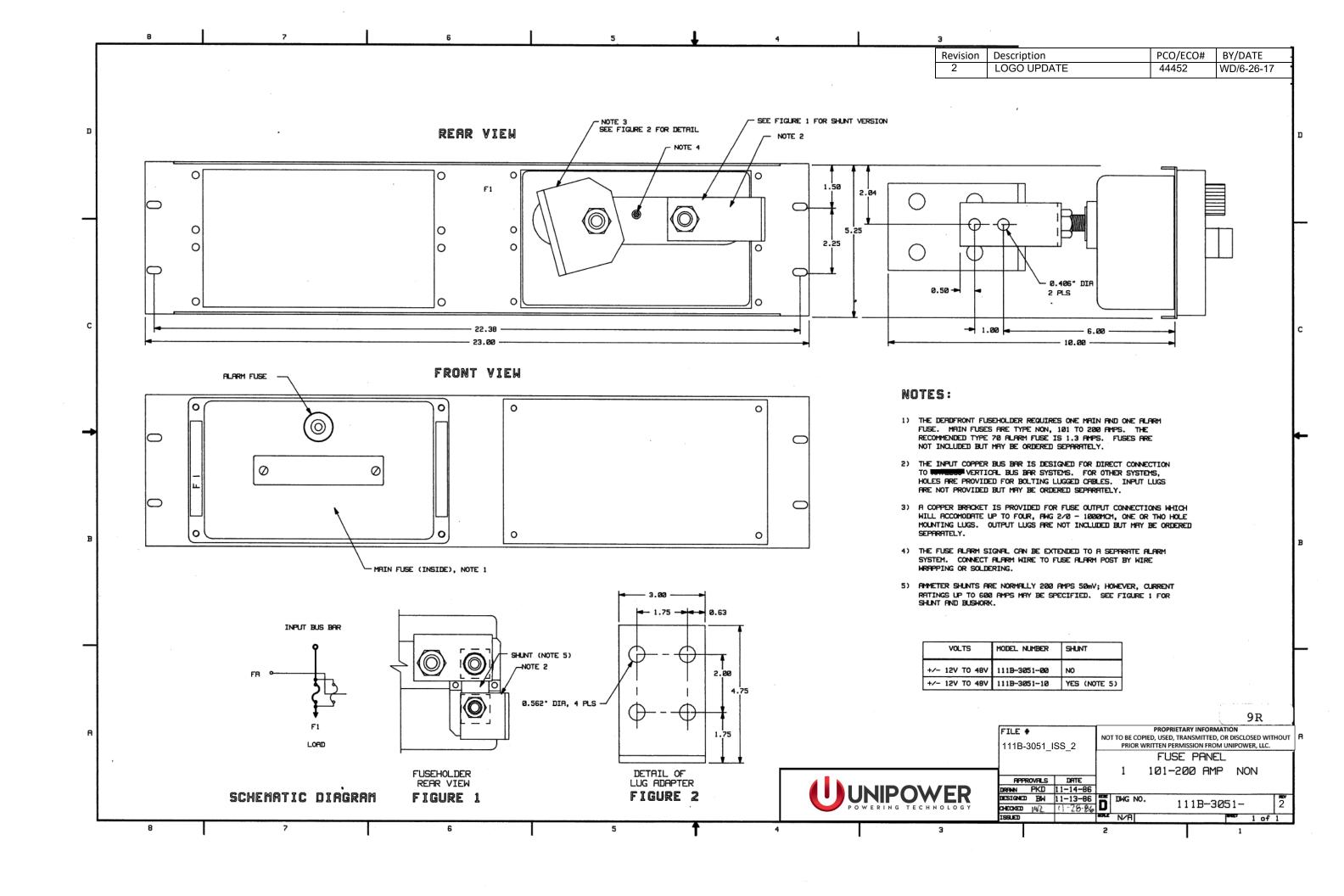


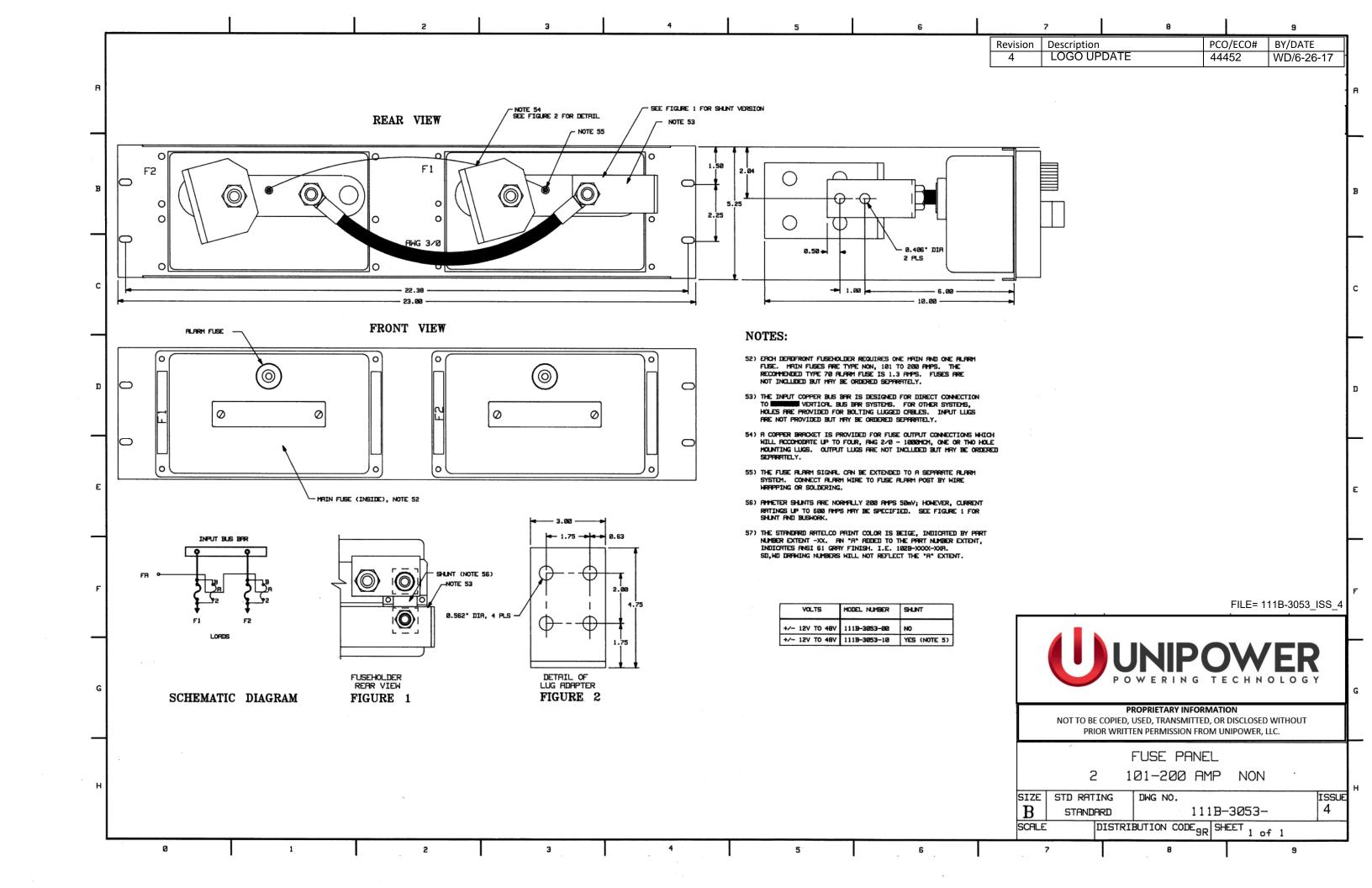


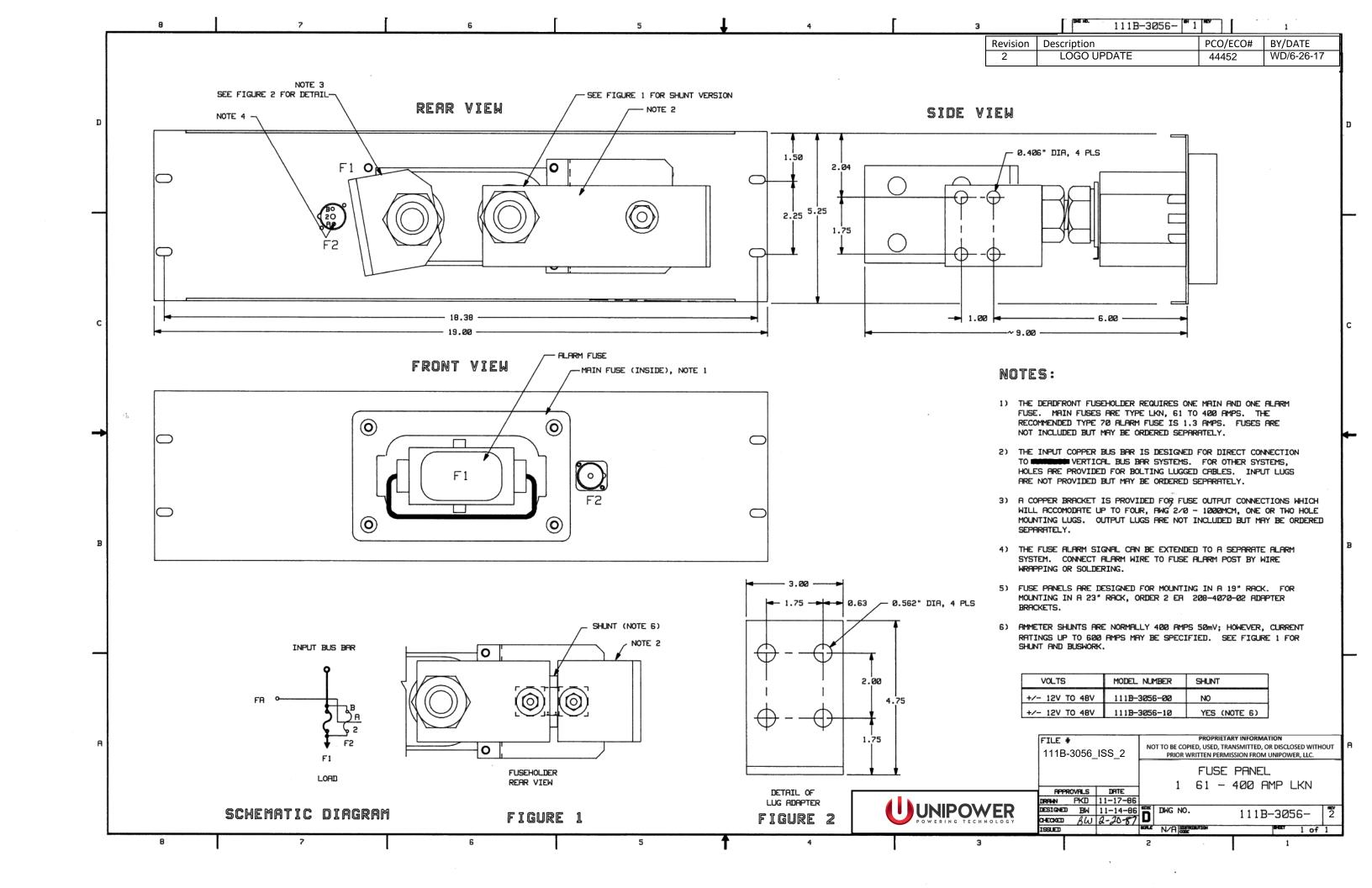


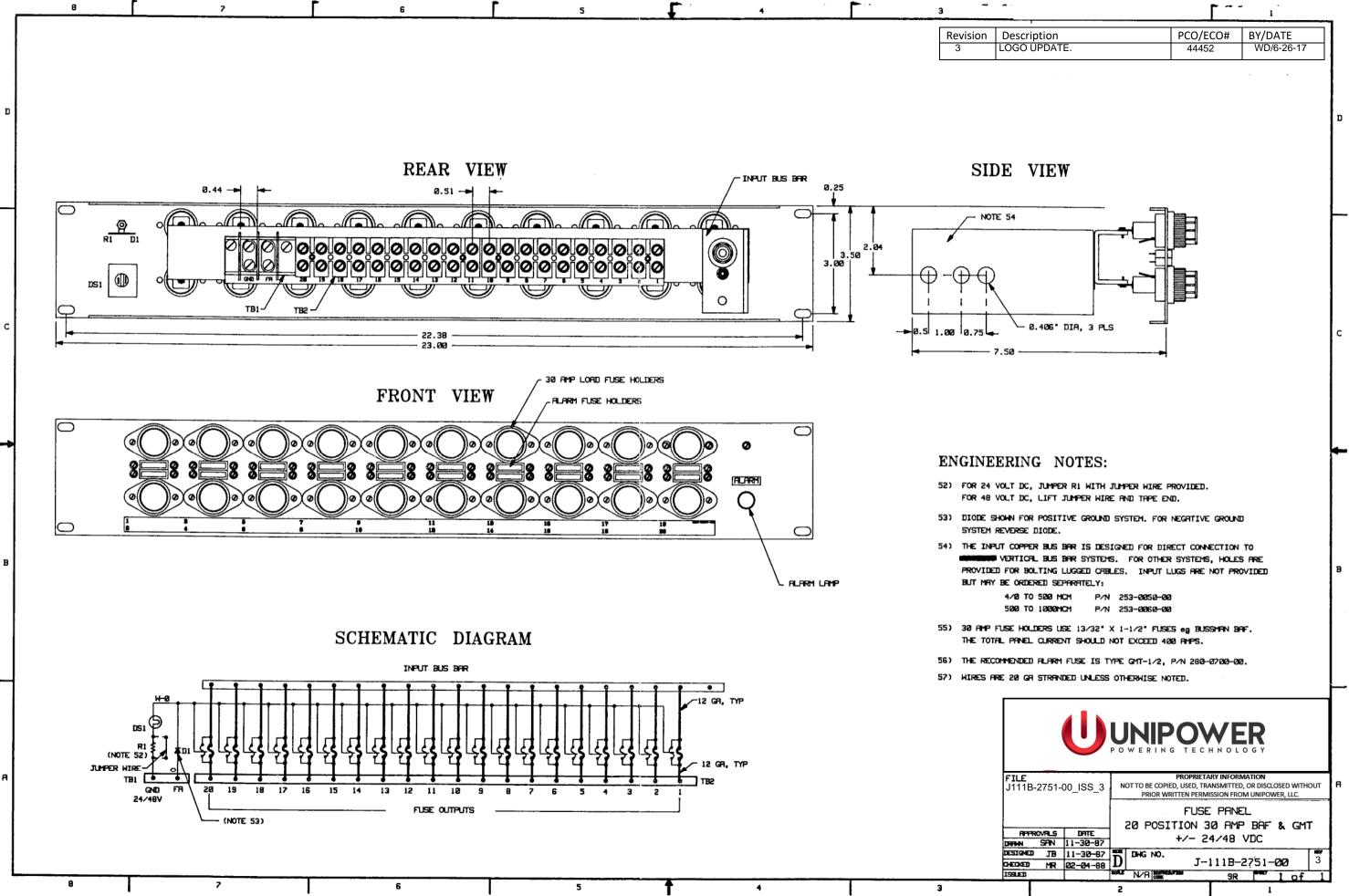


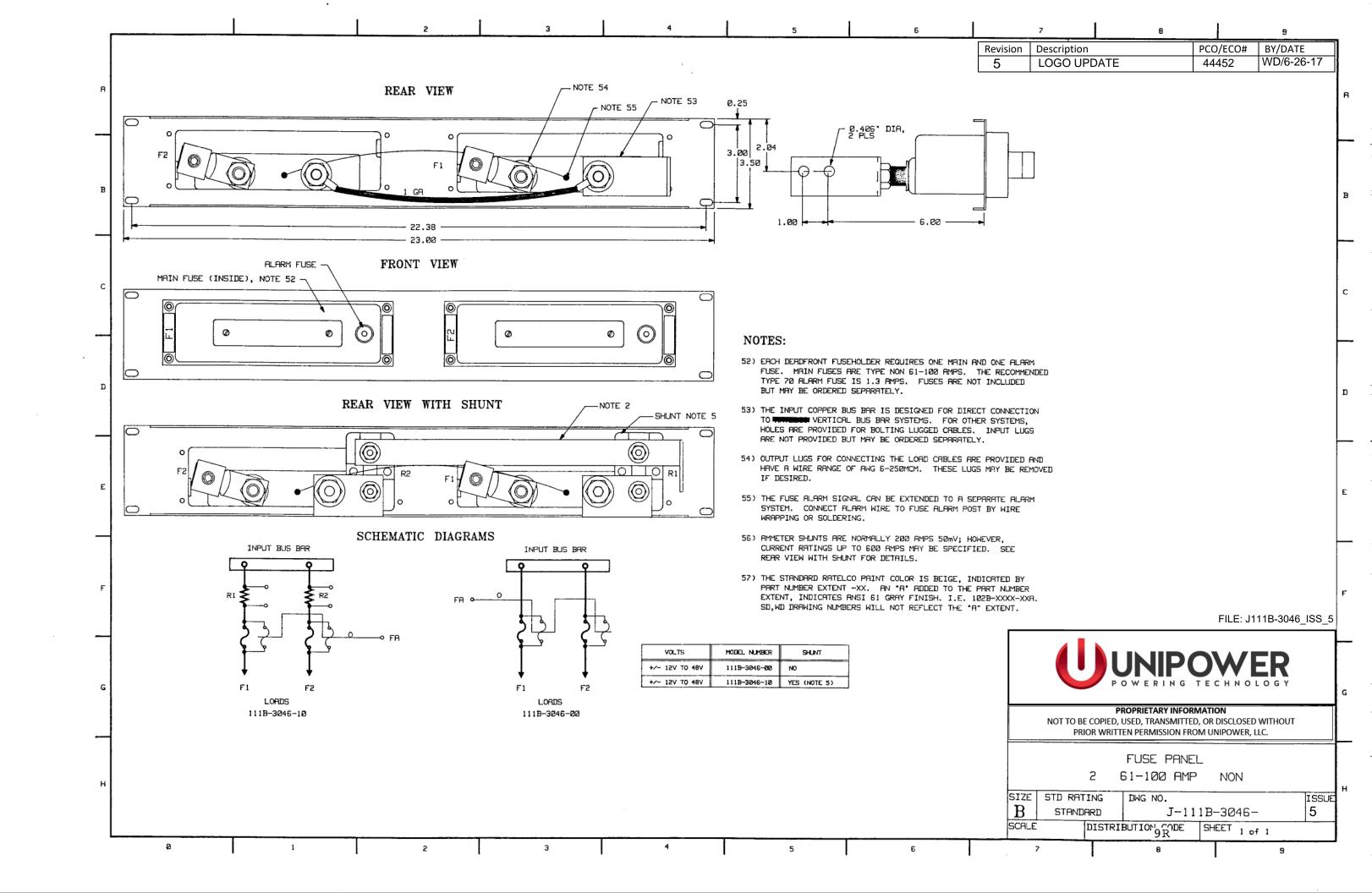












ENGINEERING NOTES:

- 51. STANDARD WIRING IS FOR 48 VDC. FOR 24 VDC, REMOVE SLEEVING FROM JUMPER WIRE, SHORT ACROSS R1 AS SHOWN AND SOLDER BACK. TO CONVERT FROM 24 VDC TO 48 VDC, LIFT JUMPER WIRE AND TAPE END.
- 52. FUSE PANEL CAN BE USED ON POSITIVE OR NEGATIVE GOUNDED SYSTEMS.
- 53. INPUTS A AND B MUST BE SUPPLIED FROM A COMMON SOURCE, 30A MAXIMUM PER SECTION.
- 54. MOUNTING BRACKETS ARE ADJUSTABLE FOR 19" OR 23" RACKS AND SEVERAL PANEL OFFSET DISTANCES.
- 55. RELAY CONTACTS ARE RATED 2 AMP RESISTIVE AT 12-24 VDC, 1 AMP AT 48 VDC AND 0.5 AMP AT 120 VDC.
- 56. PAINT COLOR IS ANSI 61 GRAY.
- 57. ORDER FUSES FROM TABLE A.
- 58. UL RECOGNIZED, FILE E96099.

MANUFACTURING NOTES:

- 101. ALL WIRING IS 20 GA, UNLESS OTHERWISE SPECIFIED.
- 102. LOOP RESISTOR LEAD AS SHOWN, SOLDER WIRE TO LOOP.
- 103. SHEATH LUG ON FREE END OF JUMPER AND TIE WRAP TO WIRE BUNDLE.

TABLE A

IADUU A					
TYPE	"GMT" FUSES				
AMPS	PART NUMBER				
0.5	280-0700-00				
1.33	280-0715-00				
2	280-0735-00				
3	280-0760-00				
5	280-0740-00				
DUMMY	276-0002-00				

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								
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DECIMALS (XXX) ANGLES	±0.010 ±1/2°	APPROVED			
SQUARE CORNERS A		90° UNLESS OTHERWISE SPECIFIED.			
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ISS. BY ISS. DATE

WD

6-26-17

ISSUE

DESCRIPTION

SEE PCO# 44452

3

FILE NAME:

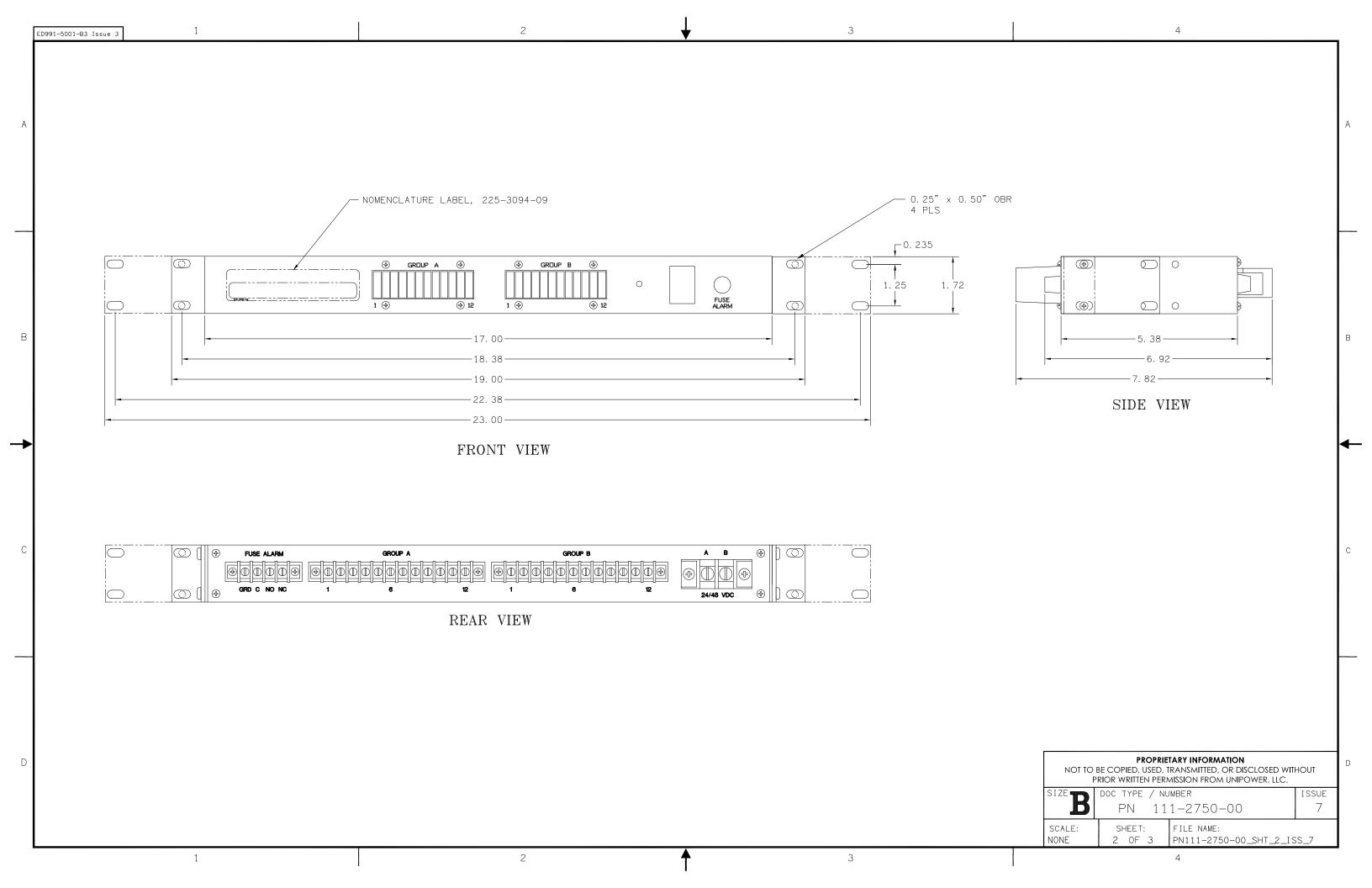
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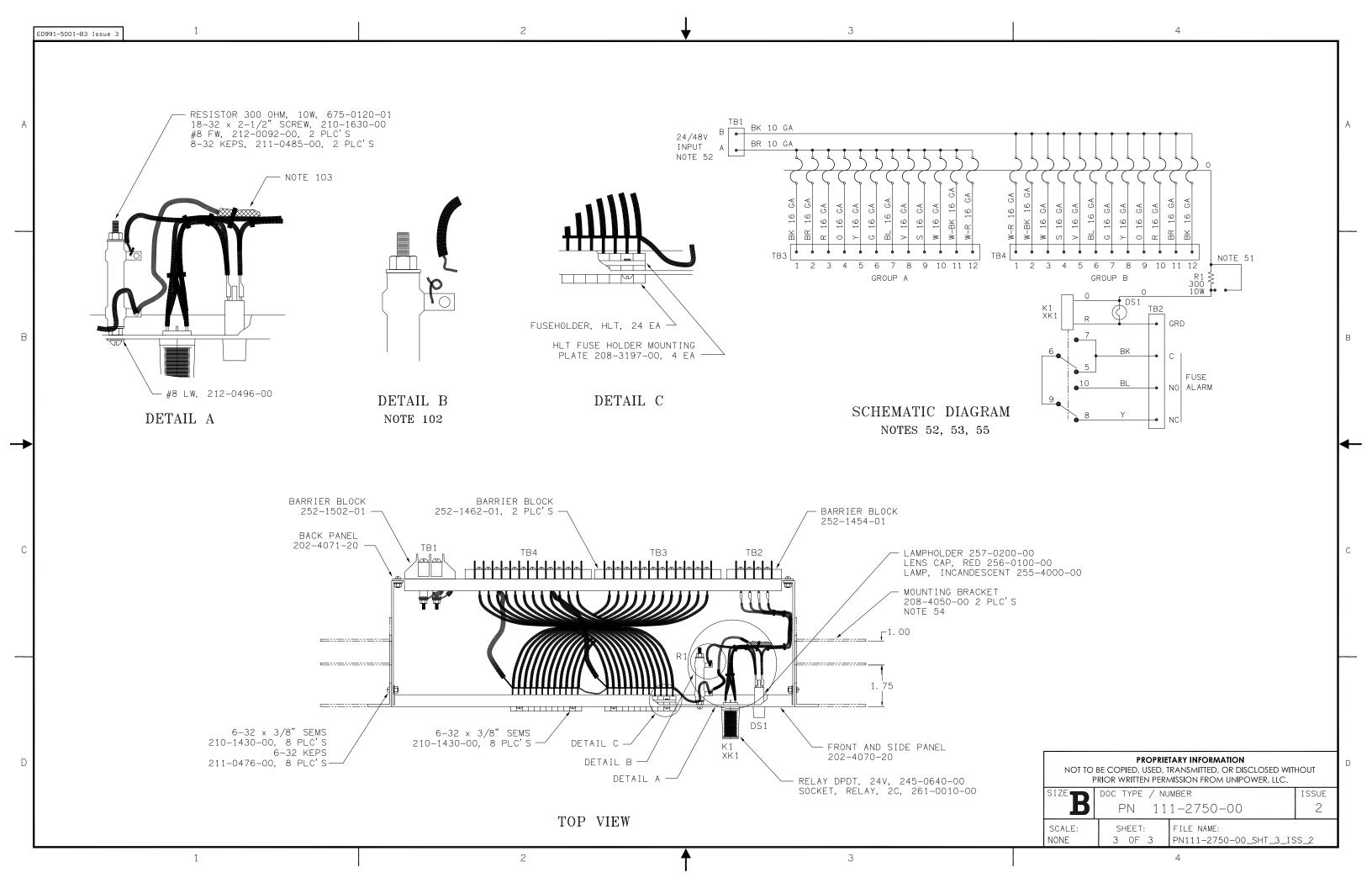
SHEET:

1 OF 3

SCALE:

N/A





ENGINEERING NOTES:

- 51. FUSE PANEL CAN BE USED ON POSITIVE OR NEGATIVE GROUNDED SYSTEMS.
- 52. INPUTS A AND B MUST BE SUPPLIED FROM A COMMON SOURCE, 30A MAXIMUM PER SECTION.
- 53. MOUNTING BRACKETS ARE ADJUSTABLE FOR 19" OR 23" RACKS AND SEVERAL PANEL OFFSET DISTANCES.
- 54. RELAY CONTACTS ARE RATED 2 AMP RESISTIVE AT 12-24 VDC, 1 AMP AT 48 VDC AND 0.5 AMP AT 120 VDC.
- 55. PAINT COLOR IS ANSI 61 GRAY.
- 56. ORDER FUSES FROM TABLE A.

MANUFACTURING NOTES:

101. ALL WIRING IS 20 GA, UNLESS OTHERWISE SPECIFIED.

102. PLACE "12" LABEL AS SHOWN, P/N 225-5010-00.

TABLE A

	IADLE A					
TYPE	"GMT" FUSES					
AMPS	PART NUMBER					
0.5	280-0700-00					
1.33	280-0715-00					
2	280-0735-00					
3	280-0760-00					
5	280-0740-00					
DUMMY	276-0002-00					

SHEET INDEX NOTE:

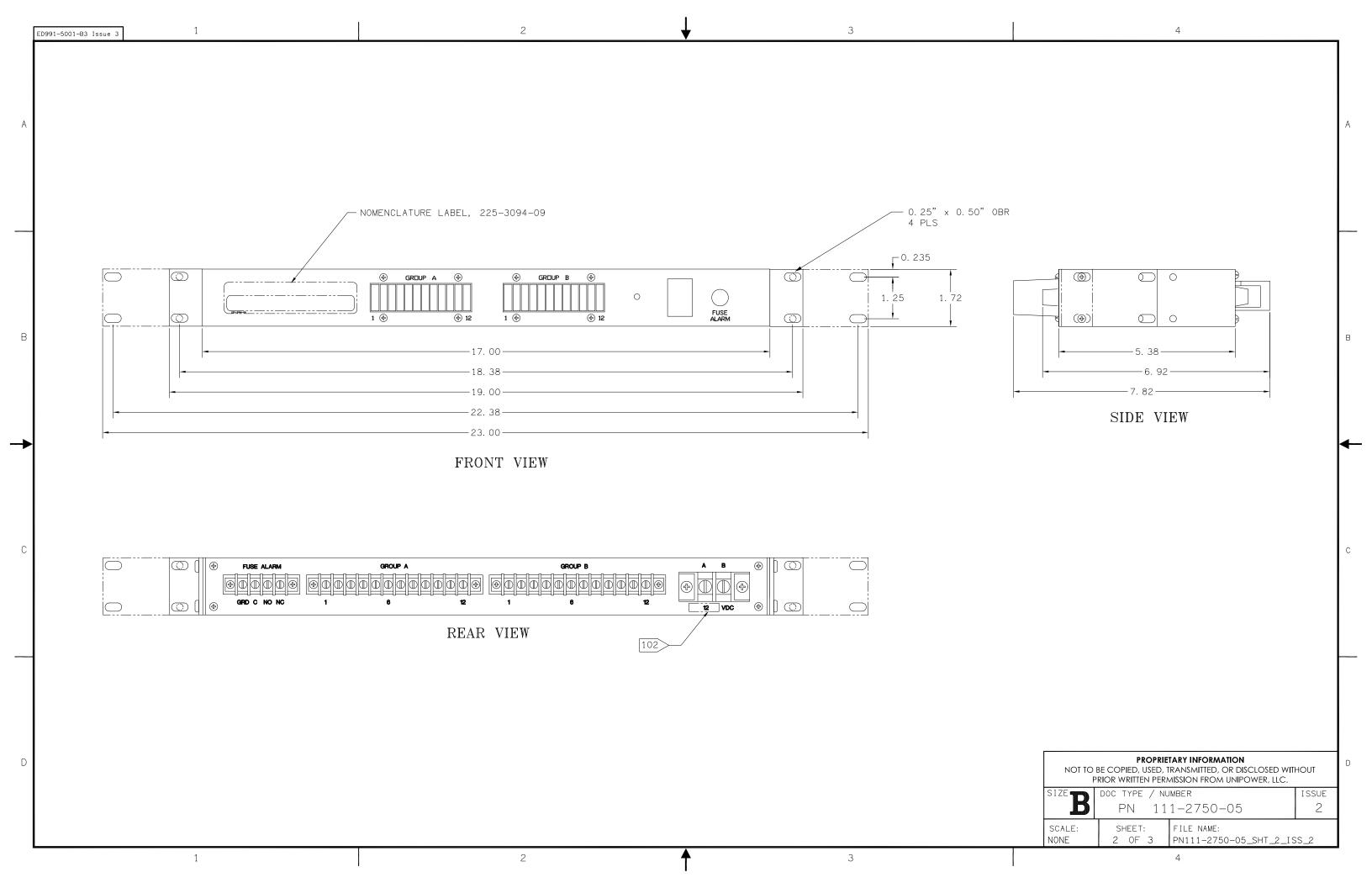
THE ISSUE OF SHEET 1 REFLECTS THE LATEST ISSUE OF THE DRAWING SET. WHEN THE DRAWING SET IS REVISED, ONLY THE ISSUE NUMBERS OF MODIFIED SHEETS ARE CHANGED. THE ISSUE NUMBERS OF UNMODIFIED SHEETS ARE NOT CHANGED.

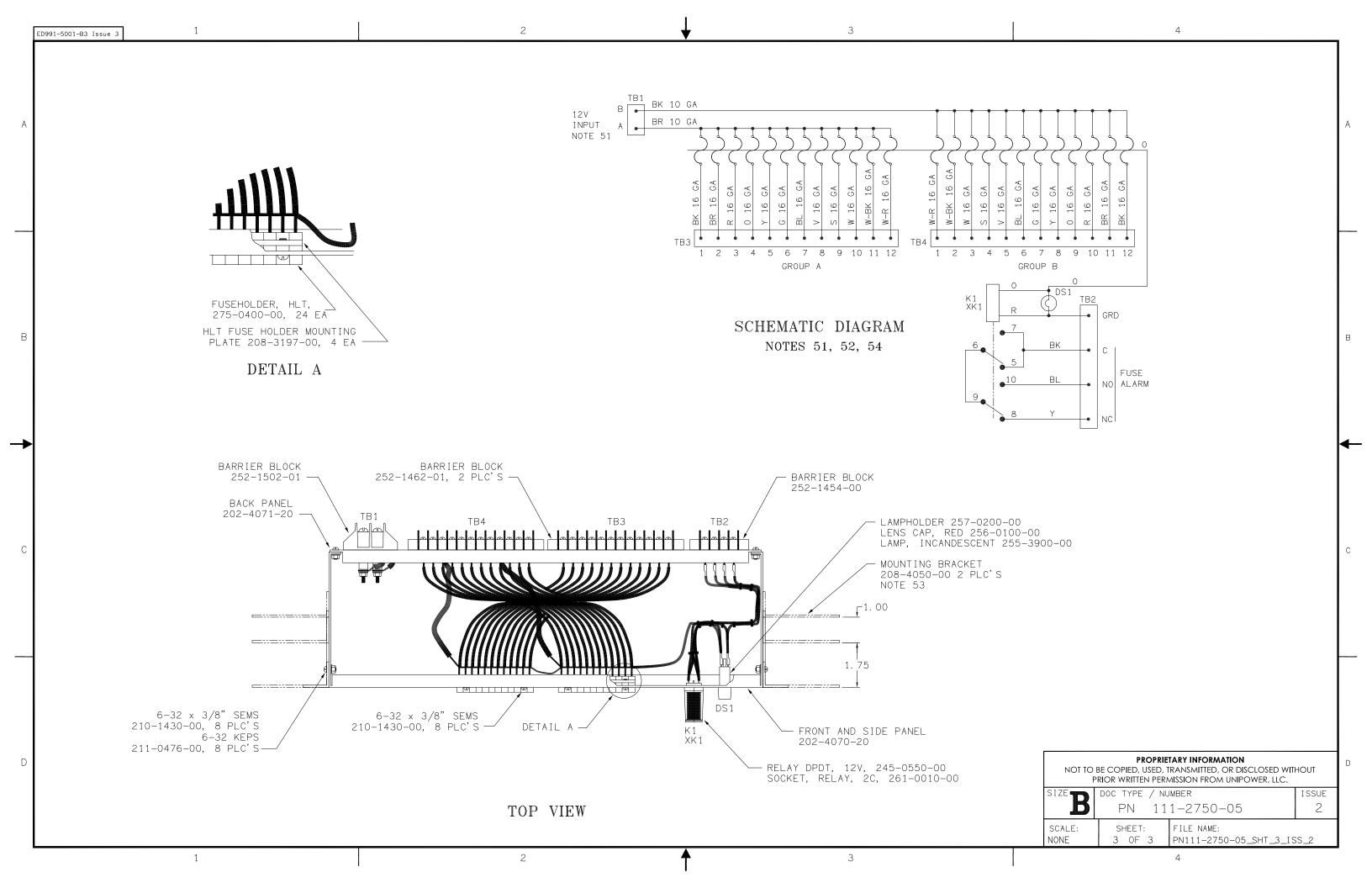
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### SEE PCO# 44452 JUNESS OTHERWISE SPECIFIC O		DESCRIPTION		I				
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UNLESS OTHERWISE SPECIFED DIMENSIONS ARE IN INCHES SAW HOLES	4	SEE PCO# 44452			, 			
UNLESS OTHERWISE SPECIFED DIMENSIONS ARE IN INCHES SHW HOLES -0.002 FRACTIONS ±1/32 BEDWALS (200) ±0.010 APPROVED BW 8/28/85 APPROVED BW 9/5/85 BEDWALS (200) 40.010 APPROVED BW 9/5/85 APPROVED BW 9/5/8				6-26-1	Ι.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES 1 TOLERANCES ON: HOLES -0.004 HOLES -0.002 FRACTIONS ±1/32 DECIMALS (XX) ±0.020 BW 9/5/85 DECIMALS (XX) ±0.010 APPROVED ANGLES ±1/2' SOUARE CORNERS AND ANGLES ARE 90' UNLESS OTHERWISE SPECIFIED. WORKMANSHIP: PER SPEC ENGO32 MATERIAL: FINISH: PROPRIETARY INFORMATION NOT TO BE COPIED, USED, TRANSMITTED, OR DISCLOSED WITHOUT PRIOR WRITTEN PERMISSION FROM UNIPOWER, LLC. FUSE PANEL: 24 GMT, 12 VDC SIZE DOC TYPE / NUMBER PN 111-2750-05 4 SCALE: SHEET: FILE NAME: N/A 1 OF 3 PN111-2750-05_SHT_1_ISS_4					┫^			
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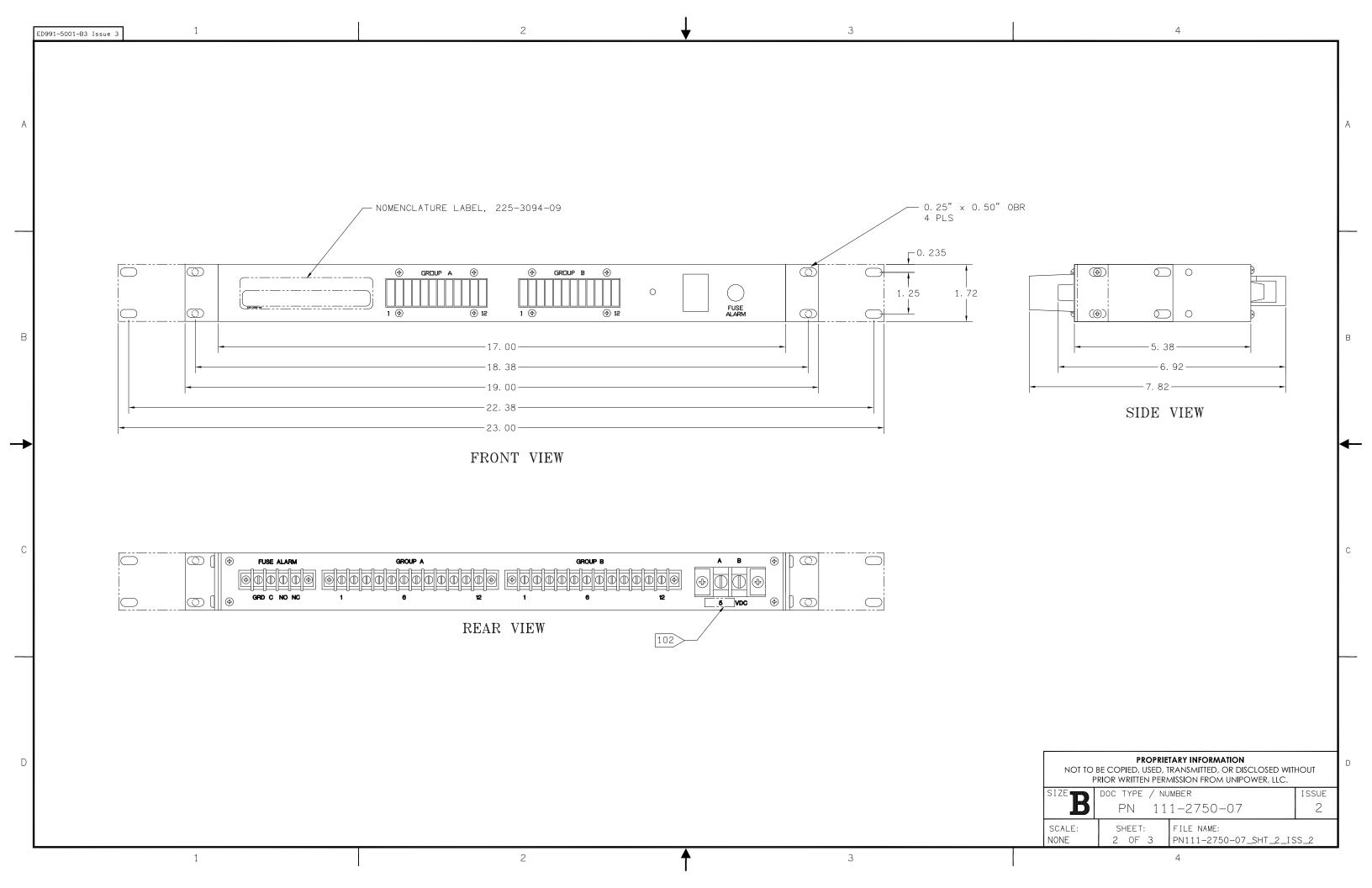


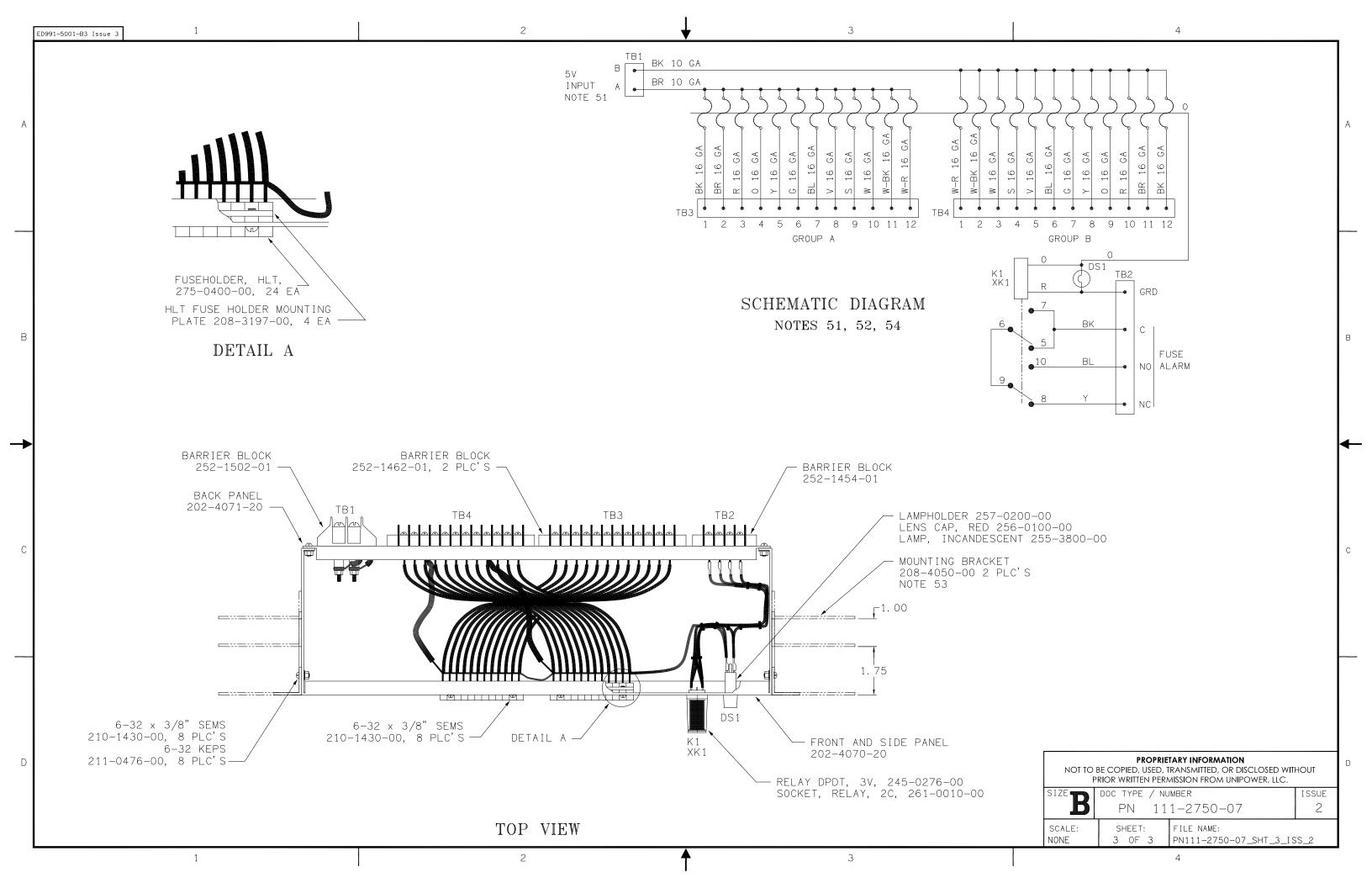


3 ED991-5001-B1 Issue 3 **ISSUES** ISSUE DESCRIPTION ISS. BY ISS. DATE WD 3 SEE PCO# 44452 **ENGINEERING NOTES:** MANUFACTURING NOTES: 6-26-17 51. FUSE PANEL CAN BE USED ON POSITIVE OR NEGATIVE GROUNDED SYSTEMS. 101. ALL WIRING IS 20 GA, UNLESS OTHERWISE SPECIFIED. 52. INPUTS A AND B MUST BE SUPPLIED FROM A COMMON SOURCE, 30A MAXIMUM 102. PLACE "5" LABEL AS SHOWN, P/N 225-5010-00. PER SECTION. 53. MOUNTING BRACKETS ARE ADJUSTABLE FOR 19" OR 23" RACKS AND SEVERAL PANEL OFFSET DISTANCES. 54. RELAY CONTACTS ARE RATED 2 AMP RESISTIVE AT 5-24 VDC. 1 AMP AT 48 VDC AND 0.5 AMP AT 120 VDC. 55. PAINT COLOR IS ANSI 61 GRAY. 56. ORDER FUSES FROM TABLE A. TABLE A UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: APPROVALS DATE TYPE "GMT" FUSES DRAWN MRB 1/16/95 PART NUMBER **AMPS** +0.004 HOLES CHECKED -0.002PKD 1/16/95 0.5 280-0700-00 FRACTIONS ±1/32 APPROVED DECIMALS (XX) ±0.020 1.33 280-0715-00 DECIMALS (XXX) ±0.010 APPROVED 2 280-0735-00 ANGLES ±1/2° SQUARE CORNERS AND ANGLES ARE 90° UNLESS OTHERWISE SPECIFIED. 3 280-0760-00 WORKMANSHIP: PER SPEC ENG032 280-0740-00 MATERIAL: DUMMY 276-0002-00 FINISH: SHEET INDEX NOTE: PROPRIETARY INFORMATION NOT TO BE COPIED, USED, TRANSMITTED, OR DISCLOSED WITHOUT THE ISSUE OF SHEET 1 REFLECTS THE LATEST ISSUE PRIOR WRITTEN PERMISSION FROM UNIPOWER, LLC. 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 FUSE PANEL: 24 GMT, 5 VDC SIZE DOC TYPE / NUMBER ISSUE PN 111-2750-07 3 SCALE: FILE NAME: SHEET: 1 OF 3 N/A PN111-2750-07_SHT_1_ISS_3

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ISSUES

DESCRIPTION ISS. BY ISS. DATE

3 SEE PCO# 44452 WD

6/26/17

- 102. PROPER BUS BAR ARRANGEMENT IS CRITICAL, SEE FIGURE B1, SHEET 3.
 - 103. PUT SUPPLIED OUTPUT LUGS ANDFUSE HOLDER DESIGNATION TAGS IN A BAG AND TIE WRAP TO THE INPUT BUS BAR.
 - 104. [] DENOTES THAT THE INFORMATION IS FOR REFERENCE ONLY.

101. REPLACE THE BOLTS SUPPLIED WITH THE SHUNT WITH 3/8"-16 x

MANUFACTURING NOTES:

3/4" BOLTS, P/N 210-8128-00.

- 105. A COMPOUND SUCH AS CRAMOLIN 81Rh WILL BE APPLIED TO ALL JOINTED, FLAT, CONDUCTIVE SURFACES PER THE MANUFACTURER'S INSTRUCTIONS.
- 106. INSTALL DUMMY FUSE P/N 276-0001-00 IN ALARM FUSE HOLDERS ON XF1-6.

		TABLE A		
PART NUMBER	VOLTAGE	E/W SHUNT	E/W FA BOARD	FIGURES
111-3012-13	±24	NO	YES	C2
111-3012-14	-48 or ± 130	YES	YES	C1

ENGINEERING NOTES:

- 51. UNASSIGNED
- 52. EACH DEADFRONT FUSE HOLDER REQUIRES ONE MAIN AND ONE ALARM FUSE. MAIN FUSES ARE TYPE NON OR TYPE TPN 0-30 AMPS. THE RECOMMENDED TYPE 70 ALARM FUSE IS 0.5 AMPS. FUSES ARE NOT INCLUDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0009-00.
- 53. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO VERTICAL BUS BAR SYSTEM AND IS RATED FOR 400 AMPS MAX. FOR OTHER SYSTEMS HOLES ARE PROVIDED FOR BOLTING LUGGED CABLES. INPUT LUGS ARE NOT PROVIDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0002-00.
- 54. LUGS FOR OUTPUT CPNNECTION MAY BE ATTACHED DIRECTLY TO FUSE-HOLDER STUDS. STUDS ARE 1/4"-20, WITH HARDWARE PROVIDED. LUGS ARE NOT PROVIDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-
- 55. A FUSE ALARM SIGNAL CAN BE EXTENDED TO A SEPARATE ALARM SYSTEM. CONNECT THE ALARM LEAD TO THE "FA+OUT" TERMINAL. IN NEGATIVE SYSTEMS. FUSE ALARM SIGNALS CONNECT "BAT" TO THE ALARM CONNECTION WHEN A FUSE CLEARS.
- 56. AMMETER SHUNTS ARE NORMALLY 200 AMPS 50mV; HOWEVER, CURRENT RATINGS UP TO 600 AMPS MAY BE SPECIFIED.
- 57. PAINT COLOR IS ANSI 61 GRAY.
- 58. THE MAXIMUM RECOMMENDED OUTPUT WIRE SIZE IS 6 GA. LARGER WIRE SIZES WILL REQUIRE ADDITIONAL RACK SPACES AND CABLE SUPPORTS.
- 59. BUBBLE REFERENCE DESIGNATORS REFER TO CALLOUT TABLE LINE NUMBER, SHEET 4.
- 60. UNITS NOT EQUIPPED WITH A SHUNT DO NOT HAVE R1. UNITS NOT EQUIPPED WITH A FUSE ALARM ASSEMBLY DO NOT HAVE A1.

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.

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ISSUE	3	2	2	2		

UNLESS OTHEI SPECIFIED DIME		APPROVALS	DATE
ARE IN INCHES ± TOLERANCES ON:		DRAWN TET	9/9/93
OLES	+0.004 -0.002	CHECKED	, , ,
RACTIONS	±1/32	APPROVED	
ECIMALS (XX)	±0.020	PKD	9/21/93
ECIMALS (XXX)	±0.010	APPROVED	, ,
NGLES	±1/2°		
QUARE CORNERS AND	ANGLES ARE 9	O' UNLESS OTHERWISE SPECIFIED.	

WORKMANSHIP: PER SPEC ENG032 MATERIAL:

FINISH:

ISSUE

PROPRIETARY INFORMATION

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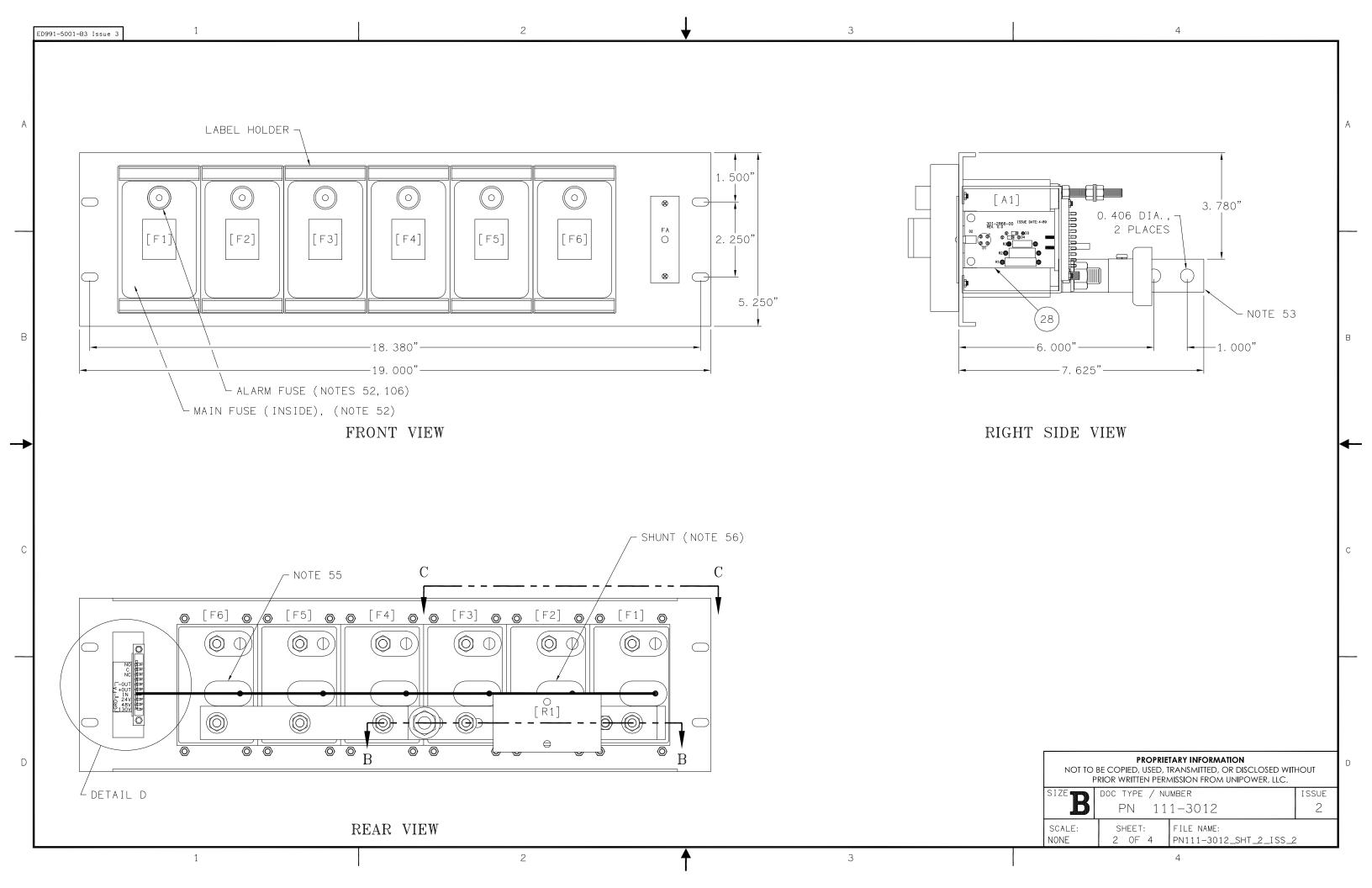


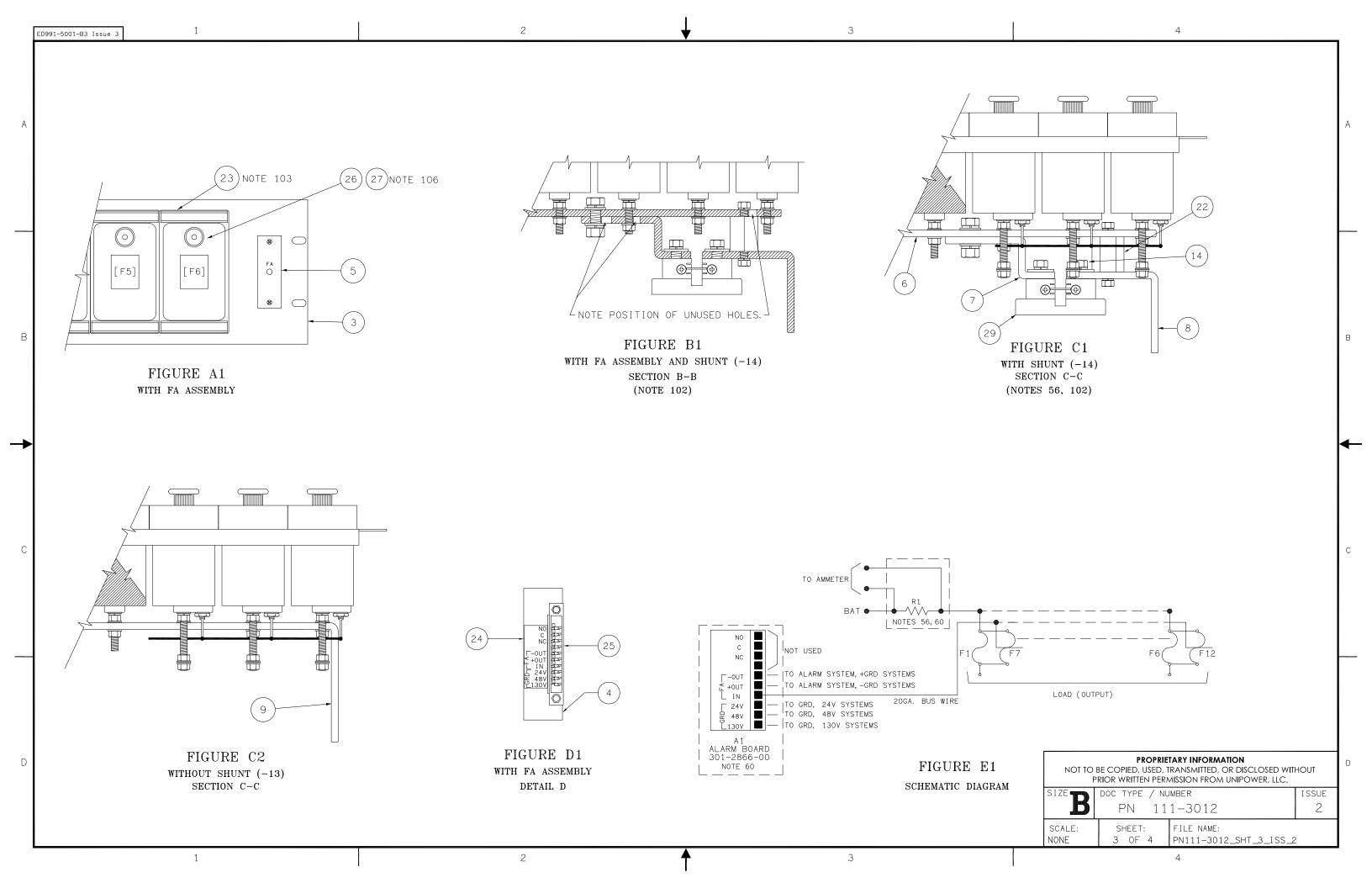
FUSE PANEL 6, 0-30 AMP NON/TPN

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SIZE	DOC TYPE / NU	MBER	ISSUE		
	PN 111-3012				
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CALLOUT TABLE 111-3012-

LINE #	NOTES	DESCRIPTION	PART NUMBERS	QUANTITY -13	QUANTITY -14
1		SLEEVING, TEFLON TW, CLR, #8	032-0110-00	24"	24"
		WIRE, BUS: 20 GA TINNED	050-6250-00	24"	24"
		FUSE PANEL: 6 30/60A 19" E/W ALARM	202-7010-01	1	1
		BKT: CONNECTOR BKT, 10 POSITION	208-5152-00	1	1
5		BKT: FRONT ACCESS BKT, FA BOARD, SS	208-5152-10	1	1
		BUS BAR: FUSE PANEL, 6 30/60A 19"	209-4260-21	_	1
		BUS BAR: FUSE TO SHUNT, 8 30/60A	209-4261-00	_	1
		BUS BAR: FUSE PANEL, INPUT TO SHUNT 8 30/60A	209-4262-00	_	1
		BUS BAR: SHIFTED, W/O SHUNT, 6 POS, 19" PNL	209-4266-01	1	_
10		SCREW: SS, HEX HD. 5/16-18 x 1"	210-1288-00	_	1
		SCREW: STL, MS, 4-40 x 5/8" PHIL P. HD.	210-1330-00	2	2
		SCREW: STL, MS, SEMS, 6-32 x 3/8 PHIL P/HD	210-1430-00	2	2
		SCREW: STL IND HEX HD SEMS, 1/4 x1/2", ZINC	210-7004-01	_	2
		BOLT, HEX, SIL, BRONZE: 3/8-16 x 3/4"	210-8128-00	_	2
15		NUT, HEX STL: 4-40, ZINC, "KEPS"	211-0466-00	8	8
		NUT, HEX STL: 6-32, ZINC, 5/16" AF "KEPS"	211-0476-00	24	24
		NUT, HEX SS: 3/8-16	211-0533-00	_	1
		LOCKWASHER, SHKPF: 1/4 INTERNAL	212-0500-00	6	6
		LOCKWASHER: DISH, STL, SHKPF, #6	212-0501-05	1	1
20		WASHER, FLAT SS: 3/8" US "STD"	212-2518-00	_	2
		WASHER, BELLEVILLE, SS: 3/8 x . 750"	212-5758-00	_	2
		*SPACER: HEATSINK, HEX FIBERGLASS, 1.25" GLASTIC	213-1410-00	_	1
		LABEL: FUSE 1 THRU FUSE 12 NON 1-60A FUSE	225-3100-411	1	1
		LABEL: GRD, FA IN, FA OUT, FORM C, CB CONN	225-3100-435	1	1
25		CONN., PCB: 10 PIN SOLDER EYE, 307-010-501-104	265-0010-00	1	1
		*FUSE HOLDER: 30AMP 64-L1	275-1300-00	6	6
		FUSE "DUMMY": TYPE 70	276-0001-00	6	6
		ALARM BOARD: FA 24,48,130VDC W/O RELAY	301-2866-00	1	1
		RES, SHUNT: METER, 200A 50MV	695-1080-03	_	1
30					

PROPRIETARY INFORMATION

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PN 111-3012 FILE NAME:

ISSUE

SCALE: NONE

4 OF 4

PN111-3012_SHT_4_ISS_2

В

ISSUES

ENGINEERING NOTES

- 51. EACH TYPE NON/TPN FUSE HOLDER REQUIRES ONE MAIN AND ONE ALARM FUSE. MAIN FUSES ARE TYPE NON OR TPN 0-30 AMPS. THE RECOMMENDED TYPE 70 ALARM FUSE IS 0.5 AMPS. EACH TYPE 70 FUSE HAS A BUILT IN ALARM INDICATOR. FUSES ARE NOT INCLUDED, BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0009-00.
- 52. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO VERTICAL BUS BAR SYSTEMS AND RATED FOR 200 AMPS MAX. FOR OTHER SYSTEMS, HOLES ARE PROVIDED FOR BOLTING LUGGED CABLES. INPUT LUGS ARE NOT PROVIDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0002-00.
- 53. LUGS FOR OUTPUT CONNECTION MAY BE ATTACHED DIRECTLY TO NON/TPN FUSE HOLDER STUDS. STUDS ARE 1/4"-20, WITH HARDWARE PROVIDED. OUTPUT LOAD WIRES CAN BE CONNECTED DIRECTLY TO TYPE 70 OUTPUT POSTS BY WIRE WRAPPING OR SOLDERING. LUGS ARE NOT SUPPLIED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0002-00.
- 54. A FUSE ALARM SIGNAL CAN BE EXTENDED TO A SEPARATE ALARM SYSTEM. CONNECT THE ALARM LEAD TO THE "FA-OUT" TERMINAL ON XA1, IN POSITIVE GROUND SYSTEMS OR TO THE "FA+OUT" TERMINAL, IN NEGATIVE SYSTEMS. FUSE ALARM SIGNALS CONNECT "BAT" TO THE ALARM CONNECTION WHEN A FUSE CLEARS. A FUSE ALARM ASSEMBLY EQUIPPED WITH AN ALARM RELAY IS AVAILABLE. ORDER PER EQUIPMENT DRAWING ED991-0009-00.
- 55. AMMETER SHUNTS ARE NORMALLY 200 AMPS 50mV; HOWEVER, CURRENT RATINGS UP TO 600 AMPS MAY BE SPECIFIED. SEE FIGURE A1, SECTION A—A FOR SHUNT AND BUSWORK DETAILS.
- 56. PAINT COLOR IS ANSI 61 GRAY.
- 57. THE MAXIMUM RECOMMENDED OUTPUT WIRE SIZE IS 6 GA. LARGER WIRE SIZES WILL REQUIRE ADDITIONAL RACK SPACES AND CABLE SUPPORTS.
- 58. BUBBLE REFERENCE DESIGNATORS REFER TO CALLOUT TABLE LINE NUMBER, SHEET 4.
- 59. UNITS NOT EQUIPPED WITH A SHUNT DO NOT HAVE R1.

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.

MANUFACTURING NOTES

- 101. REPLACE THE BOLTS SUPPLIED WITH THE SHUNT WITH $3/8"-16 \times 3/4"$ BOLTS, P/N 210-8128-00.
- 102. PUT SUPPLIED OUTPUT LUGS AND FUSE HOLDER DESIGNA—
 TION LABELS IN A BAG AND TIE WRAP TO THE INPUT BUS BAR.
- 103. [] DENOTES THAT THE INFORMATION IS FOR REFERENCE ONLY.
- 104. A COMPOUND SUCH AS CRAMOLIN 81Rh WILL BE APPLIED TO ALL JOINTED, FLAT, CONDUCTIVE SURFACES PER THE MANU-FACTURER'S INSTRUCTIONS.
- 105. INSTALL DUMMY FUSE P/N 276-0001-00 IN ALARM FUSE HOLDERS ON XF1-4.

TABLE B					
PART NUMBER	VOLTAGE	E/W SHUNT	FIGURES		
111-3017-00	+24 or -48	NO	A2		
111-3017-10	T24 01 -40	YES	A1		

ISSUE #	DESCRIPTION			ISS. BY ISS. DATE	
5	SEE PCO# 44452			WD 6-26-17	١.
					A
					E
SF	JNLESS OTHERWISE PECIFIED DIMENSIONS ARE IN INCHES	APPROVALS DRAWN		DATE	•
±	TOLERANCES ON: +0.004	MRB	9,	/3/92	

SQUARE CORNERS AND ANGLES ARE 90° UNLESS OTHERWISE SPECIFIED.

WORKMANSHIP:
PER SPEC ENGO32

MATERIAL:

FINISH:

PROPRIETARY INFORMATION

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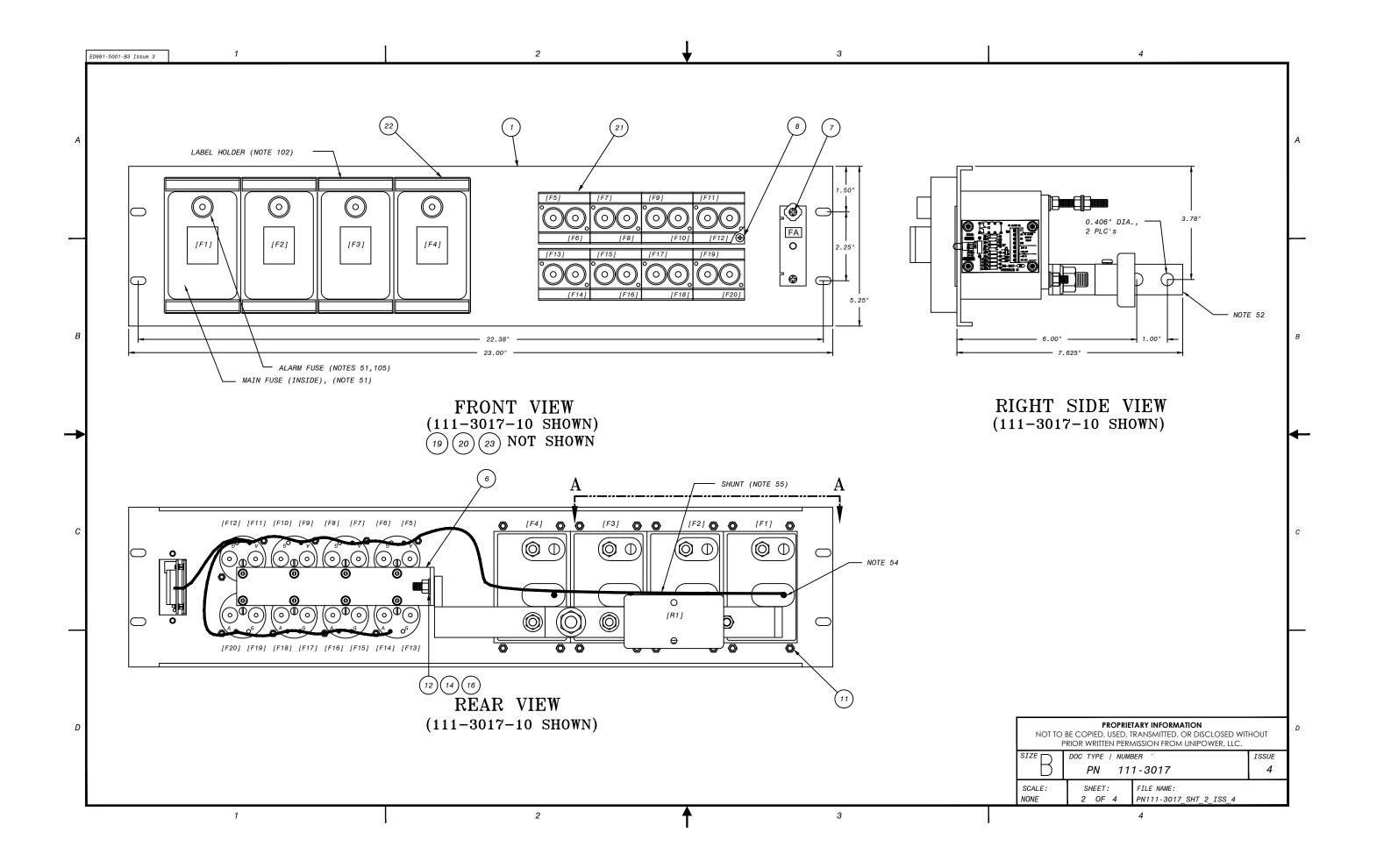


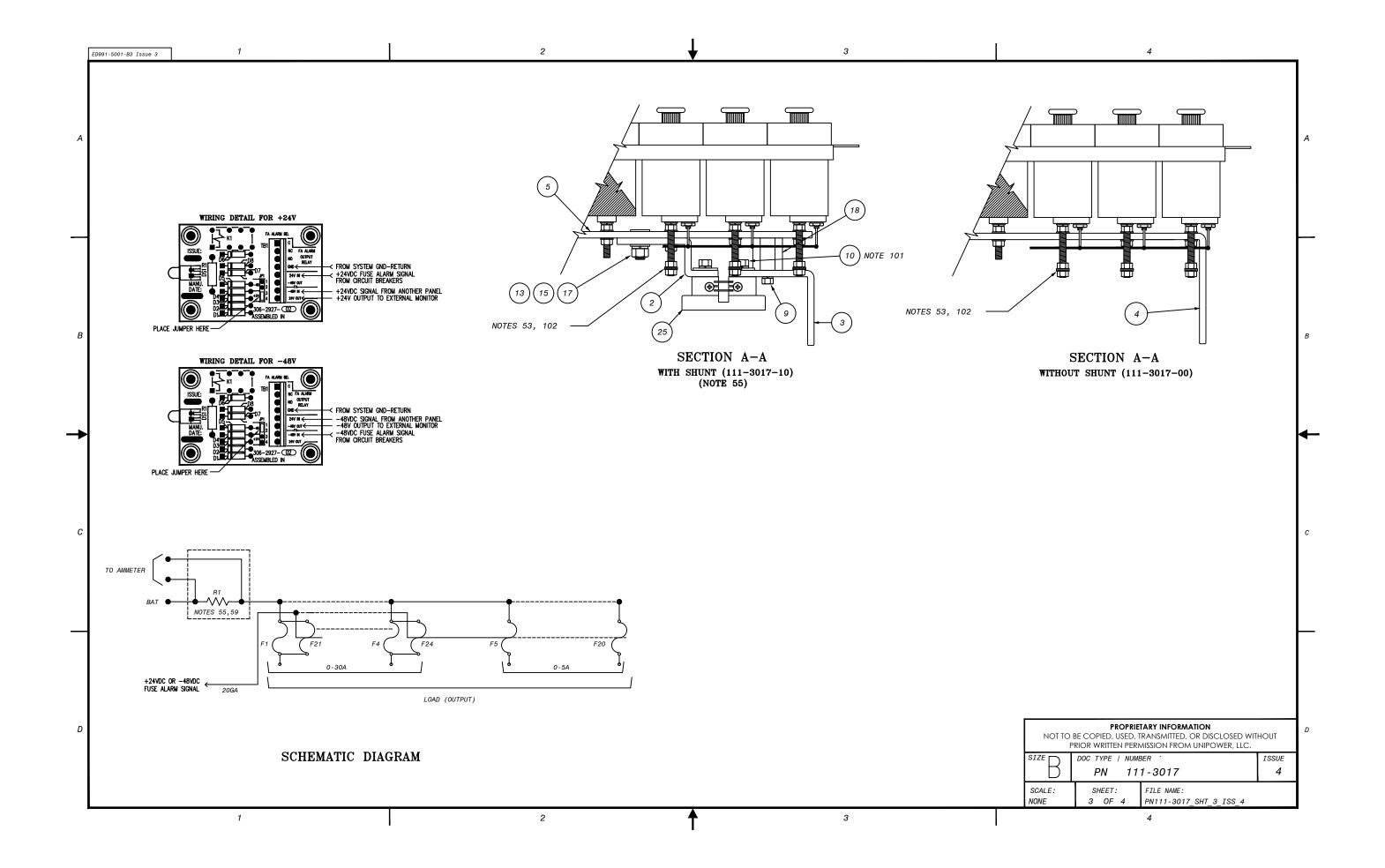
FUSE PANEL
4, 30A NON/TPN,
16 TYPE 70. 23"

	10 111	L 70, 20	
SIZE	DOC TYPE / NU	MBER	ISSUE
B [PN 111	-3017	5
SCALE: N/A		FILE NAME: PN111-3017_SHT_1_ISS_5	

SHEET INDEX

SH NO	1	2	3	4		
ISSUE	5	4	4	2		





CALLOUT LIST 111-3017-

				QUANTITY	QUANTITY
LINE #	NOTES	DESCRIPTION	PART NUMBERS	-00	-10
1		FUSE PANEL: 4 NON, 8 DUAL TYPE 70, FA, 5.25" x 23"	202-7017-00	1	1
		BUS BAR: FUSE TO SHUNT, 8, 30/60A	209-4261-00	-	1
		BUS BAR: FUSE PANEL, INPUT TO SHUNT	209-4262-00	-	1
		BUS BAR: 4 NON INPUT	209-4475-01	1	-
5		BUS BAR: 4 NON	209-4476-01	-	1
		BUS BAR: DUAL TYPE 70 INPUT, 4 EA SIDE	209-4477-00	1	1
		SCREW: STL, SEMS, 6-32 x 3/8" PHIL P/HD	210-1430-00	2	2
		SCREW: STL, SEMS, 6-32 x 1/2" PHIL P/HD	210-1450-01	16	16
		SCREW: STL, IND HEX HD SEMS, 1/4 x 1/2", ZINC	210-7004-01	-	1
10		BOLT, HEX, SIL, BRONZE: 3/8-16 x 3/4"	210-8128-00	-	2
		NUT, HEX STL: 6-32, 5/16", KEPS	211-0476-00	16	16
		NUT, HEX SS: 1/4-20	211-0531-00	1	1
		NUT, HEX SS: 3/8-16	211-0533-00	-	1
		WASHER, FLAT SS: 1/4" US STD	212-2516-00	1	1
15		WASHER, FLAT SS: 3/8" US STD	212-2518-00	-	1
		WASHER, BELLEVILLE, SS: 1/4 x .500"	212-5754-00	1	1
		WASHER, BELLEVILLE, SS: 3/8 x .750"	212-5758-00	-	1
		SPACER: HEATSINK, HEX FIBREGLASS, 1.25"	213-1410-00	-	1
	102	LABEL: 1-22 TYPE 70	225-3100-407	1	1
20	102	LABEL: FUSE 1 THRU FUSE 12	225-3100-411	1	1
		FUSE HOLDER: DUAL-70	275-0600-00	8	8
		FUSE HOLDER: 30 AMP	275-1300-00	4	4
	105	FUSE "DUMMY": .25" x 1.25" TYPE 70	276-0001-00	16	16
		ASSY: ALARM BOARD, BKT, LABEL, FOR FA	385-5152-00	1	1
25	59	RES, SHUNT: METER, 200A 50mV	695 - 1080 - 03	-	1
30					

4 OF 4

NONE

PROPRIETARY INFORMATION

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DOC TYPE / NUMBER PN 111-3017 2 SCALE: FILE NAME: SHEET:

PN111-3017_SHT_4_ISS_2

ENGINEERING NOTES:

- 51. PAINT COLOR IS ANSI 61 GRAY.
- 52. EACH DEADFRONT FUSEHOLDER REQUIRES ONE MAIN AND ONE ALARM FUSE. MAIN FUSES ARE TYPE TPL, 61 TO 400 AMPS. THE RECOMMENDED TYPE 70 ALARM FUSE IS 0.5 AMPS. FUSES ARE NOT INCLUDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0009-00.
- 53. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO VERTICAL BUS BAR SYSTEMS. FOR OTHER SYSTEMS. HOLES ARE PROVIDED FOR BOLTING LUGGED CABLES, INPUT LUGS ARE NOT PROVIDED BUT MAY BE ORDERED SEPARATELY.
- 54. THE OUTPUT COPPER BUS BAR IS DESIGNED FOR BOTH, BELL STANDARD LUGS, 1" CENTER TO CENTER SPACING WITH 3/8" HARDWARE AND NEMA STANDARD LUGS, 1-3/4" CENTER TO CENTER SPACING WITH 1/2" HARDWARF.
- 55. AMMETER SHUNTS ARE NORMALLY 400 AMPS 50mV: HOWEVER. OTHER CURRENT RATINGS MAY BE SPECIFIED. SEE REAR VIEW WITH SHUNT FOR DETAILS.
- 56. NON FA VERSIONS DO NOT INCLUDE A1.
- 57. NON SHUNTED VERSIONS DO NOT INCLUDE R1 OR R2.
- 58. BUBBLE REFERENCE DESIGNATORS REFER TO CALLOUT TABLE LINE NUMBER.
- 59. SOLDER ALARM CONNECTIONS. USE 20 GA. MINIMUM.
- 60. SELECT FUSE PANEL FROM TABLE A.

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.

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 AS PER THE MANUFACTURER'S INSTRUCTIONS.
- 102. APPLY HEAT SHRINK SO THAT FA TERMINAL AND EXPOSED WIRE ARE COVERED TO PREVENT ELECTRICAL SHORTING.
- 103. INSTALL DUMMY FUSES (276-0001-00) IN XF3-4.
- 104. REPLACE BOLT SUPPLIED WITH SHUNT WITH 3/8"-16 X 3/4" BOLTS. (210-8128-00). USE WASHERS SUPPLIED WITH SHUNT.
- 105. ALL WIRES ARE 20 GA UNLESS OTHERWISE NOTED.
- 106. SECURE ALL BUSSES AT A 45° ANGLE, AS SHOWN.

TABLE A										
PART NUMBER	VOLTAGE	SHUNT	FUSE ALARM	RATING						
111B-3063-00	±12 TO 130 VDC			MD						
111B-3063-01	±24,48,OR 130 VDC		YES	STD						
111B-3063-10	±12 TO 130 VDC	400A		MD						
111B-3063-11	±24,48,OR 130 VDC	400A	YES	STD						

SHEET INDEX

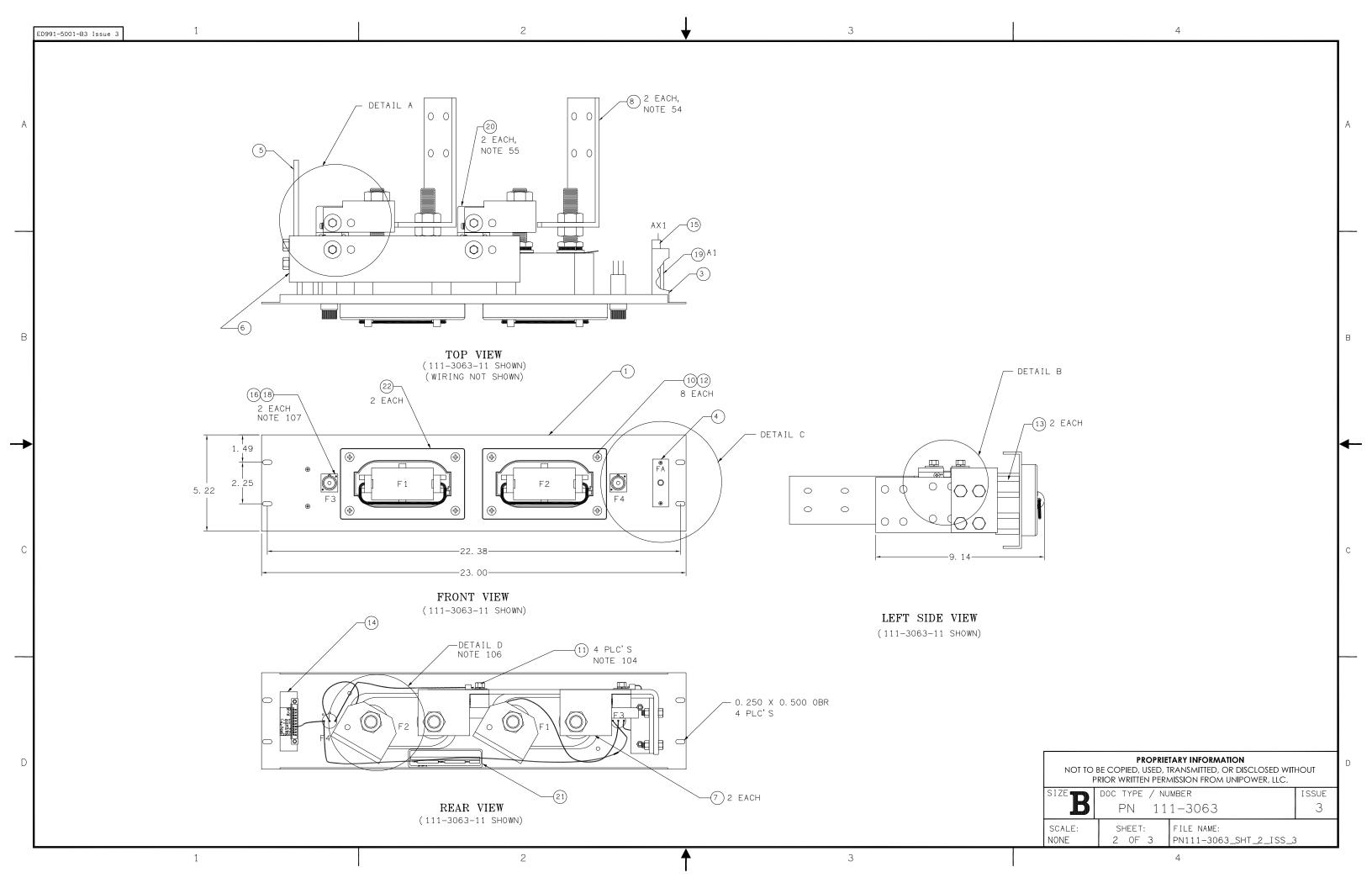
SHEET		ISSUE NUMBER						
NUMBER	1	2	3	4	5	6	7	œ
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2	1	1	1	2	2	3	ъ	
3	1	1	-	2	3	4	4	

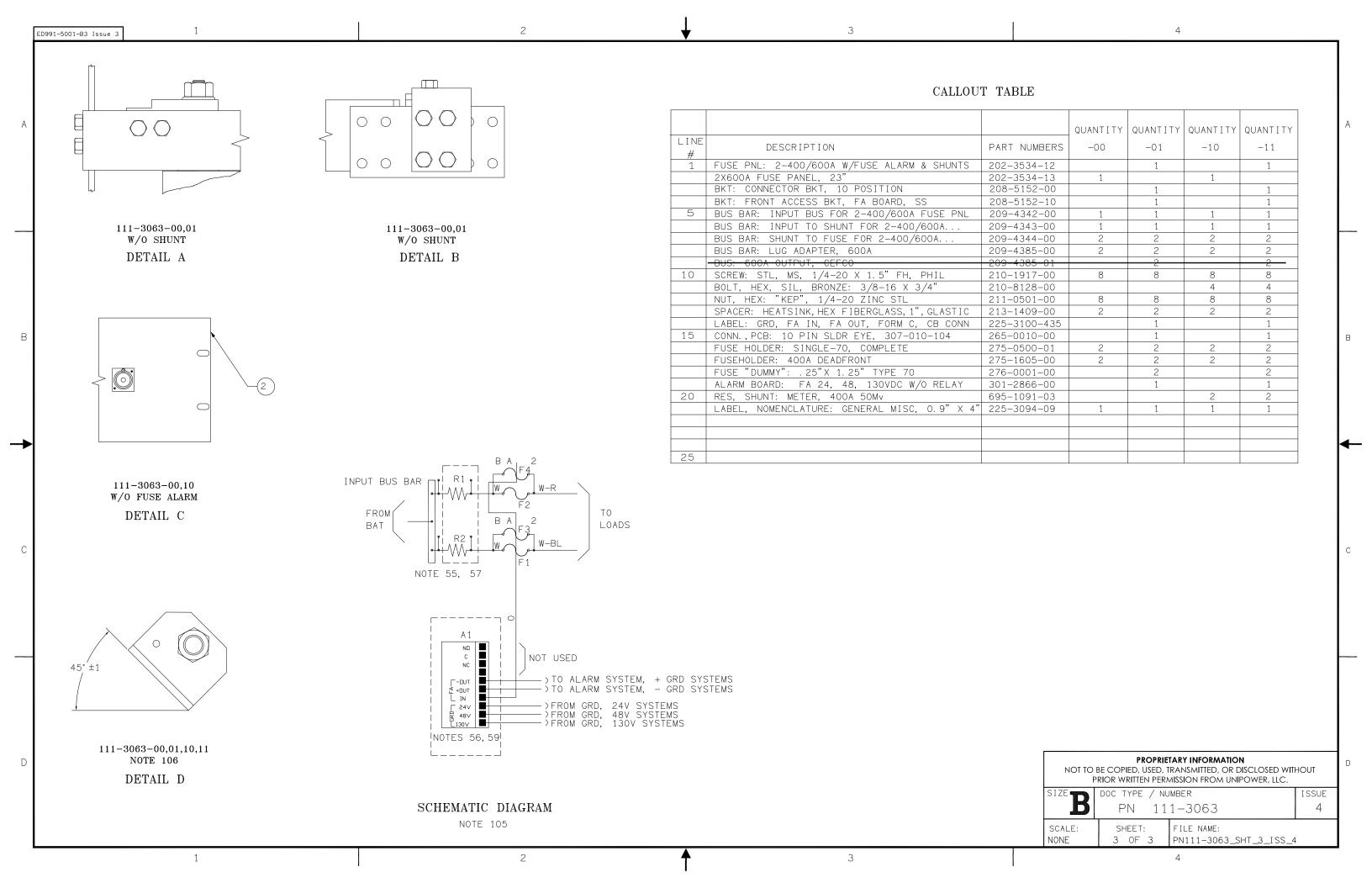
ISSUES DESCRIPTION ISS. BY ISSUE ISS. DATE WD SEE PCO# 44452 6/27/17 UNLESS OTHERWISE SPECIFIED DIMENSIONS APPROVALS DATE ARE IN INCHES
TOLERANCES ON: DRAWN TET 4/21/92 +0.004 CHECKED -0.002 VMB 4/21/92 FRACTIONS ±1/32 APPROVED DECIMALS (XX) ±0.020 VΡ 4/21/92 DECIMALS (XXX) ±0.010 APPROVED ANGLES ±1/2° SQUARE CORNERS AND ANGLES ARE 90 UNLESS OTHERWISE SPECIFIED. WORKMANSHIP: PER SPEC ENG032 MATERIAL: FINISH: PROPRIETARY INFORMATION NOT TO BE COPIED, USED, TRANSMITTED, OR DISCLOSED WITHOUT PRIOR WRITTEN PERMISSION FROM UNIPOWER, LLC. FUSE PANEL 2 X 61-400 AMP TPL 5.25 X 23' SIZE DOC TYPE / NUMBER ISSUE PN 111-3063 SCALE: SHEET: FILE NAME: 1 OF 3 PN111-3063_SHT_1_ISS_7

HOLES

N/A

2





ISS. BY ISS. DATE

WD

6/27/17

ISSUE

8

DESCRIPTION

SEE PCO# 44452

- 51. UNITS NOT EQUIPPED WITH A SHUNT DO NOT HAVE R1.
- 52. NORMAL AND EMERGENCY FUSE HOLDERS REQUIRE ONE MAIN FUSE EACH. MAIN FUSES ARE TYPE TPL 61-600 AMPS. THE RECOMMENDED TYPE 70 ALARM FUSE IS 0.5 AMPS, WHICH HAS A BUILT IN ALARM INDICATOR. FUSES ARE NOT INCLUDED, BUT MAY BE ORDERED SEPARATELY PER DRAWING ED991-0009-00.
- 53. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO 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 EQUIPMENT DRAWING ED991-0002-00.
- 54. OUTPUT LUGS WITH 1" CENTER TO CENTER HOLES FOR 3/8" HARDWARE, ARE PROVIDED. THESE LUGS MAY BE REMOVED IF DESIRED.
- 55. A FUSE ALARM SIGNAL CAN BE EXTENDED TO A SEPERATE ALARM SYSTEM. CONNECT THE ALARM LEAD TO THE "FA-OUT" TERMINAL ON XA1, IN POSITIVE GROUND SYSTEMS OR TO THE "FA+OUT" TERMINAL, IN NEGATIVE SYSTEMS. FUSE ALARM SIGNALS CONNECT "BAT" TO THE ALARM CONNECTION WHEN A FUSE CLEARS. A FUSE ALARM ASSEMBLY EQUIPPED WITH AN ALARM RELAY IS AVAILABLE. ORDER PER EQUIPMENT DRAWING ED991-0009-00.
- 57. PAINT COLOR IS ANSI 61 GRAY.

D

58. PANELS WITH LOCKOUTS PHYSICALLY PREVENT THE REMOVAL OF AN ENERGIZED FUSE.

TABLE A

PANEL PART NO.	VOLTAGE	NOTES SW FUSE PART NO	DADT NO SHUNT		LOCKOUT		RATING	
PANEL PART NO.	VOLTAGE		WITH	W/0	WITH	W/0	KATING	
111 7080 00			275 1607 00		_ v		V	70
- 111-3000-00			2/3-100/-00		_ ^			MD
111 7090 10			075 1607 00	l v				MD.
- 111-3000-10	±24, -48, ±130		273-1007-00	_ ^				MD
111-3080-01	124, 40, 1100	58,51	275-1607-01		Х	Х		STD
111-3080-11		58	275-1607-01	l x		X		STD

MANUFACTURING NOTES:

- 101. A COMPOUND SUCH AS CRAMOLIN 81Rh WILL BE APPLIED TO ALL JOINTED FLAT CONDUCTIVE SURFACES PER THE MANUFACTURER'S INSTRUCTIONS.
- 102. REPLACE THE BOLTS SUPPLIED WITH THE SHUNT WITH 3/8"-16 x 3/4" BOLTS, P/N 210-8128-00.
- 103. INSTALL OUTPUT LUG AT APPROX 30° ANGLE FROM EDGE OF PANEL, AS SHOWN.
- 104. REMOVE INPUT AND OUTPUT BUS BARS BEFORE SHIPPING THIS PRODUCT.
 - A. LOCATE THE INPUT BUS BAR, P/N 209-4413-00 (SHORT "L" SHAPED BUS). SEE FIGURE 1.
 - B. IF THE PANEL IS EQUIPPED WITH A SHUNT, REMOVE THE HARDWARE AND THE INPUT BUS BAR. PUT THEM IN A BAG AND MARK "INPUT BUS", TIE WRAP TO THE INPUT BRACKET.
 - C. LOCATE THE OUTPUT BUS BAR, P/N 209-4415-00 (LONG "L" SHAPED BUS). SEE FIGURE 2.
 - D. REMOVE THE BLACK SIGNAL WIRE CONNECTED TO THE OUTPUT BUS. PUT THE ASSOCIATED HARDWARE IN A BAG. TIE WRAP TO THE BLACK SIGNAL WIRE.
 - E. REMOVE THE OUTPUT BUS AND HARDWARE EXCEPT THE BOTTOM NUT. PUT THEM IN A BAG AND MARK "OUTPUT BUS", TIE WRAP TO FUSE OUTPUT STUD.

TO RE-INSTALL THE BUS BARS, FOLLOW THE STEPS "A" THRU "E" IN REVERSE

105. HOOK UP GRD AND FA OUTPUT PER TABLE C.

TABLE C

SYS VOLTAGE	GRD PIN	FA OUTPUT PIN
+130	1	(+) 5
-130	1	(-) 6
-48	2	(-) 6
+24	3	(+) 5
-24	3	(-) 6

UNLESS OT	HERWISE	APPROVALS	DATE
SPECIFIED DI	NCHES	DRAWN	
± TOLERANC	+0.004	VPP	8/14/89
HOLES	-0.002	CHECKED SSS	8/14/89
FRACTIONS	±1/32	APPROVED	.
DECIMALS (XX)	±0.020	JSN	8/14/89
DECIMALS (XXX) ANGLES	±0.010 ±1/2*	APPROVED	
		90° UNLESS OTHERWISE SPECIFIED.	
WORKMANSHIP: PER SPEC ENGO			
MATERIAL:			

SHEET INDEX

SHEET		ISSUE NUMBER						
NUMBER	1	2	3	4	5	6	7	8
1	1	2	3	4	5	6	7	8
2	1	2	3	4	5	6	7	7
3			1	2	3	3	4	4

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FUSE PANEL: 1 SWITCH 61-600A, NORMAL/EMERGENCY, TPL 7.00 X 23"

DOC TYPE / NUMBER PN 111-3080

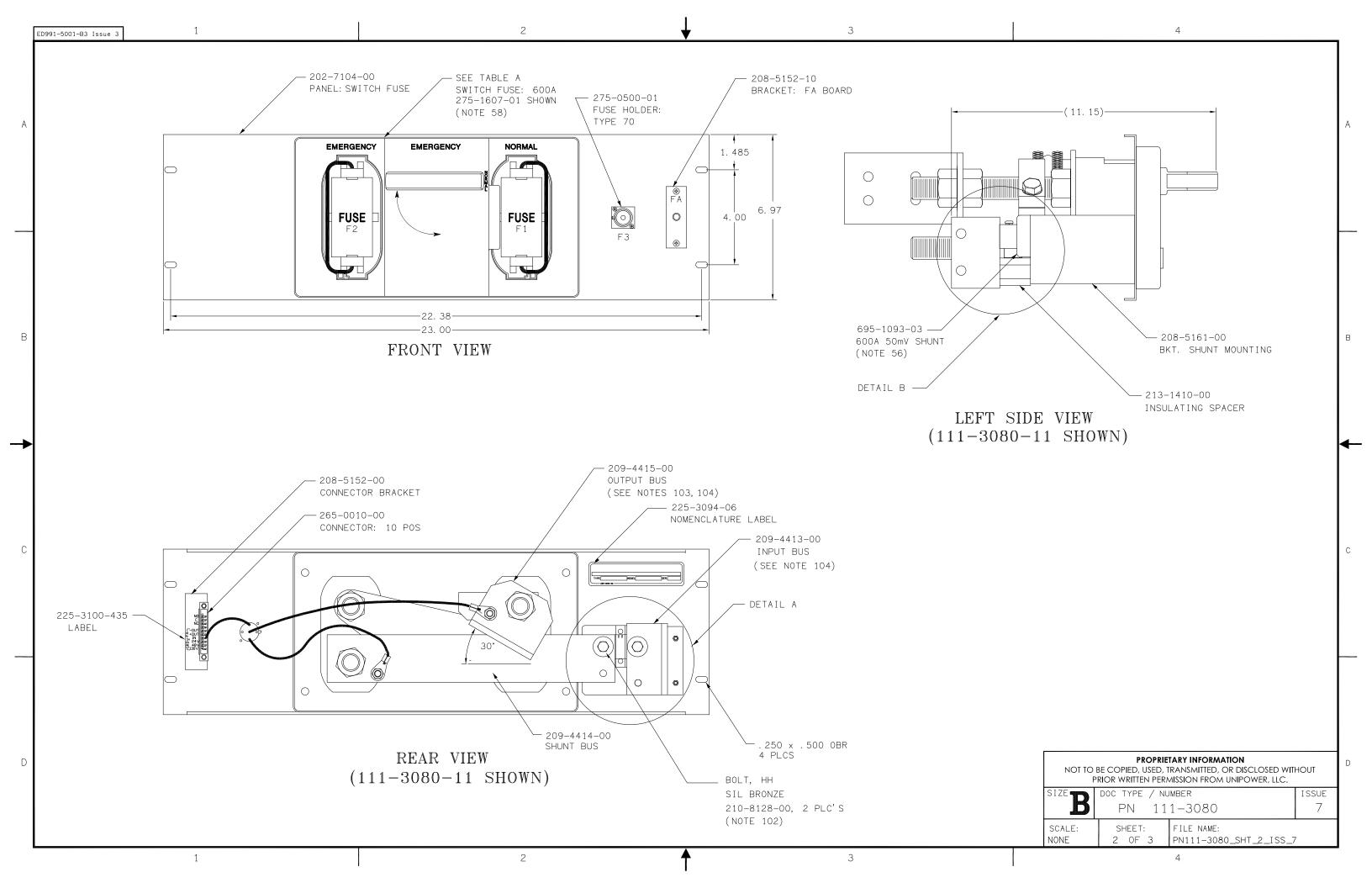
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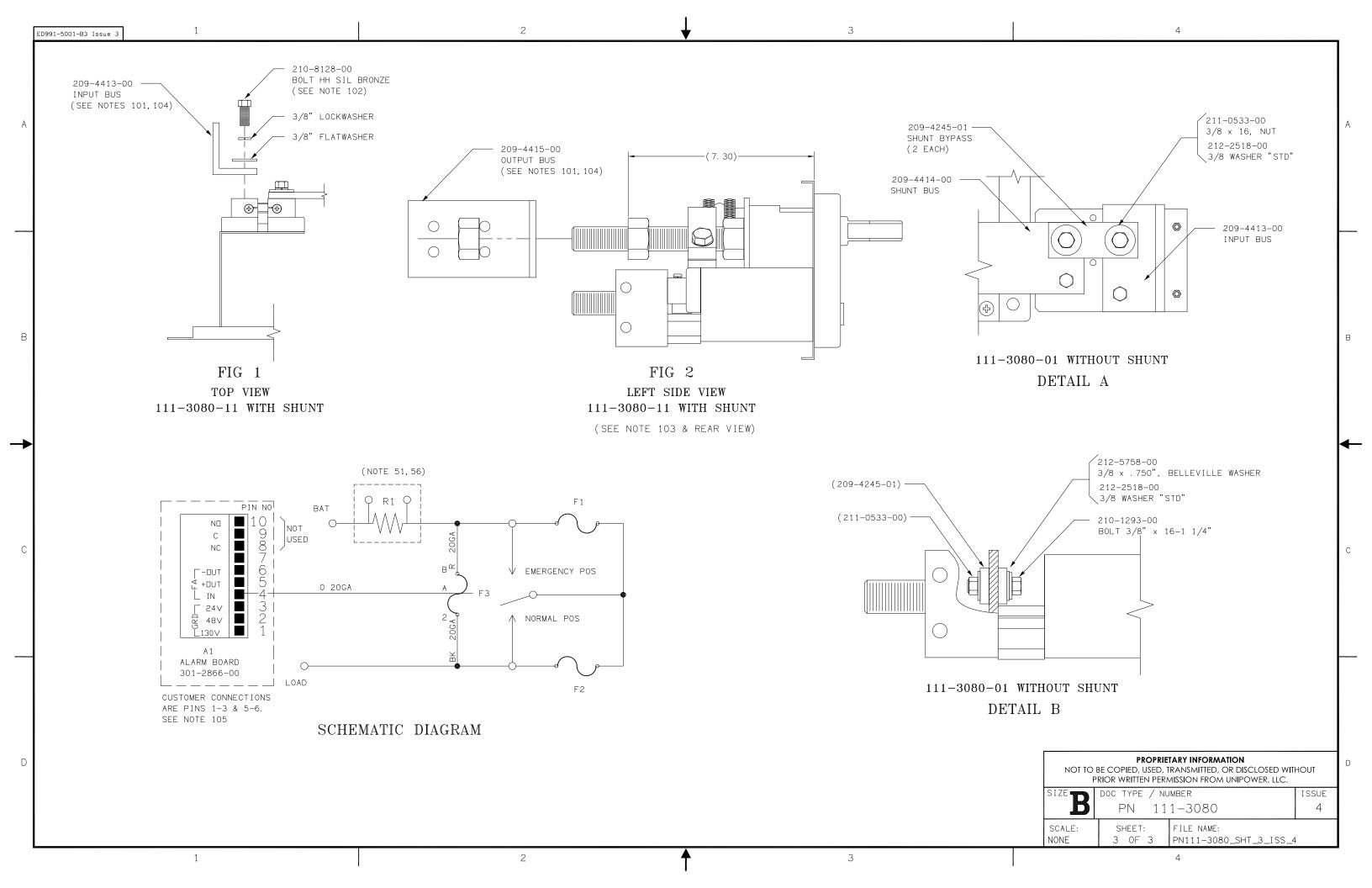
SIZE

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.

ISSUE 8





- 51. SELECT FUSE PANEL FROM TABLE A.
- 52. EACH FUSEHOLDER REQUIRES ONE MAIN AND ONE ALARM FUSE. MAIN FUSES ARE TYPE TPS 3AMP TO 70AMPS. THE RECOMMENDED GMT ALARM FUSE IS 0.5 AMPS. FUSES ARE NOT INCLUDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0009-00.
- 53. THE INPUT COPPER BUS BAR IS RATED AT 600 AMP MAXIMUM DISTRIBUTION AND DESIGNED FOR DIRECT CONNECTION TO 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 ED991-0002-00.
- 54. DC OUTPUT CABLES ARE NOT PROVIDED, CABLE MUST BE FURNISHED BY THE CUSTOMER TO MEET THE LOCAL ELECTRICAL REQUIREMENTS OF THE AREA.
- 55. A FUSE ALARM SIGNAL CAN BE EXTENDED TO A SEPARATE ALARM SYSTEM. CONNECT THE ALARM LEAD TO THE "FA-OUT" TERMINAL ON XA1 IN POSITIVE GROUND SYSTEMS OR TO THE "FA+OUT" TERMINAL IN NEGATIVE SYSTEMS. FUSE ALARM SIGNALS CON-NECT "BAT" TO THE ALARM CONNECTION WHEN A FUSE CLEARS. A FUSE ALARM ASSEMBLY EQUIPPED WITH AN ALARM RELAY IS AVAILABLE. ORDER PER EQUIPMENT DRAWING ED991-0009-00.
- 56. AMMETER SHUNTS ARE NORMALLY 600 AMPS 50mV; HOWEVER, OTHER CURRENT RATINGS MAY BE SPECIFIED. PANEL CURRENT MUST NOT EXCEED 600 AMPS.NON SHUNTED VERSIONS DO NOT INCLUDE R1.
- 57. PAINT COLOR IS ANSI 61 GRAY.
- 58. BUBBLE REFERENCE DESIGNATORS REFER TO CALLOUT TABLE LINE NUMBER.
- 59. UP TO 14 ADDITIONAL FUSEHOLDER KITS ARE AVAILABLE. SPECIFY THE NUMBER OF FUSEHOLDER KIT(S), P/N 385-3783-00, AND THEIR LOCATION. KIT DOES NOT INCLUDE FUSE. REFER TO NOTE 52.
- 60. A SPARE TPS AND GMT FUSE MAY BE STORED IN EACH FUSEBLOCK HANDLE.

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 CONDUCTIVE SURFACES PER THE MANUFACTURER'S INSTRUCTIONS.
- 102. REPLACE BOLTS SUPPLIED WITH SHUNT WITH P/N 210-8128-00. USE WASHERS SUPPLIED WITH SHUNT.
- 103. ALL WIRES ARE 20 GA UNLESS OTHERWISE NOTED.
- 104. Ø DENOTES CABLE RUN BY INSTALLER.

TABLE A											
PART NUMBER	VOLTAGE	SHUNT	FUSE ALARM	FUSEHOLDERS	FUSEHOLDER LOCATION	NOTES					
111-3783-00	+24 OR -48 VDC		YES	20	1-20	52					
111-3783-01	+24 OR -48 VDC		YES	6	1-5,20	52,59					
111-3783-10	+24 OR -48 VDC	600A	YES	20	1-20	52					
111-3783-11	+24 OR -48 VDC	600A	YES	6	1-5,20	52,59					

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
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SH NO	1	2	3	4		
ISSUE	6	4	4	4		

3

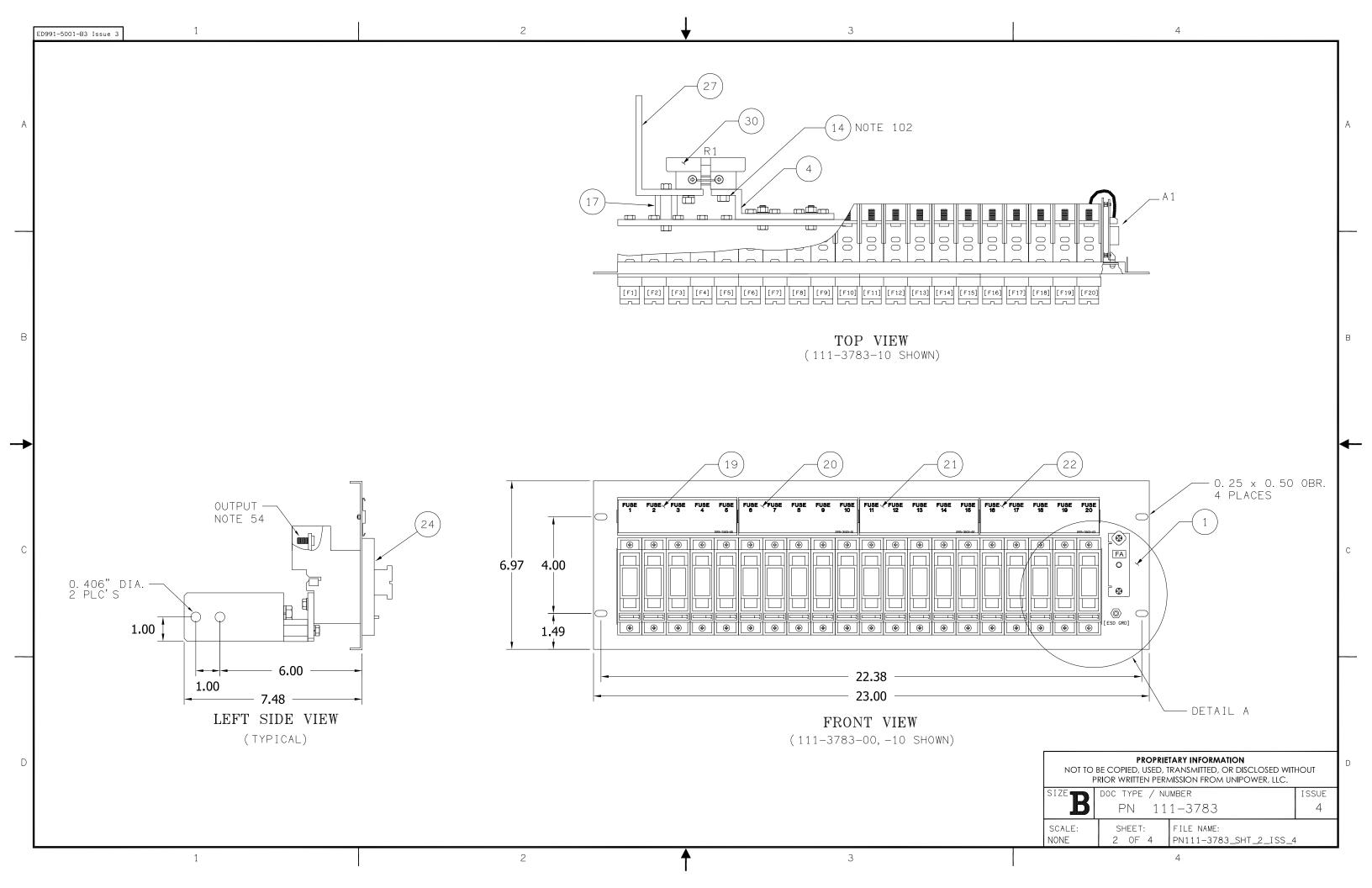
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SF	JNLESS OTHERWISE PECIFIED DIMENSIONS ARE IN INCHES	APPROVALS		DATE	•
±	TOLERANCES ON: +0.004	DRAWN MRB	5/	/28/93	
DLES	-0.002	CHECKED WDV	6/	/24/93	
ACTIO CIMAL	$\frac{\pm 1}{32}$ s (xx) ± 0.020	APPROVED LM	6,	/24/93	
CIMAL	\$ (XXX) ±0.010 ±1/2*	APPROVED MR		/24/93	
UARE	CORNERS AND ANGLES ARE 9	0° UNLESS OTHERWISE SPECIFIED.	٠,	,	
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ATER	IAL:				
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_	POWE	RING TECHNO	L	GY	
	FUS 20 X 34	RING TECHNO E PANEL A - 70A TPS	L	O G Y	D

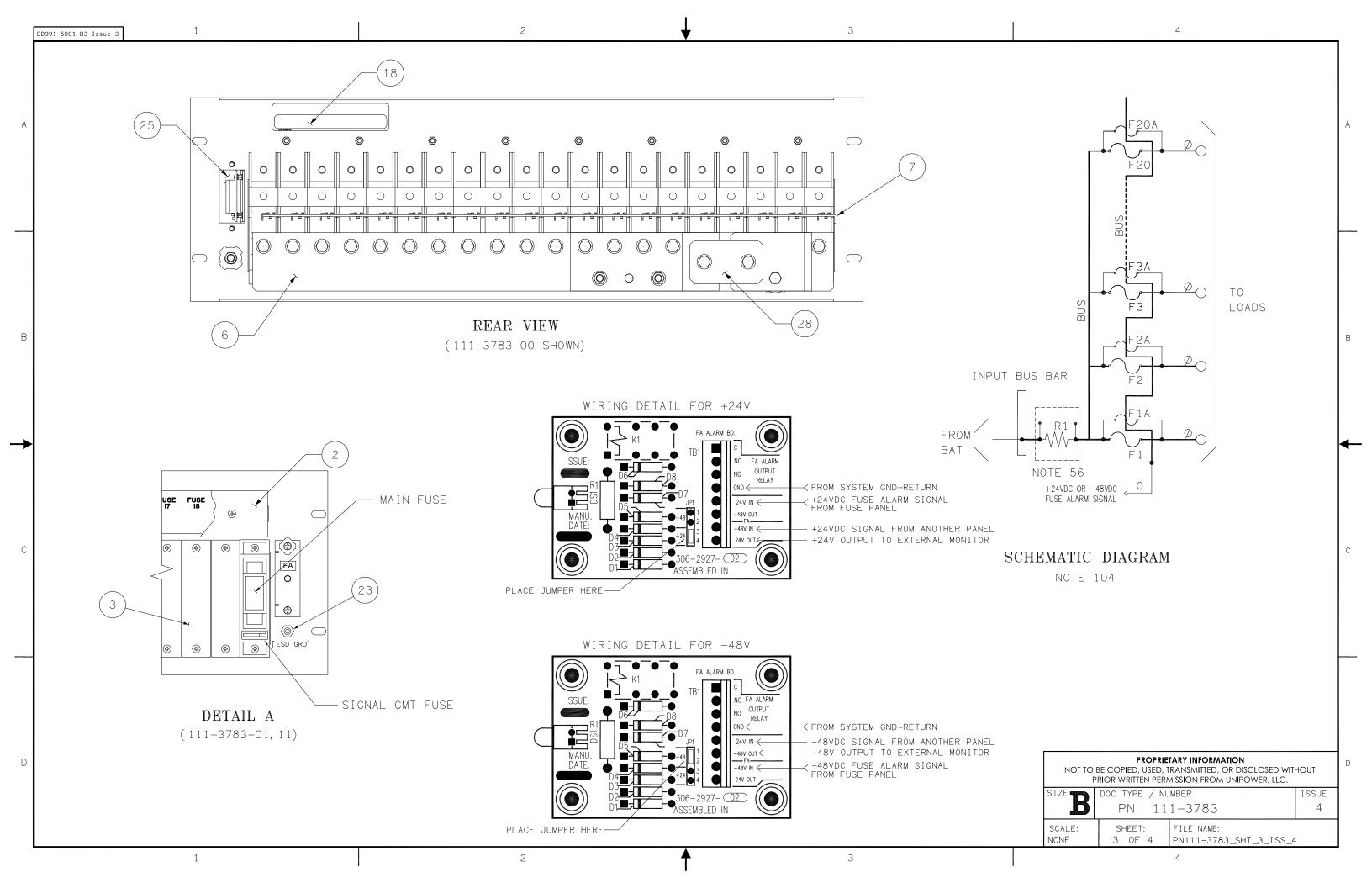


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SCALE: 1 OF 4 N/A

PN111-3783_SHT_1_ISS_6





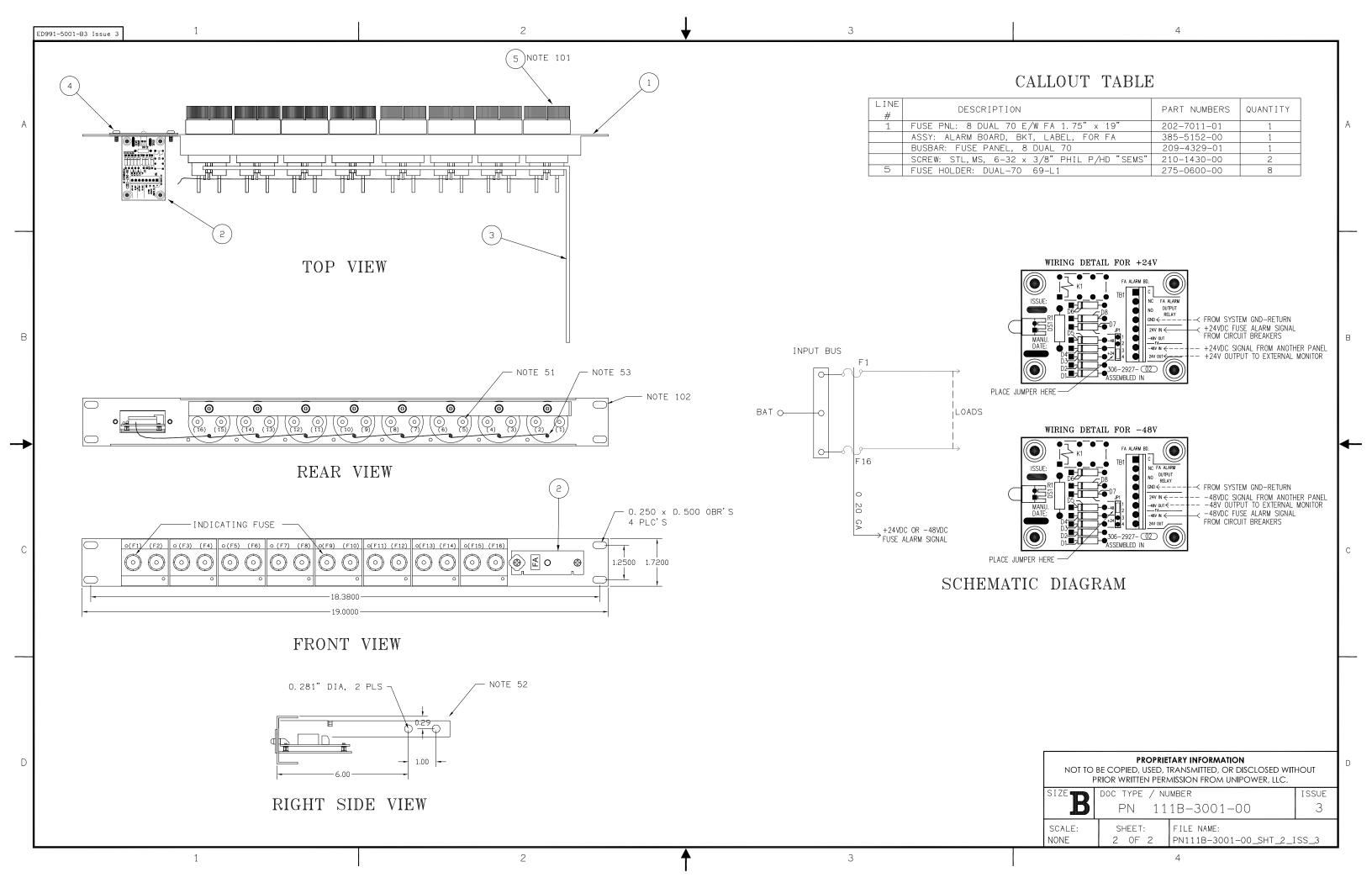
CALLOUT TABLE

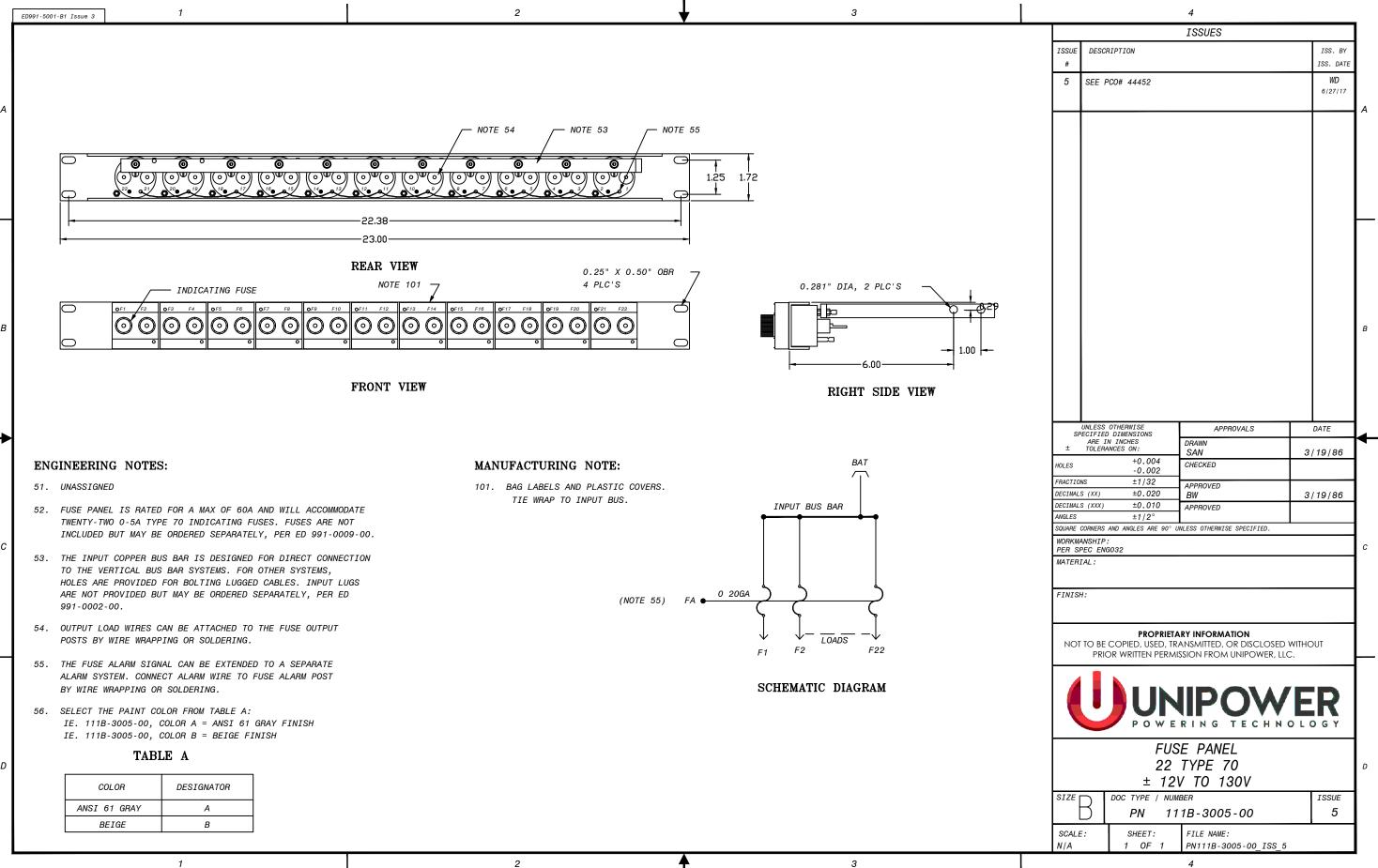
			QUANTITY	QUANTITY	QUANTITY	QUANTITY	
SEQ.#	PART NUMBER	DESCRIPTION	-00	-01	-10	-11	NOTES
0	111.3783.XXA	FUSE PANEL; BASIC TPS W/O FUSE HO	-	1	-	1	
1	202.4205.00A	PNL,FRONT TPS FUS 20 POS 23"	1	-	1	-	
2	205.0901.02C	CARD HLDR,1.5"X5"BLK TPS FUSE	4	4	4	4	
3	202.5309.00A	CVR; TPS FUSE BLANK PANEL, 1"	-	14	-	14	
4	209.3287.00	INPUT BUS,TPS FUSE SHUNT-DIST	1	-	1	1	
6	209.3288.00	INPUT BUS,TPS FUSE INPUT	1	-	1	-	
7	209.3289.00	BUS,TPS FUS SIG INTERCONNECT	1	-	1	-	
8	210.1281.00	*SCREW:SS,HEX HD. 1/4-20 X 3/4	25	-		-	
9	210.1282.00	*SCREW:SS, HEX HD. 1/4-20 X 1"	23	-	23	-	
10	210.1450.01	*SCREW:STL,SEMS,P/HD PHIL,6-32	44	-	44	-	
11	210.7003.00	*SCREW:STL,HEX HD,1/4-20 X 3/8	2	-	2	-	
12	211.0466.00	*NUT,HEX STL:4-40, ZINC, "KEPS	4	-	4	-	
13	211.0531.00	*NUT,HEX SS: 1/4-20	25	-	23	-	
14	212.0500.00	*LOCKWASHER,SHKPF:1/4 INTERNAL	2	-	2	-	
15	212.2516.00	*WASHER,FLAT SS: 1/4" US "STD"	30	-	26	-	
16	212.5754.00	WASHER,BELLEVILLE, SS:1/4X.500	30	-	26	-	
17	JP00300	STANDOFF,GLSTC,HEX,1"X1"1/4-20	1	-	1	-	
18	225.3094.99	LABEL:0.939"X4" ADHESIVE POLY	1	-	1	-	
19	225.3103.00	LABEL:WRITE-ON,1-5 TPS FUSE	1	-	1	-	
20	225.3103.01	LABEL:WRITE-ON,6-10 TPS FUSE	1	-	1	-	
21	225.3103.02	LABEL:WRITE-ON,11-15 TPS FUSE	1	-	1	-	
22	225.3103.03	LABEL:WRITE-ON,16-20 TPS FUSE	1	-	1	-	
23	263.0015.00	JACK,BANANA: UNINSULATED, #101	1	1	1	1	
24	275.0410.00	FSE HLDR:TPS 3-70A REAR ACCESS	20	-	20	-	
25	385.5152.00A	>ASSY: ALM BOARD, BKT, LABEL,	1	-	1	-	
26	225.3100.635	LABEL, WRIST STRAP GROUND	1	-	-	-	
27	209.3286.00	INPUT BUS;TPS FUSE MAIN BUS	1	-	1	-	
28	209.3286.10	INPUT BUS,TPS FUSE SHUNT BYPAS	1	-	-	-	
29	210.8128.00	BOLT,HEX,SIL, BRONZE:3/8-16 X	-	-	1	2	
30	695.1093.03	RES,SHUNT:METER,600A 50MV	-	-	1	1	
31	209.3286.10	INPUT BUS,TPS FUSE SHUNT BYPAS	-	1	-	-	

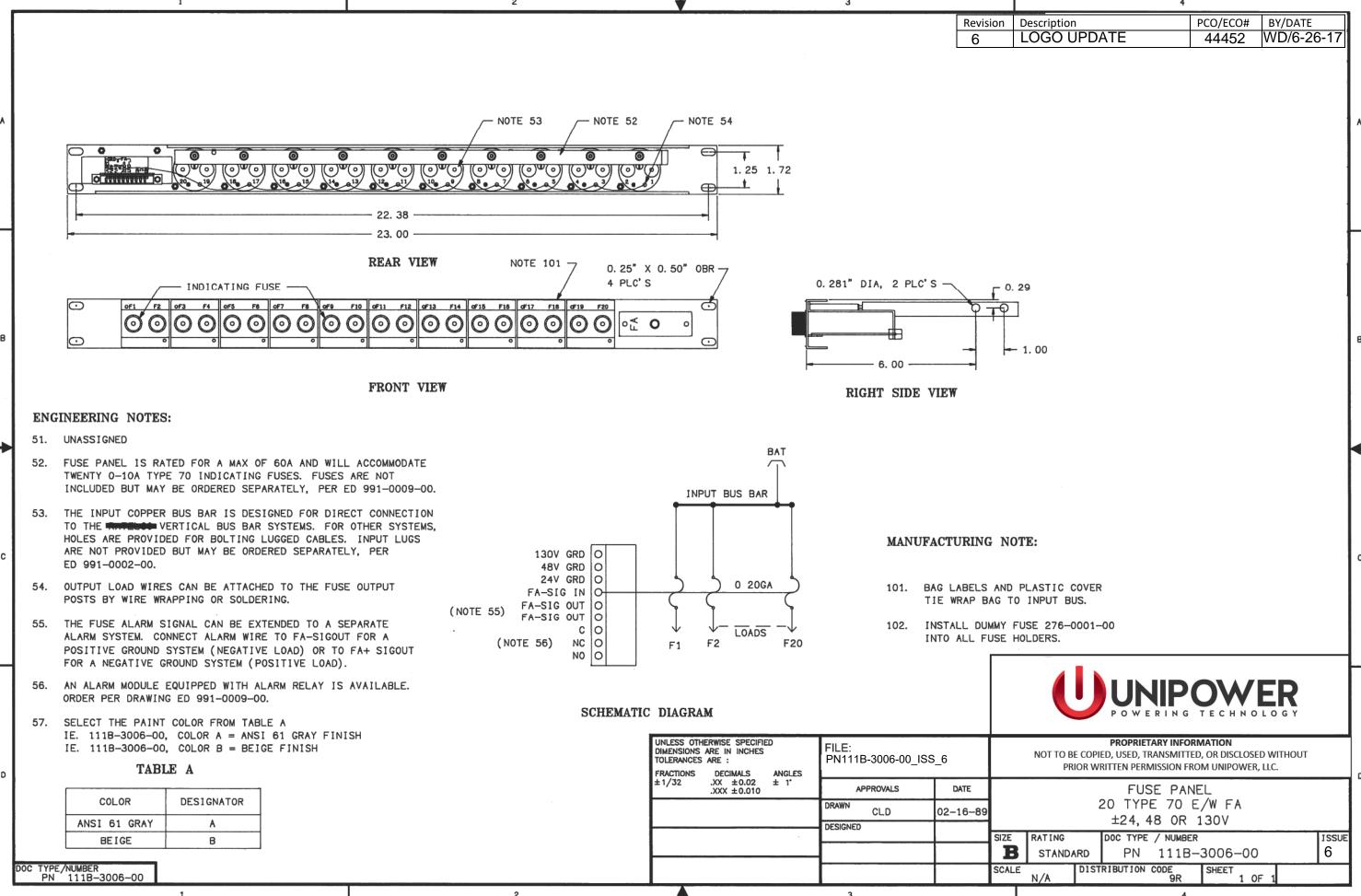
PROPRIETARY INFORMATION

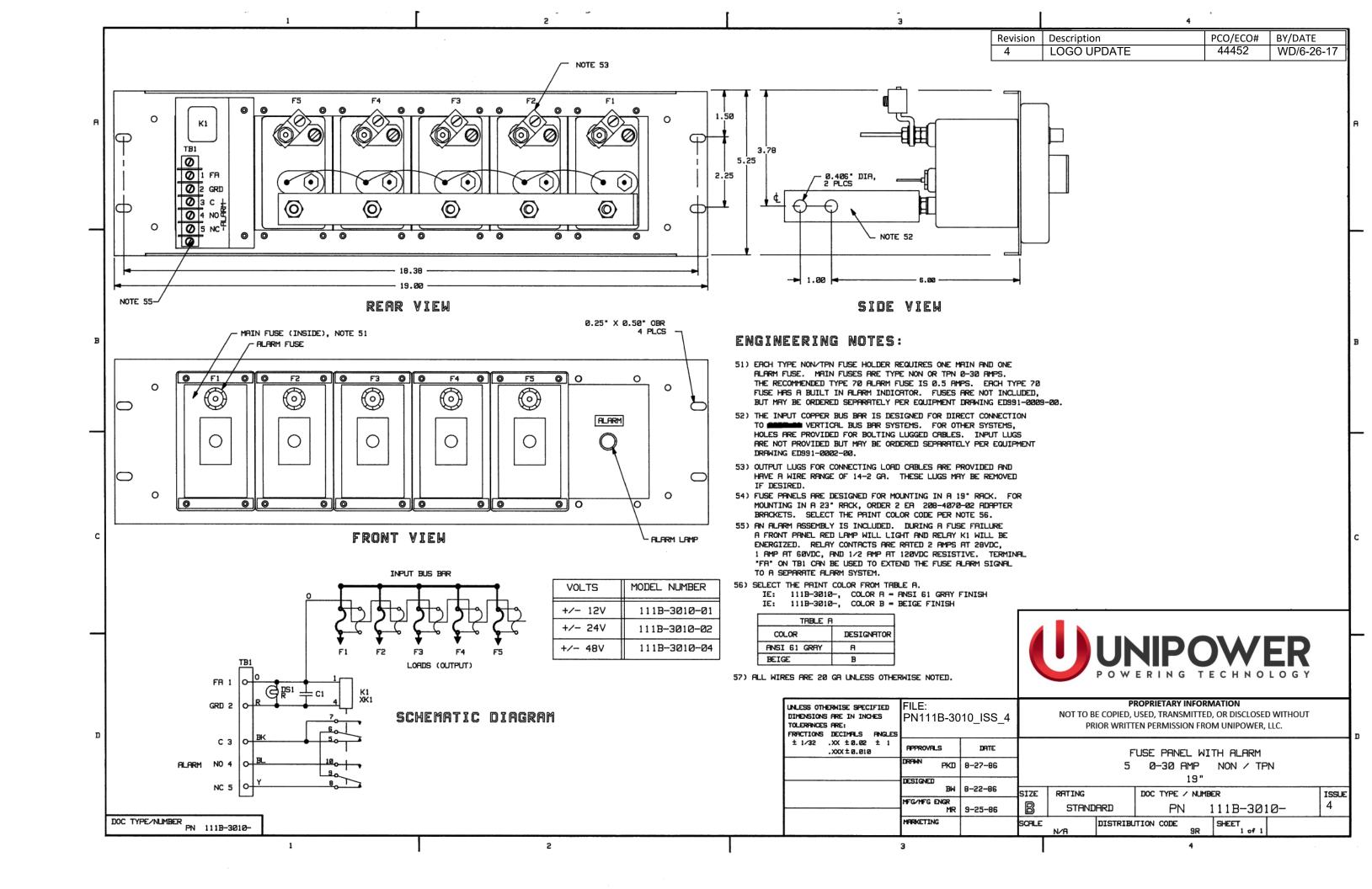
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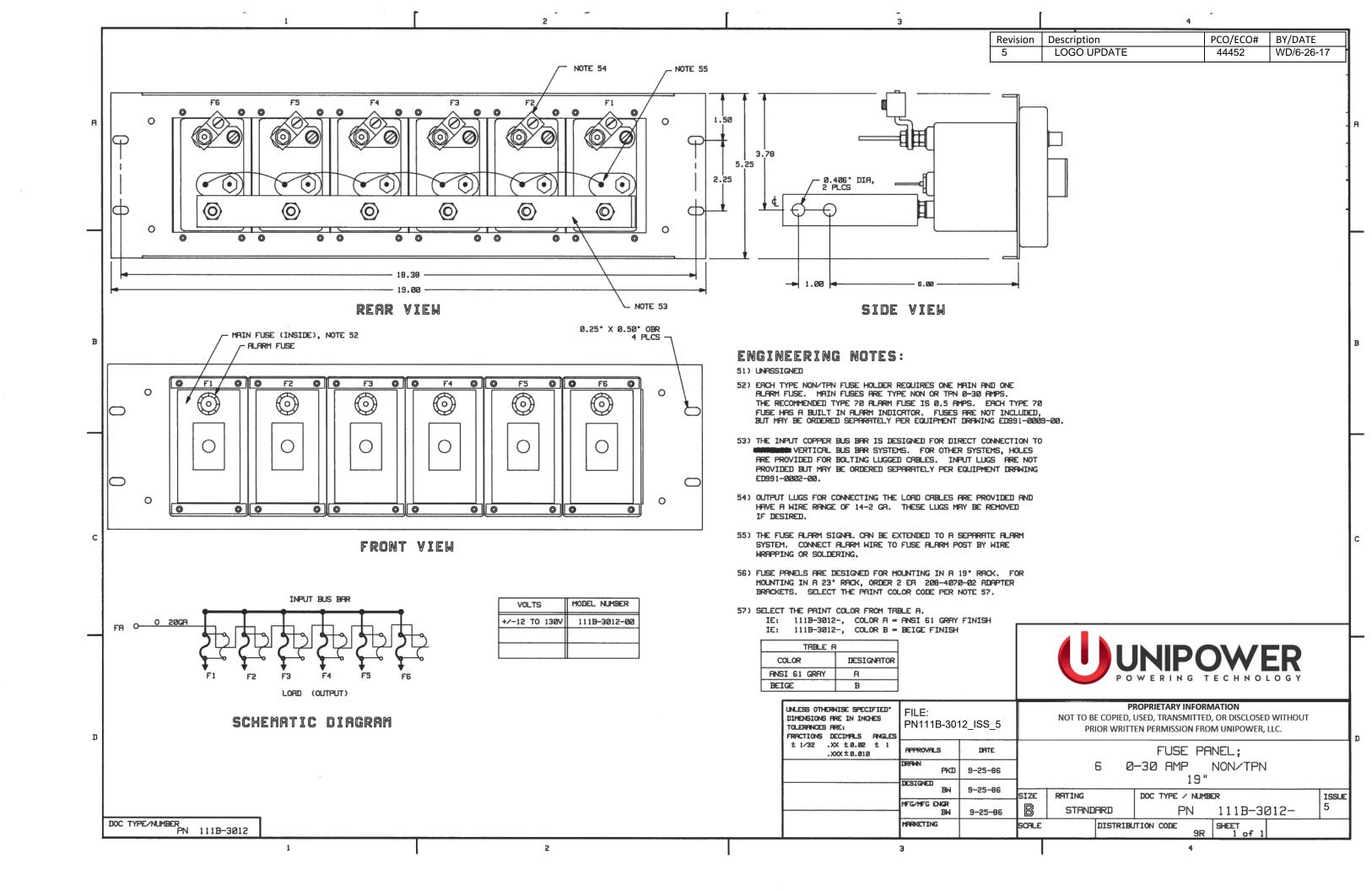
B DOC TYPE / NUMBER
PN 111-37 ISSUE PN 111-3783 SCALE: NONE FILE NAME: 4 OF 4 PN111-3783_SHT_4_ISS_4











3

ENGINEERING NOTES:

51. ORDER FUSE PANEL PER TABLE A.

TABLE A

VOLTS	MODEL NUMBER
± 12V	111B-3014-01
± 24V	111B-3014-02
± 48V	111B-3014-04

- 52. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO 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.
- 53. OUTPUT LUGS FOR CONNECTING THE LOAD CABLES ARE PROVIDED AND HAVE A WIRE RANGE OF 14-2 GA.
- 54. AN ALARM ASSEMBLY IS INCLUDED. DURING A FUSE FAILURE A FRONT PANEL RED LAMP WILL LIGHT AND RELAY K1 WILL BE ENERGIZED. RELAY CONTACTS ARE RATED 2 AMPS AT 28VDC, 1 AMP AT 60VDC, AND 1/2 AMP AT 120VDC RESISTIVE. TERMINAL "FA" ON TB1 CAN BE USED TO EXTEND THE FUSE ALARM SIGNAL TO A SEPARATE ALARM SYSTEM.
- 55. SELECT THE PAINT COLOR FROM TABLE B: IE. 111B-3014-, COLOR A = ANSI 61 GRAY FINISH. IE. 111B-3014-, COLOR B = BEIGE FINISH.

MANUFACTURING NOTES:

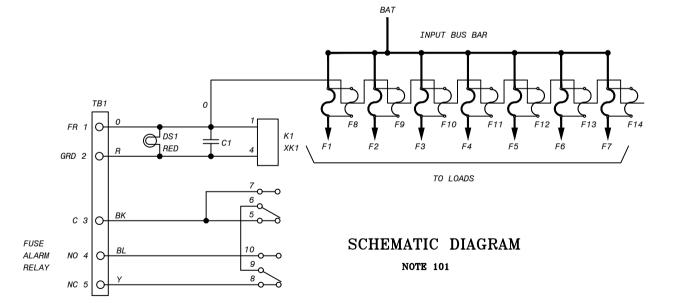
101. ALL WIRE 20 GA. UNLESS OTHERWISE SPECIFIED.

102. BAG OUTPUT LUGS AND FUSE DESIGNATION LABELS, AND TIE WRAP TO INPUT BUS.

TABLE B

COLOR	DESIGNATOR
ANSI 61 GRAY FINISH	Α
BEIGE	В

56. EACH DEADFRONT FUSEHOLDER REQUIRES ONE MAIN AND ONE ALARM FUSE. MAIN FUSES ARE TYPE NON OR TPN 1-30 AMPS. THE RECOMMENDED TYPE 70 ALARM FUSE IS 0.5 AMPS. FUSES ARE NOT INCLUDED, BUT MAY BE ORDERED SEPARATELY PER ED 991-0009-00.

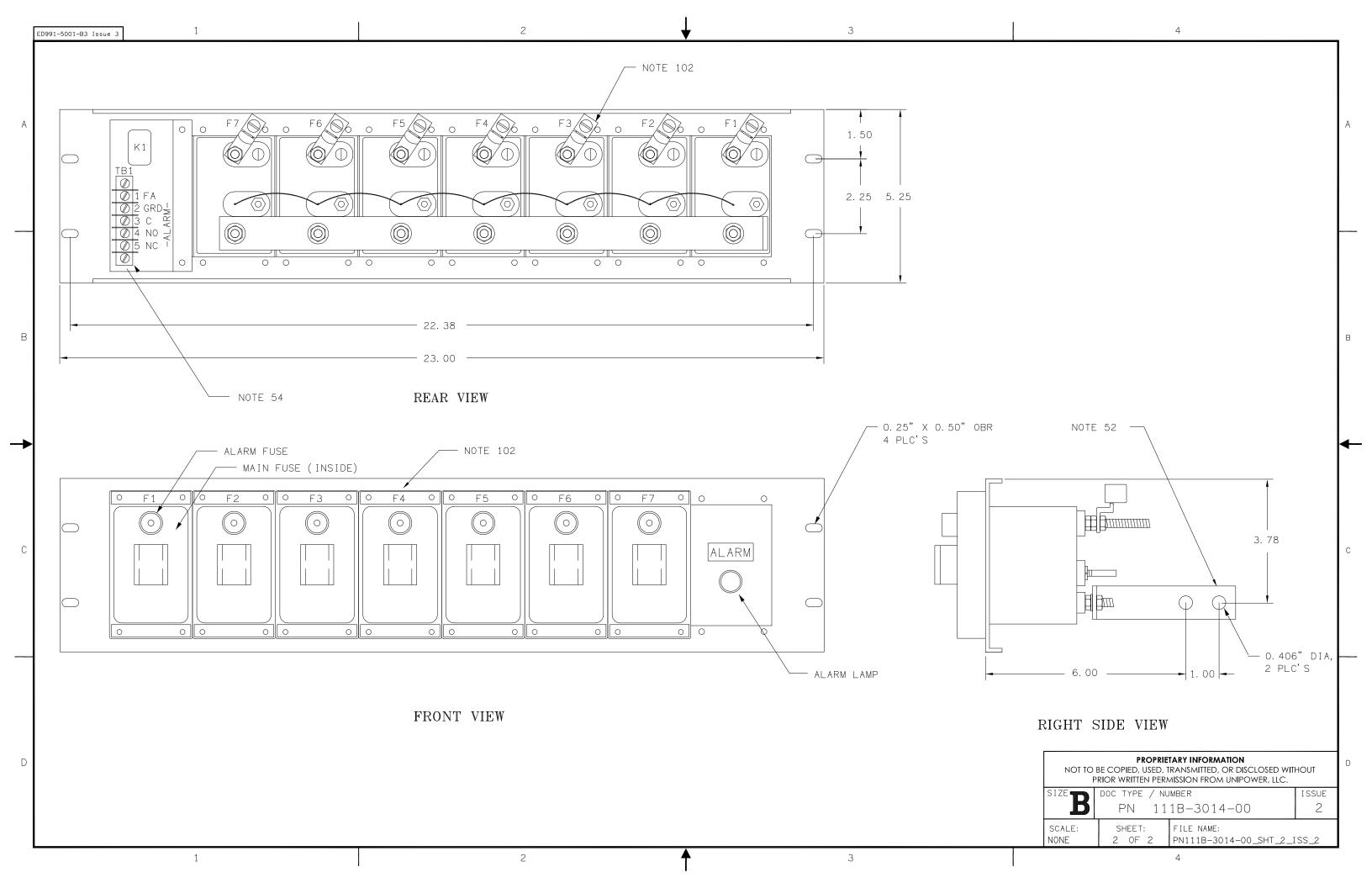


SHEET INDEX NOTE:

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

ISSUES ISSUE DESCRIPTION ISS. BY ISS. DATE SEE PCO# 44452 WD 6/27/17 UNLESS OTHERWISE APPROVALS DATE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON: DRAWN PKD 8/29/86 +0.004 CHECKED HOLES -0.002 8/22/86 BW±1/32 FRACTIONS APPROVED DECIMALS (XX) ±0.020 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 NOT TO BE COPIED, USED, TRANSMITTED, OR DISCLOSED WITHOUT PRIOR WRITTEN PERMISSION FROM UNIPOWER, LLC. FUSE PANEL 7 30A NON/TPN DOC TYPE / NUMBER ISSUE SIZE PN 111B-3014 4 SCALE: SHEET: FILE NAME: 1 OF 2 PN111B-3014 SHT 1 ISS 4



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ISS. BY ISS. DATE

ENGINEERING NOTES

- 52. EACH DEADFRONT FUSE HOLDER REQUIRES ONE MAIN AND ONE ALARM FUSE. MAIN FUSES ARE TYPE NON OR TYPE TPN 0-30 AMPS. THE RECOMMENDED TYPE 70 ALARM FUSE IS 0.5 AMPS. FUSES ARE NOT INCLUDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0009-00.
- 53. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO VERTICAL BUS BAR SYSTEMS AND RATED FOR 400 AMPS MAX. FOR OTHER SYSTEMS, HOLES ARE PROVIDED FOR BOLTING LUGGED CABLES. INPUT LUGS ARE NOT PROVIDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0002-00.
- 54. CRIMP LUGS MAY BE ATTACHED DIRECTLY TO FUSE-HOLDER STUDS. STUDS ARE 1/4"-20, WITH HARDWARE PROVIDED. COMPRESSION LUGS FOR CONNECTING LOAD CABLES ARE PROVIDED ON -00 AND -10 PANELS, AND HAVE A WIRE RANGE OF 14-2 GA.
- 55. A FUSE ALARM SIGNAL CAN BE EXTENDED TO A SEPARATE ALARM SYSTEM.
 - 1) UNITS NOT EQUIPPED WITH A FUSE ALARM BOARD (-00,-10): CONNECT ALARM LEAD TO THE ALARM POST BY WIRE WRAPPING OR SOLDERING.
 - 2) UNITS EQUIPPED WITH A FUSE ALARM BOARD (-13,-14): SEE SCHEMATIC DIAGRAM ON SHEET 3 FOR ALARM CONNECTION.

FUSE ALARM SIGNALS CONNECT "BAT" TO THE ALARM CONNECTION WHEN A FUSE CLEARS.

- 56. AMMETER SHUNTS ARE NORMALLY 200 AMPS 50mV; HOWEVER, CURRENT RATINGS UP TO 600 AMPS MAY BE SPECIFIED. SEE FIGURE B2, SECTION B-B FOR SHUNT AND BUSWORK DETAILS.
- 57. PAINT COLOR IS ANSI 61 GRAY.
- 58. THE MAXIMUM RECOMMENDED OUTPUT WIRE SIZE IS 6 GA. LARGER WIRE SIZES WILL REQUIRE ADDITIONAL RACK SPACES AND CABLE SUPPORTS.

ENGINEERING NOTES (CONT'D)

- 59. BUBBLE REFERENCE DESIGNATORS REFER TO CALLOUT TABLE LINE NUMBER, SHEET 4.
- 60. UNITS NOT EQUIPPED WITH A SHUNT DO NOT HAVE R1. UNITS NOT EQUIPPED WITH A FUSE ALARM ASSEMBLY DO NOT HAVE A1.

MANUFACTURING NOTES

- 101. REPLACE THE BOLTS SUPPLIED WITH THE SHUNT WITH 3/8"-16 x 3/4" BOLTS, P/N 210-8128-00.
- 102. PROPER BUS BAR ARRANGEMENT IS CRITICAL, SEE FIGURE B1 AND B2, SHEET 3.
- 103. PUT SUPPLIED OUTPUT LUGS AND FUSE HOLDER DESIGNA-TION TAGS IN A BAG AND TIE WRAP TO THE INPUT BUS BAR.
- 104. [] DENOTES THAT THE INFORMATION IS FOR REFERENCE ONLY.
- 105. A COMPOUND SUCH AS CRAMOLIN 81Rh WILL BE APPLIED TO ALL JOINTED, FLAT, CONDUCTIVE SURFACES PER THE MANU-FACTURER'S INSTRUCTIONS.
- 106. INSTALL DUMMY FUSE P/N 276-0001-00 IN ALARM FUSE HOLDERS ON XF1-8.

		TABLE A		
PART NUMBER	VOL TAGE	E/W SHUNT	E/W FA BOARD	FIGURES
111B-3016-00	±12-130V	NO	NO	A2,C2
111B-3016-10	112-1307	YES	NO	A2,B2,C1
111B-3016-13	104 40	NO	YES	A1,C2
111B-3016-14	+24, -48	YES	YES	A1,B1,C1

SHEET INDEX NOTE:

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SHEET INDEX

SH NO	1	2	3	4		
ISSUE	9	3	3	3		

		ISSUES	
ISSUE #	DESCRIPTION		ISS. BY
9	SEE PCO# 44452.		WD 6/28/17
	UNLESS OTHERWISE	APPROVALS	DATE
±	PECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON:	DRAWN PKD	10/6/86
HOLES	+0.004 -0.002	CHECKED TET	10/6/86
RACTIO		APPROVED	,.,
DECIMAL			
DECIMALS		APPROVED	
	±1/2° CORNERS AND ANGLES ARE 90° U	INI ESS OTHERWISE SPECIFIED	
WORKMA	ANSHIP:	MEESS OTHERWISE SPECIFIED.	
MATERI	PEC ENG032 TAL:		
FINISH	H:		

PROPRIETARY INFORMATION

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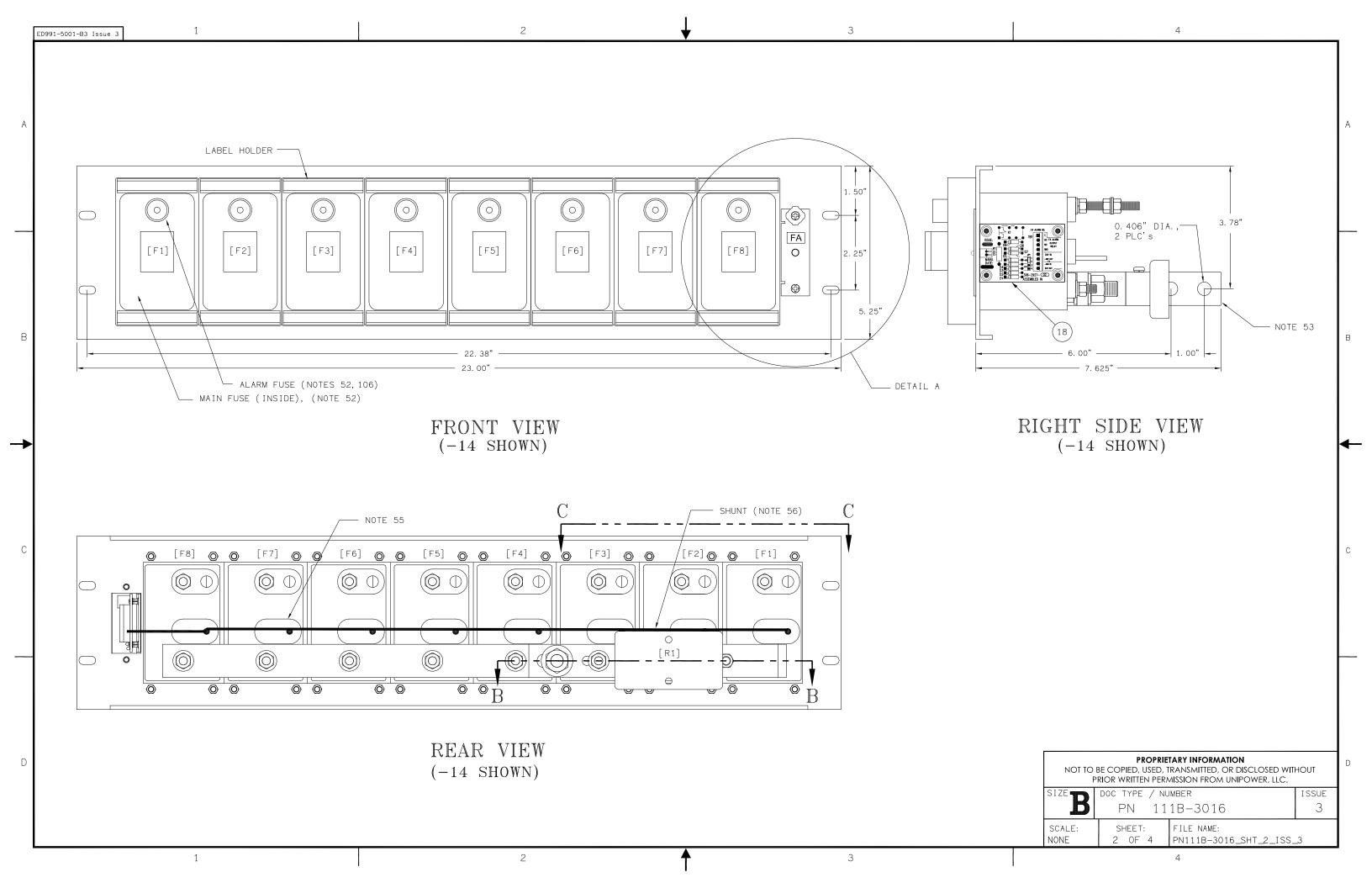


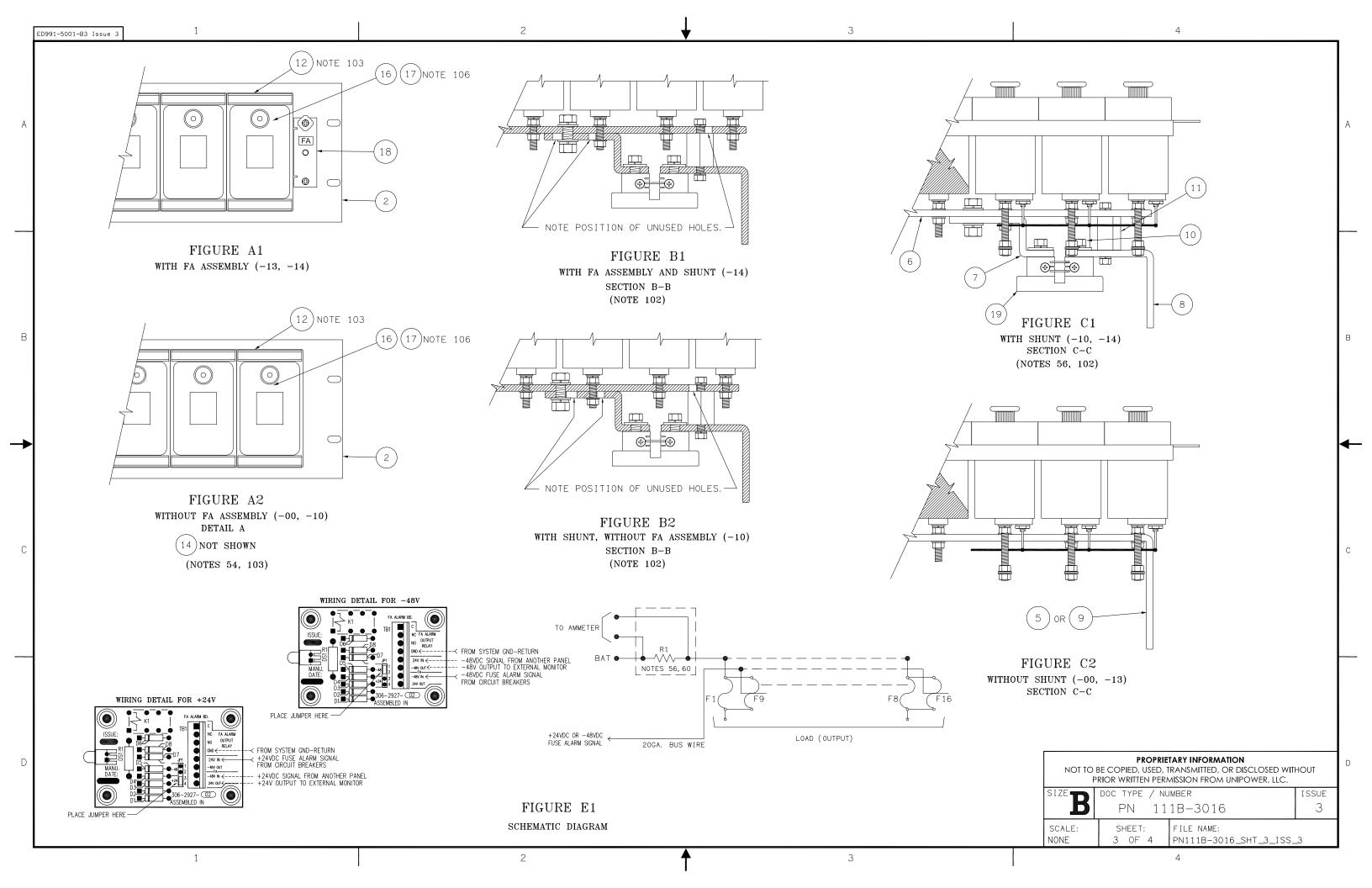
FUSE PANEL 8, 0-30 AMP NON / TPN

— 'т			
BI	PN 11	1B-3016	9
IZE D	OOC TYPE / NUM	MBER .	ISSUE

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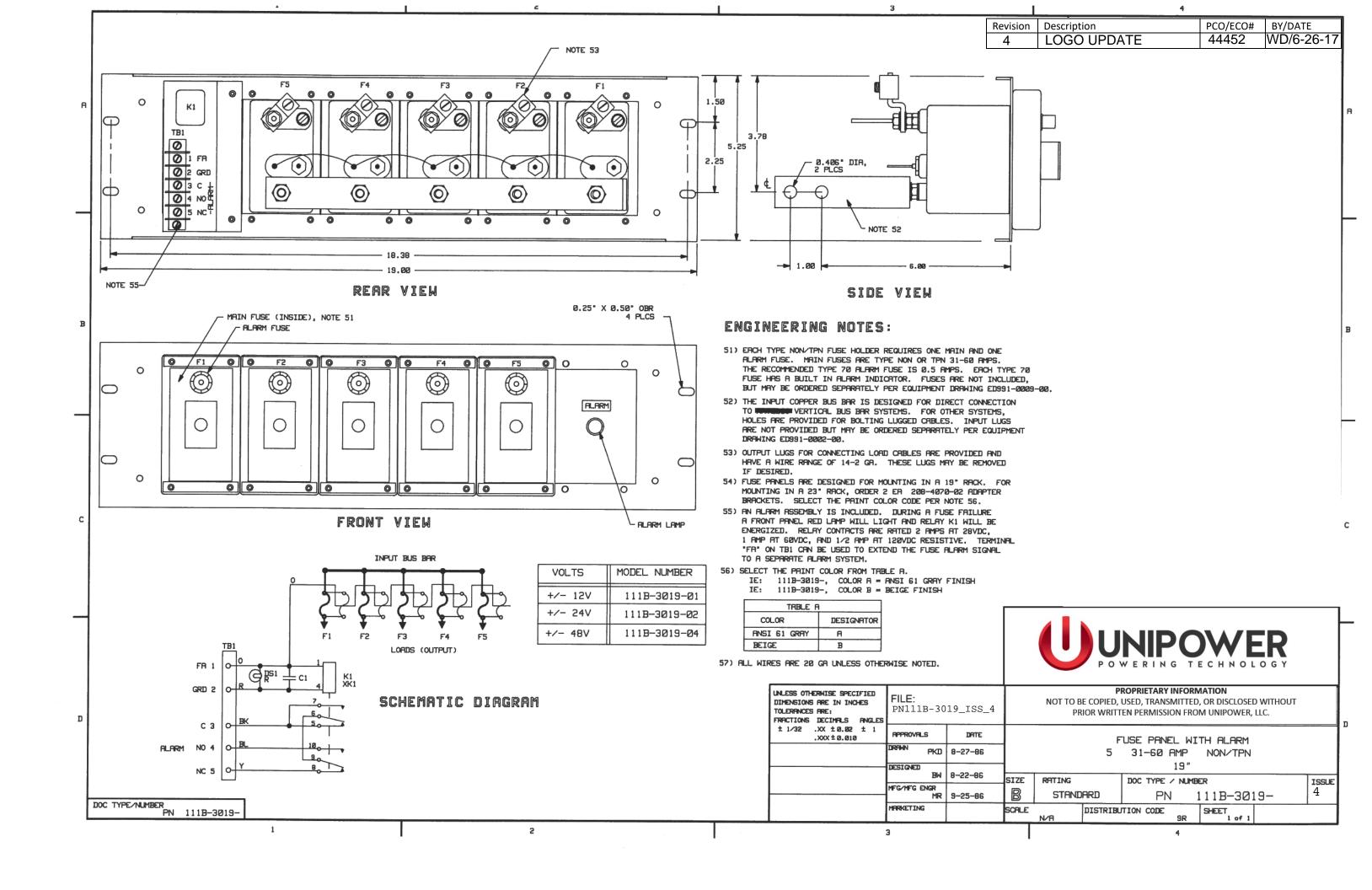
CALLOUT LIST 111B-3016-

				QUANTITY	QUANTITY	QUANTITY	QUANTITY
LINE #	NOTES	DESCRIPTION	PART NUMBERS	-00	-10	-13	-14
1		FUSE PANEL: 8 30/60A, 23"	200-2706-00	1	1	_	_
		FUSE PANEL: 8 30/60A, 23" E/W ALARM	202-7010-00	_	_	1	1
5		DUC DAD, FUCE DANEL 9 20A 1/9" , 1"	200 2702 10	1		_	
		BUS BAR: FUSE PANEL, 8-30A 1/8" x 1" BUS BAR: FUSE PANEL, 8, 30/60A, 23"	209-2702-10 209-4260-20	1 –	1		
		BUS BAR: FUSE PANEL, 6, 30/60A, 23 BUS BAR: FUSE TO SHUNT, 8, 30/60A	209-4261-00		1		1
		BUS BAR: FUSE PANEL, INPUT TO SHUNT	209-4261-00	_	1	<u> </u>	1
		BUSBAR: SHIFTED, W/O SHUNT, 8 POS	209-4266-00	_		1	
10		BOLT, HEX, SIL, BRONZE: 3/8-16 x 3/4"	210-8128-00	_	2		2
		SPCR: HEATSINK, HEX FIBREGLASS, 1. 25"	213-1410-00	_	1	_	1
		LABEL: FUSE 1 THRU FUSE 12	225-3100-411	1	1	1	1
		LUG: 2-14WR, 1/4" STUD, SLUH-90	253-0077-00	8	8	_	_
15							
		FUSE HOLDER: 30AMP	275-1300-00	8	8	8	8
		FUSE "DUMMY": .25" x 1.25" TYPE 70	276-0001-00	_	_	8	8
		ASSY: ALM BOARD, BKT, LABEL	385. 5152. 00A	_	_	1	1
		RES, SHUNT: METER, 200A 50mV	695-1080-03	_	1	_	1
20							
25							

PROPRIETARY INFORMATION

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PN 111B-3016 SCALE: NONE FILE NAME: PN111B-3016_SHT_4_ISS_3



ISS. BY ISS. DATE

WD

ISSUE

DESCRIPTION

4 SEE PCO# 44452

- 51. UNASSIGNED
- 52. EACH DEADFRONT FUSE HOLDER REQUIRES ONE MAIN AND ONE ALARM FUSE. MAIN FUSES ARE TYPE NON OR TYPE TPN 0-60 AMPS. THE RECOMMENDED TYPE 70 ALARM FUSE IS 0.5 AMPS. FUSES ARE NOT INCLUDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0009-00.
- 53. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO VERTICAL BUS BAR SYSTEM AND IS RATED FOR 400 AMPS MAX. FOR OTHER SYSTEMS HOLES ARE PROVIDED FOR BOLTING LUGGED CABLES. INPUT LUGS ARE NOT PROVIDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0002-00.
- 54. LUGS FOR OUTPUT CONNECTION MAY BE ATTACHED DIRECTLY TO FUSE-HOLDER STUDS. STUDS ARE 1/4"-20, WITH HARDWARE PROVIDED. LUGS ARE NOT PROVIDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-002-00.
- 55. A FUSE ALARM SIGNAL CAN BE EXTENDED TO A SEPARATE ALARM SYSTEM. CONNECT THE ALARM LEAD TO THE "FA+OUT" TERMINAL. IN NEGATIVE SYSTEMS. FUSE ALARM SIGNALS CONNECT "BAT" TO THE ALARM CONNECTION WHEN A FUSE CLEARS.
- 56. AMMETER SHUNTS ARE NORMALLY 200 AMPS 50mV; HOWEVER, CURRENT RATINGS UP TO 600 AMPS MAY BE SPECIFIED.
- 57. PAINT COLOR IS ANSI 61 GRAY.
- 58. THE MAXIMUM RECOMMENDED OUTPUT WIRE SIZE IS 6 GA. LARGER WIRE SIZES WILL REQUIRE ADDITIONAL RACK SPACES AND CABLE SUPPORTS.
- 59. BUBBLE REFERENCE DESIGNATORS REFER TO CALLOUT TABLE LINE NUMBER, SHEET 4.
- 60. UNITS NOT EQUIPPED WITH A SHUNT DO NOT HAVE R1. UNITS NOT EQUIPPED WITH A FUSE ALARM ASSEMBLY DO NOT HAVE A1.

1

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MANUFACTURING NOTES:

- 101. REPLACE THE BOLTS SUPPLIED WITH THE SHUNT WITH 3/8"-16 x 3/4" BOLTS, P/N 210-8128-00.
- 102. PROPER BUS BAR ARRANGEMENT IS CRITICAL, SEE FIGURE B1, SHFFT 3.
- 103. PUT SUPPLIED OUTPUT LUGS AND FUSE HOLDER DESIGNATION TAGS IN A BAG AND TIE WRAP TO THE INPUT BUS BAR.
- 104. [] DENOTES THAT THE INFORMATION IS FOR REFERENCE ONLY.
- 105. A COMPOUND SUCH AS CRAMOLIN 81Rh WILL BE APPLIED TO ALL JOINTED, FLAT, CONDUCTIVE SURFACES PER THE MANUFACTURER'S INSTRUCTIONS.
- 106. INSTALL DUMMY FUSE P/N 276-0001-00 IN ALARM FUSE HOLDERS ON XF1-6.

		TABLE A		
PART NUMBER	VOLTAGE	E/W SHUNT	E/W FA BOARD	FIGURES
111B-3021-00	±12 TO	NO	NO	
111B-3021-10	±130	YES	NO	
111B-3021-13	±24,	NO	YES	C1
111B-3021-14	-48 or ±130	YES	YES	C2

	"		6/28/17
UNLESS OT	TIEDWISE	1	
SPECIFIED DI ARE IN II	MENSIONS	APPROVALS	DATE
± TOLERANO	ES ON:	DRAWN PKD	9/25/86
HOLES	+0.004	CHECKED BW	9/24/86
FRACTIONS DECIMALS (XX)	±1/32 ±0.020	APPROVED MR	10/1/86
DECIMALS (XXX)	±0.010	APPROVED	10/1/80
ANGLES	±1/2°		
	IND ANGLES ARE 9	90° UNLESS OTHERWISE SPECIFIE	D.
WORKMANSHIP: PER SPEC ENGO)32		
MATERIAL:			
FINISH:			
	PROPRIETA	ARY INFORMATION	

SHEET INDEX NOTE:

SHEET INDEX 1 2 3 4 4 3 3

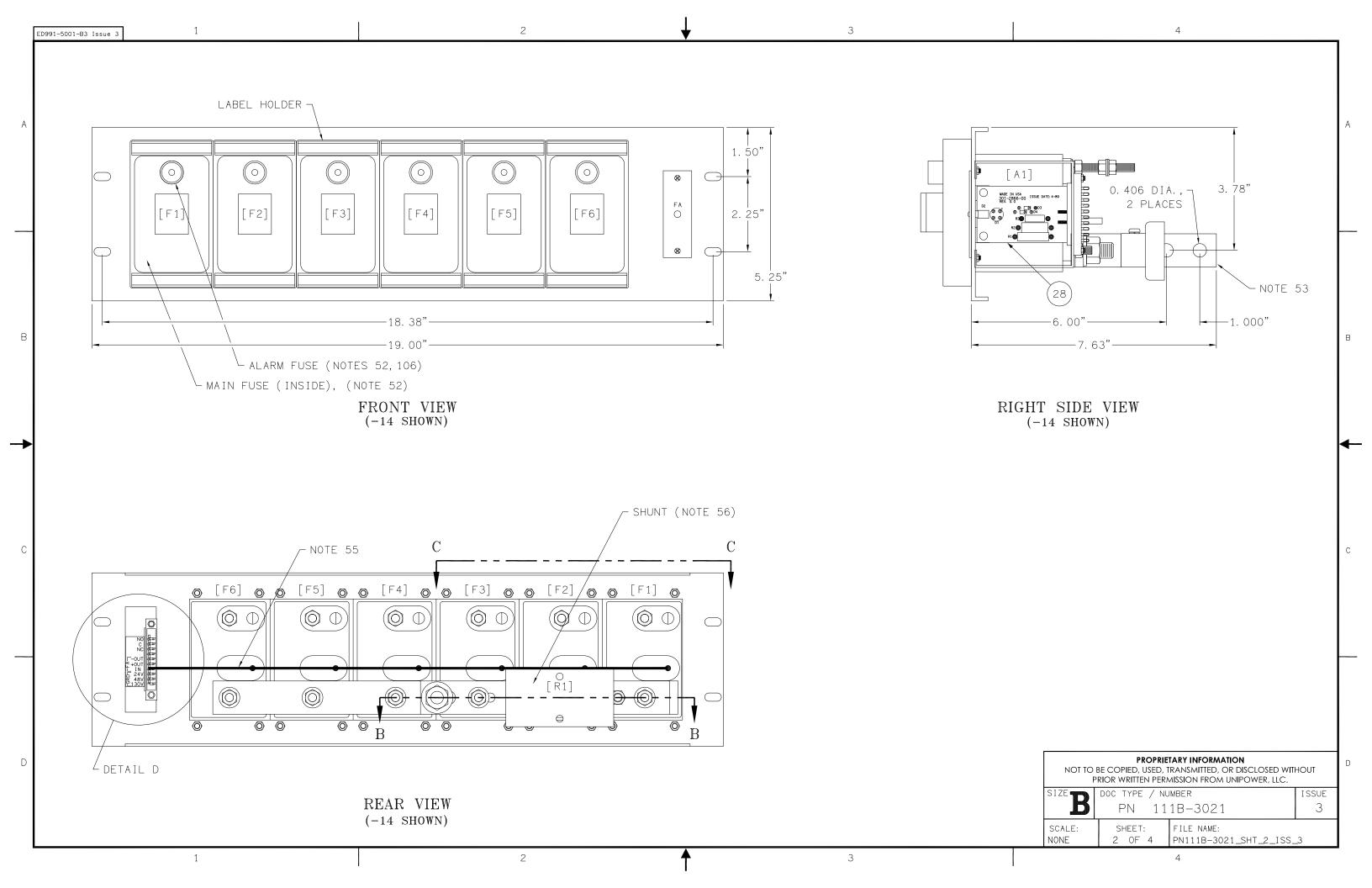
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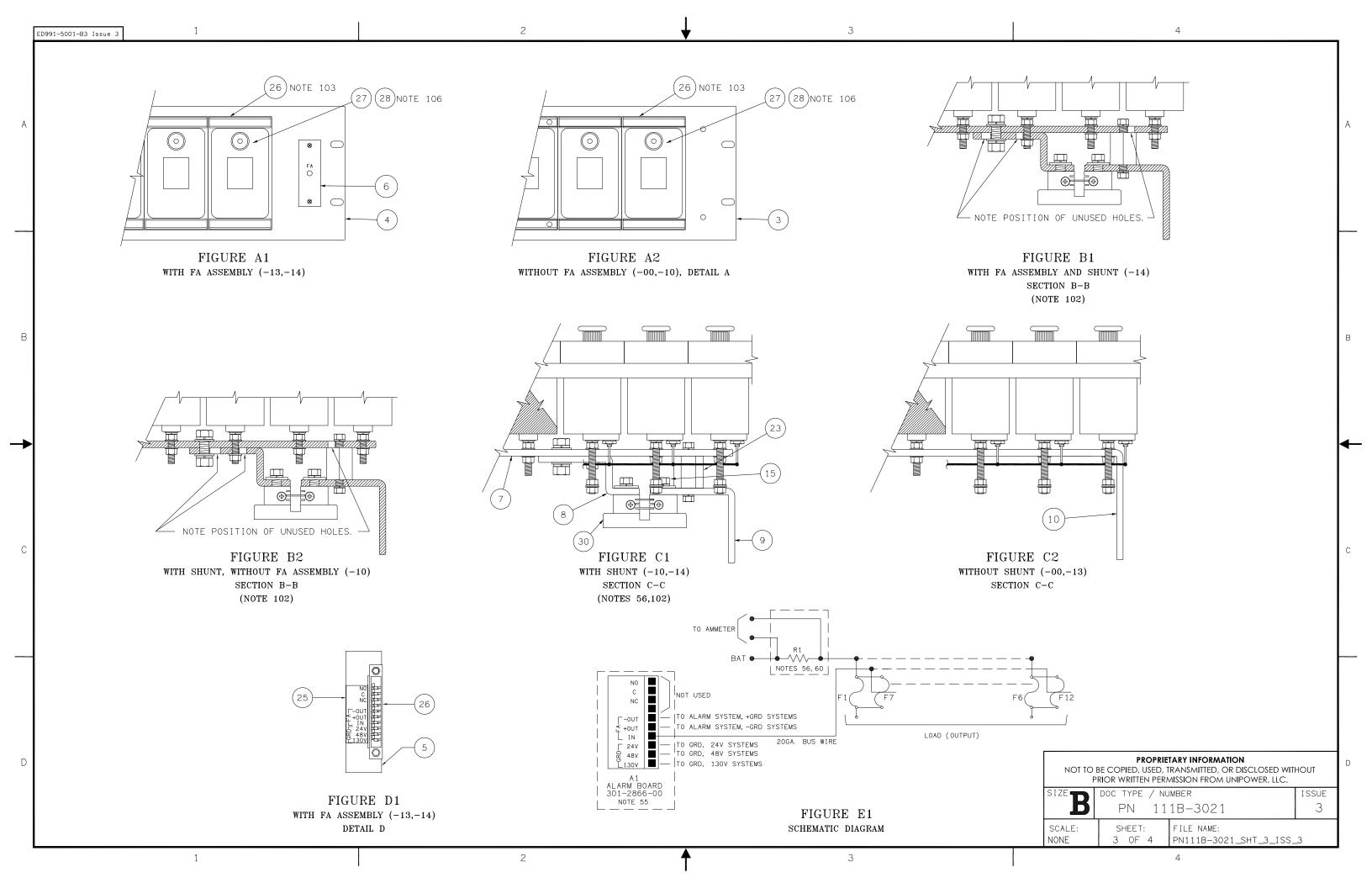


FUSE PANEL 6. 0-60 AMP NON/TPN

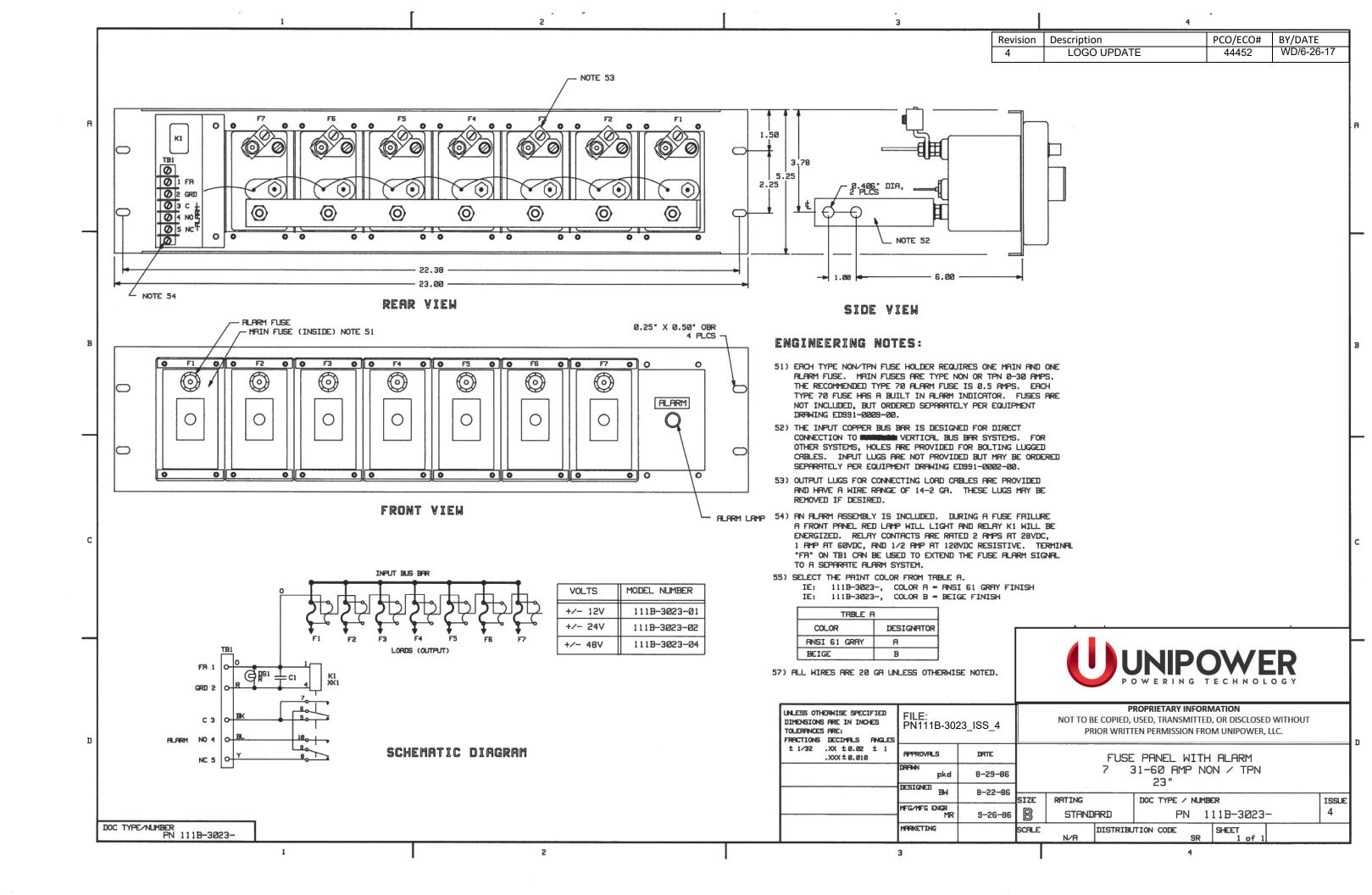
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B I	PN 111	B-3021	4
SCALE: N/A		FILE NAME: PN111B-3021_SHT_1_ISS_4	

2





	CALLOUT TABLE 1	111B-3021-					
INE NOT	TES DESCRIPTION	PART NUMBERS	QUANTITY -00	QUANTITY -10	QUANTITY -13	QUANTITY -14	
1	SLEEVING, TEFLON TW, CLR, #8	032-0110-00	24"	24"	24"	24"	
	WIRE, BUS: 20 GA TINNED	050-6250-00	24"	24"	24"	24"	
	FUSE PANEL: 6 30/60A 19"	202-3261-00	_	_	1	1	
	FUSE PANEL: 6 30/60A 19" E/W ALARM	202-7010-01	_	_	1	1	
5	BKT: CONNECTOR BKT, 10 POSITION	208-5152-00	_	_	1	1	
	BKT: FRONT ACCESS BKT, FA BOARD, SS	208-5152-10	_	_	1	1	
	BUS BAR: FUSE PANEL, 6 30/60A 19"	209-4260-21	_	1	_	1	
	BUS BAR: FUSE TO SHUNT, 8 30/60A	209-4261-00	_	1	_	1	
	BUS BAR: FUSE PANEL, INPUT TO SHUNT 8 30/60A	209-4262-00	_	1	_	1	
10	BUS BAR: SHIFTED, W/O SHUNT, 6 POS, 19" PNL	209-4266-01	1	_	1	_	
	SCREW: SS, HEX HD. 5/16-18 x 1"	210-1288-00	_	1	_	1	
	SCREW: STL, MS, 4-40 x 5/8" PHIL P. HD.	210-1330-00	_	_	2	2	
	SCREW: STL, MS, SEMS, 6-32 x 3/8 PHIL P/HD	210-1430-00	_	_	2	2	
	SCREW: STL IND HEX HD SEMS, 1/4 x1/2", ZINC	210-7004-01	_	_	_	2	
15	BOLT, HEX, SIL, BRONZE: 3/8-16 x 3/4"	210-8128-00	_	_	_	2	
	NUT, HEX STL: 4-40, ZINC, "KEPS"	211-0466-00	_	_	8	8	
	NUT, HEX STL: 6-32, ZINC, 5/16" AF "KEPS"	211-0476-00	24	24	24	24	
	NUT, HEX SS: 3/8-16	211-0533-00	_	1	_	1	
	LOCKWASHER, SHKPF: 1/4 INTERNAL	212-0500-00	6	6	6	6	
20	LOCKWASHER: DISH, STL, SHKPF, #6	212-0501-05	1	1	1	1	
	WASHER, FLAT SS: 3/8" US "STD"	212-2518-00	_	2	_	2	
	WASHER, BELLEVILLE, SS: 3/8 x .750"	212-5758-00	_	2	_	2	
	*SPACER: HEATSINK, HEX FIBERGLASS, 1.25" GLASTIC	213-1410-00	_	1	_	1	
	LABEL: FUSE 1 THRU FUSE 12 NON 1-60A FUSE	225-3100-411	1	1	1	1	
25	LABEL: GRD, FA IN, FA OUT, FORM C, CB CONN	225-3100-435	_	_	1	1	
	CONN., PCB: 10 PIN SOLDER EYE, 307-010-501-104	265-0010-00	_	_	1	1	
	*FUSE HOLDER: 30AMP 64-L1	275-1300-00	6	6	6	6	
	FUSE "DUMMY": TYPE 70	276-0001-00	_	_	6	6	
	ALARM BOARD: FA 24,48,130VDC W/O RELAY	301-2866-00	_	_	1	1	
30	RES, SHUNT: METER, 200A 50MV	695-1080-03	_	-	_	1	
1							
							PROPRIETARY INFORMATION NOT TO BE COPIED, USED, TRANSMITTED, OR DISCLOSED W PRIOR WRITTEN PERMISSION FROM UNIPOWER, LLC
							B DOC TYPE / NUMBER PN 111B-3021
							SCALE: SHEET: FILE NAME: NONE 4 OF 4 PN111B-3021_SHT_4_IS:



ISS. BY ISS. DATE

WD

6/28/17

ISSUE

DESCRIPTION

SEE PCO# 44452

- 52. EACH DEADFRONT FUSE HOLDER REQUIRES ONE MAIN AND ONE ALARM FUSE. MAIN FUSES ARE TYPE NON OR TYPE TPN 0-30 AMPS. THE RECOMMENDED TYPE 70 ALARM FUSE IS 0.5 AMPS. FUSES ARE NOT INCLUDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0009-00.
- 53. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO VERTICAL BUS BAR SYSTEMS AND RATED FOR 400 AMPS MAX. FOR OTHER SYSTEMS, HOLES ARE PROVIDED FOR BOLTING LUGGED CABLES. INPUT LUGS ARE NOT PROVIDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0002-00.
- 54. CRIMP LUGS MAY BE ATTACHED DIRECTLY TO FUSE-HOLDER STUDS. STUDS ARE 1/4"-20, WITH HARDWARE PROVIDED. COMPRESSION LUGS FOR CONNECTING LOAD CABLES ARE PROVIDED ON -00 AND -10 PANELS, AND HAVE A WIRE RANGE OF 14-2 GA.
- 55. A FUSE ALARM SIGNAL CAN BE EXTENDED TO A SEPARATE ALARM SYSTEM.
 - 1) UNITS NOT EQUIPPED WITH A FUSE ALARM BOARD (-00.-10): CONNECT ALARM LEAD TO THE ALARM POST BY WIRE WRAPPING OR SOLDERING.
 - 2) UNITS EQUIPPED WITH A FUSE ALARM BOARD (-13.-14): SEE SCHEMATIC DIAGRAM ON SHEET 3 FOR ALARM CONNECTION.

FUSE ALARM SIGNALS CONNECT "BAT" TO THE ALARM CONNECTION WHEN A FUSE CLEARS.

- 56. AMMETER SHUNTS ARE NORMALLY 200 AMPS 50mV: HOWEVER. CURRENT RATINGS UP TO 600 AMPS MAY BE SPECIFIED. SEE FIGURE B2. SECTION B-B FOR SHUNT AND BUSWORK DETAILS.
- 57. PAINT COLOR IS ANSI 61 GRAY.
- 58. THE MAXIMUM RECOMMENDED OUTPUT WIRE SIZE IS 6 GA. LARGER WIRE SIZES WILL REQUIRE ADDITIONAL RACK SPACES AND CABLE SUPPORTS.

ENGINEERING NOTES (CONT'D)

- 59. BUBBLE REFERENCE DESIGNATORS REFER TO CALLOUT TABLE LINE NUMBER, SHEET 4.
- 60. UNITS NOT EQUIPPED WITH A SHUNT DO NOT HAVE R1. UNITS NOT EQUIPPED WITH A FUSE ALARM ASSEMBLY DO NOT HAVE A1.

MANUFACTURING NOTES

- 101. REPLACE THE BOLTS SUPPLIED WITH THE SHUNT WITH 3/8"-16 x 3/4" BOLTS. P/N 210-8128-00.
- 102. PROPER BUS BAR ARRANGEMENT IS CRITICAL, SEE FIGURE B1 AND B2, SHEET 3.
- 103. PUT SUPPLIED OUTPUT LUGS AND FUSE HOLDER DESIGNA-TION TAGS IN A BAG AND TIE WRAP TO THE INPUT BUS BAR.
- 104. [] DENOTES THAT THE INFORMATION IS FOR REFERENCE ONLY.
- 105. A COMPOUND SUCH AS CRAMOLIN 81Rh WILL BE APPLIED TO ALL JOINTED, FLAT, CONDUCTIVE SURFACES PER THE MANU-FACTURER'S INSTRUCTIONS.
- 106. INSTALL DUMMY FUSE P/N 276-0001-00 IN ALARM FUSE HOLDERS ON XF1-8.

		TABLE A		
PART NUMBER	VOLTAGE	E/W SHUNT	E/W FA BOARD	FIGURES
111B-3025-00	±12-130V	NO	NO	A2,C2
111B-3025-10	±12-130V	YES	NO	A2,B2,C1
111B-3025-13	.04 40	NO	YES	A1,C2
111B-3025-14	+24, -48	YES	YES	A1,B1,C1

SHEET INDEX

SH NO	1	2	3	4		
ISSUE	9	3	3	3		

				A
				E
L SPE	UNLESS OTHERWISE ECIFIED DIMENSIONS ARE IN INCHES	APPROVALS	DATE	┇
±	TOLERANCES ON:	DRAWN PKD	10/6/86	_[`
HOLES	+0.004 -0.002	CHECKED BW	10/6/86	
FRACTION	•	APPROVED	,.,.	1
DECIMALS DECIMALS				4
ANGLES	±1/2°	APPROVED		ı
SQUARE C	ORNERS AND ANGLES ARE 90° U	NLESS OTHERWISE SPECIFIED.		1
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SHEET INDEX NOTE:

1

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.

2

FUSE PANEL 8, 31-60 AMP

NON/TPN

111B-3025

FILE NAME:

PN111B-3025 SHT 1 ISS 9

ISSUE

9

DOC TYPE / NUMBER

PN

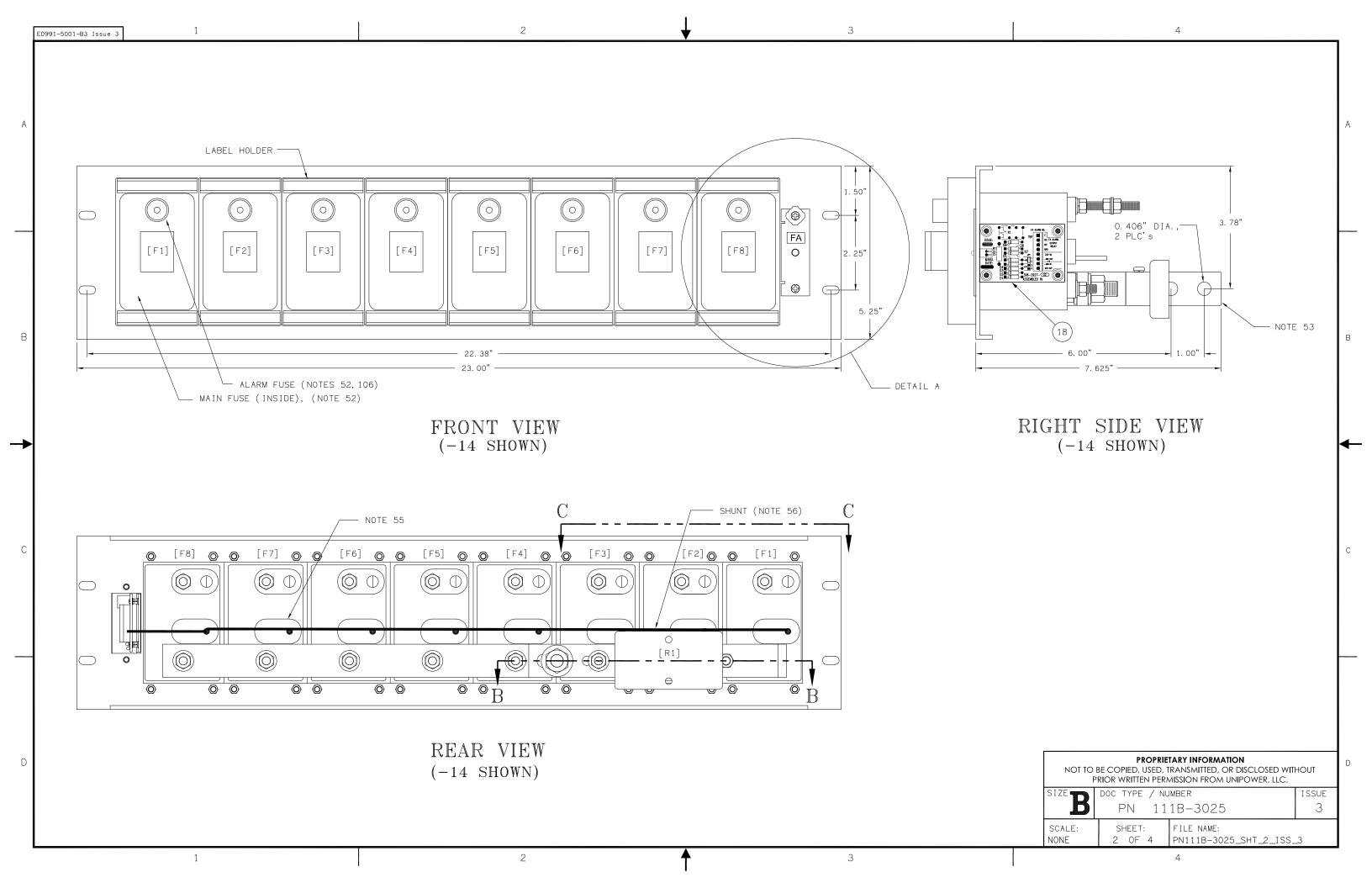
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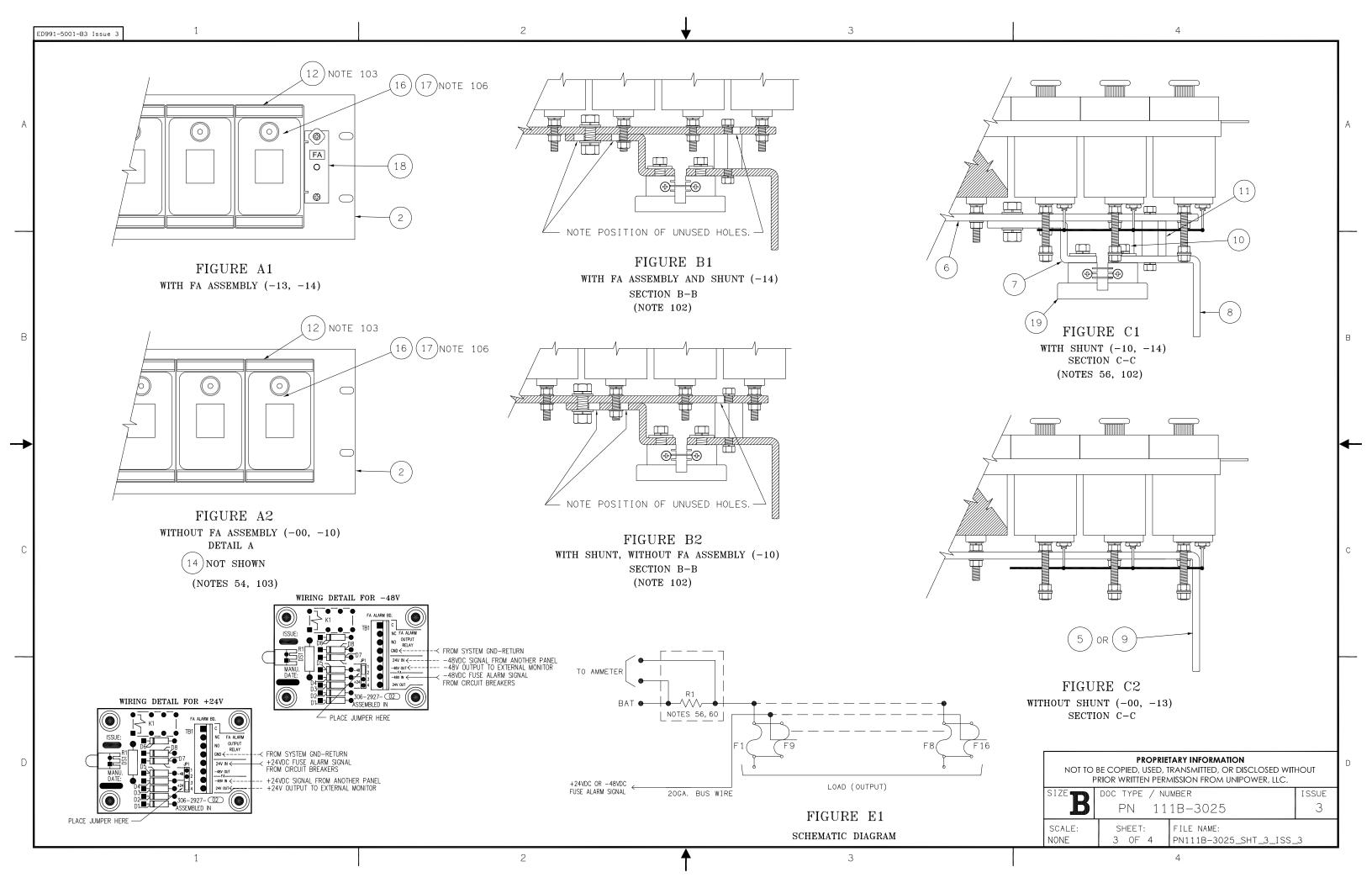
1 OF 4

SIZE

SCALE:

N/A





CALLOUT LIST 111B-3025-

			QUANTITY	QUANTITY	QUANTITY	QUANTITY
LINE NOTES	DESCRIPTION	PART NUMBERS	-00	-10	-13	-14
1	FUSE PANEL: 8 30/60A, 23"	200-2706-00	1	1	_	_
	FUSE PANEL: 8 30/60A, 23" E/W ALARM	202-7010-00	_	_	1	1
5	BUS BAR: FUSE PANEL, 8-60A 1/4" x 1"	209-2702-09	1	_	_	_
	BUS BAR: FUSE PANEL, 8, 30/60A, 23"	209-4260-20	_	1	_	1
	BUS BAR: FUSE TO SHUNT, 8, 30/60A	209-4261-00	_	1	_	1
	BUS BAR: FUSE PANEL, INPUT TO SHUNT	209-4262-00	_	1	_	1
	BUSBAR: SHIFTED, W/O SHUNT, 8 POS	209-4266-00	_	_	1	_
10	BOLT, HEX, SIL, BRONZE: 3/8-16 x 3/4"	210-8128-00	_	2	_	2
	SPCR: HEATSINK, HEX FIBREGLASS, 1.25"	213-1410-00	_	1	_	1
	LABEL: FUSE 1 THRU FUSE 12	225-3100-411	1	1	1	1
	LUG: 2-14WR, 1/4" STUD, SLUH-90	253-0077-00	8	8	_	_
15	FUSE HOLDER: 60AMP	275-1400-00	8	8	8	8
	FUSE "DUMMY": .25" x 1.25" TYPE 70	276-0001-00	_	_	8	8
	ASSY: ALM BOARD, BKT, LABEL	385-5152-00A	_	_	1	1
	RES, SHUNT: METER, 400A 50mV	695-1091-03	_	1	_	1
20						
25						

PROPRIETARY INFORMATION

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ISSUE PN 111B-3025 SCALE: NONE FILE NAME: 4 OF 4 PN111B-3025_SHT_4_ISS_3

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ISSUE

DESCRIPTION

- 51. UNASSIGNED.
- 52. EACH DEADFRONT FUSE HOLDER REQUIRES ONE MAIN AND ONE ALARM FUSE. MAIN FUSES ARE TYPE NON OR TPN 0-60 AMPS. THE RECOMMENDED TYPE 70 ALARM FUSE IS 0.5 AMPS. FUSES ARE NOT INCLUDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0009-00.
- 53. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO VERTICAL BUS BAR SYSTEMS AND RATED FOR 400 AMPS MAX. FOR OTHER SYSTEMS. HOLES ARE PROVIDED FOR BOLTING LUGGED CABLES. INPUT LUGS ARE NOT PROVIDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0002-00.
- 54. CRIMP LUGS MAY BE ATTACHED DIRECTLY TO FUSE-HOLDER STUDS. STUDS ARE 1/4"-20. WITH HARDWARE PROVIDED. COMPRESSION LUGS FOR CONNECTING LOAD CABLES ARE PROVIDED ON -00 AND -10 PANELS. AND HAVE A WIRE RANGE OF 14-2 GA.
- 55. A FUSE ALARM SIGNAL CAN BE EXTENDED TO A SEPARATE ALARM SYSTEM.
 - 1) UNITS NOT EQUIPPED WITH A FUSE ALARM BOARD (-00,-10): CONNECT ALARM LEAD TO THE ALARM POST BY WIRE WRAPPING OR SOLDERING.
 - 2) UNITS EQUIPPED WITH A FUSE ALARM BOARD (-13.-14): CONNECT THE ALARM LEAD TO THE "FA-OUT" TERMINAL ON XA1, IN POSITIVE GRD SYSTEMS OR TO THE "FA+OUT" TERMINAL, IN NEGATIVE SYSTEMS.

FUSE ALARM SIGNALS CONNECT "BAT" TO THE ALARM CONNECTION WHEN A FUSE CLEARS.

- 56. AMMETER SHUNTS ARE NORMALLY 200 AMPS 50mV; HOWEVER, CURRENT RATINGS UP TO 600 AMPS MAY BE SPECIFIED. SEE FIGURE B2, SECTION B-B FOR SHUNT AND BUSWORK DETAILS.
- 57. PAINT COLOR IS ANSI 61 GRAY.

SHEET INDEX NOTE:

1

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.

ENGINEERING NOTES: (CONT)

- 58. THE MAXIMUM RECOMMENDED OUTPUT WIRE SIZE IS 6 GA. LARGER WIRE SIZES WILL REQUIRE ADDITIONAL RACK SPACES AND CABLE
- 59. BUBBLE REFERENCE DESIGNATORS REFER TO CALLOUT TABLE LINE NUMBER, SHEET 4.
- 60. UNITS NOT EQUIPPED WITH A SHUNT DO NOT HAVE R1. UNITS NOT EQUIPPED WITH A FUSE ALARM ASSEMBLY DO NOT HAVE A1.

MANUFACTURING NOTES:

- 101. REPLACE THE BOLTS SUPPLIED WITH THE SHUNT WITH 3/8"-16 x 3/4" BOLTS, P/N 210-8128-00.
- 102. PROPER BUS BAR ARRANGEMENT IS CRITICAL, SEE FIGURE B1 AND B2. SHEET 3.
- 103. PUT SUPPLIED OUTPUT LUGS AND FUSE HOLDER DESIGNA-TION TAGS IN A BAG AND TIE WRAP TO THE INPUT BUS BAR.
- 104. [] DENOTES THAT THE INFORMATION IS FOR REFERENCE ONLY.
- 105. A COMPOUND SUCH AS CRAMOLIN 81Rh WILL BE APPLIED TO ALL JOINTED. FLAT. CONDUCTIVE SURFACES PER THE MANU-FACTURER'S INSTRUCTIONS.
- 106. INSTALL DUMMY FUSE P/N 276-0001-00 IN ALARM FUSE HOLDERS ON XF1-8.

		TABLE A		
PART NUMBER	VOLTAGE	E/W SHUNT	E/W FA BOARD	FIGURES
111B-3035-00	±12 - 130V	NO	NO	A2,C2
111B-3035-10	±12 - 130V	YES	NO	A2,B2,C1
111B-3035-13	±24,48 OR 130V	NO	YES	A1,C2,D1
111B-3035-14	±24,48 OR 130V	YES	YES	A1,B1,C1,D1

SHEET INDEX

SH NO	1	2	3	4		
ISSUE	5	2	2	2		

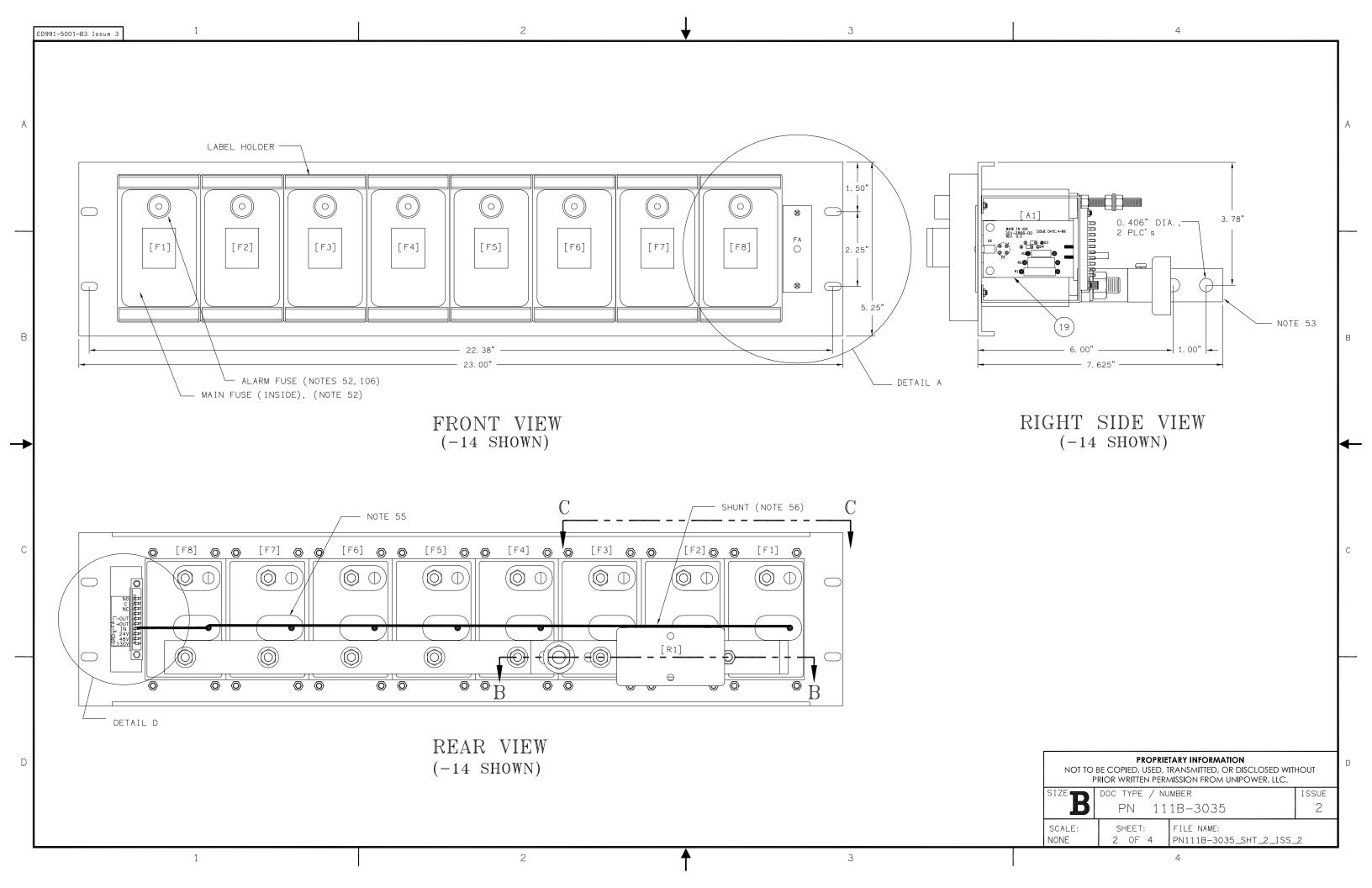
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± TOLERAN	CES ON:	DRAWN PKD	10	0/6/86	
HOLES	+0.004 -0.002	CHECKED BW	10	/28/86	1
FRACTIONS	±1/32	APPROVED	10	720700	1
DECIMALS (XX) DECIMALS (XXX)	±0.020 ±0.010	APPROVED			ł
ANGLES	±1/2°	ATTIOVED			
SQUARE CORNERS AN	ND ANGLES ARE 90°	UNLESS OTHERWISE SPECIFIED.]
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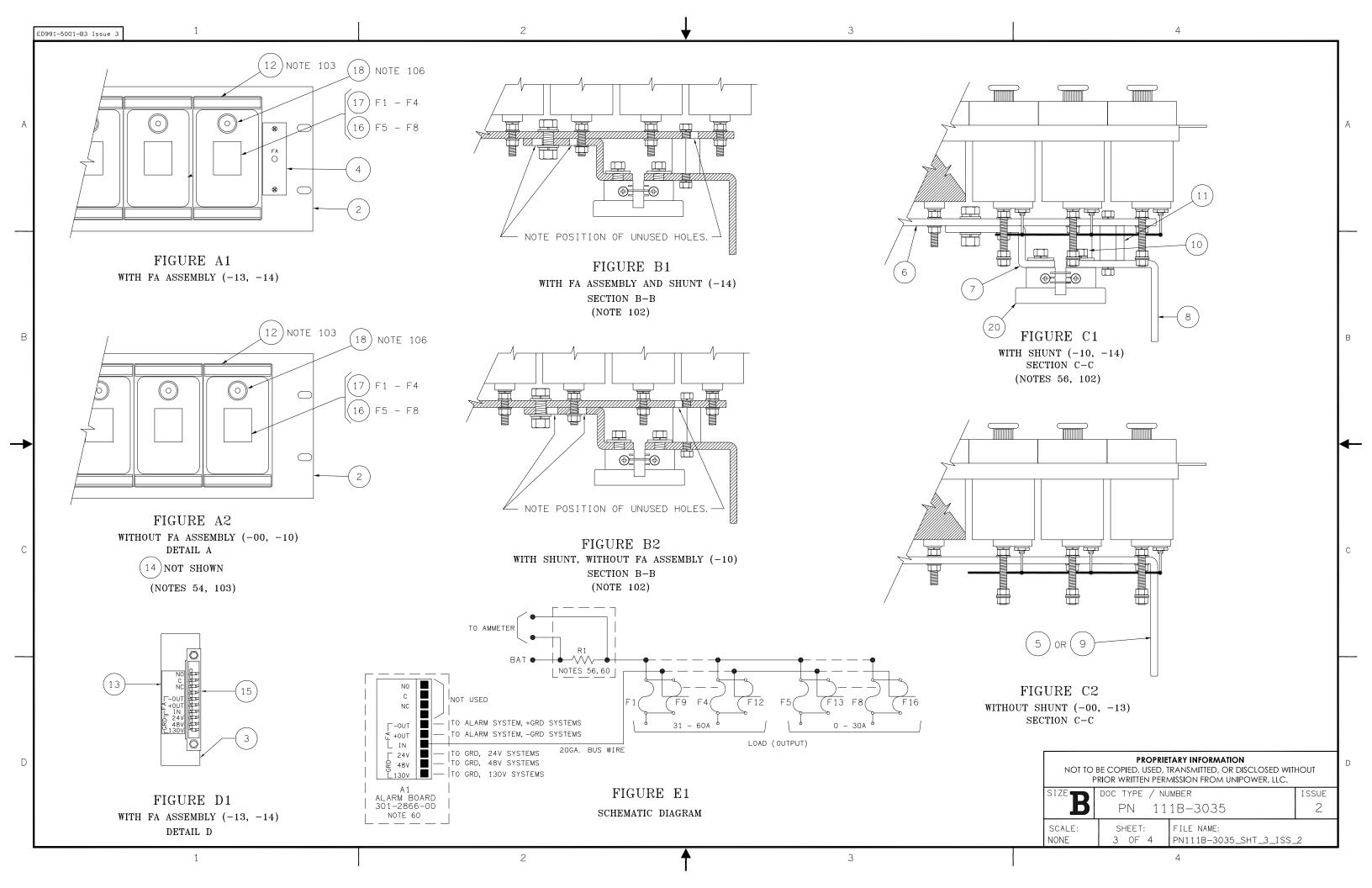


FUSE PANEL 4 EA, 30/60A, NON OR TPN 5.25" X 23"

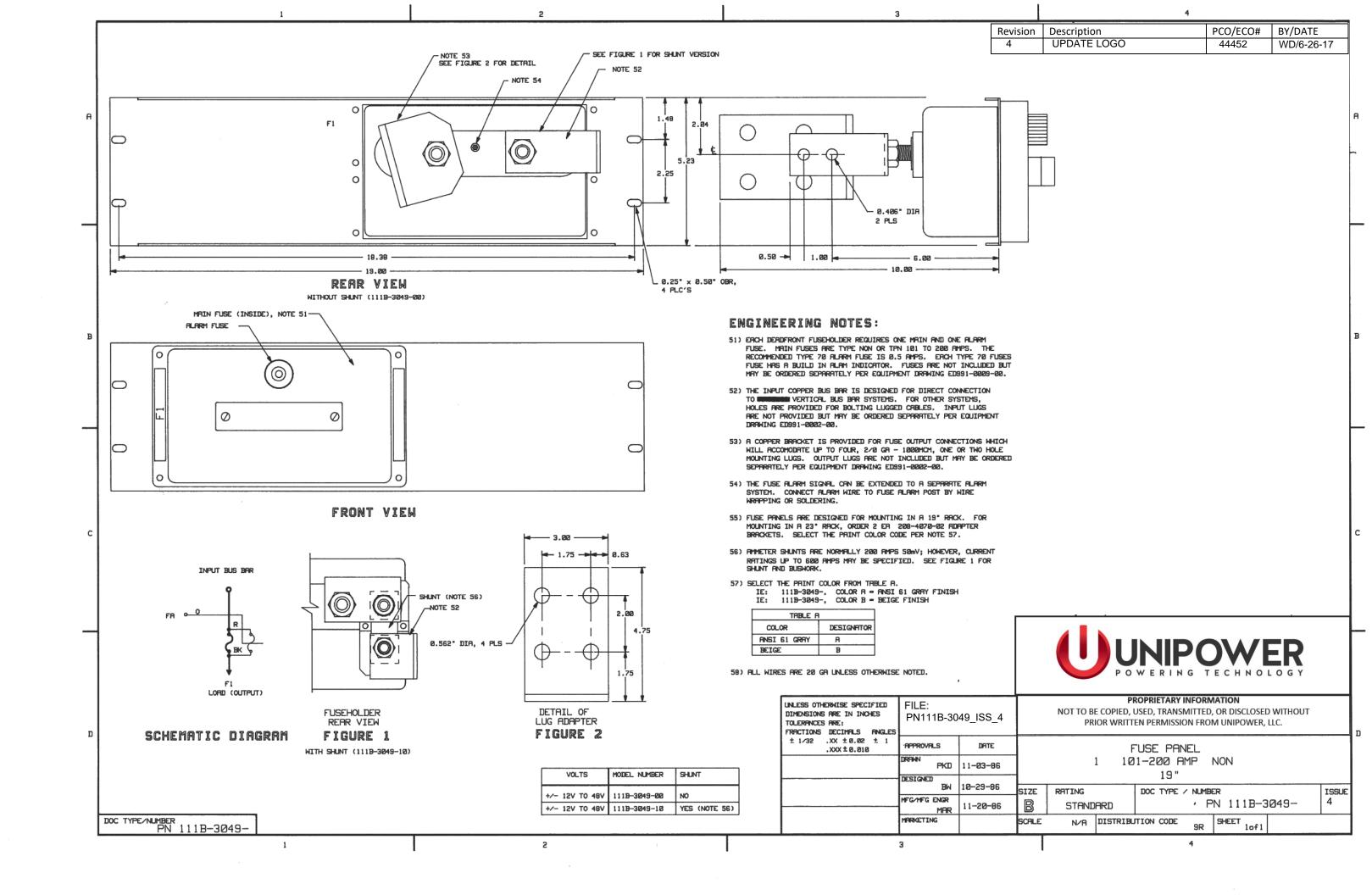
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INE	NOTES	DESCRIPTION	PART NUMBERS	QUANTITY -00	QUANTITY -10	QUANTITY -13	QUANTITY -14	
#								_
1		FUSE PANEL: 8 30/60A, 23"	200-2706-00	1	1	_		_
		FUSE PANEL: 8 30/60A, 23" E/W ALARM BKT: CONNECTOR BKT, 10 POSITION	202-7010-00 208-5152-00	_	_	1	1	_
				_	_	1	1	_
5		BKT: FRONT ACCESS BKT, FA BOARD, SS	208-5152-10		_	1	1	_
5		BUS BAR: FUSE PANEL, 8-30A 1/8" x 1"	209-2702-10	1	_	_	_	_
		BUS BAR: FUSE PANEL, 8, 30/60A, 23"	209-4260-20	_	1	_	1	
		BUS BAR: FUSE TO SHUNT, 8, 30/60A	209-4261-00	_	1	-	1	_
		BUS BAR: FUSE PANEL, INPUT TO SHUNT	209-4262-00	_	1	_	1	_
		BUSBAR: SHIFTED, W/O SHUNT, 8 POS	209-4266-00	_	_	1	_	 -
10		BOLT, HEX, SIL, BRONZE: 3/8-16 x 3/4"	210-8128-00	_	2	_	2	
		SPCR: HEATSINK, HEX FIBREGLASS, 1. 25"	213-1410-00	_	1	_	1	
		LABEL: FUSE 1 THRU FUSE 12	225-3100-411	1	1	1	1	
		LABEL: GRD, FA IN, FA OUT	225-3100-435	_	_	1	1	
		LUG: 2-14WR, 1/4" STUD, SLUH-90	253-0077-00	8	8	_	_	
15		CONN., PCB: 10 PIN SLDR EYE	265-0010-00	_	_	1	1	
		FUSE HOLDER: 30AMP	275-1300-00	4	4	4	4	
		FUSE HOLDER: 60AMP	275-1400-00	4	4	4	4	
		FUSE "DUMMY": .25" x 1.25" TYPE 70	276-0001-00	8	8	8	8	
		ALARM BRD: FA 24, 48, 130VDC W/O RELAY	301-2866-00	_	_	1	1	
20		RES, SHUNT: METER, 200A 50mV	695-1080-03	_	1	_	1	
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								NONE 4 OF 4 PN111B-3035_SHT_4_ISS



ENGINEERING NOTES:

51. SELECT FUSE PANEL FROM TABLE A.

- 52. FACH DEADERONT FUSEHOLDER REQUIRES ONE MAIN AND ONE ALARM FUSE. MAIN FUSES ARE TYPE TPL. 61 TO 600 AMPS. THE RECOMMENDED TYPE 70 ALARM FUSE IS 0.5 AMPS. FUSES ARE NOT INCLUDED BUT MAY BE ORDERED SEPARATELY PER FOUIPMENT DRAWING FD991-0009-00
- 53. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO VERTICAL BUS BAR SYSTEMS. FOR OTHER SYSTEMS, HOLES ARE PROVIDED FOR BOLTING LUGGED CABLES, INPUT LUGS ARE NOT PROVIDED BUT MAY BE ORDERED SEPARATELY.
- 54. THE OUTPUT COPPER BUS BAR IS DESIGNED FOR BOTH, BELL STANDARD LUGS. 1" CENTER TO CENTER SPACING WITH 3/8" HARDWARE AND NEMA STANDARD LUGS, 1-3/4" CENTER TO CENTER SPACING WITH 1/2" HARDWARE.
- 55. A FUSE ALARM SIGNAL CAN BE EXTENDED TO A SEPARATE ALARM SYSTEM. CONNECT THE ALARM LEAD TO THE "FA-OUT" TERMINAL ON XA1 IN POSITIVE GROUND SYSTEMS OR TO THE "FA+OUT" TERMINAL IN NEGATIVE SYSTEMS. FUSE ALARM SIGNALS CON-NECT "BAT" TO THE ALARM CONNECTION WHEN A FUSE CLEARS. A FUSE ALARM ASSEMBLY EQUIPPED WITH AN ALARM RELAY IS AVAILABLE, ORDER PER EQUIPMENT DRAWING ED991-0009-00.
- 56. AMMETER SHUNTS ARE NORMALLY 600 AMPS 50mV; HOWEVER, OTHER CURRENT RATINGS MAY BE SPECIFIED. PANEL CURRENT MUST NOT EXCEED 600 AMPS.
- 57. STANDARD PAINT COLOR IS ANSI 61 GRAY.
- 58. NON FA VERSIONS DO NOT INCLUDE A1.
- 59. NON SHUNTED VERSIONS DO NOT INCLUDE R1.
- 60. BUBBLE REFERENCE DESIGNATORS REFER TO CALLOUT TABLE LINE NUMBER.
- 62. FUSE PANELS ARE DESIGNED FOR MOUNTING IN A 19" RACK. FOR MOUNTING MOUNTING IN A 23" RACK, ORDER 2 EA. 208-4070-02 ADAPTER BRACKETS.

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.

MANUFACTURING NOTES:

- 101. ANTI-OXIDATION COATING WILL BE APPLIED BETWEEN ALL LAYERS OF LAMINATED COPPER BUS STRUCTURE A COMPOUND SUCH AS CRAMOUN 81Rh WILL BE APPLIED TO ALL JOINTED FLAT CONDUCTIVE SURFACES PER THE MANUFACTURER'S INSTRUCTIONS.
- 103. MOUNT WIRE LUG BETWEEN BUS BAR AND LARGE MOUNTING WASHER.
- 104. REPLACE BOLTS SUPPLIED WITH SHUNT WITH P/N 210-8128-00. USE WASHERS SUPPLIED WITH SHUNT.
- 105. ALL WIRES ARE 20 GA UNLESS OTHERWISE NOTED.
- 106. SECURE ALL BUSSES AT A 45° ANGLE. AS SHOWN.
- 107. INSTALL DUMMY FUSE. P/N 276-0001-00. IN XF2.

	TABLE A										
PART NUMBER	VOLTAGE	SHUNT	FUSE ALARM	RATING							
111B-3068-00	±12VDC			MD							
111B-3068-01	+24,-48VDC		YES	STD							
111B-3068-10	±12VDC	600A		MD							
111B-3068-11	+24,-48VDC	600A	YES	STD							

SHEET INDEX

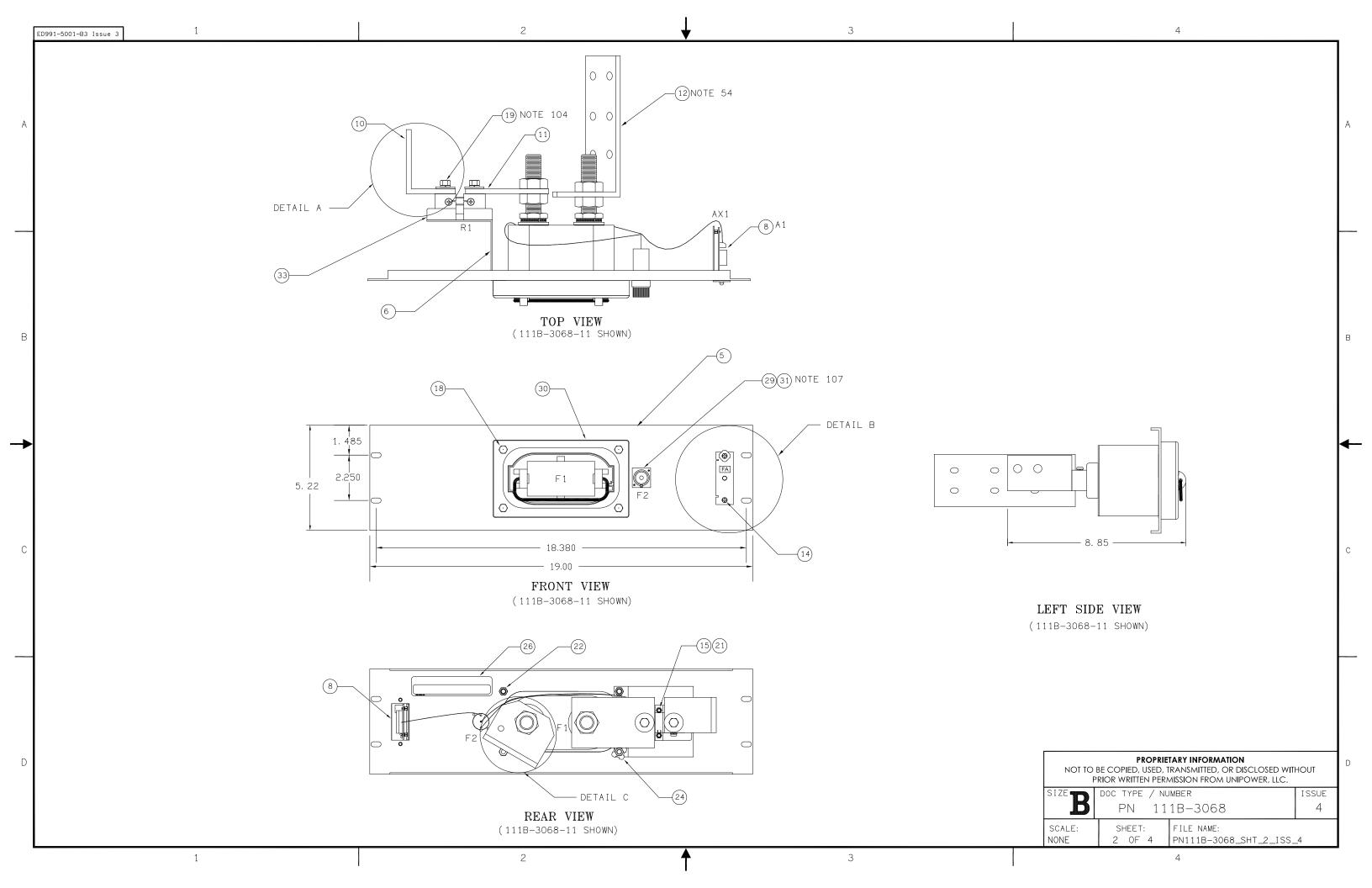
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NUMBER	1	2	3	4	5	6	7	8		
1	1	2	3	4	5	6	7			
2		1	2	2	3	4	4			
3		1	2	3	4	5	5			
4		1	2	2	3	4	4			
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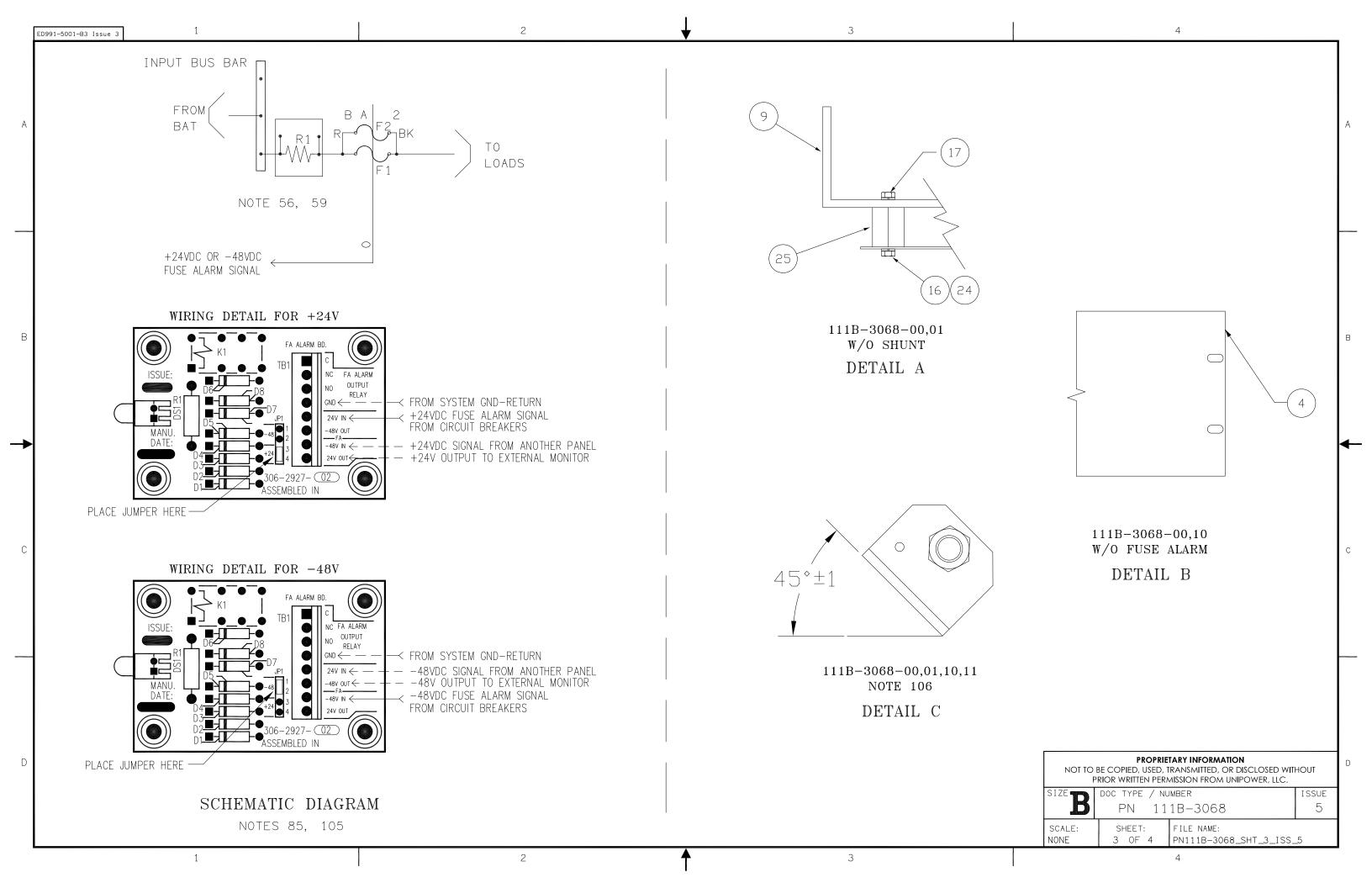
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±	ARE IN TOLERA				DRAWN PKD	11	/17/86	•
HOLES			+0.004		CHECKED			
FRACTIO	NS		±1/32		BW APPROVED	 /	/26/87	
DECIMAL			±0.020		JW	11	/7/95	
DECIMAL ANGLES	S (XXX)		±0.010)	APPROVED			
	CORNERS	S AND		ARE 90)* Unless otherwise specified.			
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1 OF 4

PN111B-3068_SHT_1_ISS_7





ED991-5001-B3 Issue 3 1 4

CALLOUT LIST 111B-3068-

				QUANTITY	QUANTITY	QUANTITY	QUANTIT
_INE #	NOTES	DESCRIPTION	PART NUMBERS	-00	-01	-10	-11
1		20 GA: BLACK; 10 INCHES	051-2000-10	1	1	1	1
		20 GA: RED; 10 INCHES	051-2022-10	1	1	1	1
		20 GA: ORANGE; 9 INCHES	051-2033-09	_	_	1	1
		1 X 600A FUSE PANEL, 19"	202-3536-02	1	_	1	_
5		FUSE PNL: 1-400/600A W/FA, 5.25 x 19"	202-3536-04	_	1	_	1
		SHUNT BRACKET	208-4090-01	1	1	1	1
		ASSY: ALARM BOARD, BKT, LABEL, FOR FA	385. 5152. 00	_	1	_	1
		BUS BAR: INPUT 1 X 600A FP W/O SHUNT 19"	209-3203-19	1	1	_	_
10		BUS BAR, ADPT: 600A FUSE SHUNT TO BUS BAR 19"	209-3203-18	_	_	1	1
		BUS BAR: 400/600A FUSEHOLDER TO SHUNT	209-3208-00	_	_	1	1
		BUS BAR: LUG ADAPTER, 600A	209-4385-00	1	1	1	1
		SCREW: STL, SEMS, P/HD PHIL, 6-32 x 1/2"	210-1450-01	_	2	_	2
15		SCREW: STL, SEMS, P/HD PHIL, 8-32 x 5/8"	210-1580-01	_	_	2	2
		SCREW: STL, HEX HD, 1/4-20 x 3/8"	210-7003-00	1	1	_	_
		SCREW: STL, HEX HD, 1/4-20 x 1/2"	210-7004-00	1	1	_	_
		SCREW: HEX HD, 1/4-20 x 1 1/4 FULL THREAD	210-7009-00	4	4	4	4
		BOLT HEX SIL. BRONZE: 3/8-16 x 3/4	210-8128-00	_	_	2	2
20							
		NUT, HEX STL: 8-32, ZINC KEPS	211-0485-00	_	_	2	2
		NUT, HEX STL: 1/4-20, ZINC KEPS	211-0501-00	4	4	4	4
		LOCKWASHER, STL SHKPF: #4 INTERNAL TOOTH	212-0492-00	_	2	_	2
		LOCKWASHER, SHKPF: 1/4 INTERNAL	212-0500-00	1	1	_	_
25		SPACER: HEATSINK, HEX FIBREGLASS, 1.25"	213-1410-00	1	1	_	_
		LABEL, NOMENCLATURE: GENERAL MISC, 0.9" x 4"	225-3094-09	1	1	1	1
		FUSE HOLDER: SINGLE-70 COMPLETE	275-0500-01	1	1	1	1
30		FUSE HOLDER: 600A DEADFRONT	275-1606-00	1	1	1	1
		FUSE "DUMMY": .25" x 1.25", TYPE 70	276-0001-00	1	1	1	1
		RES, SHUNT: METER, 600A 50mV	695-1093-03	_	_	1	1

PROPRIETARY INFORMATION

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B DOC TYPE / NUMBER ISS

SCALE: SHEET: FILE NAME:
NONE 4 OF 4 PN111B-3068_SHT_4_ISS_4

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4

- 51. SELECT FUSE PANEL FROM TABLE A.
- 52. EACH DEADFRONT FUSEHOLDER REQUIRES ONE MAIN AND ONE ALARM FUSE, MAIN FUSES ARE TYPE TPL, 61 TO 600 AMPS. THE RECOMMENDED TYPE 70 ALARM FUSE IS 0.5 AMPS. FUSES ARE NOT INCLUDED BUT MAY BE ORDERED SEPARATELY PER EQUIPMENT DRAWING ED991-0009-00.
- 53. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO VERTICAL BUS BAR SYSTEMS. FOR OTHER SYSTEMS. HOLES ARE PROVIDED FOR BOLTING LUGGED CABLES. INPUT LUGS ARE NOT PROVIDED BUT MAY BE ORDERED SEPARATELY.
- 54. THE OUTPUT COPPER BUS BAR IS DESIGNED FOR BOTH, BELL STANDARD LUGS, 1" CENTER TO CENTER SPACING WITH 3/8" HARDWARE AND NEMA STANDARD LUGS, 1-3/4" CENTER TO CENTER SPACING WITH 1/2" HARDWARE.
- 55. A FUSE ALARM SIGNAL CAN BE EXTENDED TO A SEPARATE ALARM SYSTEM. CONNECT THE ALARM LEAD TO THE "FA-OUT" TERMINAL ON XA1 IN POSITIVE GROUND SYSTEMS OR TO THE "FA+OUT" TERMINAL IN NEGATIVE SYSTEMS. FUSE ALARM SIGNALS CON-NECT "BAT" TO THE ALARM CONNECTION WHEN A FUSE CLEARS. A FUSE ALARM ASSEMBLY EQUIPPED WITH AN ALARM RELAY IS AVAILABLE. ORDER PER EQUIPMENT DRAWING ED991-0009-00.
- 56. AMMETER SHUNTS ARE NORMALLY 600 AMPS 50mV; HOWEVER, OTHER CURRENT RATINGS MAY BE SPECIFIED. PANEL CURRENT MUST NOT EXCEED 600 AMPS.
- 57. PAINT COLOR IS ANSI 61 GRAY.
- 58. NON FA VERSIONS DO NOT INCLUDE A1.
- 59. NON SHUNTED VERSIONS DO NOT INCLUDE R1.
- 60. BUBBLE REFERENCE DESIGNATORS REFER TO CALLOUT TABLE LINE NUMBER.

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.

MANUFACTURING NOTES:

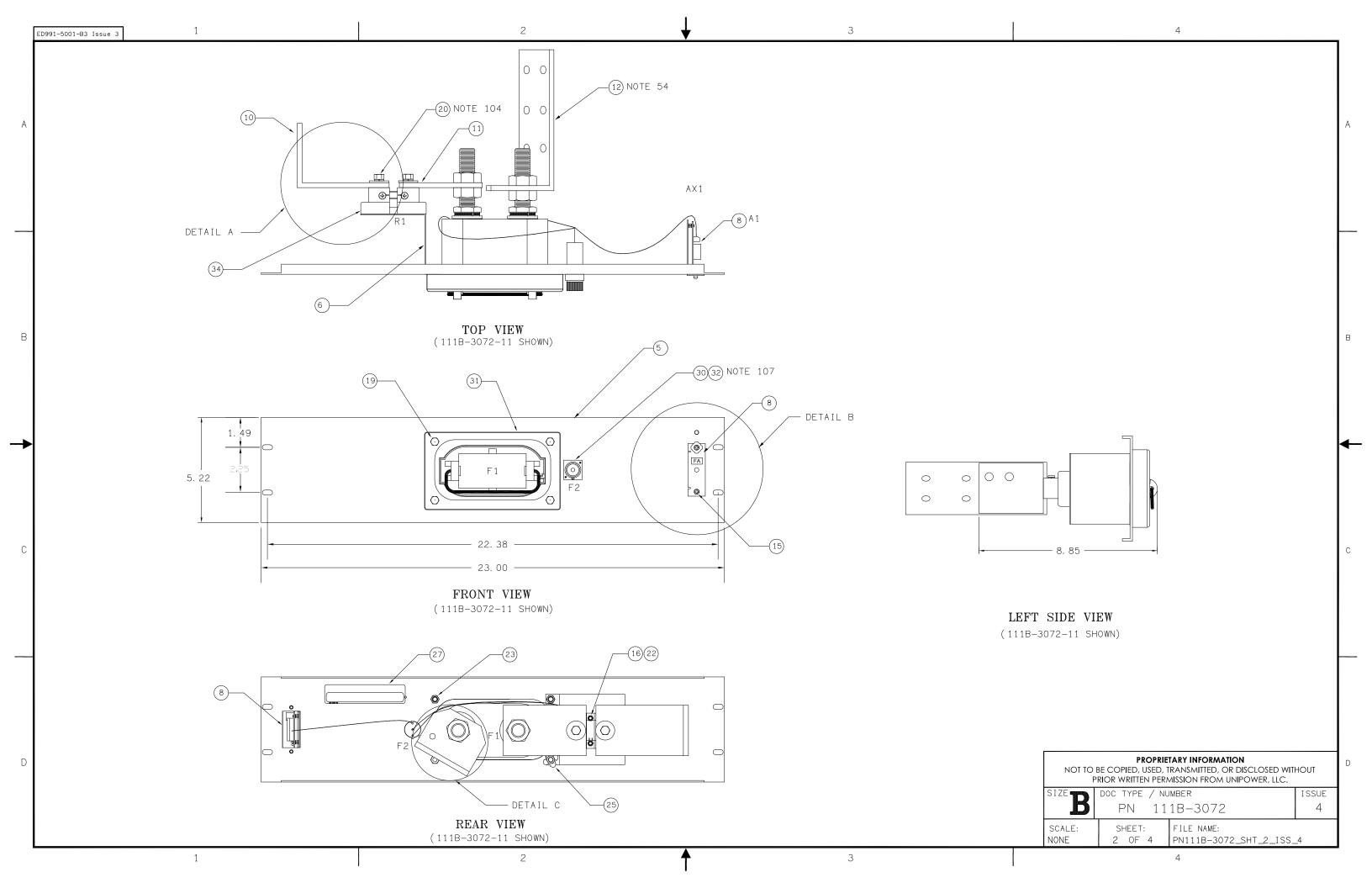
- 101. ANTI-OXIDATION COATING WILL BE APPLIED BETWEEN ALL LAYERS OF LAMINATED COPPER BUS STRUCTURE. A COMPOUND SUCH AS CRAMOLIN 81Rh WILL BE APPLIED TO ALL JOINTED FLAT CONDUCTIVE SURFACES PER THE MANUFACTURER'S INSTRUCTIONS.
- 103. MOUNT WIRE LUG BETWEEN BUS BAR AND LARGE MOUNTING WASHER.
- 104. REPLACE BOLTS SUPPLIED WITH SHUNT WITH P/N 210-8128-00. USE WASHERS SUPPLIED WITH SHUNT.
- 105. ALL WIRES ARE 20 GA UNLESS OTHERWISE NOTED.
- 106. SECURE ALL BUSSES AT A 45° ANGLE, AS SHOWN.
- 107. INSTALL DUMMY FUSE, P/N 276-0001-00, IN XF2.

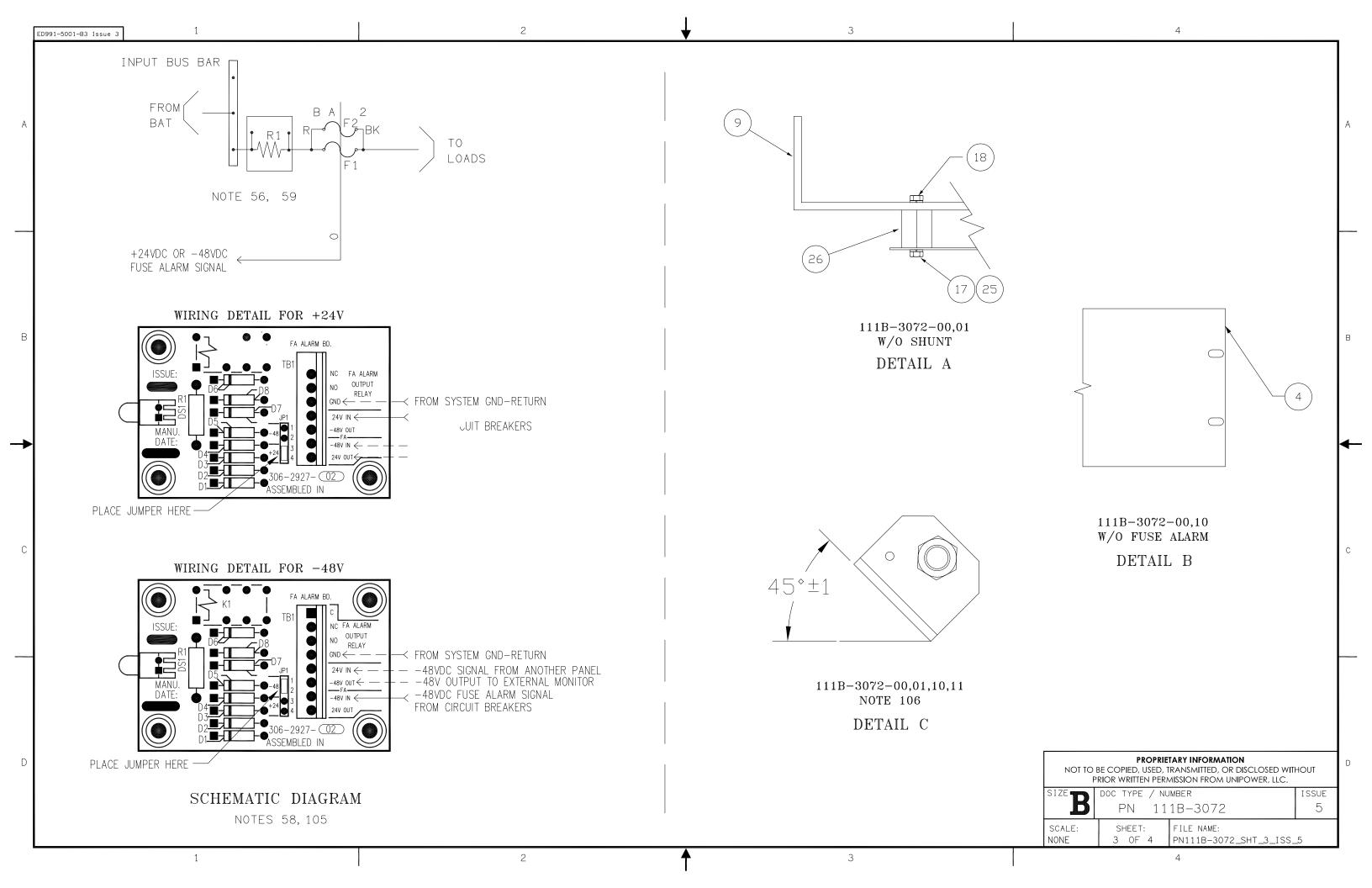
	TABLE	Α		
PART NUMBER	VOLTAGE	SHUNT	FUSE ALARM	RATING
111B-3072-00	±12VDC			MD
111B-3072-01	+24,-48VDC		YES	STD
111B-3072-10	±12VDC	600A		MD
111B-3072-11	+24,-48VDC	600A	YES	STD

SHEET INDEX

SHEET		ISS	SUE	NU	MBE	ER.		
NUMBER	1	2	3	4	5	6	7	8
1	1	2	3	4	5	6	7	8
2			1	2	2	3	4	4
3			1	2	3	4	5	5
4			1	2	2	3	4	4

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	ISSUES			1
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#			ISS. DATE	
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±	ARE IN INCHES DRAWN TOLERANCES ON: PKD	11	/18/86	Γ
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	BW	11	/14/86	ı
FRACTION	APPROVED	\top		1
DECIMALS	- (100)	—		ı
DECIMALS ANGLES	\$ (XXX) ±0.010 APPROVED ±1/2*			ı
	CORNERS AND ANGLES ARE 90° UNLESS OTHERWISE SPECIFIED			ł
	MANSHIP:	-		1
	PEC ENG032			ı
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	POWERING TECHN	OL	OGY	
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	FUSE PANEL		<u></u>	ı
	5.25" X 23"			ĺ
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ED991-5001-B3 Issue 3 1 2

CALLOUT LIST 111B-3072-

LINE # 1	NOTES	DESCRIPTION				QUANTITY	QUANTITY
		DESCRIPTION	PART NUMBERS	-00	-O1	-10	-11
		20 GA: BLACK; 10 INCHES	051-2000-10	1	1	1	1
		20 GA: RED; 10 INCHES	051-2022-10	1	1	1	1
		20 GA: ORANGE; 9 INCHES	051-2033-09	_	_	1	1
		1 X 600A FUSE PANEL, 23"	202-3536-01	1	_	1	_
5		FUSE PNL: 1-400/600A W/FA, 5.25 x 23"	202-3536-03	_	1	_	1
		SHUNT BRACKET	208-4090-01	1	1	1	1
		ASSY: ALARM BOARD, BKT, LABEL, FOR FA	385. 5152. 00	_	1	_	1
		BUS BAR: INPUT 1 X 600A FP W/O SHUNT 23"	209-3203-17	1	1	_	-
10		BUS BAR, ADPT: 400/600A FUSE SHUNT TO BUS BAR	209-3203-20	_	_	1	1
		BUS BAR: 400/600A FUSEHOLDER TO SHUNT	209-3208-00	_	_	1	1
		BUS BAR: LUG ADAPTER, 600A	209-4385-00	1	1	1	1
15		SCREW: STL, SEMS, P/HD PHIL, 6-32 x 1/2"	210-1450-01	_	2	_	2
		SCREW: STL, SEMS, P/HD PHIL, 8-32 x 5/8"	210-1580-01	_	_	2	2
		SCREW: STL, HEX HD, 1/4-20 x 3/8"	210-7003-00	1	1	_	_
		SCREW: STL, HEX HD, 1/4-20 x 1/2"	210-7004-00	1	1	_	_
		SCREW: HEX HD, 1/4-20 x 1 1/4 FULL THREAD	210-7009-00	4	4	4	4
20		BOLT HEX SIL. BRONZE: 3/8-16 x 3/4	210-8128-00	_	_	2	2
		NUT, HEX STL: 8-32, ZINC KEPS	211-0485-00	_	_	2	2
		NUT, HEX STL: 1/4-20, ZINC KEPS	211-0501-00	4	4	4	4
		LOCKWASHER, STL SHKPF: #4 INTERNAL TOOTH	212-0492-00	_	2	_	2
25		LOCKWASHER, SHKPF: 1/4 INTERNAL	212-0500-00	1	1	_	_
		SPACER: HEATSINK, HEX FIBREGLASS, 1.25"	213-1410-00	1	1	_	-
		LABEL, NOMENCLATURE: GENERAL MISC, 0.9" x 4"	225-3094-09	1	1	1	1
30		FUSE HOLDER: SINGLE-70 COMPLETE	275-0500-01	1	1	1	1
		FUSE HOLDER: 600A DEADFRONT	275-1606-00	1	1	1	1
		FUSE "DUMMY": .25" x 1.25", TYPE 70	276-0001-00	1	1	1	1
		RES, SHUNT: METER, 600A 50mV	695-1093-03	-	_	1	1

PROPRIETARY INFORMATION

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 111B-3072
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 SHEET:
 FILE NAME:

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 4 OF 4
 PN111B-3072_SHT_4_ISS_4

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ISS. BY

ISSUE

DESCRIPTION

ENGINEERING NOTES:

- 51. PAINT COLOR IS ANSI 61 GRAY.
- 52. EACH DEADFRONT FUSEHOLDER REQUIRES ONE MAIN FUSE. MAIN
 FUSES ARE TYPE TPL, 61 TO 600 AMPS AND ARE NOT INCLUDED, BUT
 MAY BE ORDERED SEPARATELY PER FOUIPMENT DRAWING FD991-0009-00.
- 53. THE RECOMMENDED TYPE 70 ALARM FUSE IS 1-1/3 AMPS (JL00378)
 FUSES ARE SHIPPED LOOSE AND MUST BE INSTALLED AFTER
 EQUIPMENT IS SECURED TO THE FLOOR PER EQUIPMENT DRAWING ED991-0009-00.
- 54. THE INPUT COPPER BUS BAR IS DESIGNED FOR DIRECT CONNECTION TO VERTICAL BUS BAR SYSTEMS. FOR OTHER SYSTEMS, HOLES ARE PROVIDED FOR BOLTING LUGGED CABLES. INPUT LUGS ARE NOT PROVIDED BUT MAY BE ORDERED SEPARATELY.
- 55. THE OUTPUT COPPER BUS BAR IS DESIGNED FOR BOTH, BELL STANDARD LUGS, 1" CENTER TO CENTER SPACING WITH 3/8" HARDWARE AND NEMA STANDARD LUGS, 1-3/4" CENTER TO CENTER SPACING WITH 1/2" HARDWARE.
- 56. AMMETER SHUNTS ARE NORMALLY 600 AMPS 50mV; HOWEVER, OTHER CURRENT RATINGS MAY BE SPECIFIED. SEE REAR VIEW WITH SHUNT FOR DETAILS.
- 57. NON FA VERSIONS DO NOT INCLUDE A1.
- 58. NON SHUNTED VERSIONS DO NOT INCLUDE R1 OR R2.
- 59. BUBBLE REFERENCE DESIGNATORS REFER TO CALLOUT TABLE LINE NUMBER.
- 60. SELECT FUSE PANEL FROM TABLE A.

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 AS PER THE MANUFACTURER'S INSTRUCTIONS.
- 103. MOUNT WIRE LUG BETWEEN BUS BAR AND LARGE MOUNTING WASHER.
- 104. REPLACE BOLTS SUPPLIED WITH SHUNT WITH (210-8128-00), AS SHOWN. USE WASHERS SUPPLIED WITH SHUNT.
- 105. ALL WIRES ARE 20 GA UNLESS OTHERWISE NOTED.
- 106. SECURE ALL BUSSES AT A 45° ANGLE, AS SHOWN.
- 107. INSTALL DUMMY FUSES (276-0001-00) IN XF3-4.

	TABLE	Α		
PART NUMBER	VOLTAGE	SHUNT	FUSE ALARM	RATING
111B-3074-00	±12VDC			MD
111B-3074-01	+24,-48VDC		YES	STD
111B-3074-10	±12VDC	600A		MD
111B-3074-11	+24,-48VDC	600A	YES	STD

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

3

SHEET		ISSUE NUMBER											
NUMBER	1	2	3	4	5	6	7	8	თ	10	11	12	13
1	1	2	ფ	4	5	ω	7	8	თ	10	11		
2	1	2	3	3	3	4	4	5	6	7	7		
3			1	1	1	2	3	4	4	5	5		
4								1	2	3	3		

ISS. DATE WD 11 SEE PCO# 44452 6/28/17 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: APPROVALS DATE DRAWN CLD 11/4/88 +0.004 HOLES CHECKED -0.0021/11/96 JW FRACTIONS ±1/32 APPROVED DECIMALS (XX) ±0.020 1/11/96 JS 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 NOT TO BE COPIED, USED, TRANSMITTED, OR DISCLOSED WITHOUT PRIOR WRITTEN PERMISSION FROM UNIPOWER, LLC.

SCALE: N/A

SIZE _

PN 111B-3074
SHEET: FILE NAME:

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1 OF 4 PN111B-3074_SHT_1_ISS_11

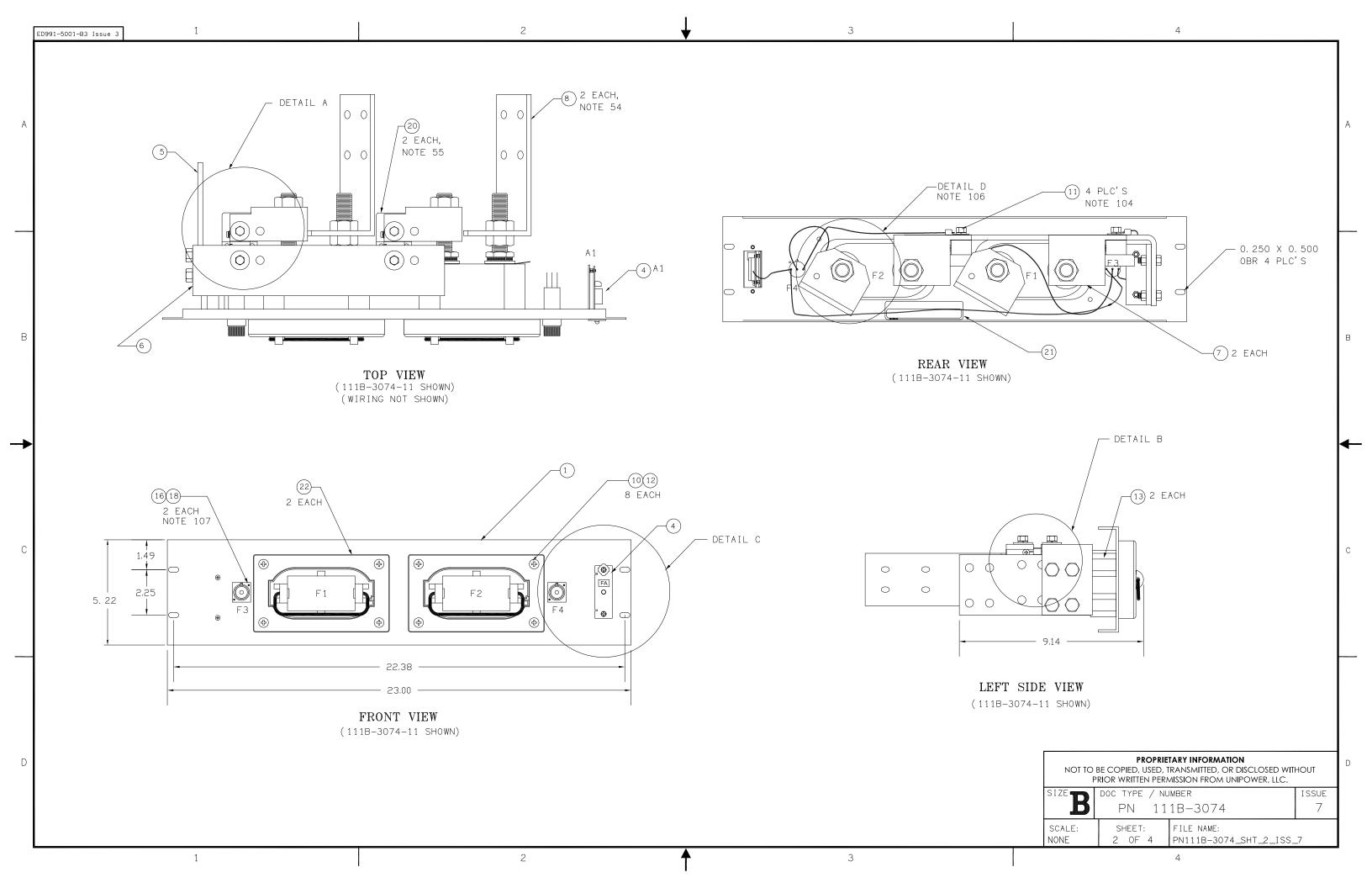
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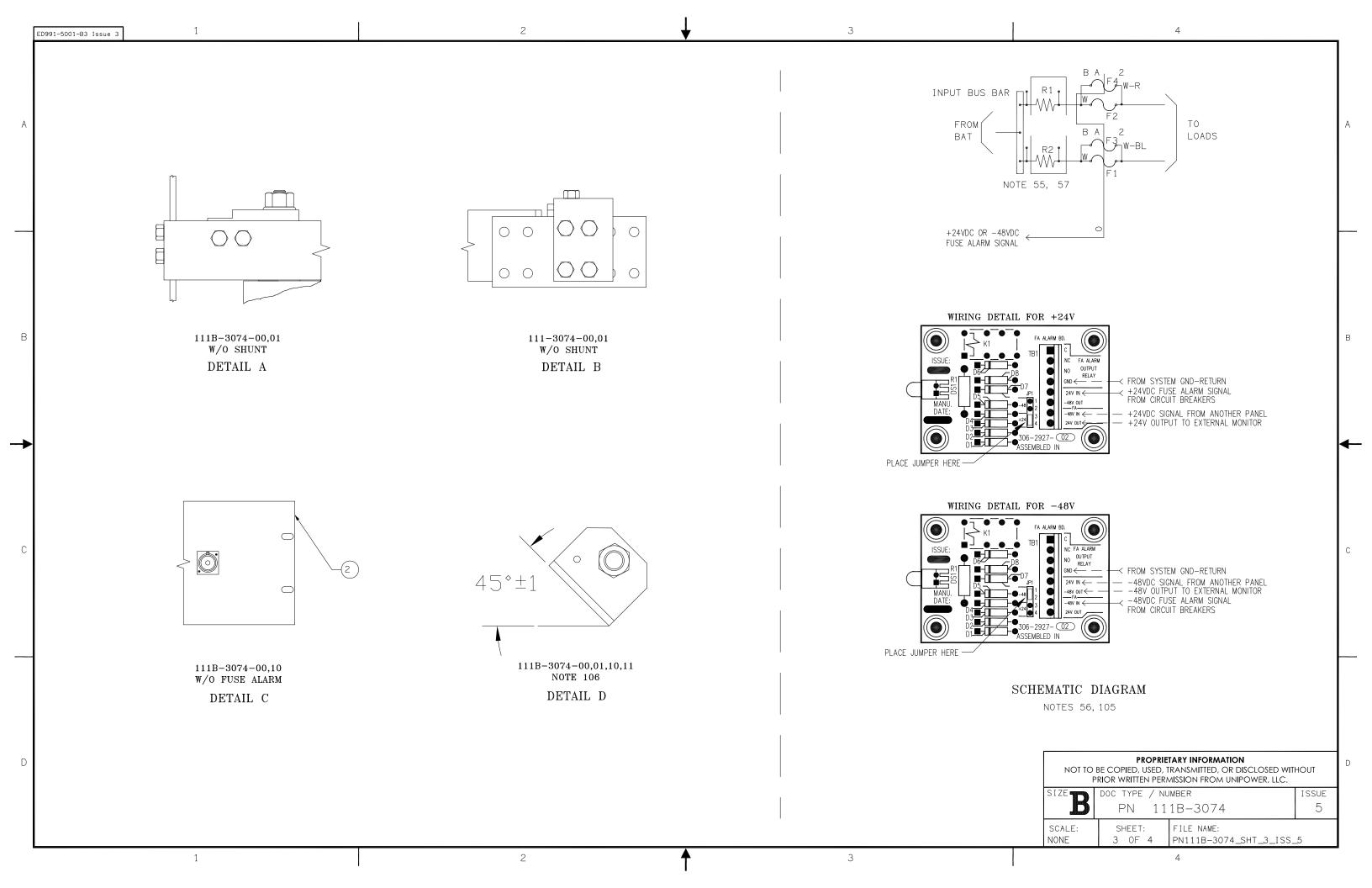
11

FUSE PANEL

2 X 61-600 AMP TPL

5.25" X 23"





ED991-5001-B3 Issue 3 CALLOUT TABLE LINE QUANTITY DESCRIPTION PART NUMBERS -00 -0.1-10-111 FUSE PNL: 2-400/600A W/FUSE ALARM & SHUNTS 202-3534-12 2X600A FUSE PANEL, 23" 202-3534-13 1 ASSY: ALARM BOARD, BKT, LABEL, FOR FA 385. 5152. 00 BUS BAR: INPUT BUS FOR 2-400/600A FUSE PNL 209-4342-00 BUS BAR: INPUT TO SHUNT FOR 2-400/600A... 209-4343-00 1 2 BUS BAR: SHUNT TO FUSE FOR 2-400/600A... 209-4344-00 2 BUS BAR: LUG ADAPTER, 600A 209-4385-00 SCREW: STL, MS, 1/4-20 X 1.5" FH, PHIL 8 10 210-1917-00 8 4 BOLT, HEX, SIL, BRONZE: 3/8-16 X 3/4" 4 210-8128-00 NUT, HEX: "KEP", 1/4-20 ZINC STL 211-0501-00 8 8 8 8 SPACER: HEATSINK, HEX FIBERGLASS, 1", GLASTIC 2 213-1409-00 15 FUSE HOLDER: SINGLE-70, COMPLETE 275-0500-01 2 2 2 FUSE: 1-1/3 AMP JL00378 2 2 FUSE "DUMMY": .25" X 1.25" TYPE 70 2 276-0001-00 20 RES, SHUNT: METER, 600A 50MV 695-1093-03 LABEL, NOMENCLATURE: GENERAL MISC, 0.9" X 4" 225-3094-09 1 FUSEHOLDER: 600A DEADFRONT 275-1606-00 25 PROPRIETARY INFORMATION NOT TO BE COPIED, USED, TRANSMITTED, OR DISCLOSED WITHOUT PRIOR WRITTEN PERMISSION FROM UNIPOWER, LLC. B DOC TYPE / NUMBER PN 111B-3 ISSUE PN 111B-3074 SCALE: SHEET: FILE NAME: NONE 4 OF 4 PN111B-3074_SHT_4_ISS_3