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ED83368-30_G2	PART NUM	6	25
ED83368-30	DRAWING	34	4
FILE NAME	FILE TYPE	REVISION	VERSION

TABLE A		FEATURES							
AB	AC	AD	AE	AF	AG	AH			
RATING	GROUP		CIRCUITS		AND FIGURES EQUIPPED				
		QTY	CIRCUIT		FIGURE	WIRING	APPARATUS		
	1	1	T. 83368 . 30		1	W			
	2	1	T. 83368 . 30		2	W			
	3	1	T. 83368 . 30		3	W			
	4	1	T. 83368 . 30		4	W			
	8	1	T. 83368 . 30		8	W			
	A								
	B								
	6	1	T-83368-30		6	W			

- SHOP
INST
1. () DESIGNATIONS TO BE STAMPED IN ACCORDANCE WITH JOB INFORMATION.
2. [] INDICATES DESIGNATIONS SHOWN FOR INFORMATION ONLY AND ARE NOT TO BE STAMPED.
3. < > INDICATES INFORMATION PROVIDED IN ACCORDANCE WITH OTHER INFORMATION.
4. PARTS THAT ARE TO BE SHIPPED ATTACHED TO OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM.
5. PARTS THAT ARE (A) REQUIRED FOR MANUFACTURE WHEN EQUIPMENT IS SHOP MOUNTED, OR (B) TO BE SHIPPED ATTACHED TO OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM WHEN FIELD MOUNTED.
6. ALL DIMENSIONS ARE INCHES
7. NAMEPLATE LABEL 847345543 (ITEM 45) SHOULD BE PRINTED AS FOLLOWS FOR GROUP 1, 2, 3, 3A OR 4: GE POWER ELECTRONICS, INC.
601 SHILOH RD.
PLANO, TX 75074, USA
ED83368-30 G-
- (SERIAL NUMBER AND BARCODE)
T. 83368 - 30
INPUT/OUTPUT CURRENT LIMITS:
300A PER A/B BUS, 600A PER PANEL
INPUT/OUTPUT VOLTAGE LIMITS:
58VDC=== MAX
- (CHECK WINDCHILL ATTRIBUTES FOR SAFETY MARKINGS)
- NAMEPLATE LABEL 847345543 (ITEM 45) SHOULD BE PRINTED AS FOLLOWS FOR GROUP 6 OR 8:
- GE POWER ELECTRONICS, INC.
601 SHILOH RD.
PLANO, TX 75074, USA
ED83368-30 G-
- (SERIAL NUMBER AND BARCODE)
T. 83368 - 30
INPUT/OUTPUT CURRENT LIMITS:
600A PER PANEL
INPUT/OUTPUT VOLTAGE LIMITS:
58VDC=== MAX
- (CHECK WINDCHILL ATTRIBUTES FOR SAFETY MARKINGS)
8. LABEL 847466844 AND/OR LABEL CC848822734 SHOULD BE TIED TO STUD OF BUS BAR 848697199 (ITEM 13) SO THAT IT IS CLEARLY VISIBLE.
9. IF 477B CIRCUIT MODULE USED, SHIP LABEL 847466844 (ITEM 47) TO PROVIDE INSTRUCTIONS TO CONVERT PANEL TO +24V PANEL. GROUPS 1 AND 3 WILL OPERATE AT 48V OR +24V WITHOUT MODIFICATION WHEN 477C IS USED.

ENGINEERING NOTES

51. DISTRIBUTION PANELS ARE FOR USE IN CONTROLLED ENVIRONMENTS. INSTALL ONLY IN RESTRICTED ACCESS AREAS (DEDICATED EQUIPMENT ROOMS, EQUIPMENT CLOSETS, OR THE LIKE) IN ACCORDANCE WITH ARTICLES 110 - 16, 110 - 17, AND 110 - 18 OF THE U.S. NATIONAL ELECTRIC CODE, ANSI/NFPA NO. 70, AND PER APPLICABLE LOCAL CODES. THESE UNITS MUST NOT BE INSTALLED DIRECTLY OVER COMBUSTIBLE SURFACES.
52. DISTRIBUTION PANELS WERE EVALUATED FOR USE IN AMBIENT AIR UP TO 50 DEGREES C. PANELS MAY BE USED IN TELEPHONE EQUIPMENT CABINETS UP TO 65 DEGREES C WITH FORCED AIR COOLING.


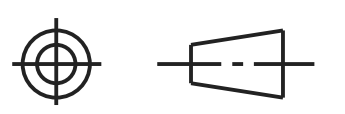
THIS DRAWING HAS BEEN REPRODUCED IN PRO-E. THE REVISION HISTORY TABLES HAVE NOT BEEN INCLUDED. REFER TO THE PREVIOUS REVISIONS STORED IN MATRIX TO VIEW THE REVISION HISTORY.

REPLACED VIM1C WITH VIM1EC ON THE FOLLOWING SHEETS: C6 AND C9				RE-CREATED DRAWING IN PRO-E			
CN-0022995				DES	MGR	DATE	REV / ISSUE
DES	MGR	DATE	REV / ISSUE	GGL	SCS	12-MAY-2011	16
QLW SCS 12-Feb-16 27				CONVERTED THE A SHEETS TO PRO-E			
REPLACED 848697207 WITH 850033962 IN G1, G2, & G6. REPLACED 848723940 WITH 850033963 IN G3, G4, & G8. REMOVED CLIP 407259274 FROM ALL GROUPS.				DES	MGR	DATE	REV / ISSUE
DES MGR DATE REV / ISSUE				GGL	SCS	08/24/2011	17
ORL SCS 04-Mar-16 28				BOM UPDATES FOR GR2 REACTIVATED GR 6			
UPDATED NOTE 7.				DES	MGR	DATE	REV / ISSUE
DES MGR DATE REV / ISSUE				JRP	SCS	02/29/2012	18
ORL SCS 06-Sep-16 29				ON SHEETS C2 AND C4 CHANGED THE 447C CARD TO THE 477D CARD			
REPLACE TB 450050205 WITH TB 450049327 IN GROUP 3A.				DES	MGR	DATE	REV / ISSUE
DES MGR DATE REV / ISSUE				JRP	SCS	07/30/2012	20
ORL SCS 09-Sep-16 30				BUS BARS WERE CHANGED ON GROUPS 3, 2 AND 6. NEW BUS BARS ARE 850027262, 850027263, 850027289 AND 850027290			
REPLACED CC848843441 WITH 8600200237P ON G2, G4, G6, G8				DES	MGR	DATE	REV / ISSUE
JRP SCS 15-OCT-2018 31				JRP	SCS	15-AUG-2012	21
MODIFY CHASSIS AND DOOR G3, G3A, G4, G8				REPLACED STUDS IN BUS BARS WITH PEM NUTS OR INTERNALLY THREADED PARTS			
CWS SCS 06-FEB-2019 32				CN-0013155			
MODIFY CHASSIS AND DOOR G1, G2, G6				DES	MGR	DATE	REV / ISSUE
CWS SCS 12-FEB-2019 33				JTM	SCS	18-APR-2013	22
REPLACE 19 INCH COVER				REPLACED TOP COVERS, ADDED INSTALLATION MANUAL			
CWS SCS 14-FEB-2019 34				CN-0014338			
				DES	MGR	DATE	REV / ISSUE
				JTM	SCS	08-JUL-2013	23
				(SHT 1), CHANGED NOTE 7 TO REQUIRE CHECKING WINDCHILL ATTRIBUTES FOR SAFETY MARKINGS. CN-0020138			
				DES	MGR	DATE	REV / ISSUE
				GGL	SCS	07-MAR-2015	24
				ADDED CLEI LABEL PWM4100DRA TO ED83368-30_G3. CN-0022182			
				DES	MGR	DATE	REV / ISSUE
				ORL	SCS	20-OCT-2015	25
				ADDED GROUP 3A (SHT 12&13).			
				CN-0022328			
				DES	MGR	DATE	REV / ISSUE
				ORL	SCS	06-NOV-2015	26
				REPLACED 450049327 WITH 450050205. UPDATED CLEI CODE IN G3 & G3A.			
				CN-0022995			
				DES	MGR	DATE	REV / ISSUE
				ORL	SCS	10-Feb-16	27

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GE CLASS II (INTERNAL CRITICAL)
GE PROPRIETARY INFORMATION

THIRD ANGLE PROJECTION

GE Energy
PLANO, TX

TITLE / DESCRIPTION

ED83368-30 ASSEMBLY DRAWING

PART NUMBER

ED83368-30

REV.

34

SHEET A1

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ENGINEERING NOTES (CONT'D)

52. INSULATION ON FIELD WIRE CONDUCTORS SHOULD BE RATED NO LESS THAN 90 DEGREES C. WIRE CONDUCTOR SIZE SHOULD BE NO LESS THAN ALLOWED BY ELECTRICAL CODES FOR 60 DEGREE C WIRE (REGARDLESS OF INSULATION TEMPERATURE RATING USED) AND THE AMPACITY OF THE ASSOCIATED PROTECTION DEVICE. IF THE PANEL IS NOT INSTALLED IN A TELEPHONE EQUIPMENT CABINET, THE EXTERNAL INTERCONNECTING WIRING (FOR INPUT/OUTPUT POWER AND ALARMS) SHOULD COMPLY WITH NEC AND/OR ANY APPLICABLE LOCAL CODES.

53. MAXIMUM CURRENT RATING OF DISTRIBUTION PANELS IS 600 AMPS. VOLTAGE MAY BE +24 OR 48 VOLTS NOMINAL. THE ENTIRE PANEL MUST BE THE SAME VOLTAGE.

54. 90A AND 100A 1. POLE BREAKERS REQUIRE AN ADJOINING POSITION BE LEFT UNOCCUPIED FOR THERMAL REASONS. ALL 2. POLE BREAKERS REQUIRE 2. POSITIONS AND 848631479 ADAPTER BUS KIT. THIS KIT PROVIDES A BUS BAR WITH 1/4" 20 STUDS ON 5/8 CENTERS AND TWO NUTS E/W CONICAL WASHERS. 3. POLE BREAKER REQUIRE 3. POSITIONS AND 848745662 ADAPTER BUS KIT. THIS KIT PROVIDES M8 HARDWARE ON 1 INCH CENTERS. ORDER LUGS FROM TABLE L. ADAPTER BUS KITS MAY BE ORDERED FOR THE RETURN BUS AS WELL BUT ALSO ORDER TWO 848201919 HARDWARE KITS TO ATTACH ADAPTER TO RETURN BUS.

55. USE THE .216-.24 SCREWS PROVIDED (901078717, ITEM 55) FOR MOUNTING THE DISTRIBUTION PANEL (3 SCREWS PER SIDE). GROUNDING FOR THE PANEL IS THROUGH THIS CONNECTION TO THE FRAME. MAKE SURE FRAME IS PROPERLY GROUNDED.

56. ITEM 53 848722021 WIRESET INCLUDES AN ALARM OUTPUT CABLE CONNECTED TO 52 ON THE 477A, B OR C CIRCUIT MODULE. 52 PROVIDES AN ALARM CONTACT CLOSURE ON FUSE OR CIRCUIT BREAKER FAILURE. THIS ALARM CABLE IS TERMINATED WITH BUTT SPLICES FOR FIELD CONNECTION TO MONITORING UNIT. RECOMMENDED WIRE SIZE IS 20 AWG. WIRESET 848722021 IS ONLY PROVIDED WITH GROUPS 1 & 3.

57. ALARM RELAY CONTACTS ARE RATED AT 0.5 AMPS AND 60 VDC.

58. ENGINEER MUST ORDER CIRCUIT BREAKERS, FUSE HOLDERS, FUSES, AND LUGS FOR USE WITH DISTRIBUTION PANELS. REFER TO THE FOLLOWING TABLES FOR ORDERING INFORMATION FOR THESE COMPONENTS:

TABLE J	PLUG IN FUSE HOLDER AND FUSES
TABLE K	PLUG IN CIRCUIT BREAKERS
TABLE L	BUS FEED CONNECTORS
TABLE M	LOAD AND RTN CONNECTORS

59. USE ONLY THESE FUSES AND CIRCUIT BREAKERS. CIRCUIT BREAKERS AND FUSE HOLDERS DO NOT COME WITH TERMINATING LUGS OR HARDWARE, THEREFORE THE APPROPRIATE LUGS AND HARDWARE MUST BE ORDERED FROM TABLE M FOR EACH CIRCUIT BREAKER OR FUSE HOLDER ORDERED.

60. PLUG IN STYLE FUSES AND/OR CIRCUIT BREAKERS SHOULD BE DISTRIBUTED ACROSS THE DISTRIBUTION PANELS, WITH THE LARGEST LOAD LOCATED THE FARTHEST FROM THE INPUT SIDE OF THE PANEL.

61. FUSE AND/OR CIRCUIT BREAKER LOADS MUST NOT EXCEED 80% OF THE FUSE AND/OR CIRCUIT BREAKER CURRENT RATING.

62. MOUNTING HARDWARE FOR INPUT FEEDS AND RETURN CABLE CONNECTIONS (3/8-16 NUTS) AND FOR LOAD CONNECTIONS (M5 SCREWS) IS PROVIDED WITH PANEL. MOUNTING HARDWARE FOR LOAD RETURN CONNECTIONS IS PROVIDED WITH 848201919 KITS WHICH PROVIDES 2 901276907 HHS SCREWS E/W CONICAL WASHER M5 X 10MM.

63. PANELS ARE FACTORY CONFIGURED FOR 48 VDC OPERATION (OPTION W ON T83368-30). CHANGES REQUIRED TO MAKE THE PANEL ALARM OPERATE AT +24 VDC ARE SHOWN AS OPTION Z ON DRAWING T83368-30 FIGURE 1 FOR PANELS EQUIPPED WITH 477A OR B CIRCUIT PACKS. THESE CHANGES ARE ALSO SHOWN ON LABEL 847466844 (ITEM 47) WHICH IS SHIPPED WITH THE PANEL. NO CHANGES REQUIRED FOR PANELS EQUIPPED WITH 477C CIRCUIT PACKS. METER MUST BE REWIRED FOR USE IN +24V APPLICATIONS. WIRING CHANGES SHOWN ON LABEL CC848822734 WHICH IS PROVIDED WITH THE PANEL.

ENGINEERING NOTES (CONT'D)

64. GROUP 1, 2, 6 AND 3, 4, 8 PANELS ARE FACTORY CONFIGURED FOR MOUNTING IN A FRAME WITH 22.32" AND 18.32" MOUNTING CENTERS RESPECTIVELY. TO MOUNT THE PANEL IN A FRAME WITH 24.32" OR 22.32" MOUNTING CENTERS RESPECTIVELY, EXTEND BRACKETS 848709358 (ITEM 3).

65. PANELS ARE BEST SUITED FOR MOUNTING AT THE TOP OF A BAY SINCE THE LOAD CABLES EXIT OUT THE TOP. IF IT IS DESIRED TO MOUNT THE PANEL ELSEWHERE, ALLOW 3 INCHES OF SPACE ABOVE THE PANEL FOR CABLE ROUTING. PANELS MAY BE TIERED AS SHOWN ON SHEET F1 BY ORDERING TWO 848751875 BRACKETS.

66. PANELS MAY BE MOUNTED ON A WALL USING BRACKET CC848786401 (SHOWN ON SHEET F2).

67. GROUPS 2, 4, 6 & 8 INCLUDE A DIGITAL METER DISPLAY THAT PROVIDES ALARM CONTACT CLOSURES FOR THE FOLLOWING ALARM OUTPUTS:

FUSE	FUSE/CIRCUIT	BREAKER FAILURE
OVL	OVERLOAD	
PL	POWER LOSS	

THESE ALARMS ARE DISPLAYED ON THE METER. ALARM CABLE CC848846287 IS ALSO PROVIDED FOR FIELD CONNECTION TO THE CONTACT CLOSURES. THIS ALARM CABLE IS TERMINATED WITH BUTT SPLICES.

68. GROUP A PROVIDES CANADIAN SHUNT P/N. TFD-101-011-09. GROUP B PROVIDES CANADIAN SHUNT P/N. TFD-101-011-10. ED83368-30 PANELS ALSO ACCEPT CANADIAN SHUNT P/N. TFD-101-011-00 AND TFD-101-011-01.

TABLE J BULLET STYLE FUSE HOLDER AND TPS FUSES				
COMCODE	AMPERAGE	MIN WIRE GA	MAX DC RESISTANCE (OHMS)	WP92461 LIST
408548944	FUSE HOLDER, TFD-101-011-09 (CANADIAN SHUNT) (ALARMS ON BLOWN FUSE OR WHEN FUSE HEAD IS PULLED)			
CC408617410	FUSE HOLDER, TFD-101-011-10 (CANADIAN SHUNT) (ALARMS ON BLOWN FUSE ONLY)			
402328926	0.18 ALARM FUSE			
406700567	3	10	0.07075	100
406700583	5	10	0.02615	101
406700591	6	10	0.01935	102
406700609	10	10	0.00998	103
406700617	15	10	0.00728	104
406700625	20	10	0.00314	105
406700633	25	10	00.0034	106
406700641	30	10	0.00278	107
406700658	40	10	0.00171	108
406700674	50	8	0.00133	109
406700682	60	6	0.001	110
406700690	70	6	0.008	111

TABLE K PLUG IN BULLET STYLE CIRCUIT BREAKERS.				
CIRCUIT BREAKER	INTERUPT CURRENT	RATING	10,000	AMPS.
COMCODE	AMPERAGE	CB POSITIONS	MIN WIRE GA	MAX DC RESISTANCE (OHMS)
407998137	3	1	10	0.18
407998145	5	1	10	0.055
407998152	10	1	10	0.017
407998160	15	1	10	0.012
407998178	16	1	10	0.01
407998186	20	1	10	0.008
407998194	25	1	10	0.004
407998202	30	1	10	0.003
408213486	40	1	10	0.0043
407998210	45	1	8	0.0025
407998228	50	1	8	0.0019
407998236	60	1	6	0.0004
407998244	70	1	6	0.0003
407998251	80	1	4	0.0002
407998269 (NOTE 55)	90	1	4	0.0002
407998277 (NOTE 55)	100	1	2	0.0002
4088185353 (NOTE 55)	125	2	2	0.0005
408185346 (NOTE 55)	150	2	1/0	0.0005
408564941 (NOTE 55)	200	3	2/0	0.0005
408573975 (NOTE 55)	225	3	4/0	0.0005
408535752 (NOTE 55)	250	3	4/0	0.0005


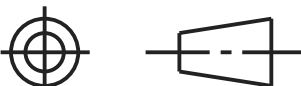
TABLE L BUS FEED CONNECTING LUGS (LUGS HAVE .375 INCH HOLES ON 1.00 INCH CENTERS)				
LUG COMCODE	TYPE	STD WIRE GA (CLASS B)	FLEX WIRE GA (CLASS I)	METRIC WIRE GA (MM2)
406332940	LOAD	4	4	25
406332940	RTN			
406338665	LOAD			
406338665	RTN	1/0	---	35
405348228	LOAD			
405348228	RTN			
405348236	LOAD	2/0	1/0	70
405348236	RTN			
406021725	LOAD			
406021725	RTN	---	2/0	---
405348251	LOAD	4/0	---	---
405348251	RTN			
405347923	LOAD			
405347923	RTN	---	4/0	120
407890763	LOAD			
407890763	RTN			
407890748	LOAD	---	350	---
407890748	RTN			
407890748	RTN			

TABLE M LOAD AND RETURN CONNECTING LUGS AND HARDWARE					
LUG COMCODE	TYPE	STD WIREGA (CLASS B)	FLEX WIREGA (CLASS I)	METRIC WIREGA (MM2)	HARDWARE KIT (GRADE 2)
THESE LUGS HAVE .19 INCH HOLES ON .625 INCH CENTERS (COMPATIBLE WITH M5 SCREWS)					
405356171	LOAD	14 - 10	14 - 10	6	PROVIDED
405356171	RTN				848201919
405348178	LOAD				PROVIDED
405348178	RTN	8	8	10	848201919
406338400	LOAD				PROVIDED
406338400	RTN				848201919
THESE LUGS HAVE .25 HIGH HOLES ON .625 INCH CENTERS (COMPATIBLE WITH M5 SCREWS)					
405347576	LOAD	4	4	25	PROVIDED
405347576	RTN				848201919
405348202	LOAD				PROVIDED
405348202	RTN	2	---	35	848201919
405347683	LOAD				PROVIDED
405347683	RTN				848201919
407817568	LOAD	1/0	---	---	PROVIDED
407817568	RTN				848201919
407817550	LOAD				PROVIDED
407817550	RTN	2/0	1/0	---	848201919
407817576	LOAD				PROVIDED
407817576	RTN				848201919
848201919 KIT CONTAINS TWO M5 X 10MM SCREWS					

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GE CLASS II (INTERNAL CRITICAL) GE PROPRIETARY INFORMATION

THIRD ANGLE PROJECTION

GE Energy
PLANO, TX

TITLE / DESCRIPTION

ED83368-30 ASSEMBLY DRAWING

SIZE

B

PART NUMBER

ED83368-30

REV.

34

SHEET A2

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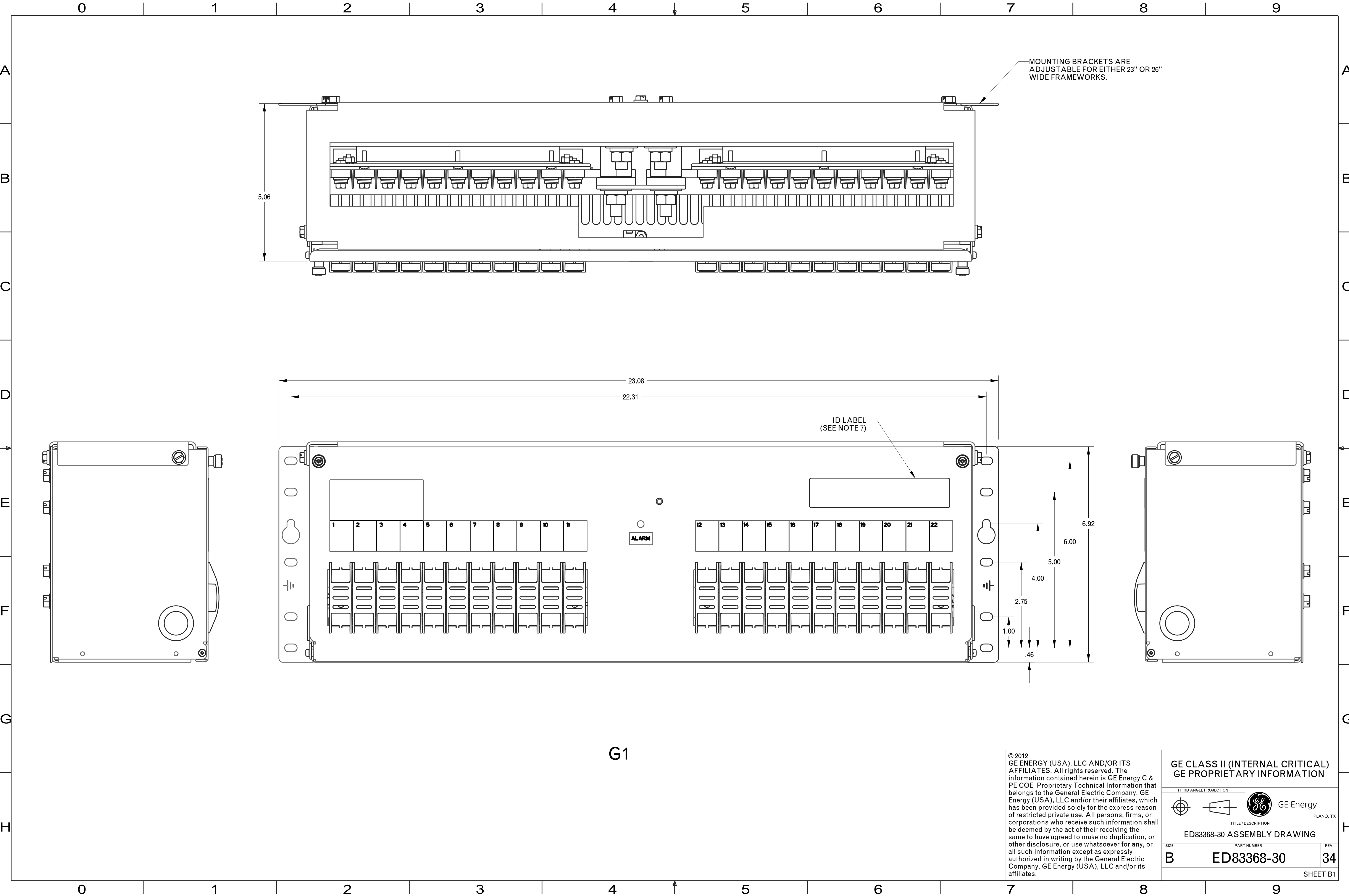
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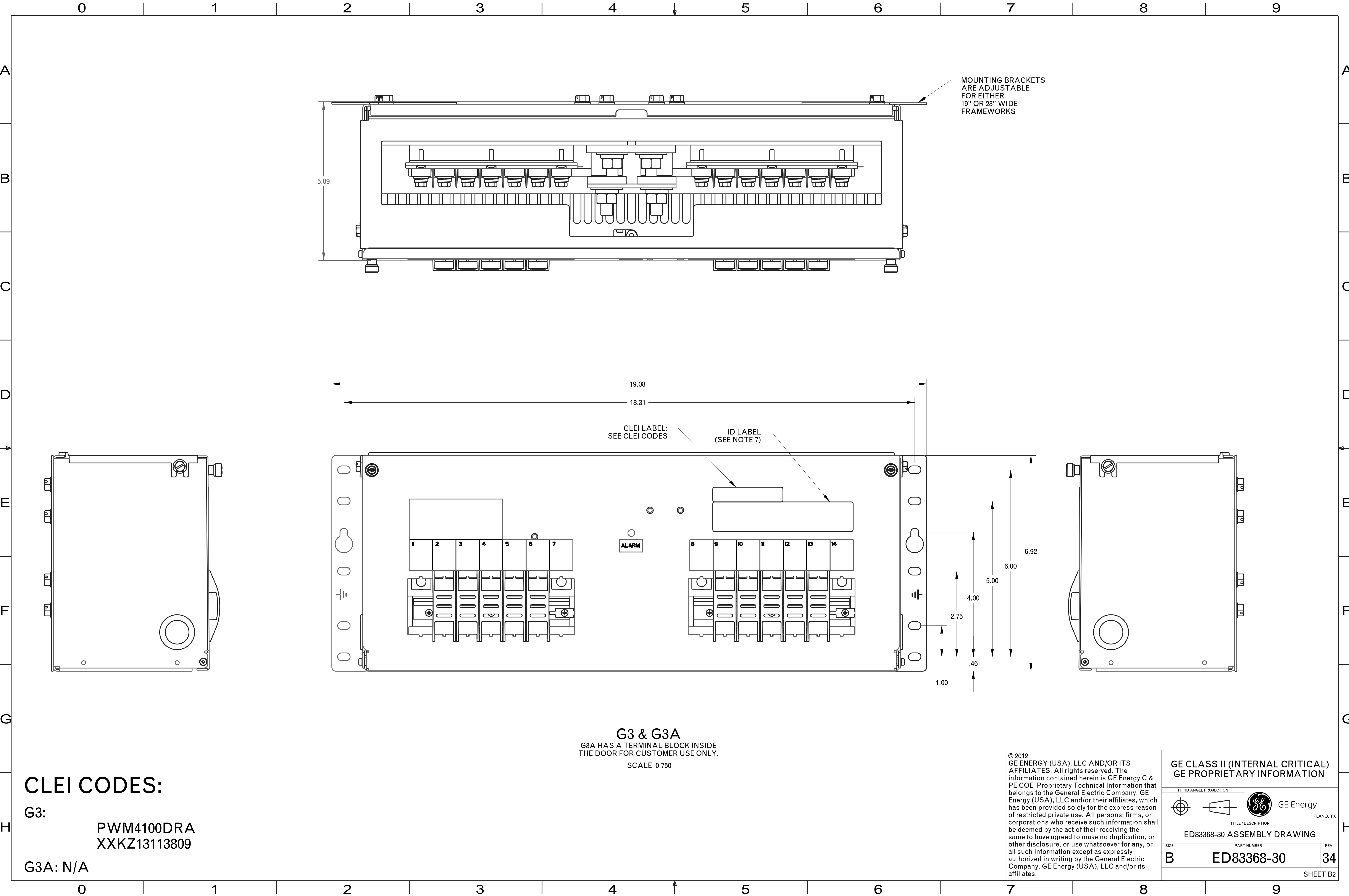
PART NUMBER

ED83368-30

REV.

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SHEET B1



CLEI CODES:




G3: PWM4100DRA
XXKZ13113809

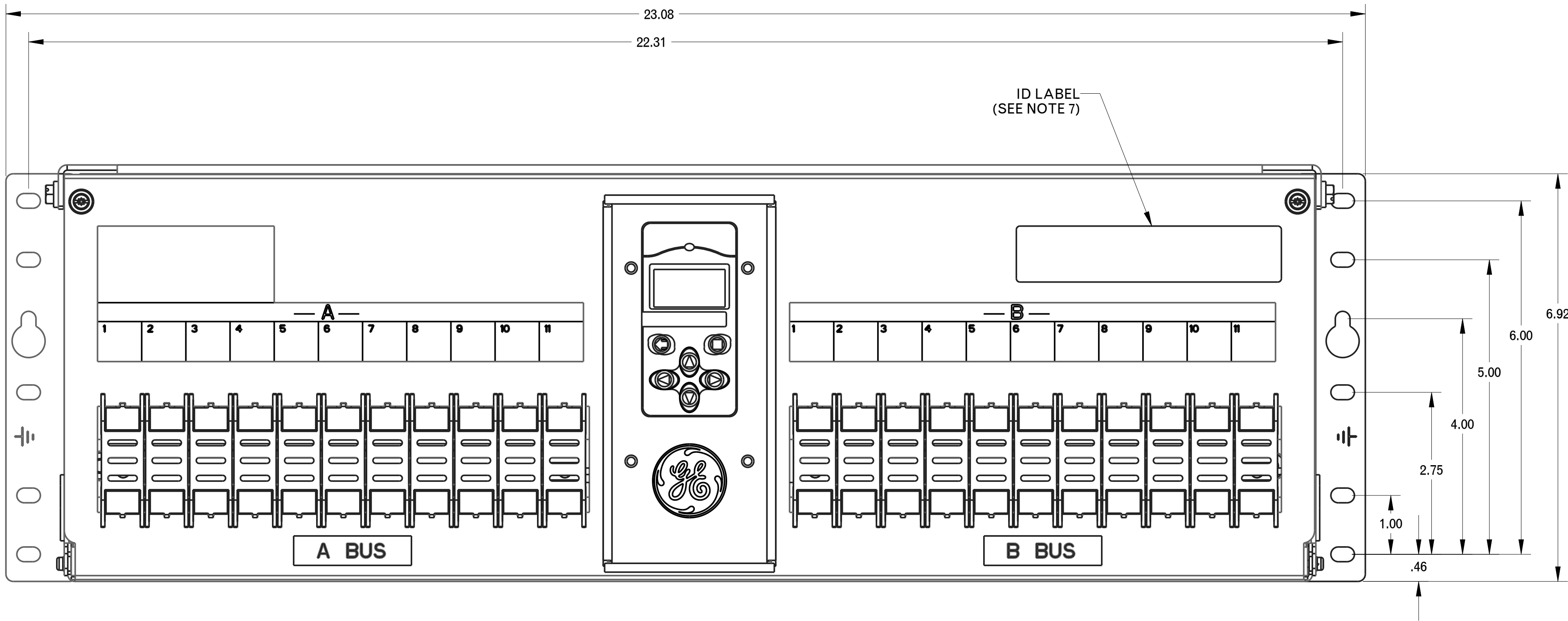
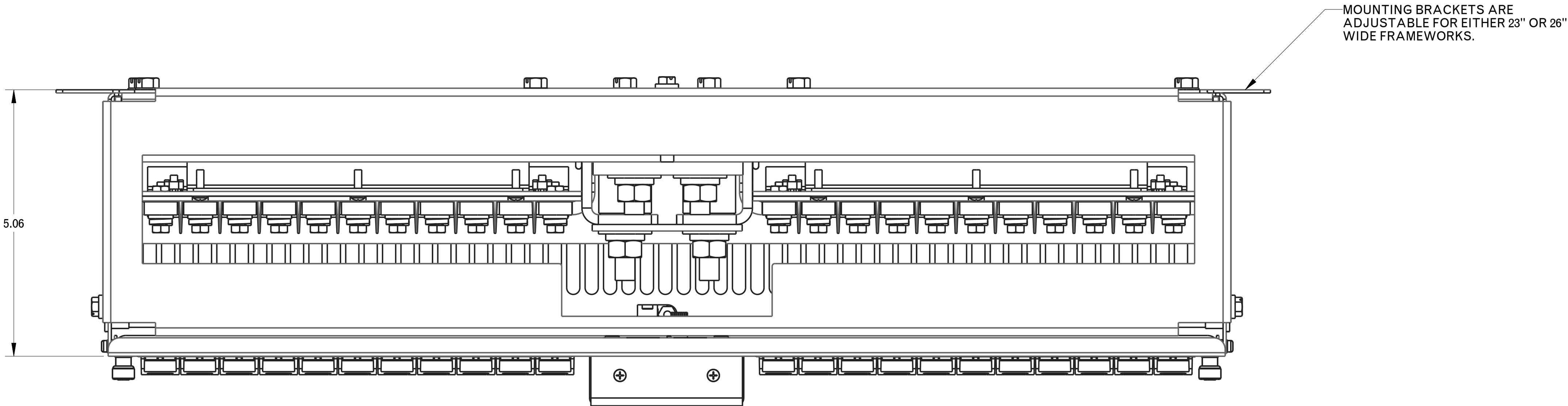
G3A: N/A

G3 & G3A
G3A HAS A TERMINAL BLOCK INSIDE
THE DOOR FOR CUSTOMER USE ONLY.
SCALE 0.750

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**GE CLASS II (INTERNAL CRITICAL)
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THIRD ANGLE PROJECTION		 GE Energy PLANO, TX
		
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ED83368-30 ASSEMBLY DRAWING		
SIZE	PART NUMBER	REV.
B	ED83368-30	34
SHEET B2		

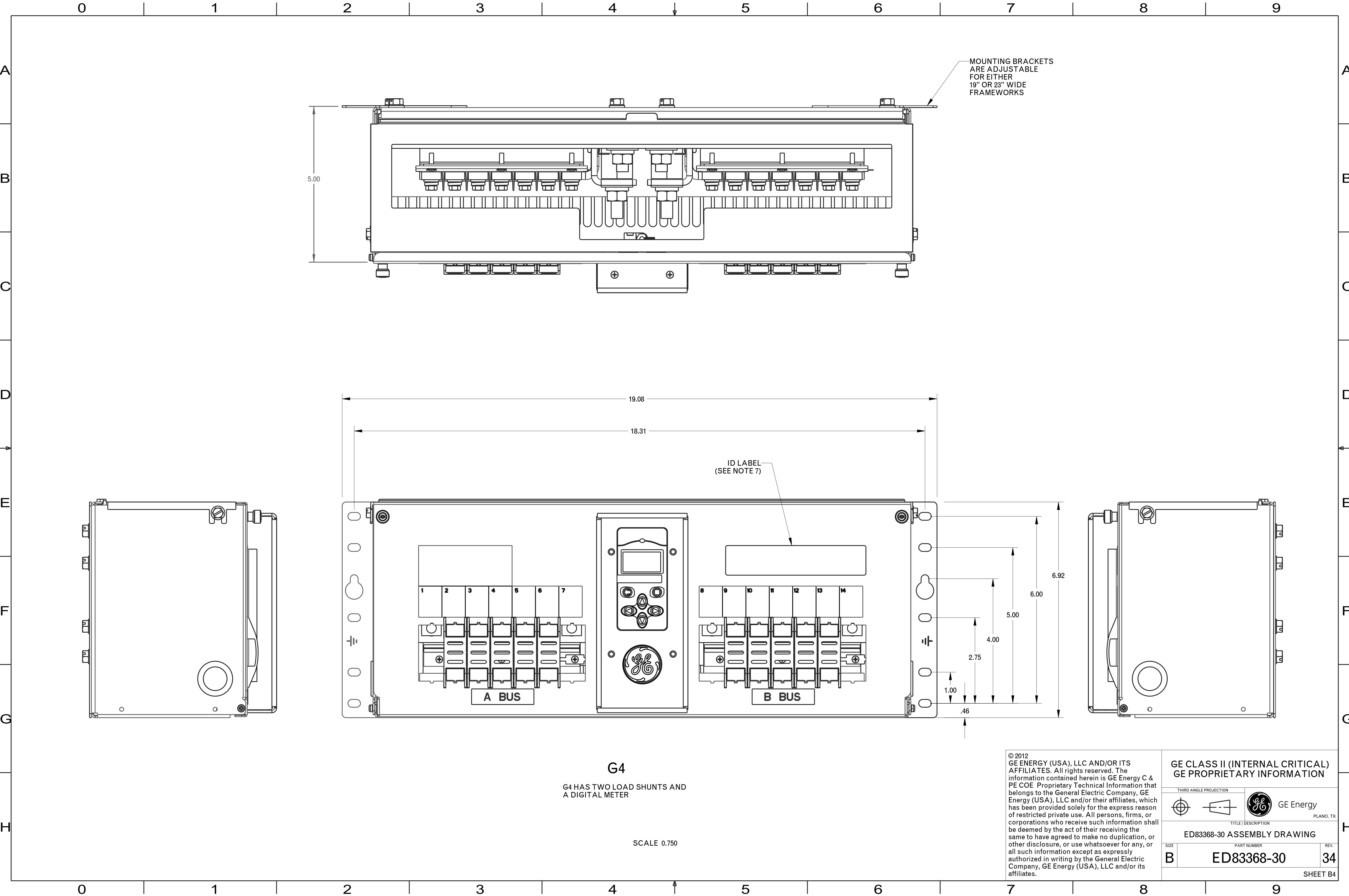


G2
G2 HAS TWO LOAD SHUNTS, A SPLIT
RETURN BUS WITH REMOVABLE STRAP
AND A DIGITAL METER
SCALE 0.750

G6
G6 HAS TWO LOAD SHUNTS
AND A DIGITAL METER

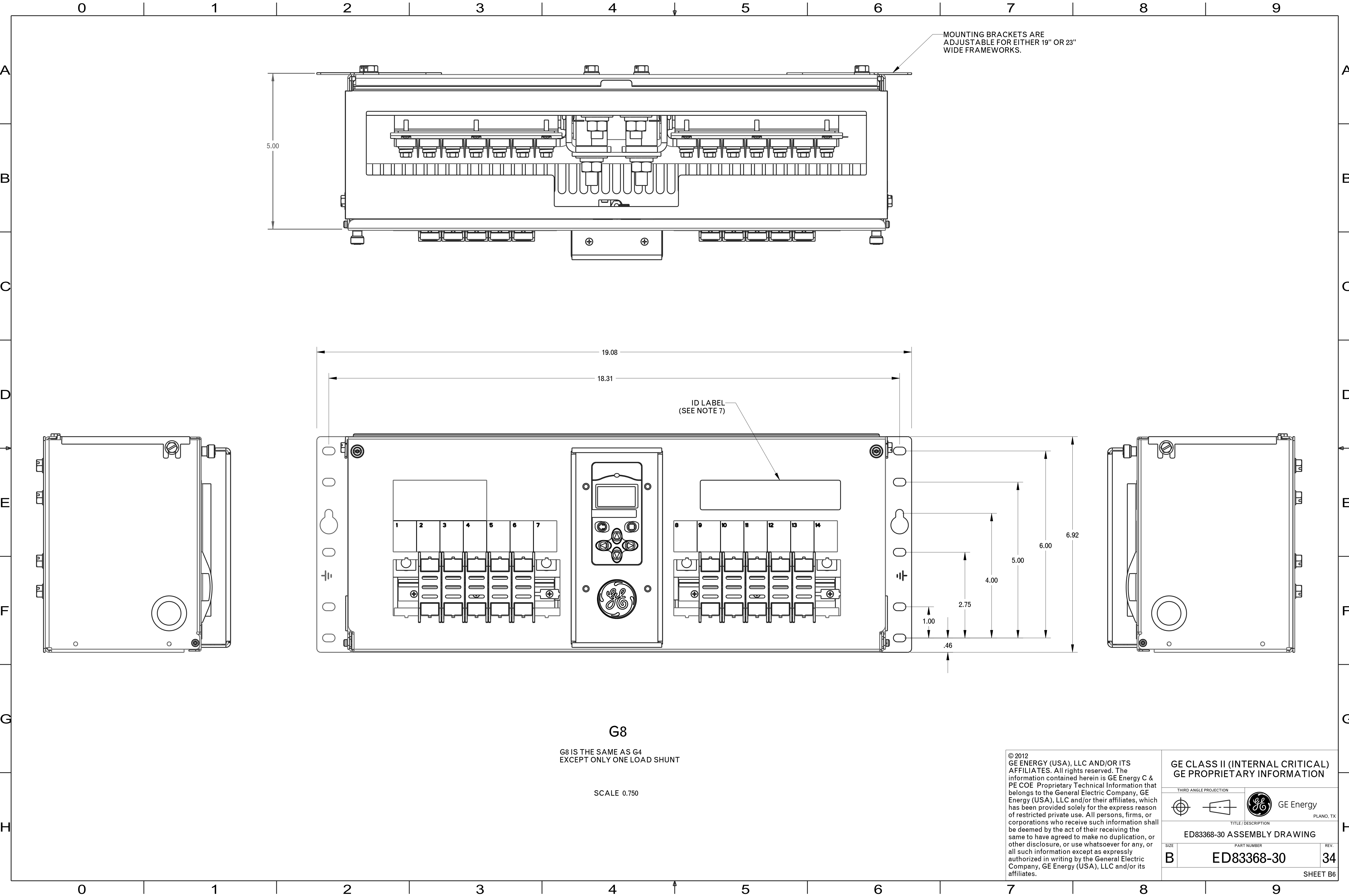
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B	ED83368-30		34
SHEET B3			



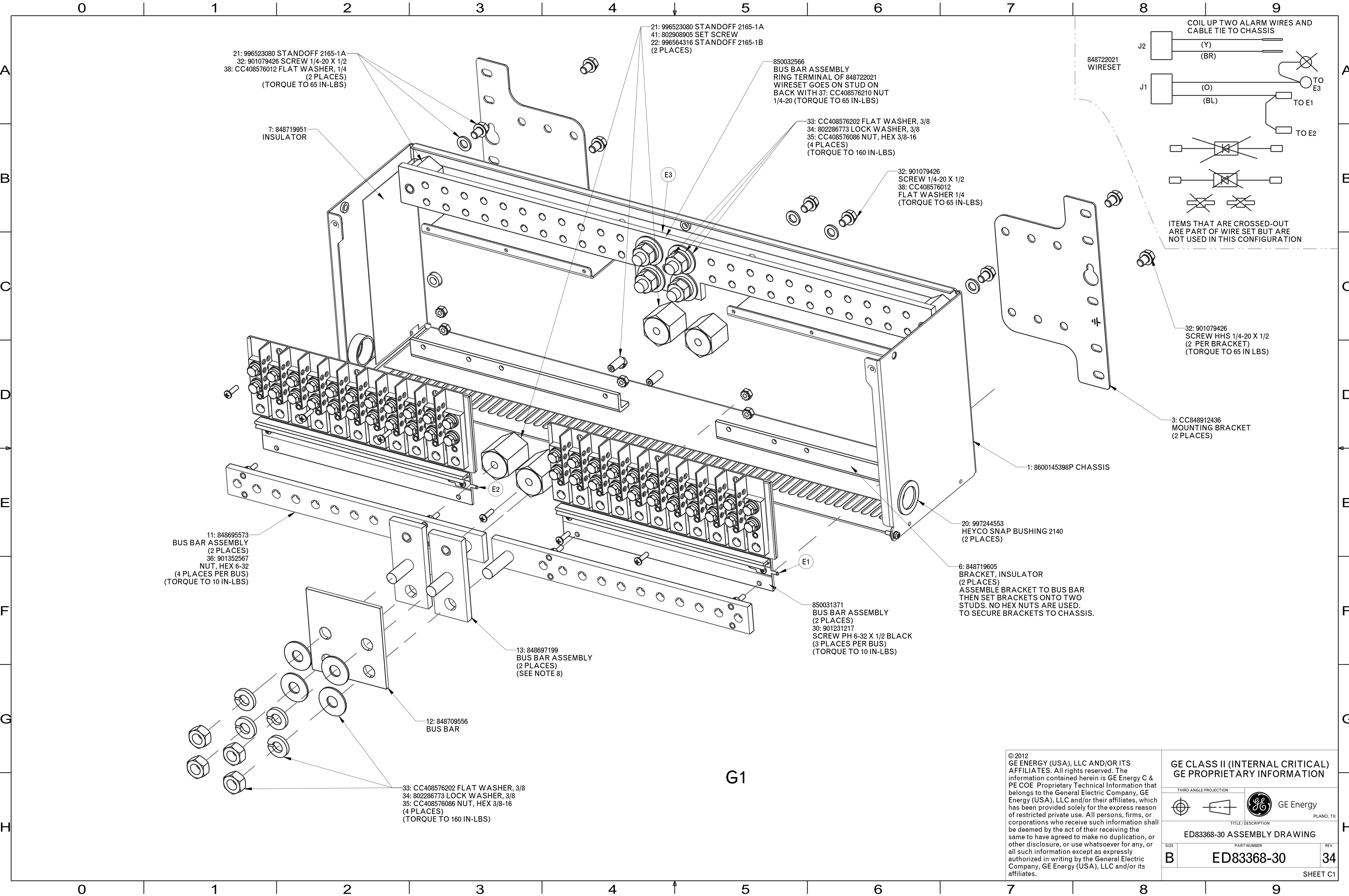
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SHEET B4		



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THIRD ANGLE PROJECTION		
TITLE / DESCRIPTION		
ED83368-30 ASSEMBLY DRAWING		
SIZE	PART NUMBER	REV.
B	ED83368-30	34
SHEET B6		



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GE CLASS II (INTERNAL CRITICAL)
GE PROPRIETARY INFORMATION

THIRD ANGLE PROJECTION

GE Energy

PLANO, TX

TITLE / DESCRIPTION

ED83368-30 ASSEMBLY DRAWING

SIZE

B

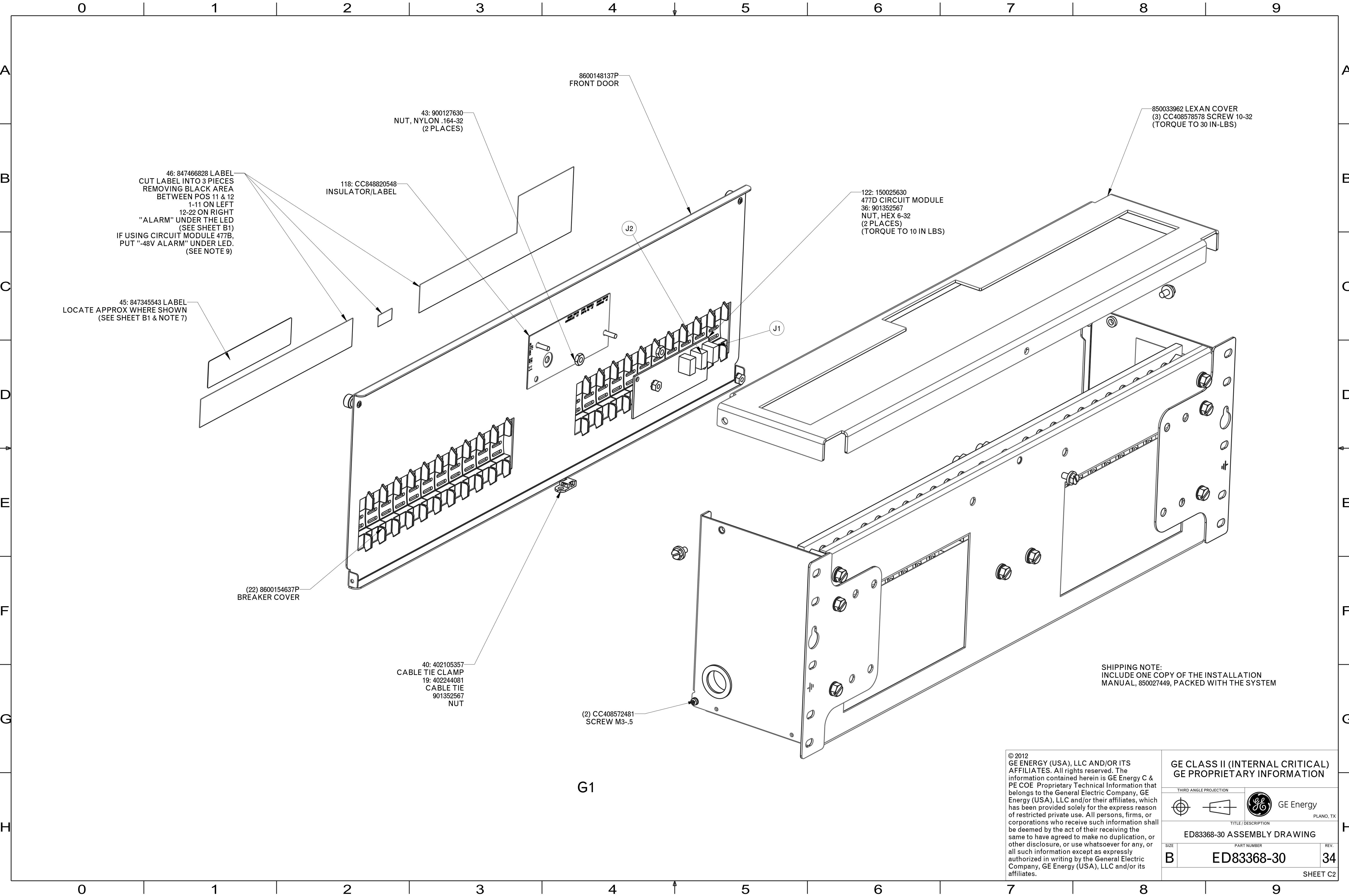
PART NUMBER

ED83368-30

REV.

34


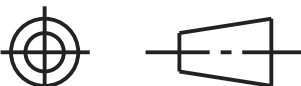
SHEET C1



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GE CLASS II (INTERNAL CRITICAL)
GE PROPRIETARY INFORMATION

THIRD ANGLE PROJECTION

GE Energy
PLANO, TX

TITLE / DESCRIPTION

ED83368-30 ASSEMBLY DRAWING

SIZE

B

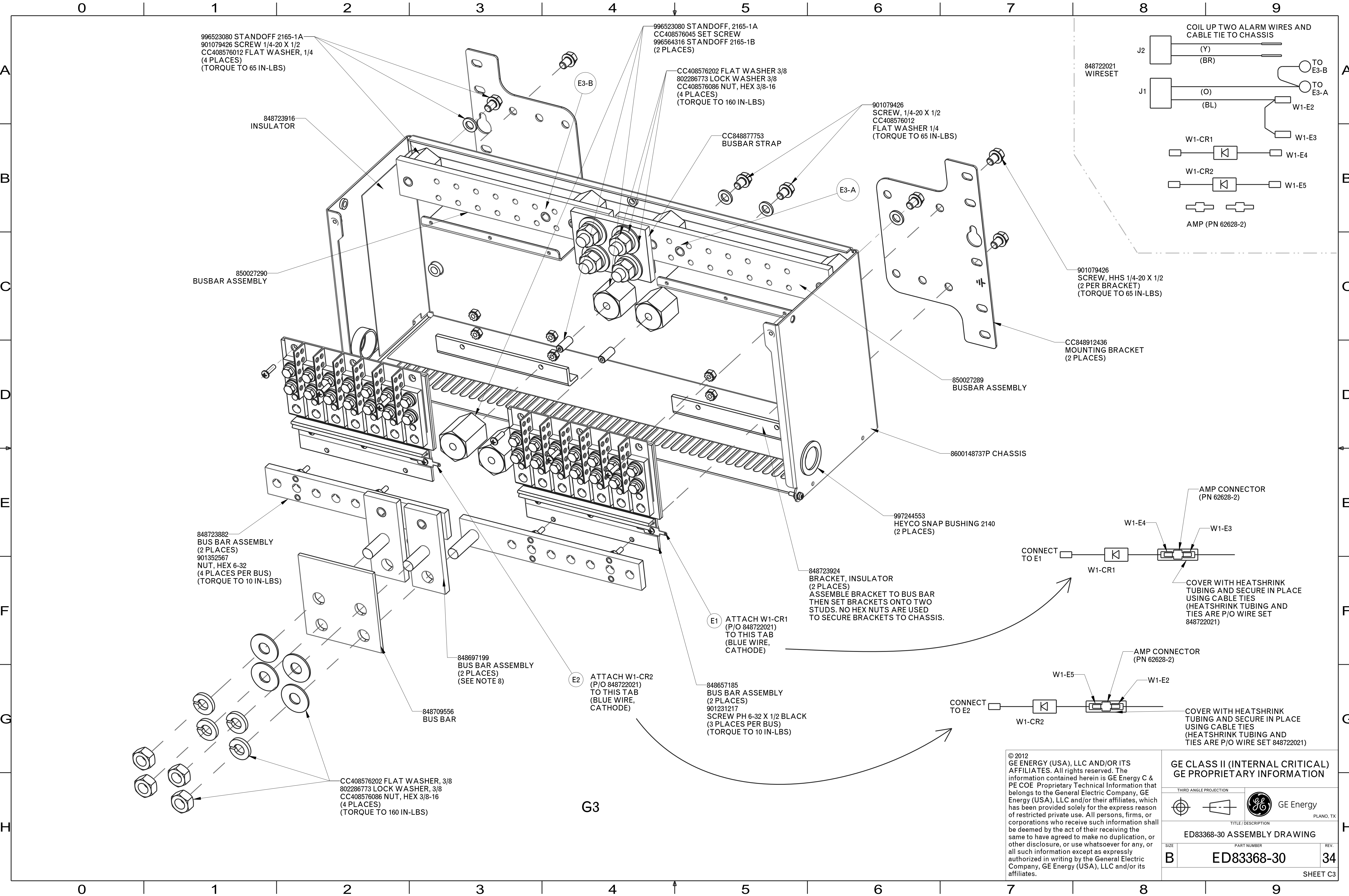
PART NUMBER

ED83368-30

REV.

34

SHEET C2



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GE CLASS II (INTERNAL CRITICAL)
GE PROPRIETARY INFORMATION

THIRD ANGLE PROJECTION

GE Energy

PLANO, TX

TITLE / DESCRIPTION

ED83368-30 ASSEMBLY DRAWING

SIZE

B

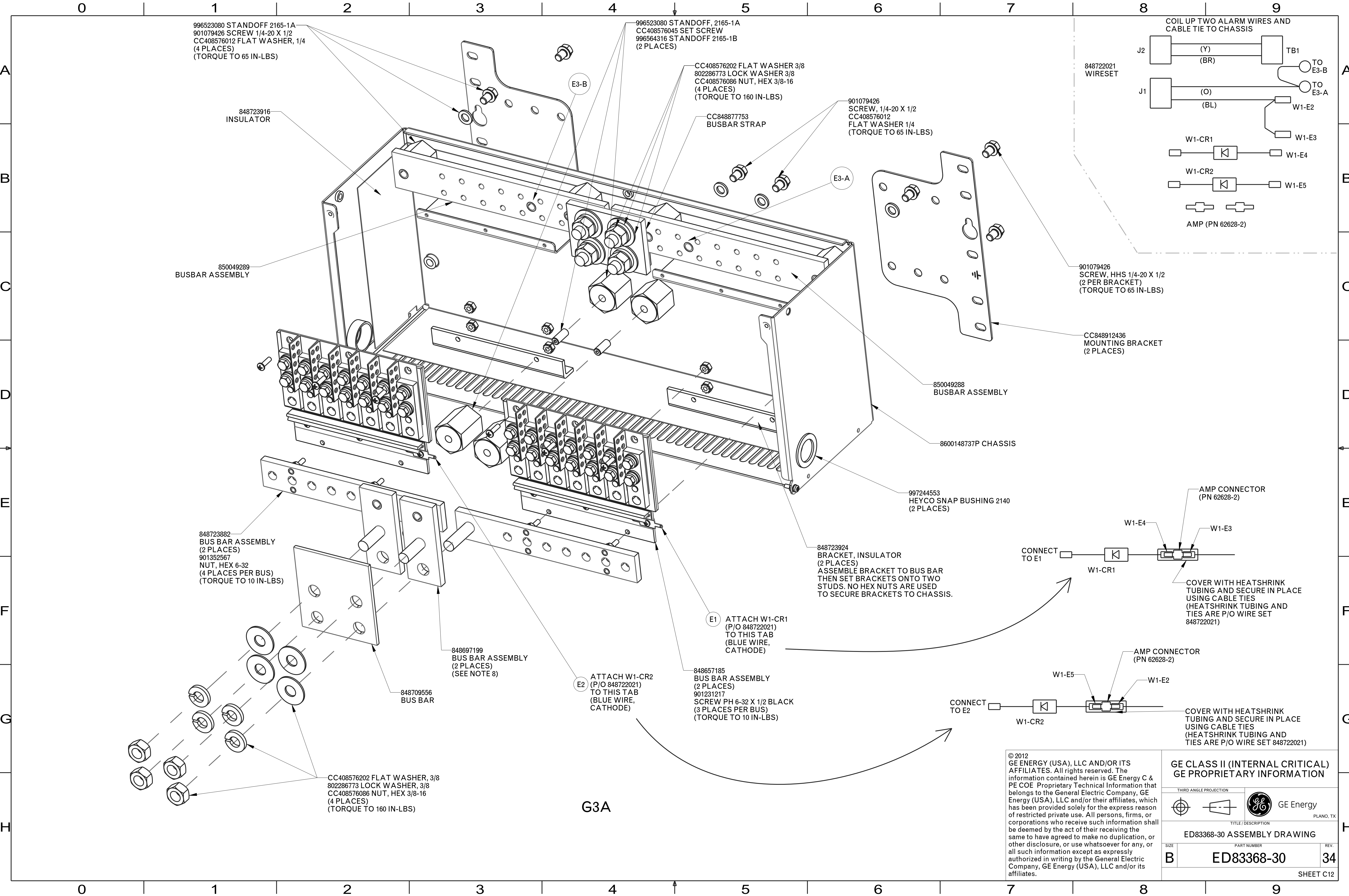
PART NUMBER

ED83368-30

REV.

34

SHEET C3



996523080 STANDOFF 2165-1A
901079426 SCREW 1/4-20 X 1/2
CC408576012 FLAT WASHER, 1/4
(4 PLACES)
(TORQUE TO 65 IN-LBS)

996523080 STANDOFF, 2165-1A
CC408576045 SET SCREW
996564316 STANDOFF 2165-1B
(2 PLACES)

CC408576202 FLAT WASHER 3/8
802286773 LOCK WASHER 3/8
CC408576086 NUT, HEX 3/8-16
(4 PLACES)
(TORQUE TO 160 IN-LBS)

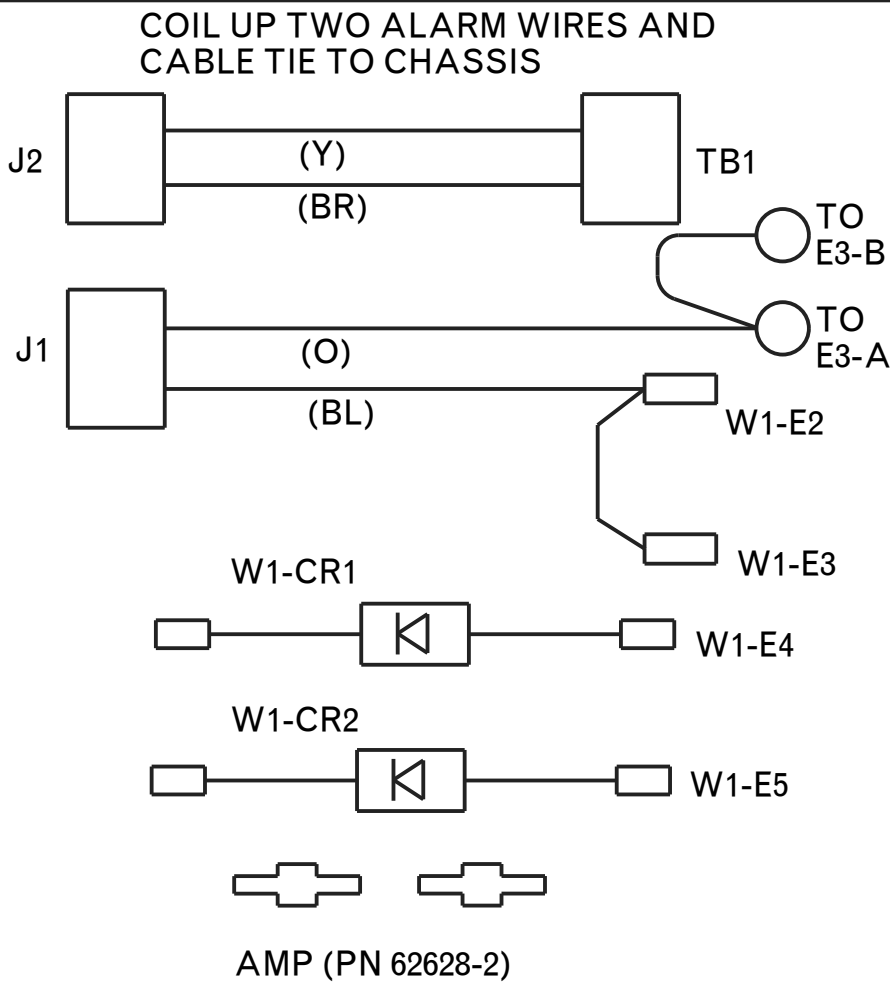
901079426
SCREW, 1/4-20 X 1/2
CC408576012
FLAT WASHER 1/4
(TORQUE TO 65 IN-LBS)

CC848877753
BUSBAR STRAP

848723916
INSULATOR

850049289
BUSBAR ASSEMBLY

848722021
WIRESET



901079426
SCREW, HHS 1/4-20 X 1/2
(2 PER BRACKET)
(TORQUE TO 65 IN-LBS)

CC848912436
MOUNTING BRACKET
(2 PLACES)

850049288
BUSBAR ASSEMBLY

8600148737P CHASSIS

997244553
HEYCO SNAP BUSHING 2140
(2 PLACES)

848723924
BRACKET, INSULATOR
(2 PLACES)
ASSEMBLE BRACKET TO BUS BAR
THEN SET BRACKETS ONTO TWO
STUDS. NO HEX NUTS ARE USED
TO SECURE BRACKETS TO CHASSIS.

E1 ATTACH W1-CR1
(P/O 848722021)
TO THIS TAB
(BLUE WIRE,
CATHODE)

E2 ATTACH W1-CR2
(P/O 848722021)
TO THIS TAB
(BLUE WIRE,
CATHODE)

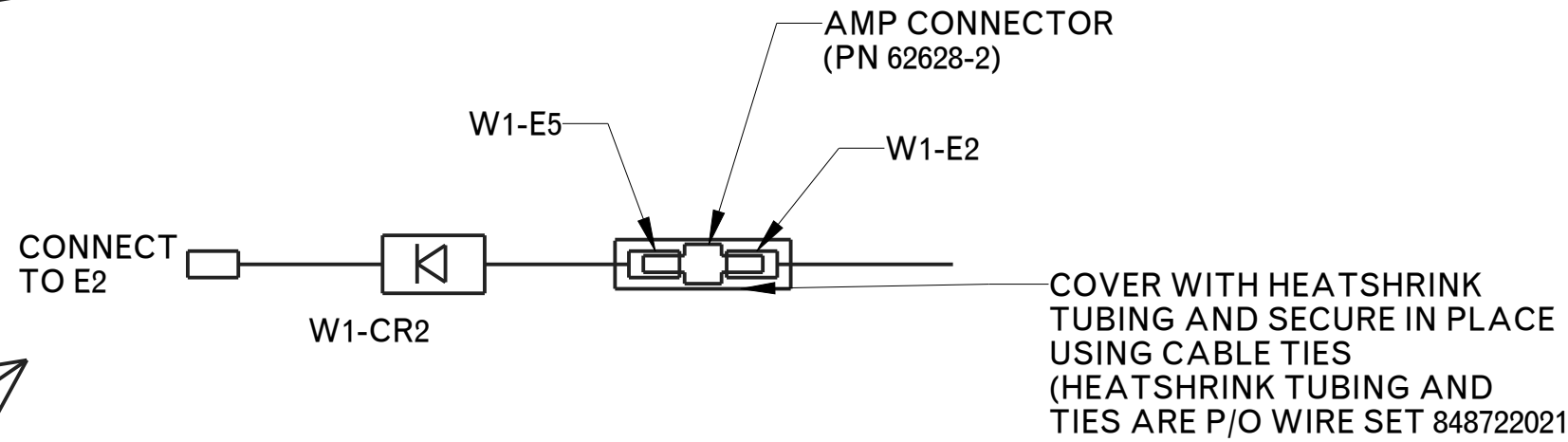
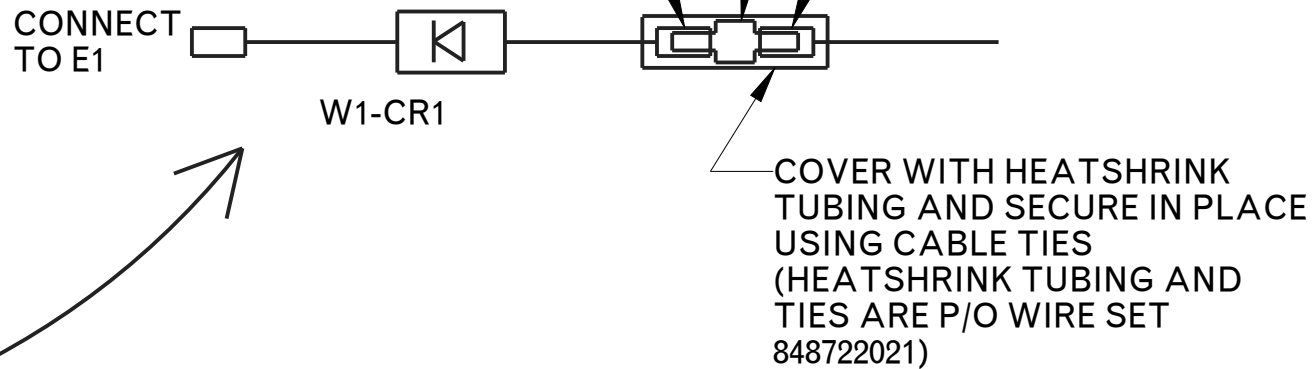
848657185
BUS BAR ASSEMBLY
(2 PLACES)
901231217
SCREW PH 6-32 X 1/2 BLACK
(3 PLACES PER BUS)
(TORQUE TO 10 IN-LBS)

848697199
BUS BAR ASSEMBLY
(2 PLACES)
(SEE NOTE 8)

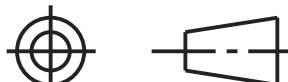
848709556
BUS BAR

848723882
BUS BAR ASSEMBLY
(2 PLACES)
901352567
NUT, HEX 6-32
(4 PLACES PER BUS)
(TORQUE TO 10 IN-LBS)

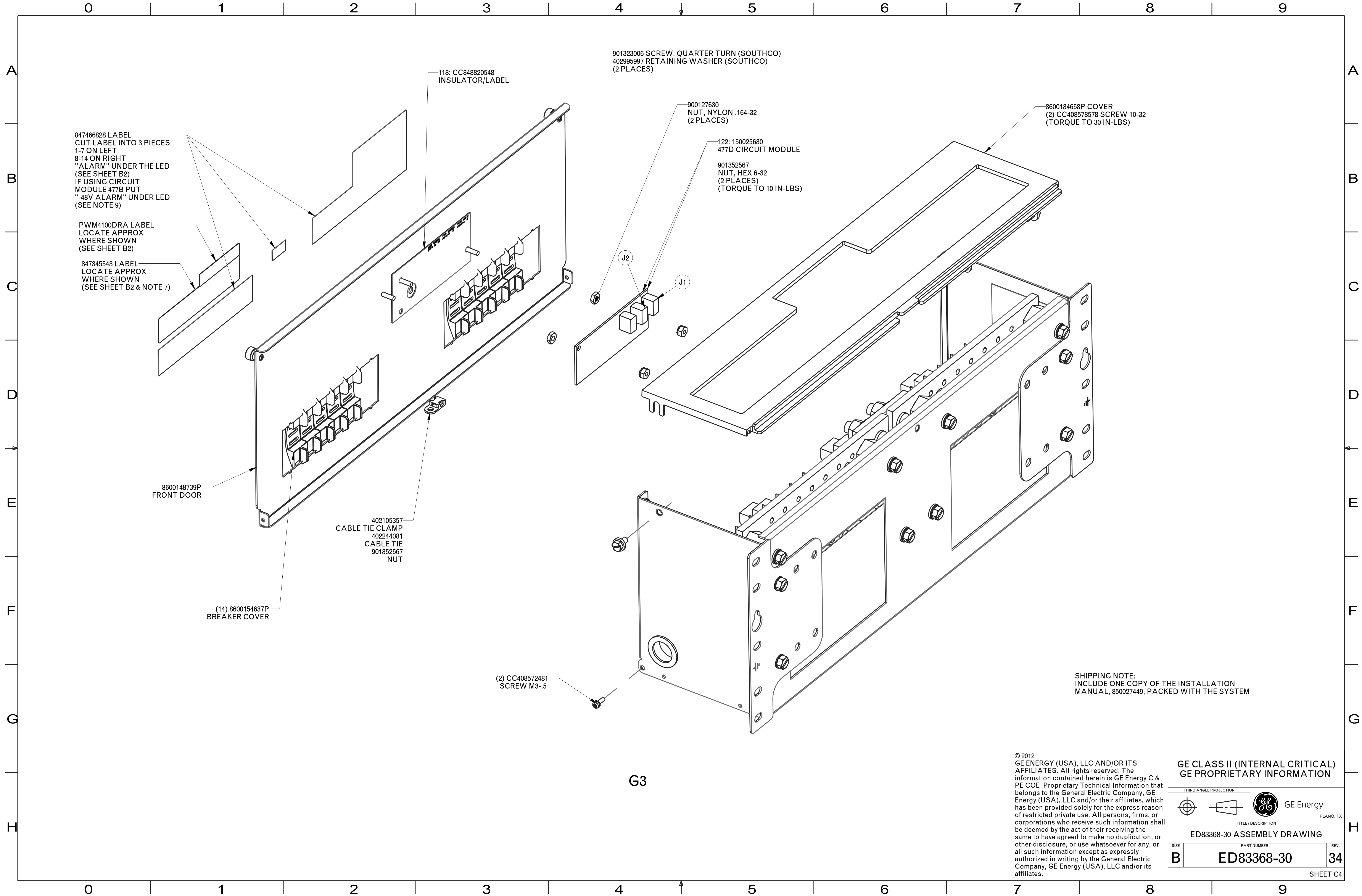
CC408576202 FLAT WASHER, 3/8
802286773 LOCK WASHER, 3/8
CC408576086 NUT, HEX 3/8-16
(4 PLACES)
(TORQUE TO 160 IN-LBS)



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GE CLASS II (INTERNAL CRITICAL) GE PROPRIETARY INFORMATION			
THIRD ANGLE PROJECTION		GE Energy PLANO, TX	
			
TITLE/DESCRIPTION			
ED83368-30 ASSEMBLY DRAWING			
SIZE	PART NUMBER	REV.	
B	ED83368-30	34	
		SHEET C12	


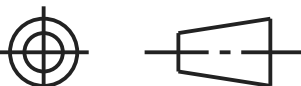
G3A



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GE CLASS II (INTERNAL CRITICAL)
GE PROPRIETARY INFORMATION

THIRD ANGLE PROJECTION

 GE Energy
PLANO, TX

TITLE / DESCRIPTION

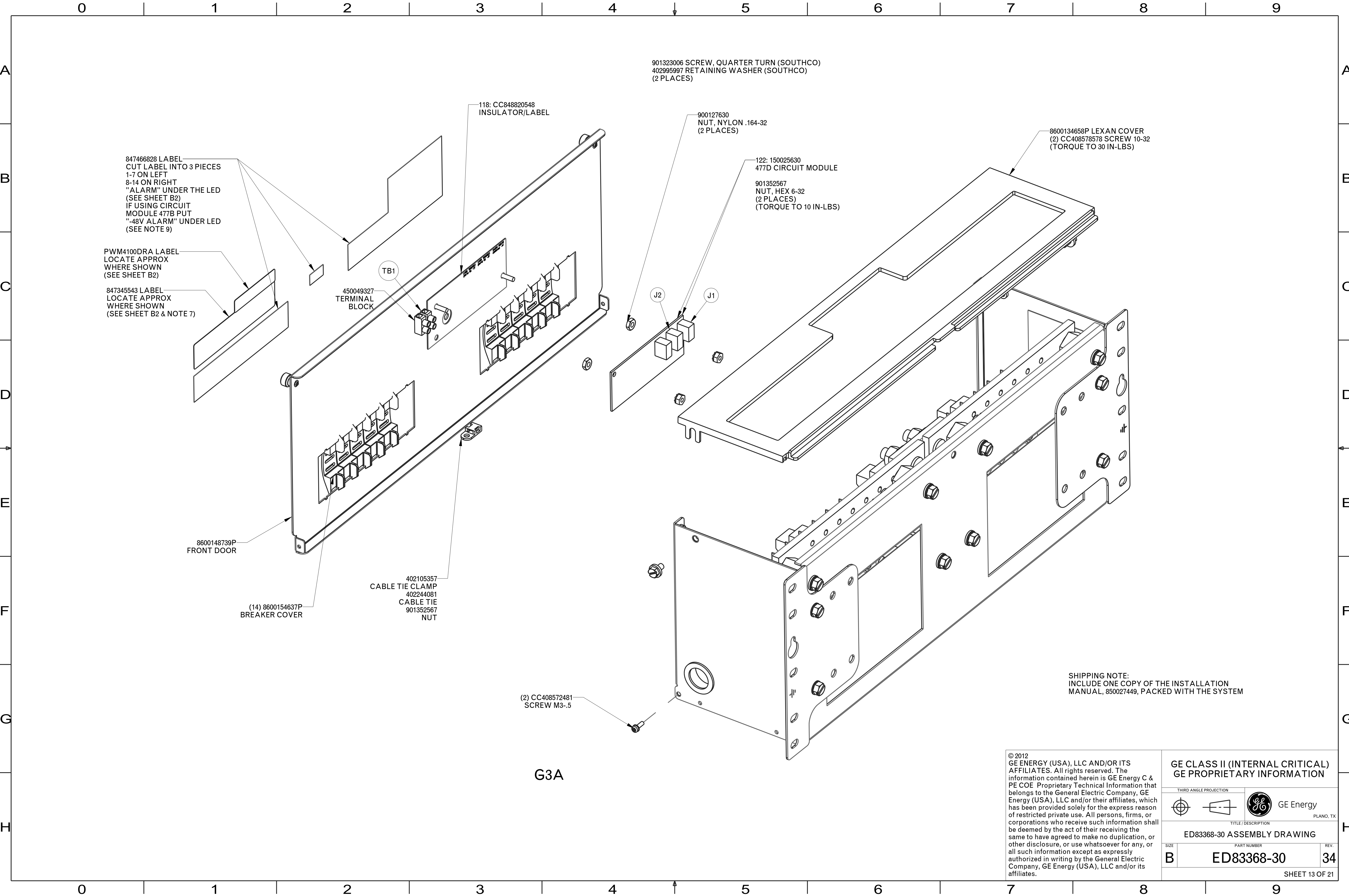
ED83368-30 ASSEMBLY DRAWING

SIZE
B

PART NUMBER
ED83368-30

REV.
34

SHEET C4



847466828 LABEL
CUT LABEL INTO 3 PIECES
1-7 ON LEFT
8-14 ON RIGHT
"ALARM" UNDER THE LED
(SEE SHEET B2)
IF USING CIRCUIT
MODULE 477B PUT
"-48V ALARM" UNDER LED
(SEE NOTE 9)

PWM4100DRA LABEL
LOCATE APPROX
WHERE SHOWN
(SEE SHEET B2)

847345543 LABEL
LOCATE APPROX
WHERE SHOWN
(SEE SHEET B2 & NOTE 7)

8600148739P
FRONT DOOR

(14) 8600154637P
BREAKER COVER

402105357
CABLE TIE CLAMP
402244081
CABLE TIE
901352567
NUT

450049327
TERMINAL
BLOCK

TB1

118: CC848820548
INSULATOR/LABEL

901323006 SCREW, QUARTER TURN (SOUTHCO)
402995997 RETAINING WASHER (SOUTHCO)
(2 PLACES)

900127630
NUT, NYLON .164-32
(2 PLACES)

122: 150025630
477D CIRCUIT MODULE

901352567
NUT, HEX 6-32
(2 PLACES)
(TORQUE TO 10 IN-LBS)


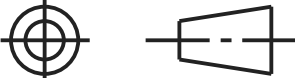
8600134658P LEXAN COVER
(2) CC408578578 SCREW 10-32
(TORQUE TO 30 IN-LBS)

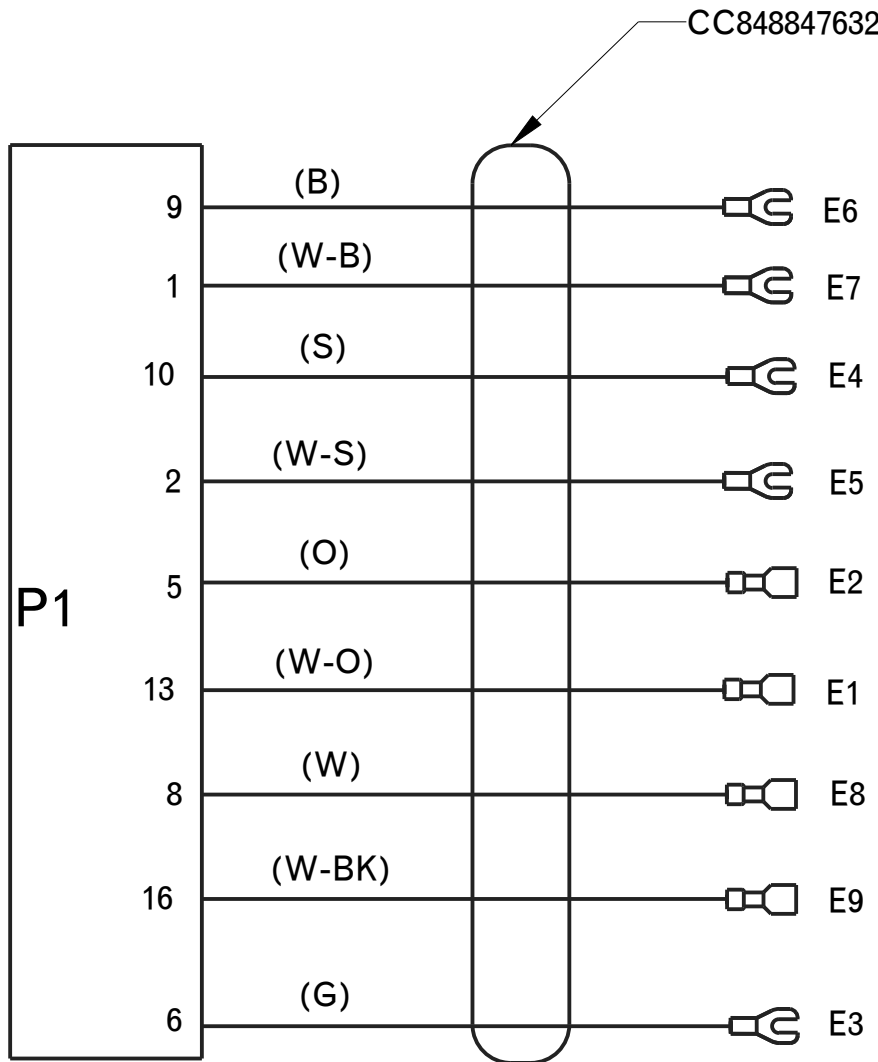
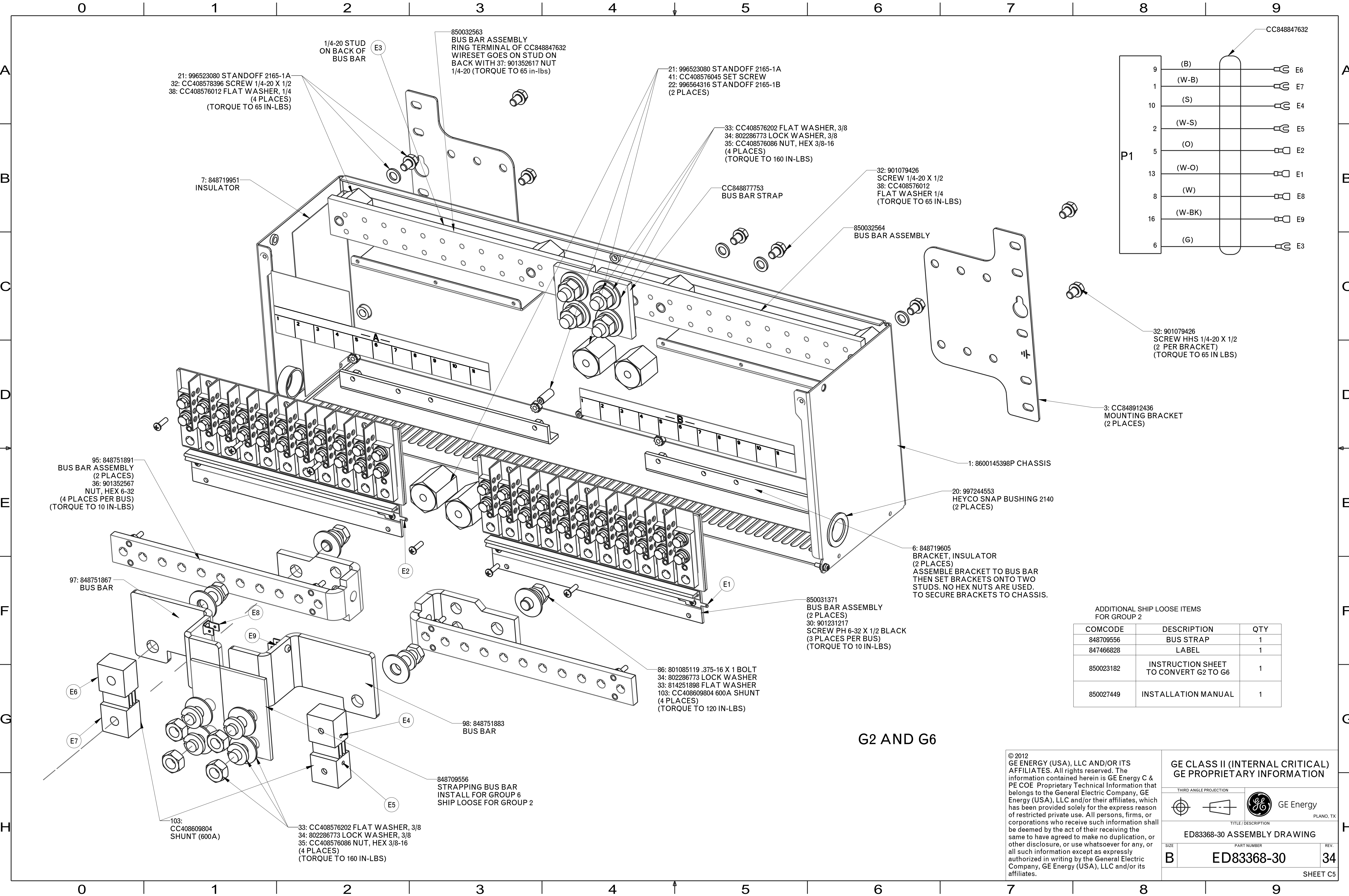
(2) CC408572481
SCREW M3-.5

SHIPPING NOTE:
INCLUDE ONE COPY OF THE INSTALLATION
MANUAL, 850027449, PACKED WITH THE SYSTEM

G3A

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GE CLASS II (INTERNAL CRITICAL) GE PROPRIETARY INFORMATION			
THIRD ANGLE PROJECTION		 GE Energy PLANO, TX	
			
TITLE / DESCRIPTION			
ED83368-30 ASSEMBLY DRAWING			
SIZE	PART NUMBER		REV.
B	ED83368-30		34
SHEET 13 OF 21			




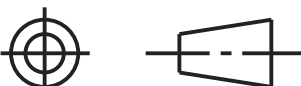
ADDITIONAL SHIP LOOSE ITEMS FOR GROUP 2		
COMCODE	DESCRIPTION	QTY
848709556	BUS STRAP	1
847466828	LABEL	1
850023182	INSTRUCTION SHEET TO CONVERT G2 TO G6	1
850027449	INSTALLATION MANUAL	1

G2 AND G6

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GE CLASS II (INTERNAL CRITICAL) GE PROPRIETARY INFORMATION

THIRD ANGLE PROJECTION

GE Energy
PLANO, TX

TITLE/DESCRIPTION

ED83368-30 ASSEMBLY DRAWING

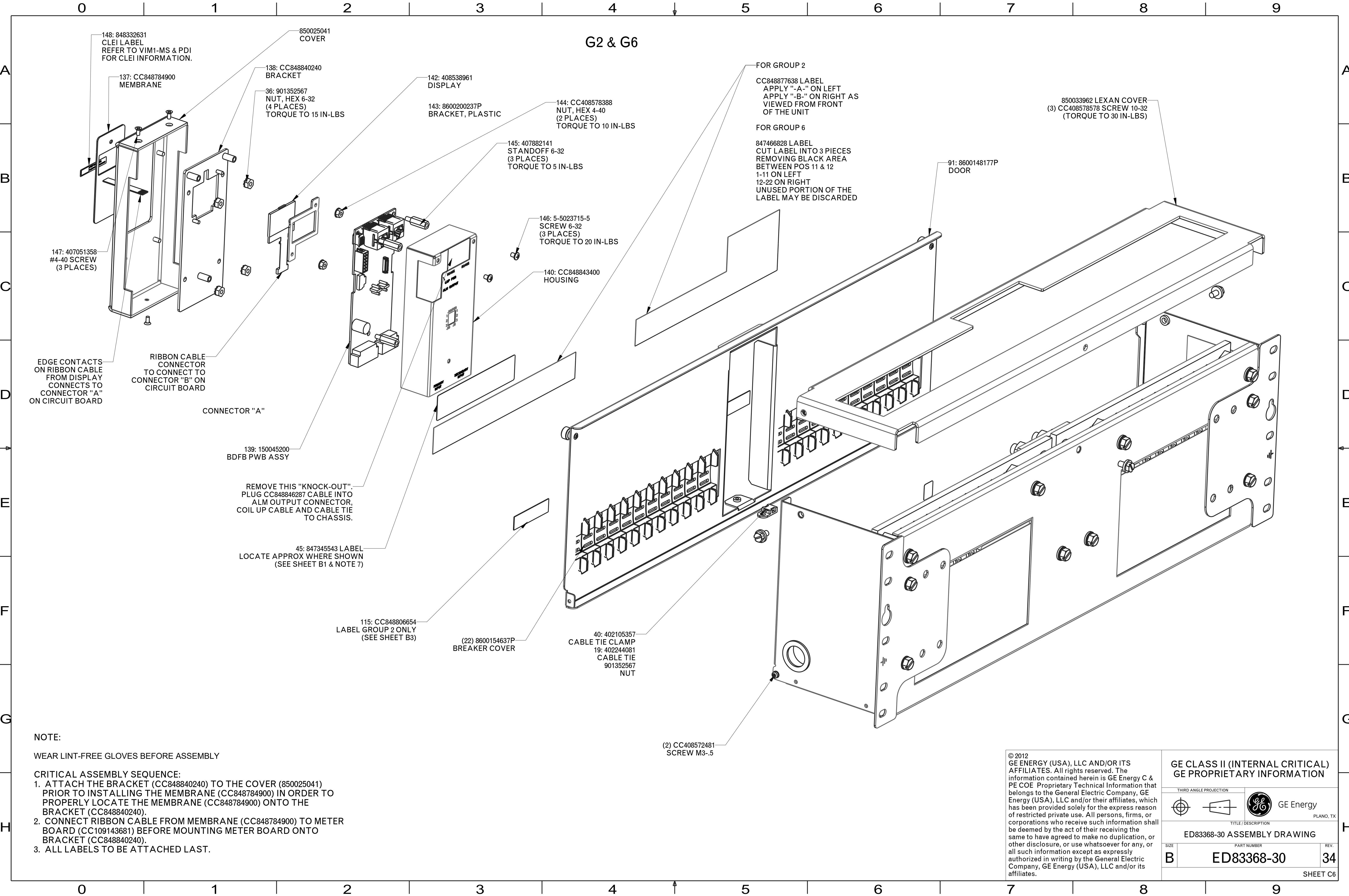
PART NUMBER

ED83368-30

REV.

34

SHEET C5



G2 & G6

NOTE:
WEAR LINT-FREE GLOVES BEFORE ASSEMBLY

CRITICAL ASSEMBLY SEQUENCE:
1. ATTACH THE BRACKET (CC848840240) TO THE COVER (850025041) PRIOR TO INSTALLING THE MEMBRANE (CC848784900) IN ORDER TO PROPERLY LOCATE THE MEMBRANE (CC848784900) ONTO THE BRACKET (CC848840240).
2. CONNECT RIBBON CABLE FROM MEMBRANE (CC848784900) TO METER BOARD (CC109143681) BEFORE MOUNTING METER BOARD ONTO BRACKET (CC848840240).
3. ALL LABELS TO BE ATTACHED LAST.

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GE CLASS II (INTERNAL CRITICAL)
GE PROPRIETARY INFORMATION

THIRD ANGLE PROJECTION

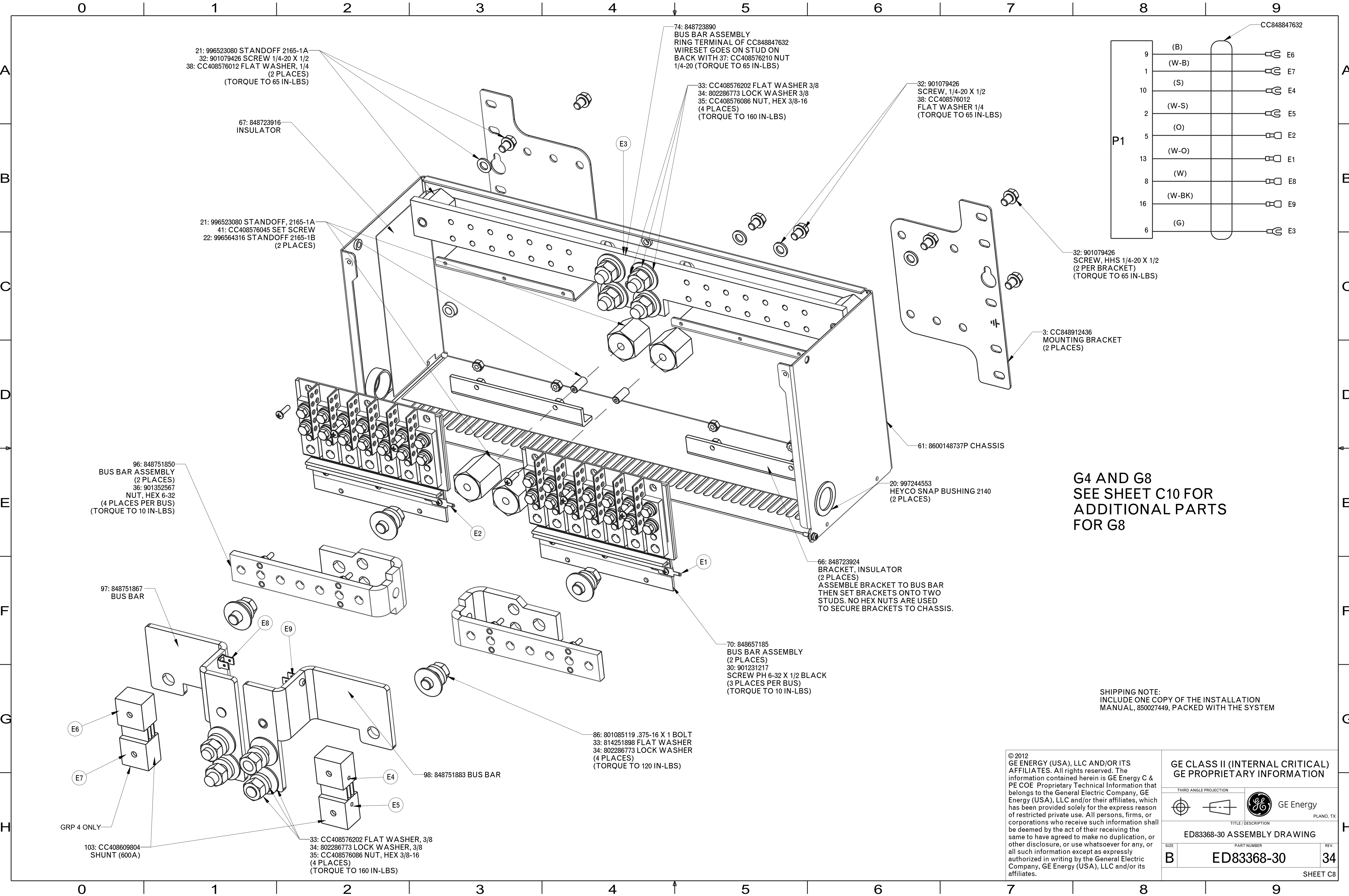
GE Energy
PLANO, TX

TITLE/DESCRIPTION

ED83368-30 ASSEMBLY DRAWING

SIZE	PART NUMBER	REV.
B	ED83368-30	34



SHEET C6

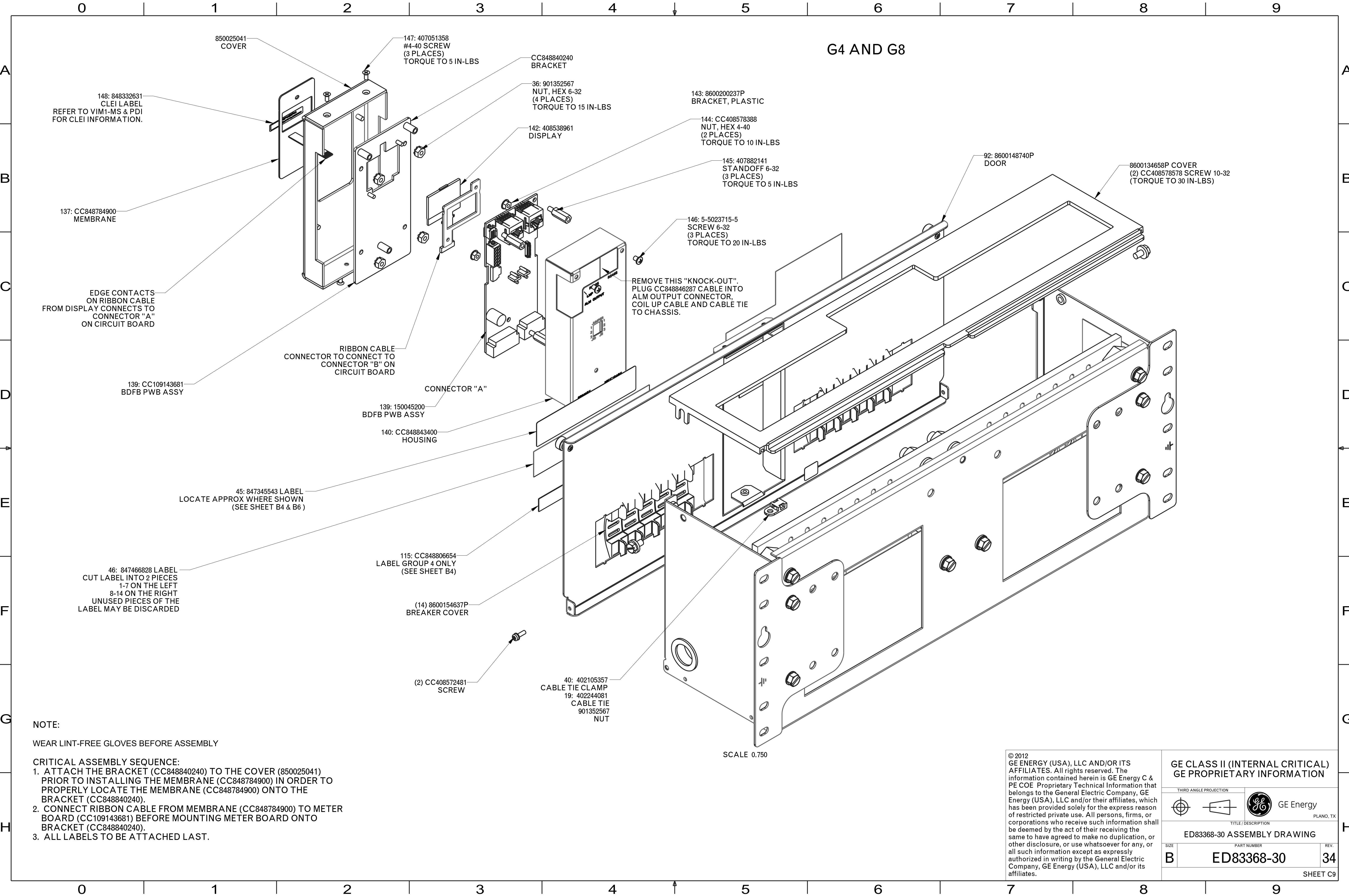


G4 AND G8
SEE SHEET C10 FOR
ADDITIONAL PARTS
FOR G8

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THIRD ANGLE PROJECTION		 GE Energy PLANO, TX	
			
TITLE / DESCRIPTION			
ED83368-30 ASSEMBLY DRAWING			
SIZE	PART NUMBER		REV.
B	ED83368-30		34
SHEET C8			



G4 AND G8


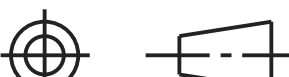
NOTE:

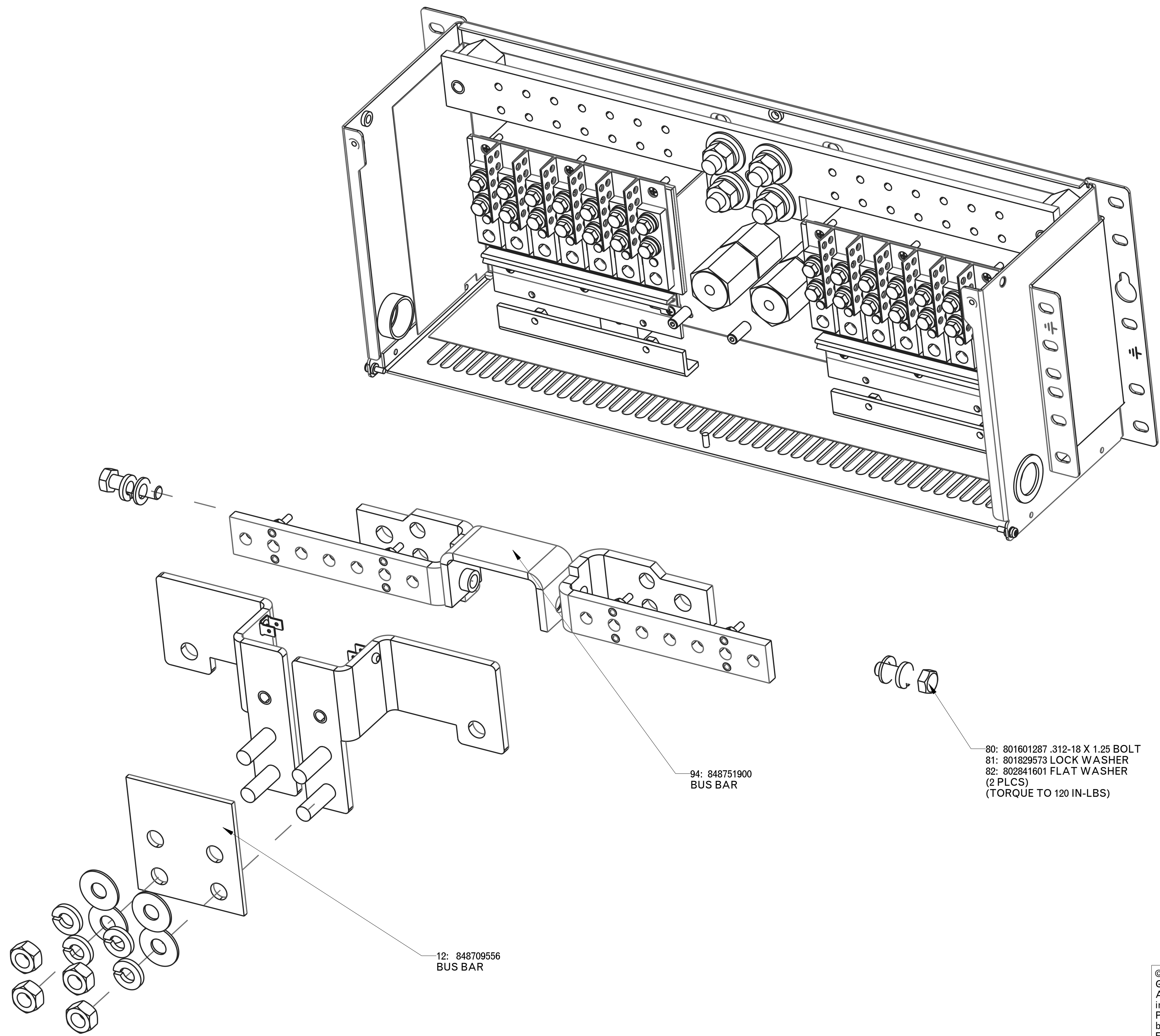
WEAR LINT-FREE GLOVES BEFORE ASSEMBLY

CRITICAL ASSEMBLY SEQUENCE:

- 1. ATTACH THE BRACKET (CC848840240) TO THE COVER (850025041) PRIOR TO INSTALLING THE MEMBRANE (CC848784900) IN ORDER TO PROPERLY LOCATE THE MEMBRANE (CC848784900) ONTO THE BRACKET (CC848840240).
- 2. CONNECT RIBBON CABLE FROM MEMBRANE (CC848784900) TO METER BOARD (CC109143681) BEFORE MOUNTING METER BOARD ONTO BRACKET (CC848840240).
- 3. ALL LABELS TO BE ATTACHED LAST.

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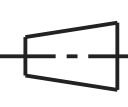
GE CLASS II (INTERNAL CRITICAL) GE PROPRIETARY INFORMATION			
THIRD ANGLE PROJECTION		 GE Energy PLANO, TX	
			
TITLE / DESCRIPTION			
ED83368-30 ASSEMBLY DRAWING			
SIZE	PART NUMBER		REV.
B	ED83368-30		34
SHEET C9			

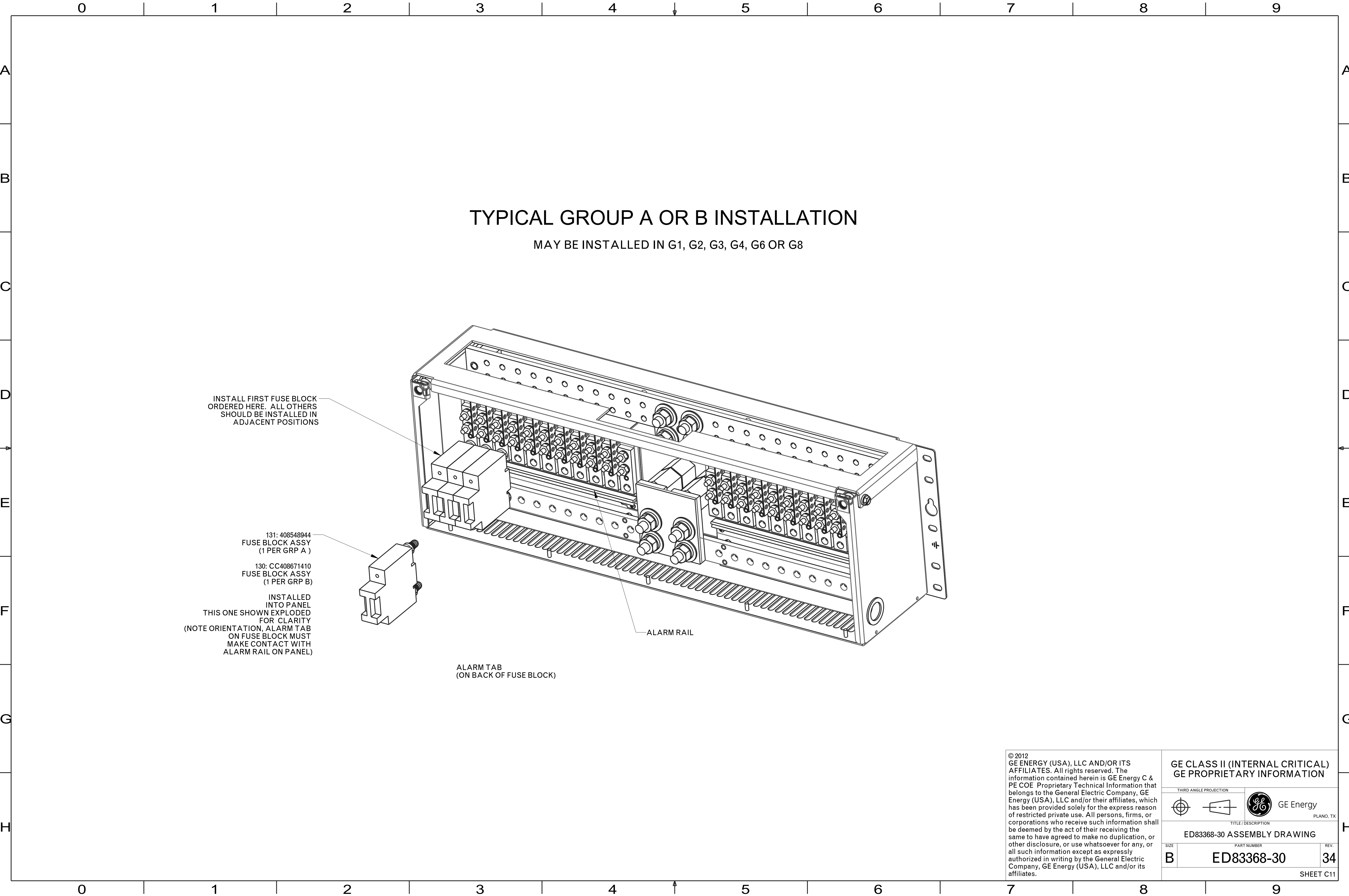


G8
SEE SHEET C7 FOR MORE
INFORMATION

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GE CLASS II (INTERNAL CRITICAL)
GE PROPRIETARY INFORMATION

THIRD ANGLE PROJECTION		 GE Energy PLANO, TX
		
TITLE/DESCRIPTION		
ED83368-30 ASSEMBLY DRAWING		
SIZE	PART NUMBER	REV.
B	ED83368-30	34
SHEET C10		



TYPICAL GROUP A OR B INSTALLATION

MAY BE INSTALLED IN G1, G2, G3, G4, G6 OR G8

INSTALL FIRST FUSE BLOCK
ORDERED HERE. ALL OTHERS
SHOULD BE INSTALLED IN
ADJACENT POSITIONS

131: 408548944
FUSE BLOCK ASSY
(1 PER GRP A)
130: CC408671410
FUSE BLOCK ASSY
(1 PER GRP B)

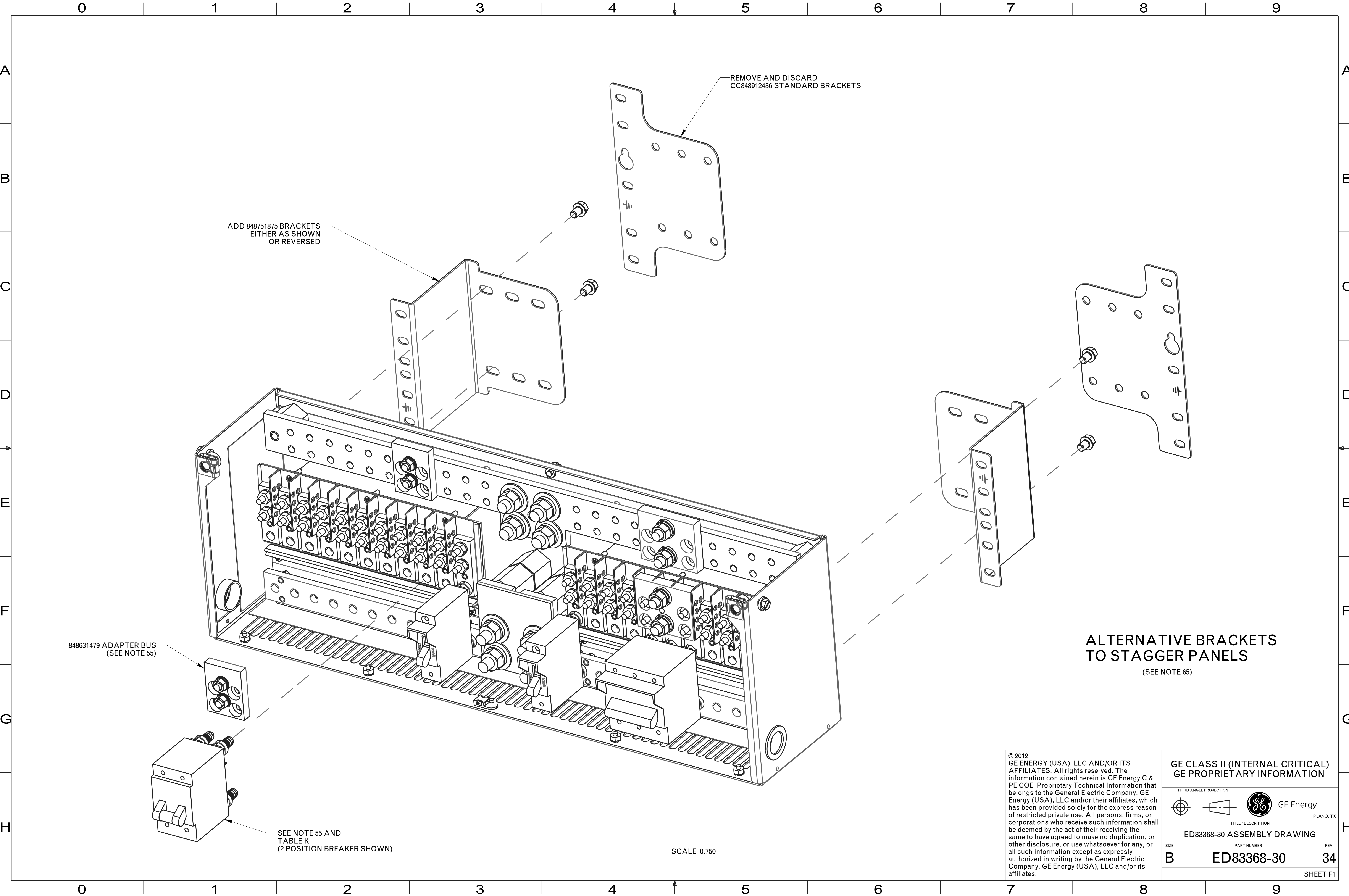
INSTALLED
INTO PANEL
THIS ONE SHOWN EXPLODED
FOR CLARITY
(NOTE ORIENTATION, ALARM TAB
ON FUSE BLOCK MUST
MAKE CONTACT WITH
ALARM RAIL ON PANEL)

ALARM TAB
(ON BACK OF FUSE BLOCK)

ALARM RAIL

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THIRD ANGLE PROJECTION		
TITLE / DESCRIPTION		
ED83368-30 ASSEMBLY DRAWING		
SIZE	PART NUMBER	REV.
B	ED83368-30	34
SHEET C11		



REMOVE AND DISCARD
CC848912436 STANDARD BRACKETS

ADD 848751875 BRACKETS
EITHER AS SHOWN
OR REVERSED


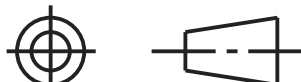
848631479 ADAPTER BUS
(SEE NOTE 55)

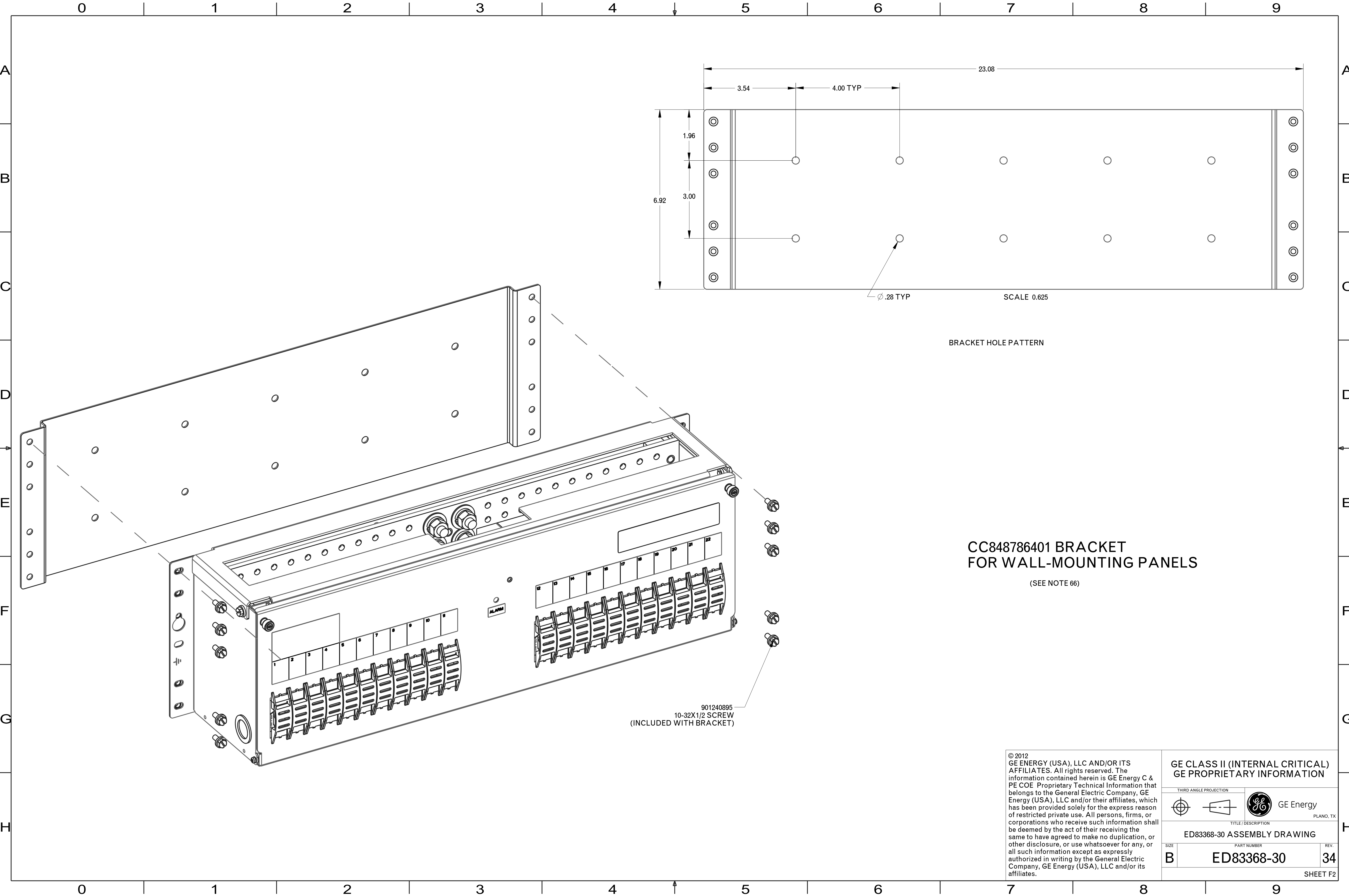
SEE NOTE 55 AND
TABLE K
(2 POSITION BREAKER SHOWN)

ALTERNATIVE BRACKETS
TO STAGGER PANELS
(SEE NOTE 65)

SCALE 0.750

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THIRD ANGLE PROJECTION		 GE Energy PLANO, TX	
			
TITLE / DESCRIPTION			
ED83368-30 ASSEMBLY DRAWING			
SIZE	PART NUMBER		REV.
B	ED83368-30		34
			SHEET F1



CC848786401 BRACKET
FOR WALL-MOUNTING PANELS

(SEE NOTE 66)

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THIRD ANGLE PROJECTION		
TITLE / DESCRIPTION		
ED83368-30 ASSEMBLY DRAWING		
SIZE	PART NUMBER	REV.
B	ED83368-30	34
SHEET F2		