

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.

| LINE | DESCRIPTION | TABLE A FEATURES | | | | CIRCUITS | AND FIGURES EQUIPPED | WIRING | APPARATUS |
|------|--|------------------|----|----|---------------|----------|----------------------|--------|-----------|
| | | AA | AB | AC | AD | | | | |
| 1 | 7. INCH HIGH DISTRIBUTION PANEL WITH 22 POSITIONS FOR BULLET STYLE CIRCUIT BREAKERS OR FUSE HOLDERS. 48VDC or +24VDC (SEE NOTE 63). MAX CURRENT RATING OF 600 AMPS. FRONT ACCESS WITH MOUNTING CENTERS OF EITHER 22.32 OR 24.32 INCHES. PROVIDES ISOLATED ALARM SIGNAL. (SEE NOTES 51 - 66). (ORDERING CODE 108991056) | | 1 | 1 | T. 83368 - 30 | 1 | W | | |
| 2 | SAME AS GROUP 1 EXCEPT BUS SPLIT INTO A/B LOAD WITH SHUNT MONITORING EACH LOAD. SHUNTS ARE WIRED TO A DIGITAL METER. SHUNTS AND VOLTAGES ARE MONITORED THROUGH DIGITAL METER. RATING 300A A BUS AND 300A B BUS (ORDERING CODE CC109145463) | | 2 | 1 | T. 83368 - 30 | 2 | W | | |
| 3 | 7. INCH HIGH DISTRIBUTION PANEL WITH 14 POSITIONS FOR BULLET STYLE CIRCUIT BREAKERS OR FUSE HOLDERS. 48VDC or +24VDC (SEE NOTE 63). MAX CURRENT RATING OF 600 AMPS. FRONT ACCESS WITH MOUNTING CENTERS OF EITHER 18.32 OR 22.32 INCHES. PROVIDES ISOLATED ALARM SIGNAL. (SEE NOTES 51 - 66). (ORDERING CODE 108992070) | | 3 | 1 | T. 83368 - 30 | 3 | W | | |
| 4 | SAME AS GROUP 3 EXCEPT BUS SPLIT INTO A/B LOAD WITH SHUNT MONITORING EACH LOAD. SHUNTS ARE WIRED TO A DIGITAL METER. SHUNTS AND VOLTAGES ARE MONITORED THROUGH DIGITAL METER. RATING 300A A BUS, 300A B BUS (ORDERING CODE CC109145455) | | 4 | 1 | T. 83368 - 30 | 4 | W | | |
| 8 | SAME AS GROUP 3 EXCEPT BUS INCLUDES A SHUNT WIRED TO A DIGITAL METER. DIGITAL METER MONITORED SHUNT AND VOLTAGE. (ORDERING CODE CC109145447) | | 8 | 1 | T. 83368 - 30 | 8 | W | | |
| 10 | IN ADDITION TO GRPS 1,2,3,4, 6,8 TO PROVIDE ONE BULLET IN STYLE FUSE BLOCK FOR TPS FUSES (ALARMS WHEN FUSE BLOWS OR FUSE HEAD IS REMOVED FROM BLOCK) SEE NOTE 68 | | A | | | | | | |
| 11 | IN ADDITION TO GRPS 1,2,3,4, 6,8 TO PROVIDE ONE BULLET IN STYLE FUSE BLOCK FOR TPS FUSES (ALARMS ONLY WHEN FUSE BLOWS) SEE NOTE 68 | | B | | | | | | |
| 6 | SAME AS GROUP 1 EXCEPT BUS INCLUDES A SHUNT WIRED TO A DIGITAL METER. DIGITAL METER MONITORS SHUNTS AND VOLTAGES. ORDERING CODE: CC109145430 & 108997160 | | 6 | 1 | T-83368-30 | 6 | W | | |

SHOP INST
X
X
X

- () DESIGNATIONS TO BE STAMPED IN ACCORDANCE WITH JOB INFORMATION.
- [] INDICATES DESIGNATIONS SHOWN FOR INFORMATION ONLY AND ARE NOT TO BE STAMPED.
- < > INDICATES INFORMATION PROVIDED IN ACCORDANCE WITH OTHER INFORMATION.
- PARTS THAT ARE TO BE SHIPPED ATTACHED TO OR ENCLOSED IN THE SAME CONTAINER WITH THE ASSOCIATED ASSEMBLED ITEM.
- 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.
- ALL DIMENSIONS ARE INCHES
- 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)
- LABEL 847466844 AND/OR LABEL CC848822734 SHOULD BE TIED TO STUD OF BUS BAR 848697199 (ITEM 13) SO THAT IT IS CLEARLY VISIBLE.
- 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

- 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.
- 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.

| DES | MGR | DATE | REV / ISSUE |
|---|-----|-------------|-------------|
| REPLACED VIM1C WITH VIM1EC ON THE FOLLOWING SHEETS: C6 AND C9 | | | |
| CN-0022995 | | | |
| DES | MGR | DATE | REV / ISSUE |
| QLW | SCS | 12-Feb-16 | 27 |
| 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 |
| GGL | SCS | 08/24/2011 | 17 |
| BOM UPDATES FOR GR2 REACTIVATED GR 6 | | | |
| DES | MGR | DATE | REV / ISSUE |
| JRP | SCS | 02/29/2012 | 18 |
| UPDATED NOTE 7. | | | |
| DES | MGR | DATE | REV / ISSUE |
| ORL | SCS | 04-Mar-16 | 28 |
| REPLACE TB 450050205 WITH TB 450049327 IN GROUP 3A. | | | |
| DES | MGR | DATE | REV / ISSUE |
| ORL | SCS | 06-Sep-16 | 29 |
| REPLACE TB 450050205 WITH TB 450049327 IN GROUP 3A. | | | |
| DES | MGR | DATE | REV / ISSUE |
| ORL | SCS | 09-Sep-16 | 30 |
| REPLACED CC848843441 WITH 8600200237P ON G2, G4, G6, G8 | | | |
| JRP | SCS | 15-OCT-2018 | 31 |
| MODIFY CHASSIS AND DOOR G3, G3A, G4, G8 | | | |
| CWS | SCS | 06-FEB-2019 | 32 |
| MODIFY CHASSIS AND DOOR G1, G2, G6 | | | |
| CWS | SCS | 12-FEB-2019 | 33 |
| REPLACE 19 INCH COVER | | | |
| CWS | SCS | 14-FEB-2019 | 34 |

| DES | MGR | DATE | REV / ISSUE |
|--|-----|-------------|-------------|
| RE-CREATED DRAWING IN PRO-E | | | |
| DES | MGR | DATE | REV / ISSUE |
| GGL | SCS | 12-MAY-2011 | 16 |
| CONVERTED THE A SHEETS TO PRO-E | | | |
| DES | MGR | DATE | REV / ISSUE |
| GGL | SCS | 08/24/2011 | 17 |
| BOM UPDATES FOR GR2 REACTIVATED GR 6 | | | |
| DES | MGR | DATE | REV / ISSUE |
| JRP | SCS | 02/29/2012 | 18 |
| ON SHEETS C2 AND C4 CHANGED THE 447C CARD TO THE 477D CARD | | | |
| DES | MGR | DATE | REV / ISSUE |
| JRP | SCS | 07/30/2012 | 20 |
| BUS BARS WERE CHANGED ON GROUPS 3, 2 AND 6. NEW BUS BARS ARE 850027262, 850027263, 850027289 AND 850027290 | | | |
| DES | MGR | DATE | REV / ISSUE |
| JRP | SCS | 15-AUG-2012 | 21 |
| REPLACED STUDS IN BUS BARS WITH PEM NUTS OR INTERNALLY THREADED PARTS | | | |
| CN-0013155 | | | |
| DES | MGR | DATE | REV / ISSUE |
| JTM | SCS | 18-APR-2013 | 22 |
| REPLACED TOP COVERS, ADDED INSTALLATION MANUAL | | | |
| 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 |

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

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GE CLASS II (INTERNAL CRITICAL) GE PROPRIETARY INFORMATION

THIRD ANGLE PROJECTION

TITLE / DESCRIPTION
ED83368-30 ASSEMBLY DRAWING

SIZE PART NUMBER REV.
B ED83368-30 34

SHEET A1

ENGINEERING NOTES (CONT'D)

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.

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 OVL PL | FUSE/CIRCUIT OVERLOAD POWER LOSS | BREAKER FAILURE |
|-------------|----------------------------------|-----------------|

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.

| 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 | 0.0034 | 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 |

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 X10MM.

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.

| CIRCUIT COMCODE | BREAKER INTERUPT AMPERAGE | CURRENT CB POSITIONS | RATING MIN WIRE GA | 10,000 AMPS. 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 |

| LUG COMCODE | TYPE | STD WIRE GA (CLASS B) | FLEX WIRE GA (CLASS I) | METRIC WIRE GA (MM2) |
|-------------|------|-----------------------|------------------------|----------------------|
| 406332940 | LOAD | | | |
| 406332940 | RTN | 4 | 4 | 25 |
| 406338665 | LOAD | | | |
| 406338665 | RTN | 2 | --- | 35 |
| 405348228 | LOAD | | | |
| 405348228 | RTN | 1/0 | --- | 50 |
| 405348236 | LOAD | | | |
| 405348236 | RTN | 2/0 | 1/0 | 70 |
| 406021725 | LOAD | | | |
| 406021725 | RTN | --- | 2/0 | --- |
| 405348251 | LOAD | | | |
| 405348251 | RTN | 4/0 | --- | --- |
| 405347923 | LOAD | | | |
| 405347923 | RTN | --- | 4/0 | 120 |
| 405347923 | LOAD | | | |
| 407890763 | LOAD | | | |
| 407890763 | RTN | 350 | --- | --- |
| 407890748 | LOAD | | | |
| 407890748 | RTN | --- | 350 | --- |

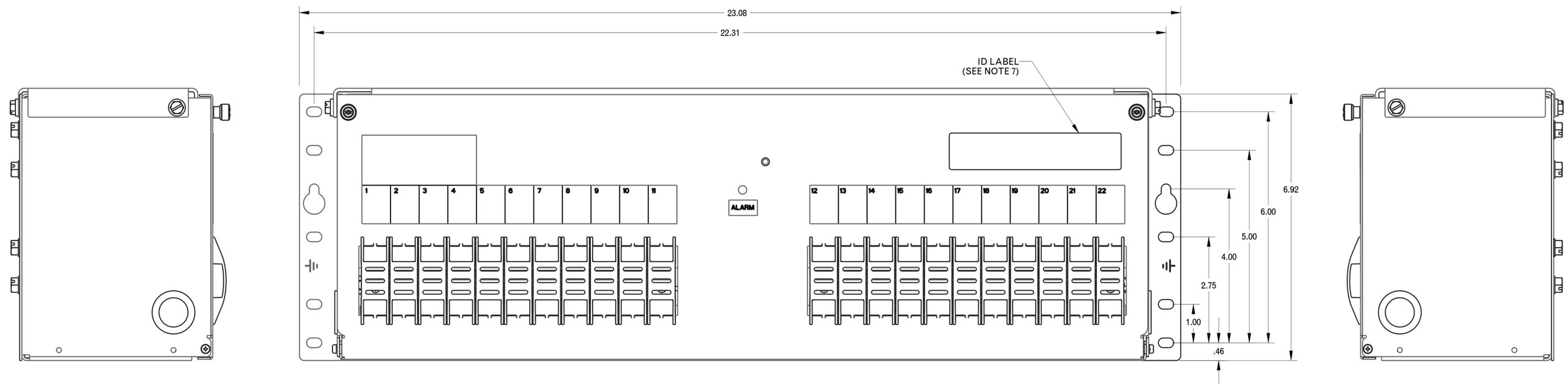
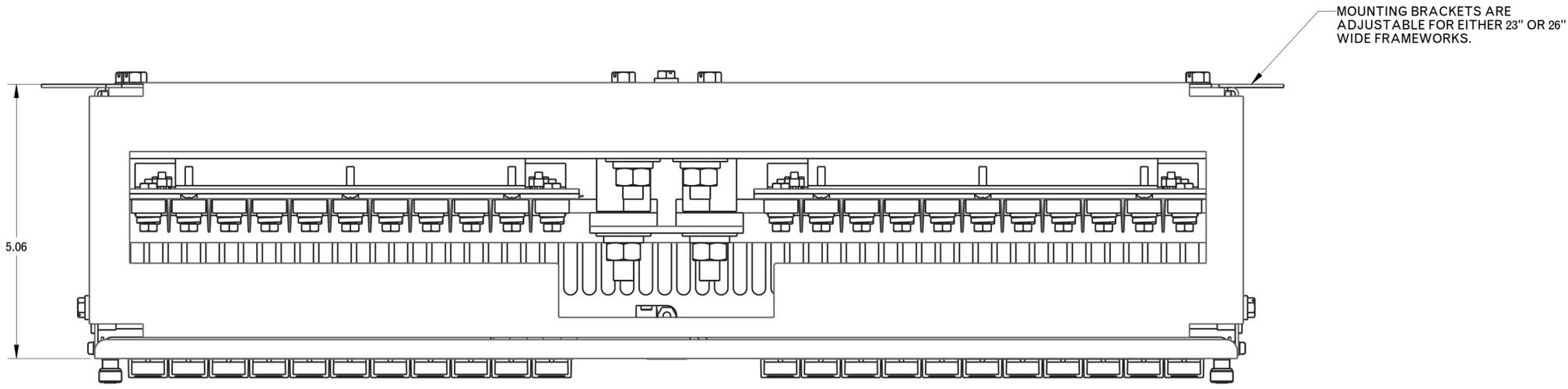
| LUG COMCODE | TYPE | STD WIREGA (CLASS B) | FLEX WIREGA (CLASS I) | METRIC WIREGA (MM2) | HARDWARE KIT (GRADE 2) |
|---|------|----------------------|-----------------------|---------------------|------------------------|
| THESE LUGS HAVE .19 INCH HOLES ON .625 INCH CENTERS (COMPATIBLE WITH M5 SCREWS) | | | | | |
| 405356171 | LOAD | 14 . 10 | 14 . 10 | 6 | PROVIDED |
| 405356171 | RTN | | | | 848201919 |
| 405348178 | LOAD | 8 | 8 | 10 | PROVIDED |
| 405348178 | RTN | | | | 848201919 |
| 406338400 | LOAD | | | | PROVIDED |
| 406338400 | RTN | 6 | 6 | 16 | 848201919 |
| THESE LUGS HAVE .25 HIGH HOLES ON .625 INCH CENTERS (COMPATIBLE WITH M5 SCREWS) | | | | | |
| 405347576 | LOAD | | | | PROVIDED |
| 405347576 | RTN | 4 | 4 | 25 | 848201919 |
| 405348202 | LOAD | | | | PROVIDED |
| 405348202 | RTN | 2 | --- | 35 | 848201919 |
| 405347683 | LOAD | | | | PROVIDED |
| 405347683 | RTN | --- | 2 | --- | 848201919 |
| 407817568 | LOAD | | | | PROVIDED |
| 407817568 | RTN | 1/0 | --- | | 848201919 |
| 407817550 | LOAD | | | | PROVIDED |
| 407817550 | RTN | 2/0 | 1/0 | | 848201919 |
| 407817576 | LOAD | | | | PROVIDED |
| 407817576 | RTN | --- | 2/0 | | 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 |

0 1 2 3 4 5 6 7 8 9

A B C D E F G H



G1

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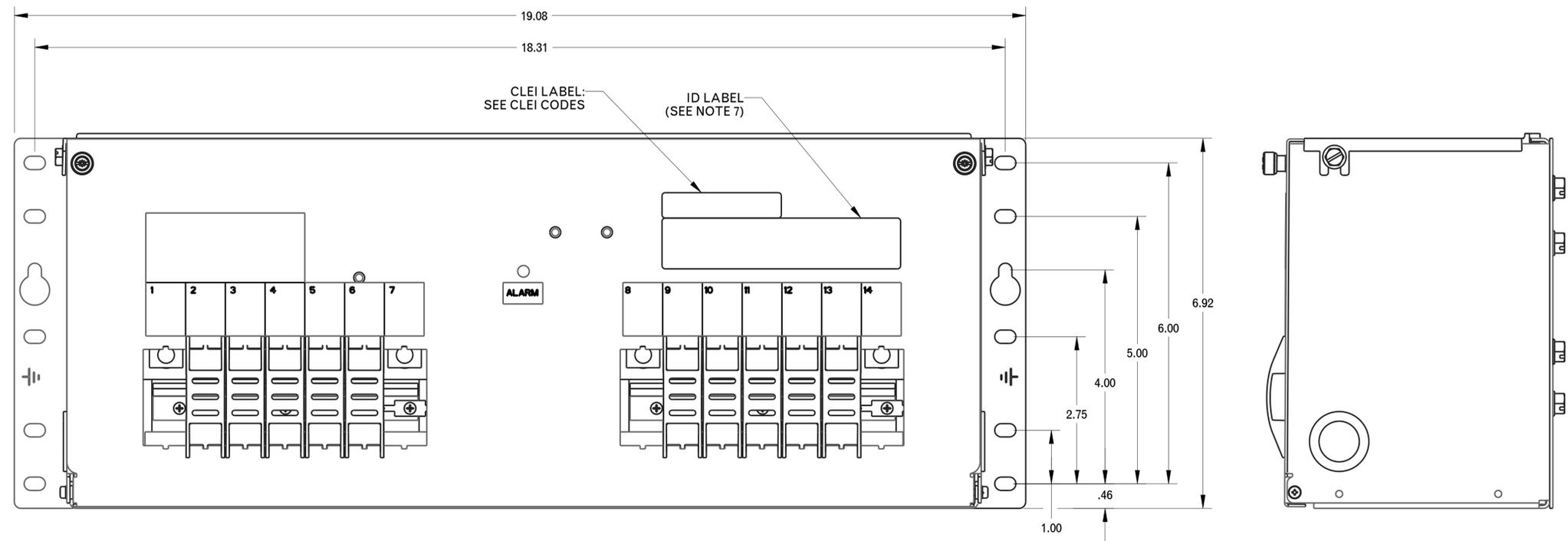
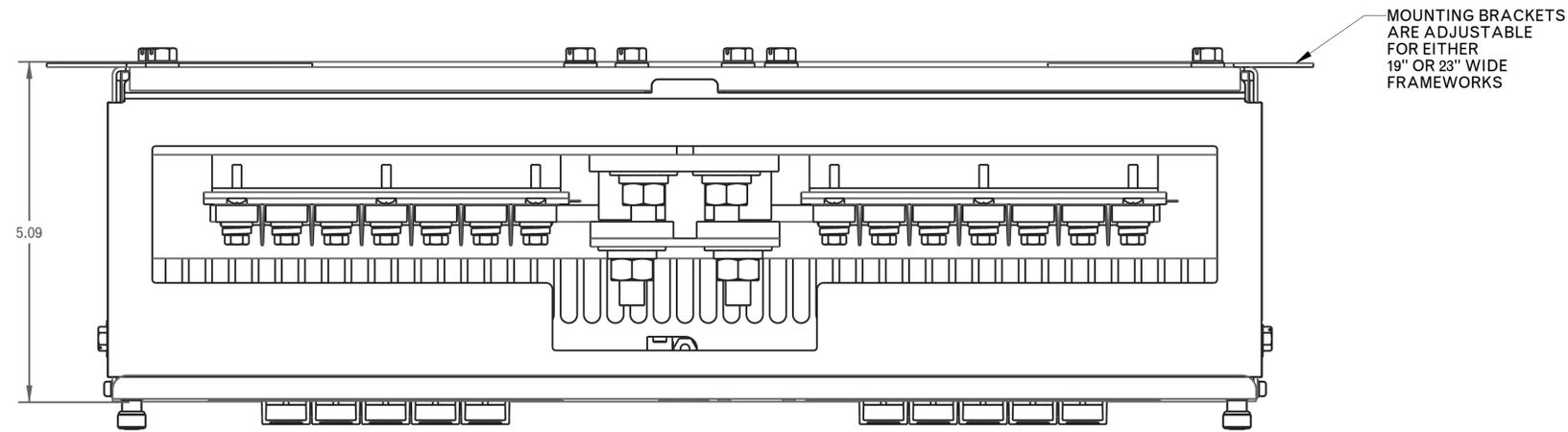
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| GE CLASS II (INTERNAL CRITICAL) GE PROPRIETARY INFORMATION | | |
| THIRD ANGLE PROJECTION | | |
| | | |
| TITLE / DESCRIPTION | | |
| ED83368-30 ASSEMBLY DRAWING | | |
| SIZE | PART NUMBER | REV. |
| B | ED83368-30 | 34 |
| SHEET B1 | | |

0 1 2 3 4 5 6 7 8 9

A B C D E F G H

0 1 2 3 4 5 6 7 8 9

A B C D E F G H



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

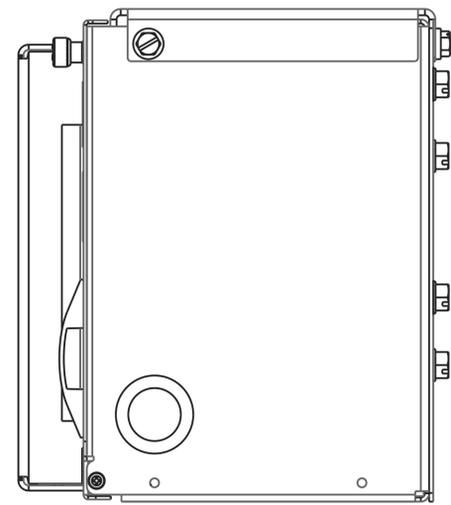
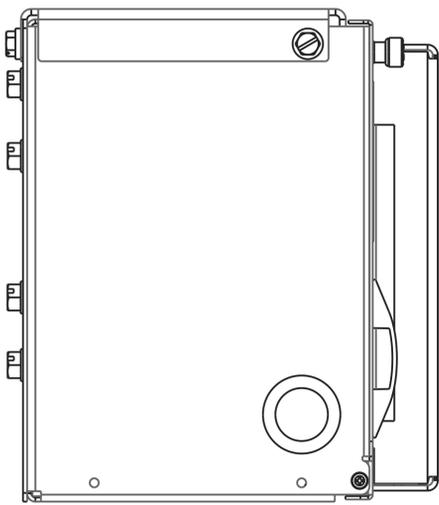
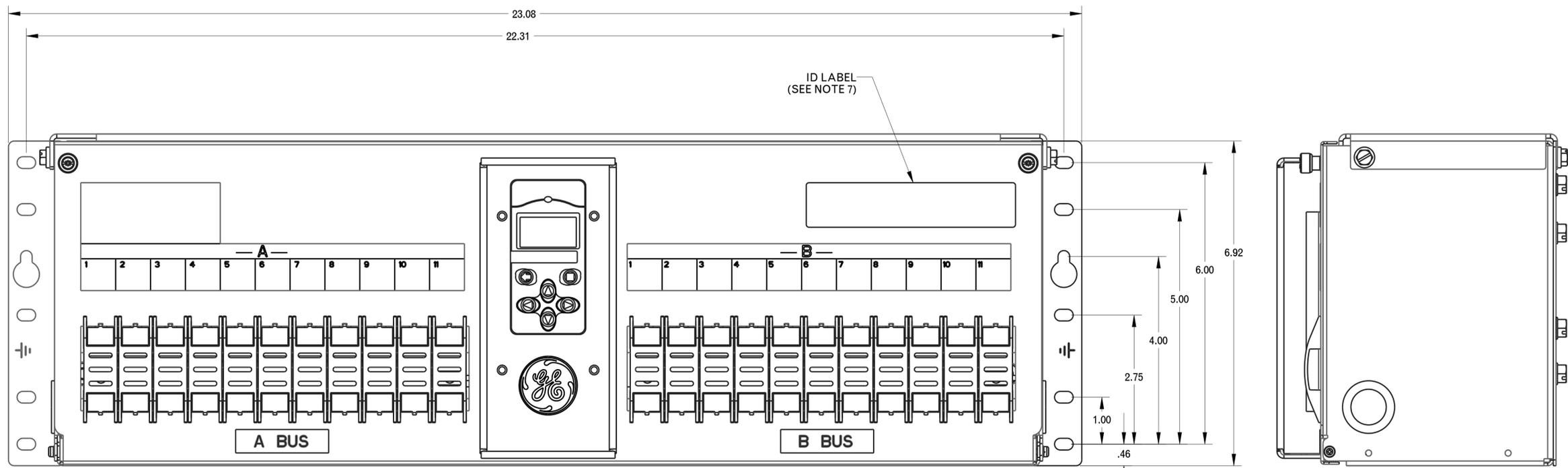
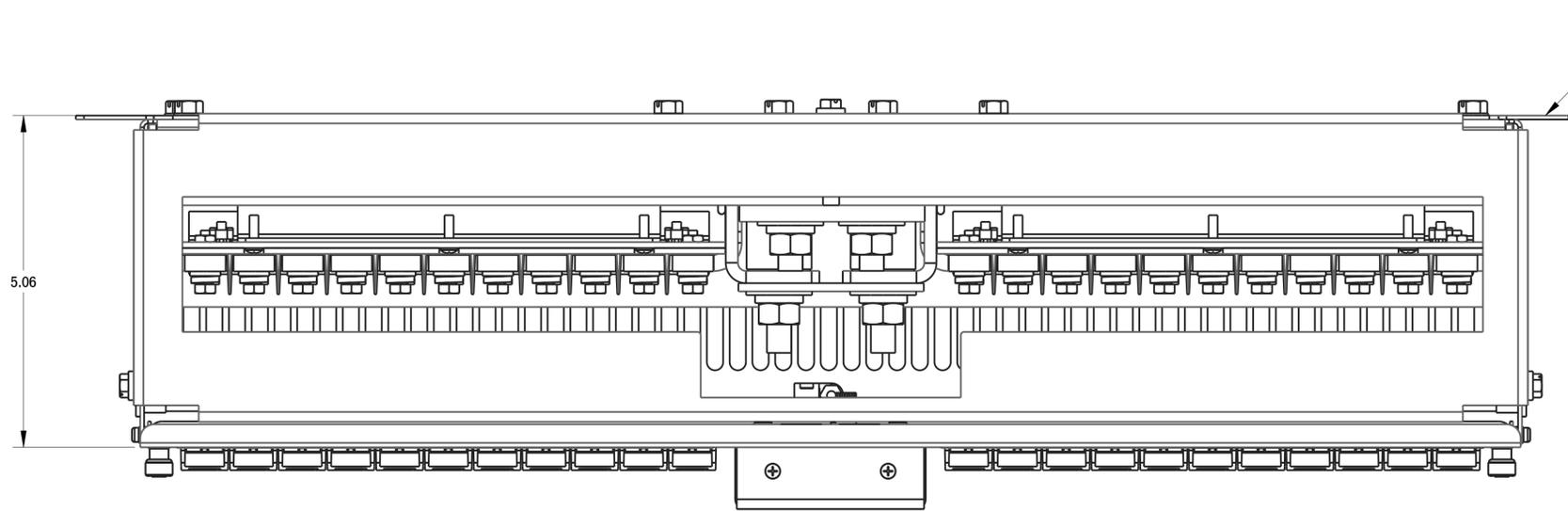
CLEI CODES:

G3: PWM4100DRA
 XXKZ13113809
 G3A: N/A

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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 B2 | |

0 1 2 3 4 5 6 7 8 9



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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| THIRD ANGLE PROJECTION | | |
| | | |
| TITLE / DESCRIPTION ED83368-30 ASSEMBLY DRAWING | | |
| SIZE B | PART NUMBER ED83368-30 | REV. 34 |
| SHEET B3 | | |

0 1 2 3 4 5 6 7 8 9

A

B

C

D

E

F

G

H

A

B

C

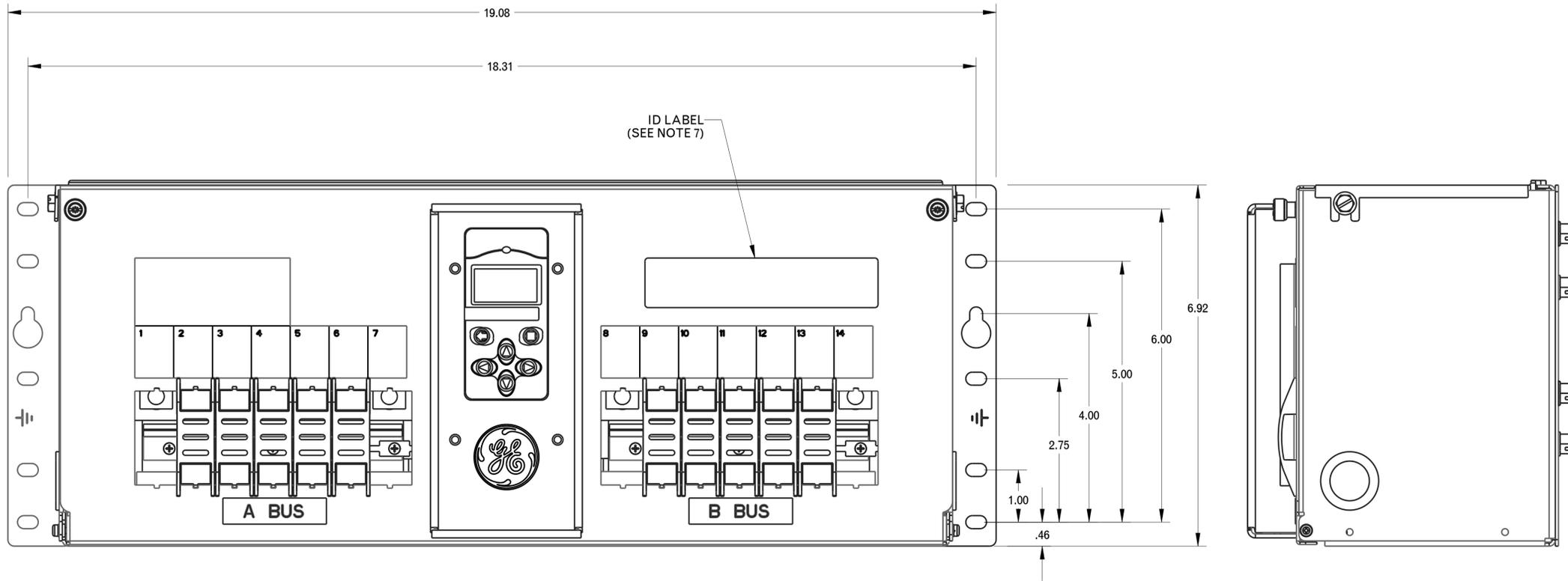
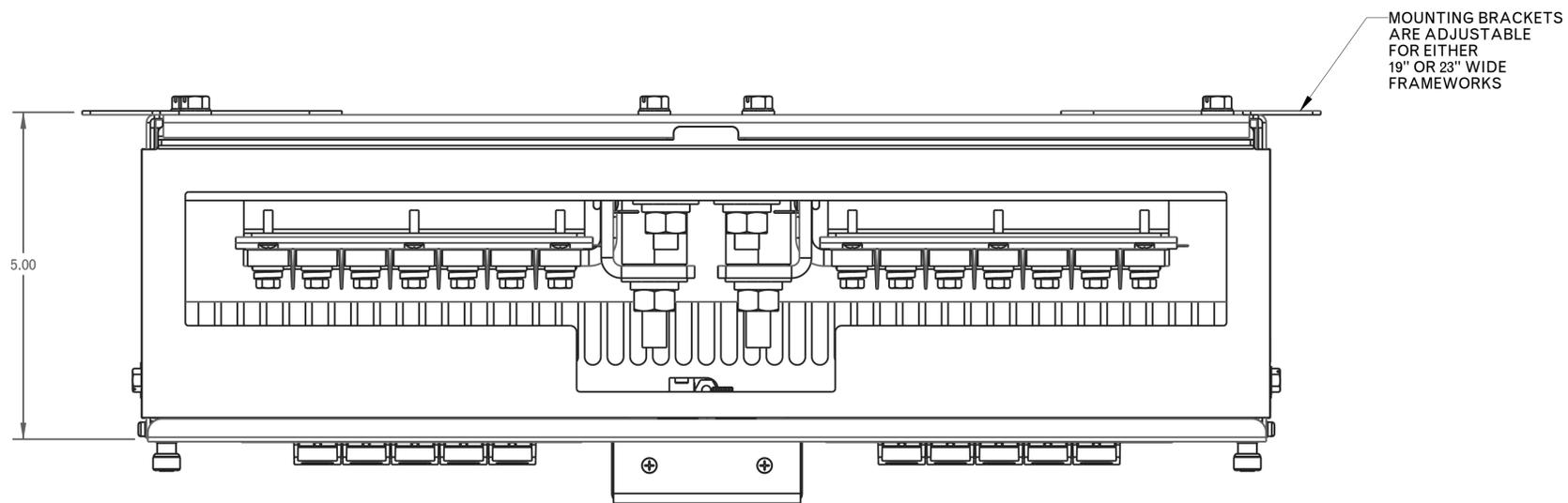
D

E

F

G

H



G4
 G4 HAS TWO LOAD SHUNTS AND
 A DIGITAL METER

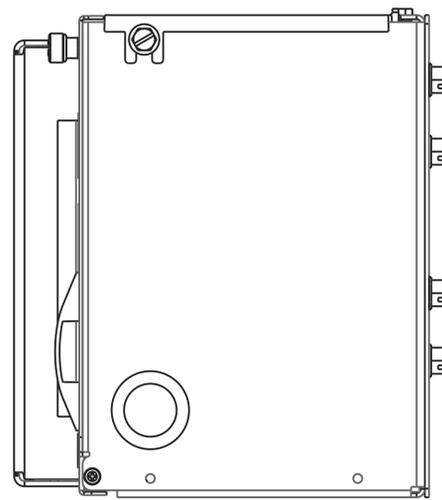
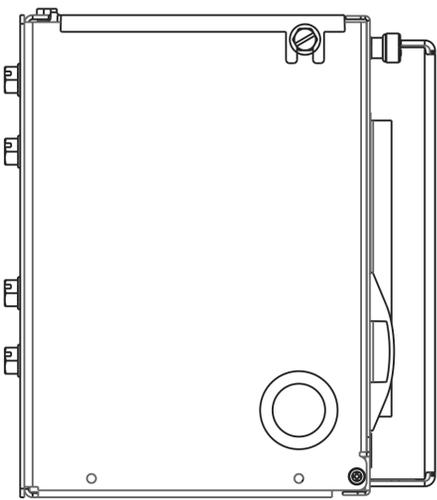
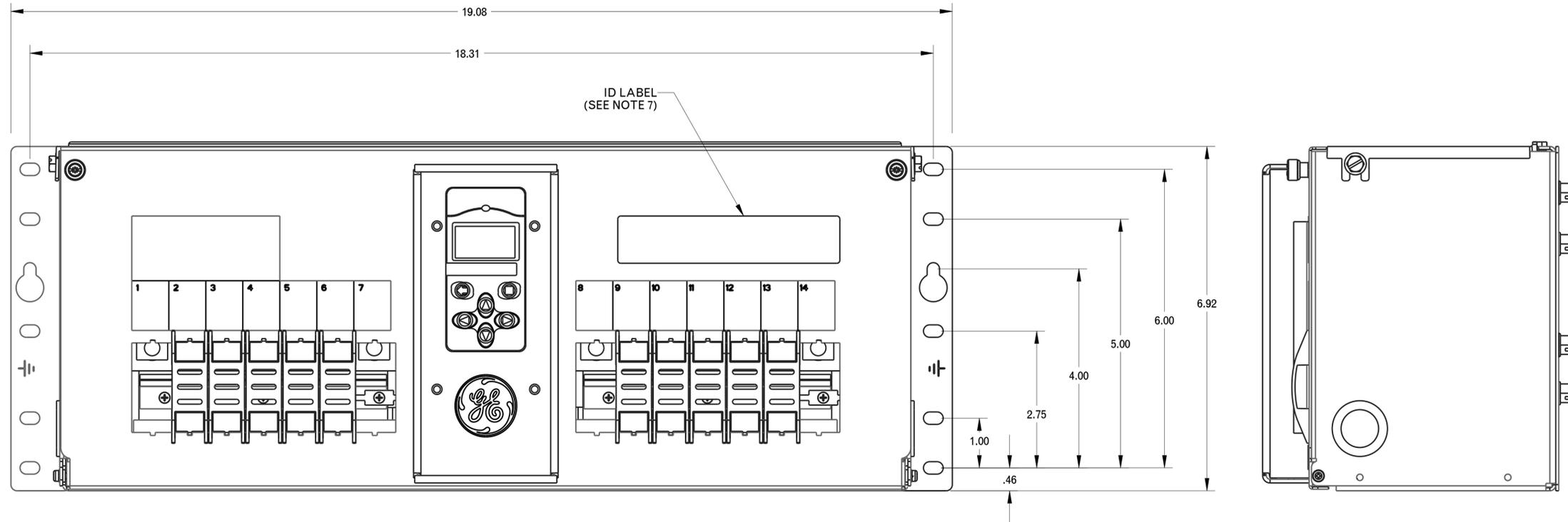
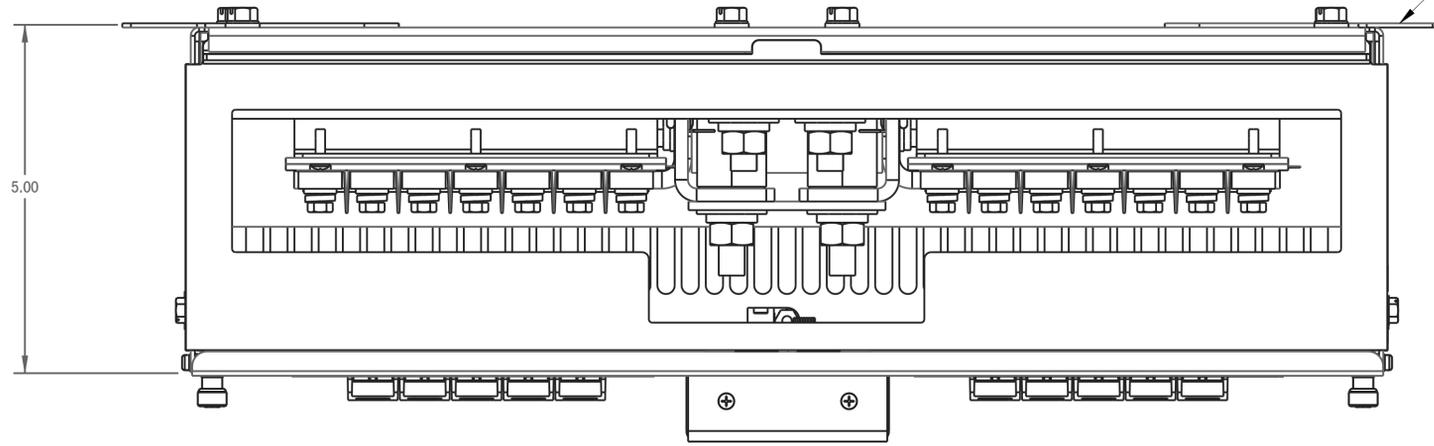
SCALE 0.750

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| THIRD ANGLE PROJECTION | | |
| | | |
| TITLE / DESCRIPTION ED83368-30 ASSEMBLY DRAWING | | |
| SIZE B | PART NUMBER ED83368-30 | REV. 34 |
| SHEET B4 | | |

0 1 2 3 4 5 6 7 8 9

MOUNTING BRACKETS ARE ADJUSTABLE FOR EITHER 19" OR 23" WIDE FRAMEWORKS.



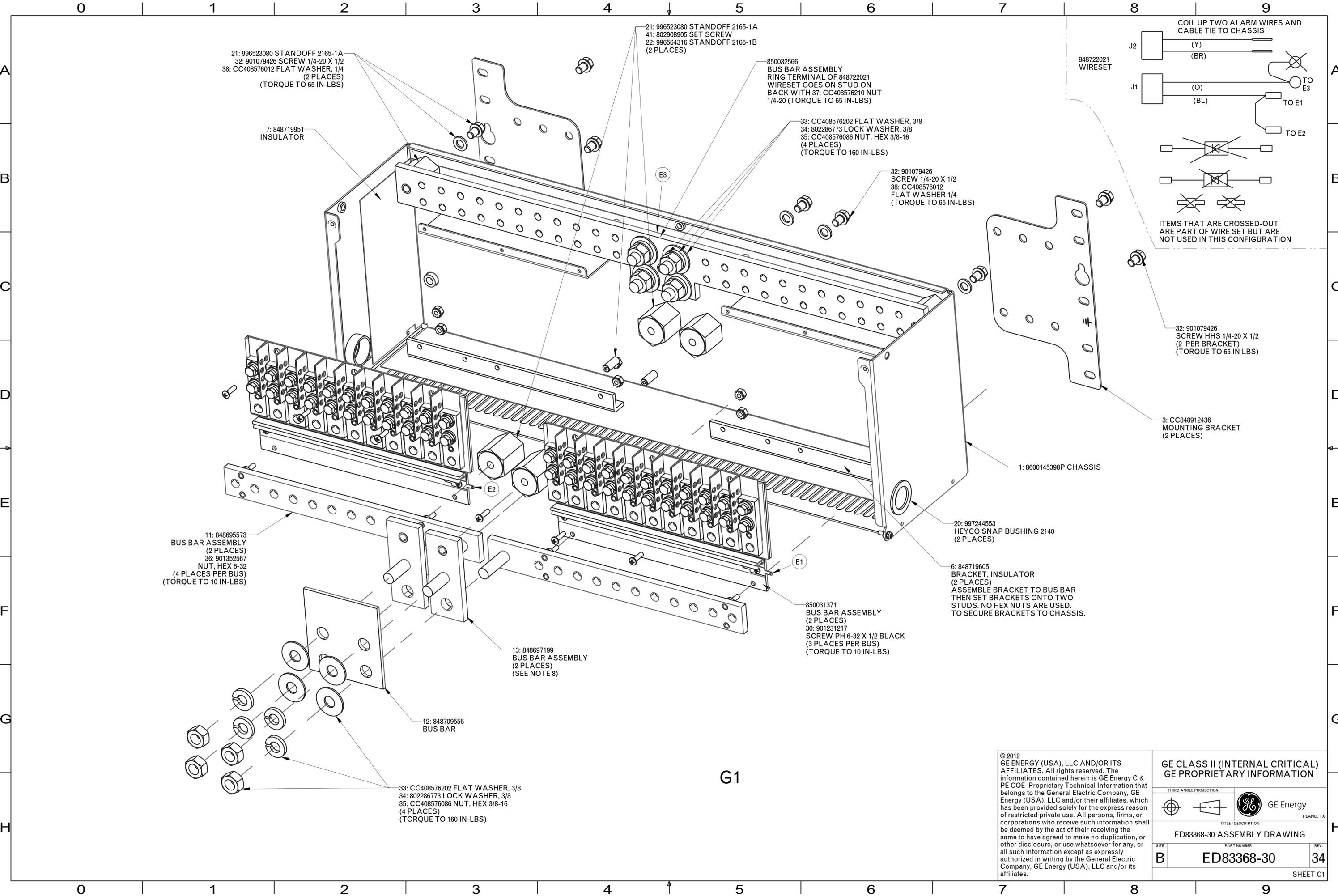
G8
G8 IS THE SAME AS G4
EXCEPT ONLY ONE LOAD SHUNT

SCALE 0.750

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GE CLASS II (INTERNAL CRITICAL) GE PROPRIETARY INFORMATION

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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 B6 | | | |



G1

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| GE CLASS II (INTERNAL CRITICAL) GE PROPRIETARY INFORMATION | | |
| THIRD ANGLE PROJECTION | | |
| | | GE Energy <small>PLANO, TX</small> |
| TITLE / DESCRIPTION ED83368-30 ASSEMBLY DRAWING | | |
| SIZE B | PART NUMBER ED83368-30 | REV. 34 |
| SHEET C1 | | |

0 1 2 3 4 5 6 7 8 9

A B C D E F G H

A B C D E F G H

8600148137P
FRONT DOOR

43: 900127630
NUT, NYLON .164-32
(2 PLACES)

850033962 LEXAN COVER
(3) CC408578578 SCREW 10-32
(TORQUE TO 30 IN-LBS)

46: 847466828 LABEL
CUT LABEL INTO 3 PIECES
REMOVING BLACK AREA
BETWEEN POS 11 & 12
1-11 ON LEFT
12-22 ON RIGHT
"ALARM" UNDER THE LED
(SEE SHEET B1)
IF USING CIRCUIT MODULE 477B,
PUT "-48V ALARM" UNDER LED.
(SEE NOTE 9)

118: CC848820548
INSULATOR/LABEL

122: 150025630
477D CIRCUIT MODULE
36: 901352567
NUT, HEX 6-32
(2 PLACES)
(TORQUE TO 10 IN LBS)

45: 847345543 LABEL
LOCATE APPROX WHERE SHOWN
(SEE SHEET B1 & NOTE 7)

(22) 8600154637P
BREAKER COVER

40: 402105357
CABLE TIE CLAMP
19: 402244081
CABLE TIE
901352567
NUT

(2) CC408572481
SCREW M3-.5

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

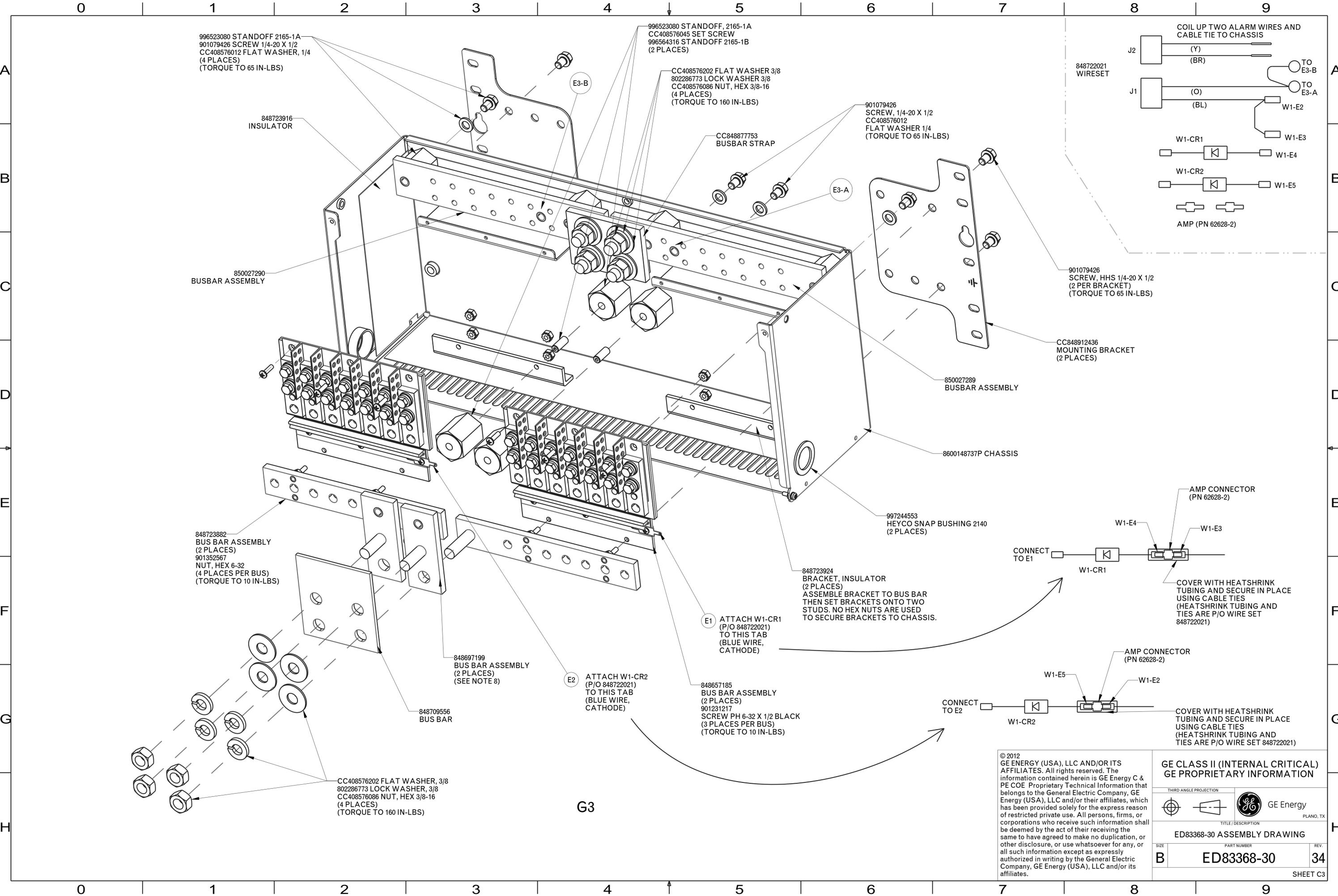
G1

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GE CLASS II (INTERNAL CRITICAL)
GE PROPRIETARY INFORMATION

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|-----------------------------|-------------|---|--|
| THIRD ANGLE PROJECTION | |  GE Energy <small>PLANO, TX</small> | |
| TITLE/DESCRIPTION | | | |
| ED83368-30 ASSEMBLY DRAWING | | | |
| SIZE | PART NUMBER | REV. | |
| B | ED83368-30 | 34 | |
| SHEET C2 | | | |

0 1 2 3 4 5 6 7 8 9



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)

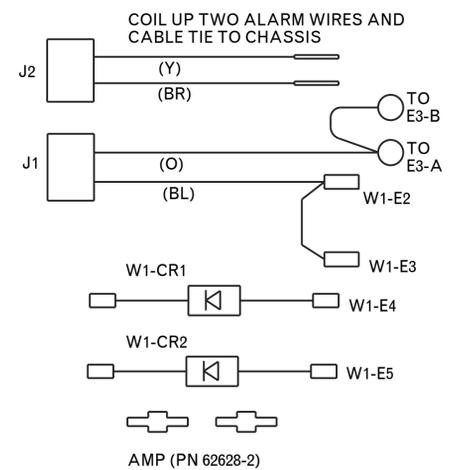
CC408576202 FLAT WASHER 3/8
 802286773 LOCK WASHER 3/8
 CC408576086 NUT, HEX 3/8-16
 (4 PLACES)
 (TORQUE TO 160 IN-LBS)

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

848723916 INSULATOR

CC84887753 BUSBAR STRAP

848722021 WIRESET



850027290 BUSBAR ASSEMBLY

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

CC848912436 MOUNTING BRACKET
 (2 PLACES)

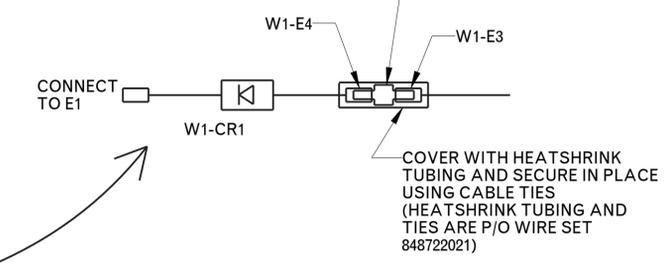
850027289 BUSBAR ASSEMBLY

8600148737P CHASSIS

997244553 HEYCO SNAP BUSHING 2140
 (2 PLACES)

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

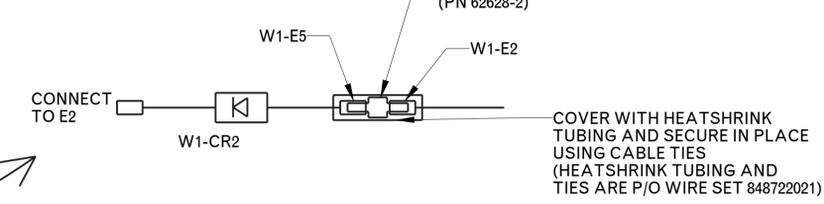
AMP CONNECTOR
 (PN 62628-2)



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

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.

AMP CONNECTOR
 (PN 62628-2)

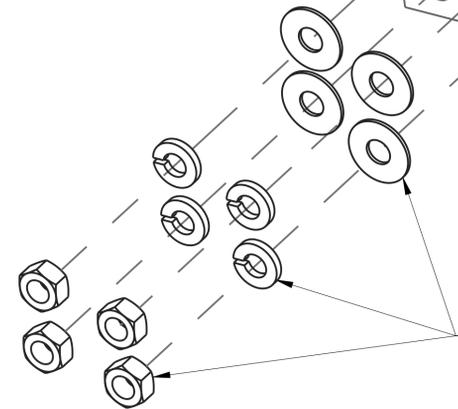


E2 ATTACH W1-CR2
 (P/O 848722021)
 TO THIS TAB
 (BLUE WIRE, CATHODE)

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

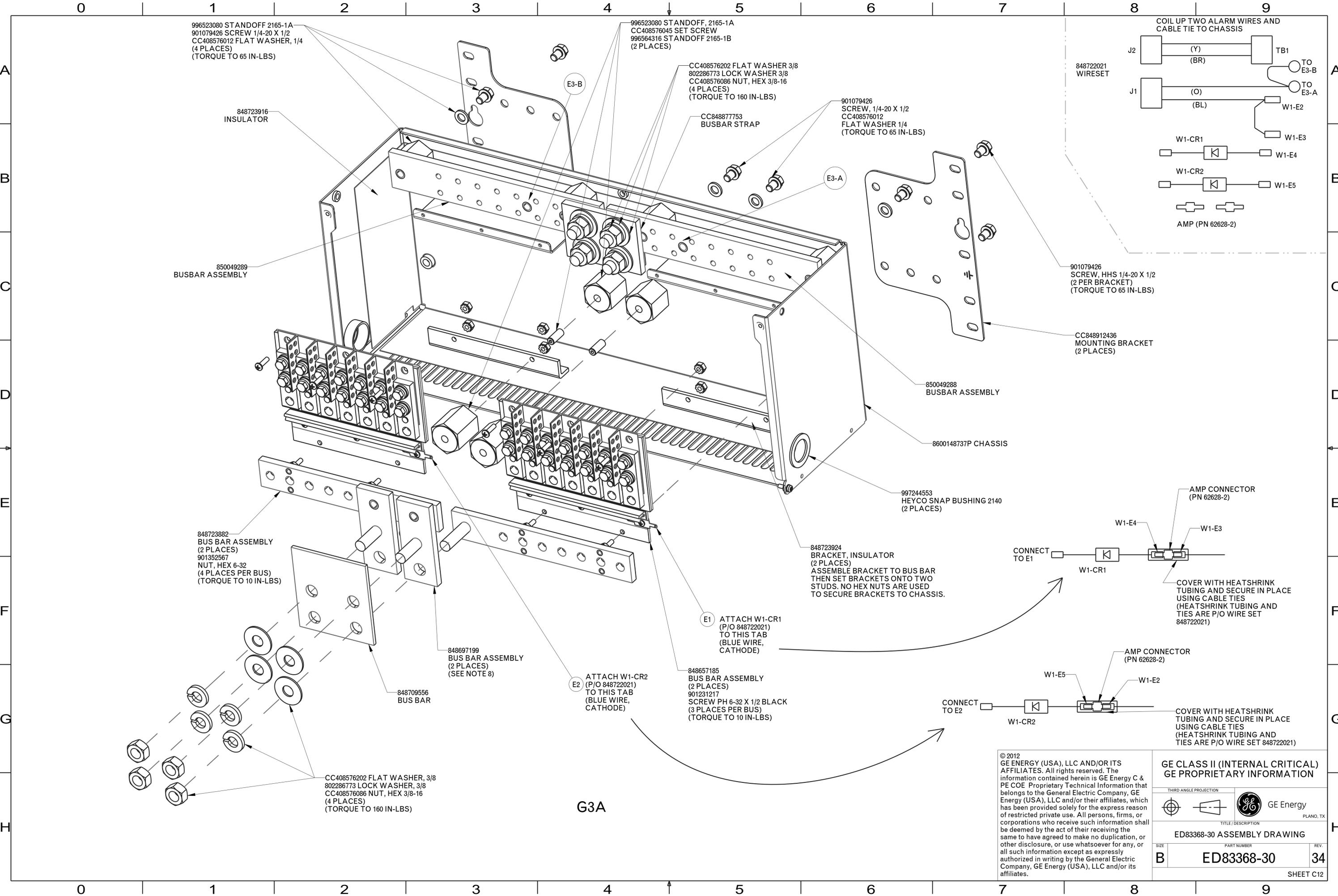


CC408576202 FLAT WASHER, 3/8
 802286773 LOCK WASHER, 3/8
 CC408576086 NUT, HEX 3/8-16
 (4 PLACES)
 (TORQUE TO 160 IN-LBS)

G3

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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 | | |



G3A

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| THIRD ANGLE PROJECTION | | |
| | | GE Energy PLANO, TX |
| TITLE / DESCRIPTION ED83368-30 ASSEMBLY DRAWING | | |
| SIZE B | PART NUMBER ED83368-30 | REV. 34 |
| SHEET C12 | | |

0 1 2 3 4 5 6 7 8 9

A B C D E F G H

A B C D E F G H

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)

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

8600148739P
FRONT DOOR

402105357
CABLE TIE CLAMP
402244081
CABLE TIE
901352567
NUT

(14) 8600154637P
BREAKER COVER

(2) CC408572481
SCREW M3-5

G3

SHIPPING NOTE:
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MANUAL, 850027449, PACKED WITH THE SYSTEM

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GE CLASS II (INTERNAL CRITICAL)
GE PROPRIETARY INFORMATION

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|-----------------------------|-------------|---|--|
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| TITLE/DESCRIPTION | | | |
| ED83368-30 ASSEMBLY DRAWING | | | |
| SIZE | PART NUMBER | REV. | |
| B | ED83368-30 | 34 | |
| SHEET C4 | | | |

0 1 2 3 4 5 6 7 8 9

0 1 2 3 4 5 6 7 8 9

A B C D E F G H

A B C D E F G H

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

118: CC848820548
INSULATOR/LABEL

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

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

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)

122: 150025630
477D CIRCUIT MODULE
901352567
NUT, HEX 6-32
(2 PLACES)
(TORQUE TO 10 IN-LBS)

450049327
TB1
TERMINAL
BLOCK

8600148739P
FRONT DOOR

(14) 8600154637P
BREAKER COVER

402105357
CABLE TIE CLAMP
402244081
CABLE TIE
901352567
NUT

(2) CC408572481
SCREW M3-.5

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

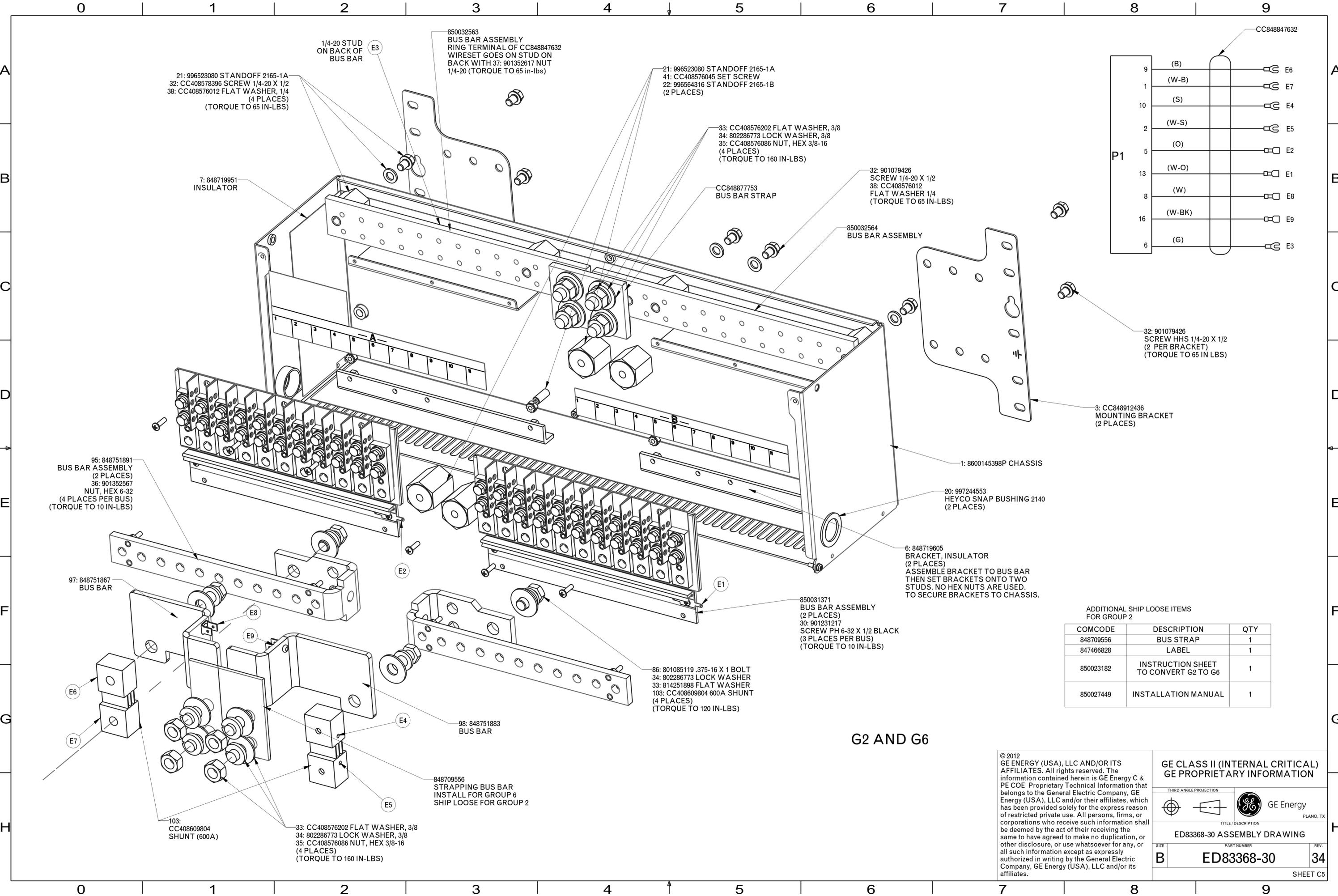
G3A

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| TITLE/DESCRIPTION | | | |
| ED83368-30 ASSEMBLY DRAWING | | | |
| SIZE | PART NUMBER | REV. | |
| B | ED83368-30 | 34 | |
| SHEET 13 OF 21 | | | |

0 1 2 3 4 5 6 7 8 9



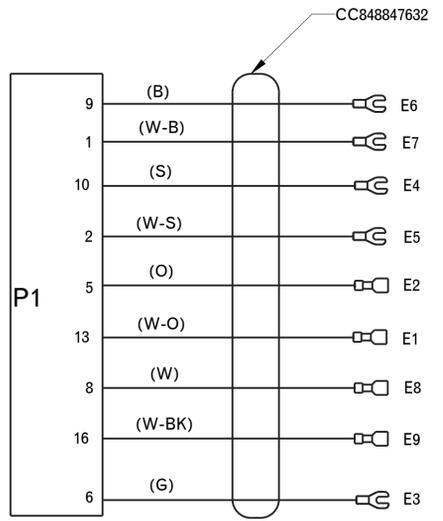
21: 996523080 STANDOFF 2165-1A
 32: CC408578396 SCREW 1/4-20 X 1/2
 38: CC408576012 FLAT WASHER, 1/4
 (4 PLACES)
 (TORQUE TO 65 IN-LBS)

850032563
 BUS BAR ASSEMBLY
 RING TERMINAL OF CC848847632
 WIRESET GOES ON STUD ON
 BACK WITH 37: 901352617 NUT
 1/4-20 (TORQUE TO 65 in-lbs)

21: 996523080 STANDOFF 2165-1A
 41: CC408576045 SET SCREW
 22: 996564316 STANDOFF 2165-1B
 (2 PLACES)

33: CC408576202 FLAT WASHER, 3/8
 34: 802286773 LOCK WASHER, 3/8
 35: CC408576086 NUT, HEX 3/8-16
 (4 PLACES)
 (TORQUE TO 160 IN-LBS)

32: 901079426
 SCREW 1/4-20 X 1/2
 38: CC408576012
 FLAT WASHER 1/4
 (TORQUE TO 65 IN-LBS)



7: 848719951
 INSULATOR

CC848877753
 BUS BAR STRAP

850032564
 BUS BAR ASSEMBLY

32: 901079426
 SCREW HHS 1/4-20 X 1/2
 (2 PER BRACKET)
 (TORQUE TO 65 IN LBS)

3: CC848912436
 MOUNTING BRACKET
 (2 PLACES)

1: 8600145398P CHASSIS

20: 997244553
 HEYCO SNAP BUSHING 2140
 (2 PLACES)

6: 848719605
 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.

95: 848751891
 BUS BAR ASSEMBLY
 (2 PLACES)
 36: 901352567
 NUT, HEX 6-32
 (4 PLACES PER BUS)
 (TORQUE TO 10 IN-LBS)

850031371
 BUS BAR ASSEMBLY
 (2 PLACES)
 30: 901231217
 SCREW PH 6-32 X 1/2 BLACK
 (3 PLACES PER BUS)
 (TORQUE TO 10 IN-LBS)

86: 801085119 .375-16 X 1 BOLT
 34: 802286773 LOCK WASHER
 33: 814251898 FLAT WASHER
 103: CC408609804 600A SHUNT
 (4 PLACES)
 (TORQUE TO 120 IN-LBS)

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

103: CC408609804
 SHUNT (600A)

33: CC408576202 FLAT WASHER, 3/8
 34: 802286773 LOCK WASHER, 3/8
 35: CC408576086 NUT, HEX 3/8-16
 (4 PLACES)
 (TORQUE TO 160 IN-LBS)

848709556
 STRAPPING BUS BAR
 INSTALL FOR GROUP 6
 SHIP LOOSE FOR GROUP 2

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GE CLASS II (INTERNAL CRITICAL)
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THIRD ANGLE PROJECTION

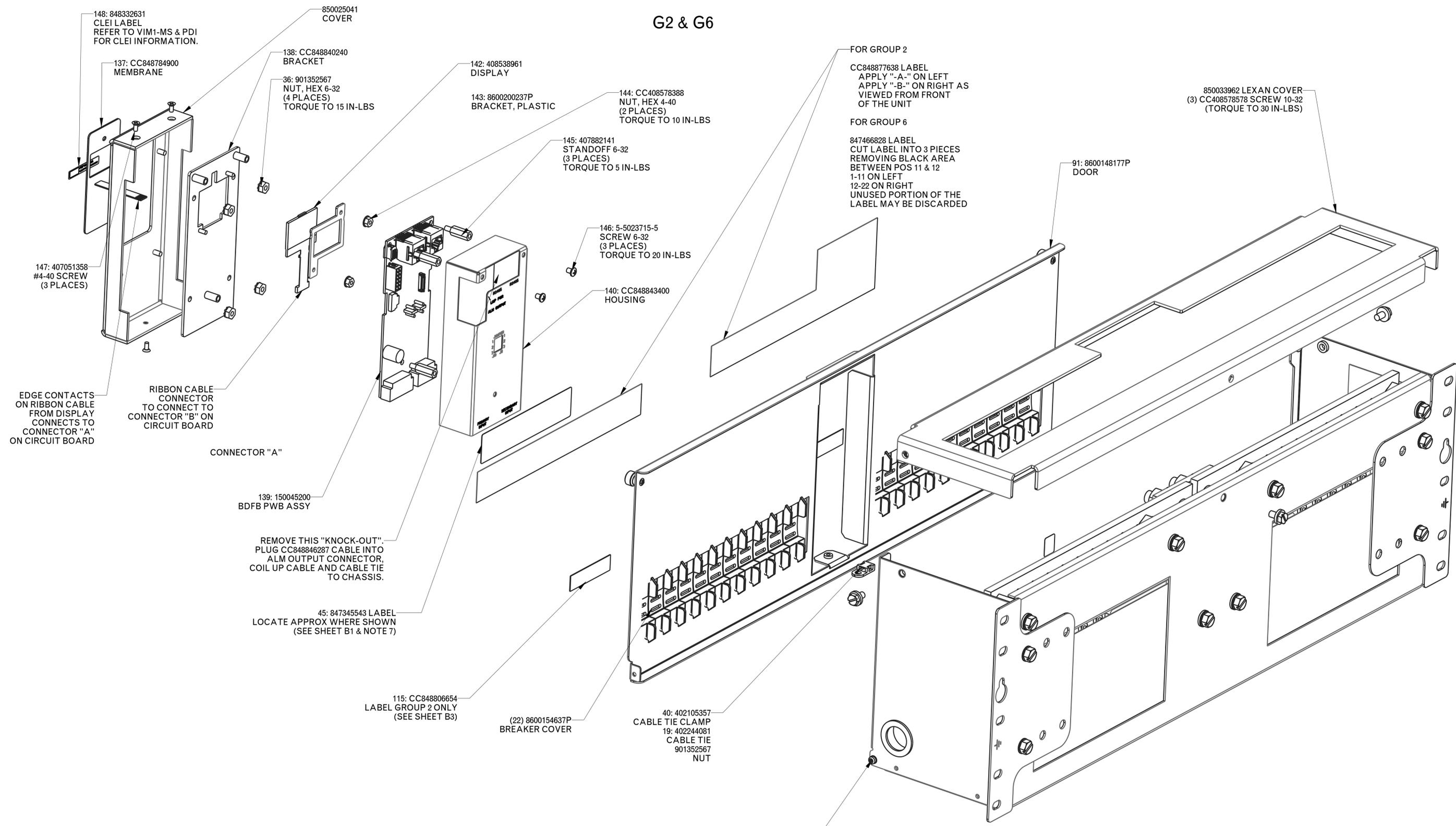
GE Energy
 PLANO, TX

TITLE/DESCRIPTION
 ED83368-30 ASSEMBLY DRAWING

SIZE: B PART NUMBER: ED83368-30 REV: 34 SHEET C5

0 1 2 3 4 5 6 7 8 9

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

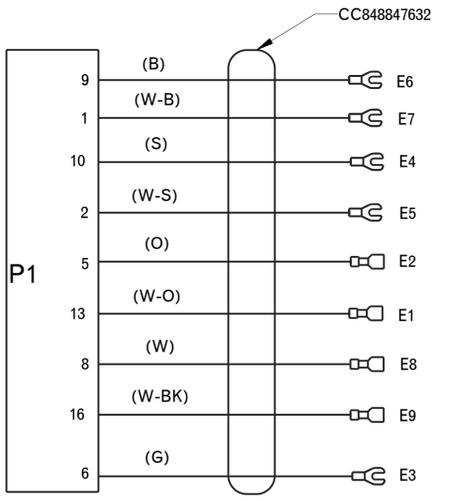
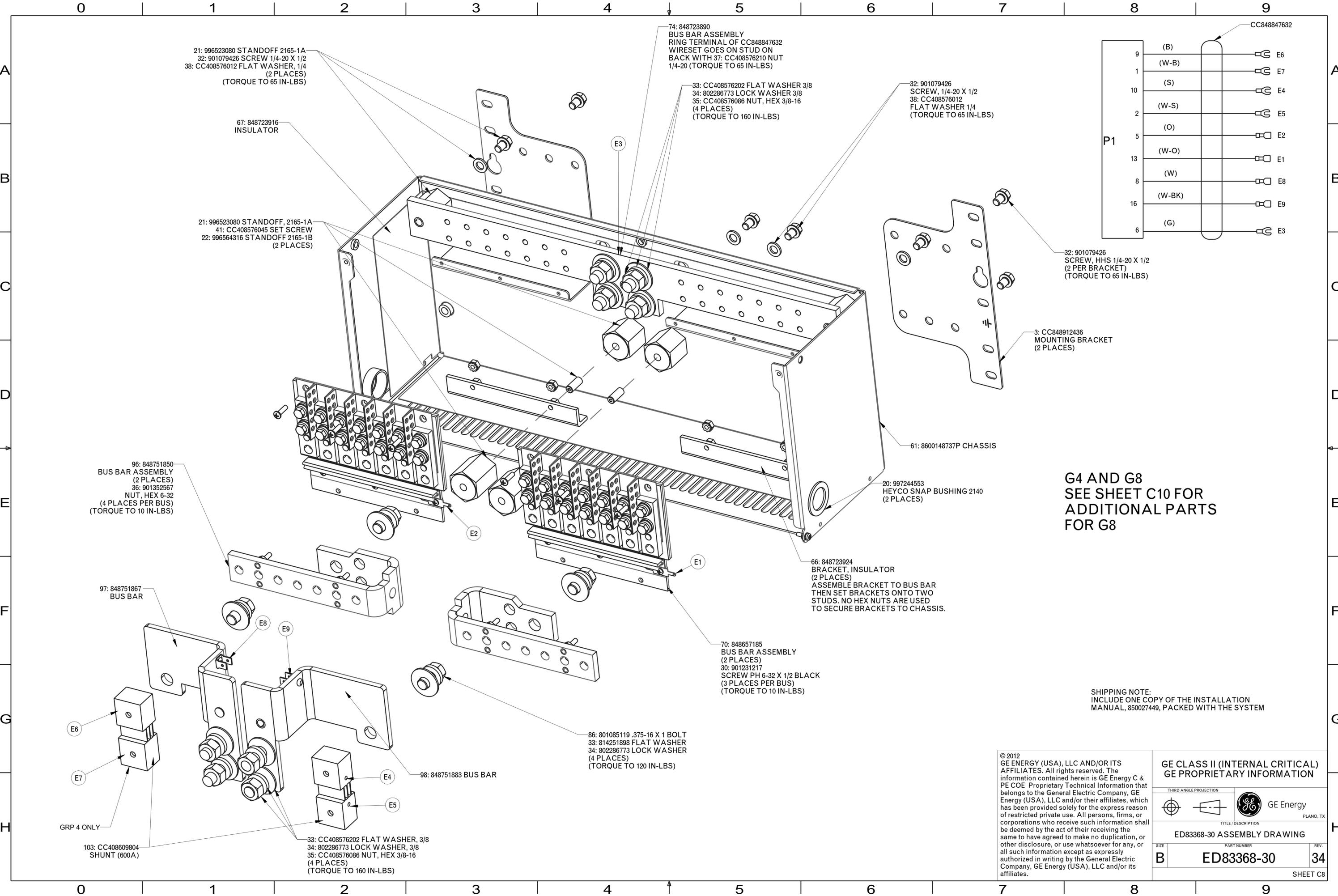
SIZE
B

PART NUMBER
ED83368-30

REV.
34

SHEET C6

0 1 2 3 4 5 6 7 8 9



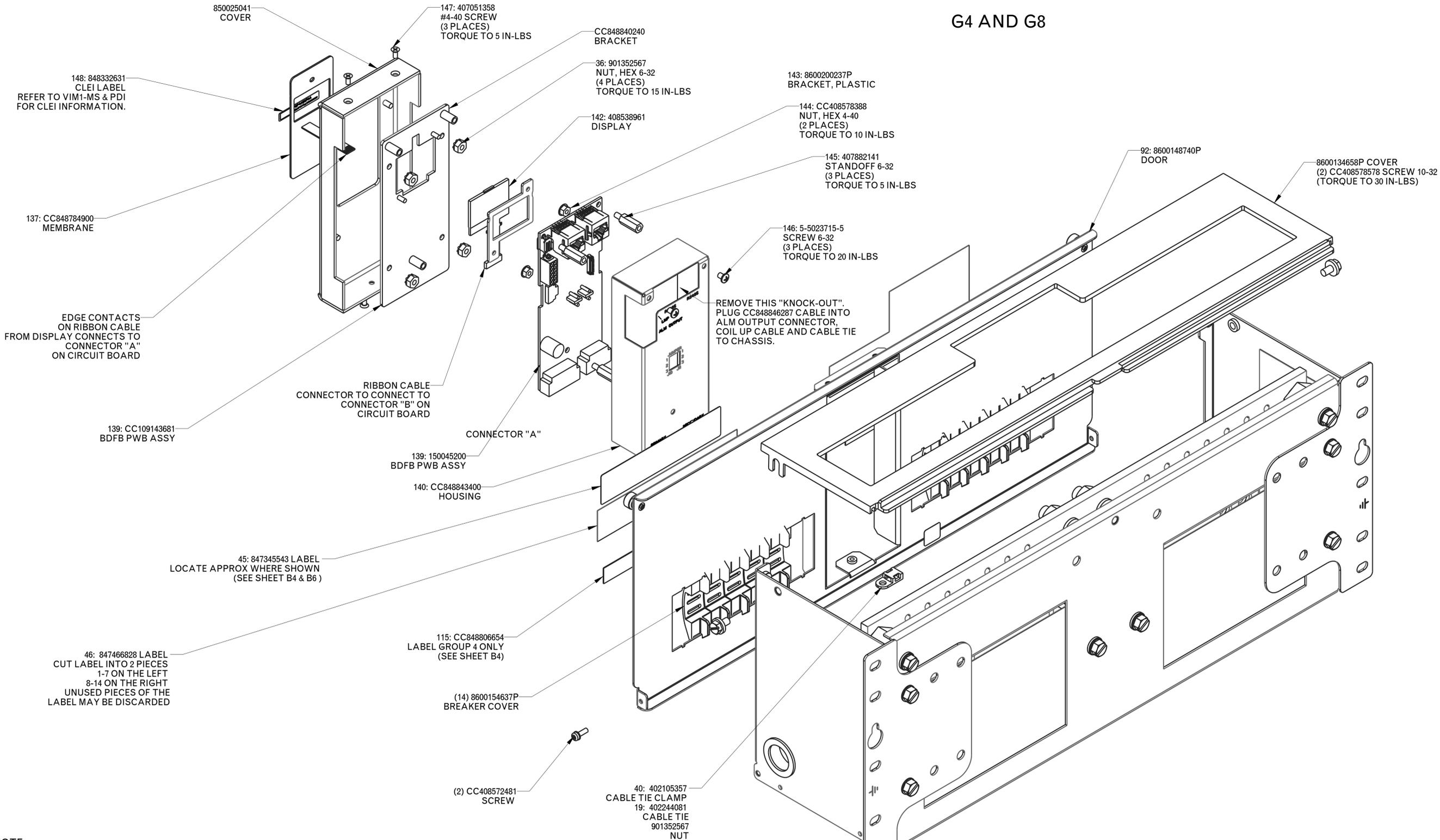
G4 AND G8
SEE SHEET C10 FOR
ADDITIONAL PARTS
FOR G8

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

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

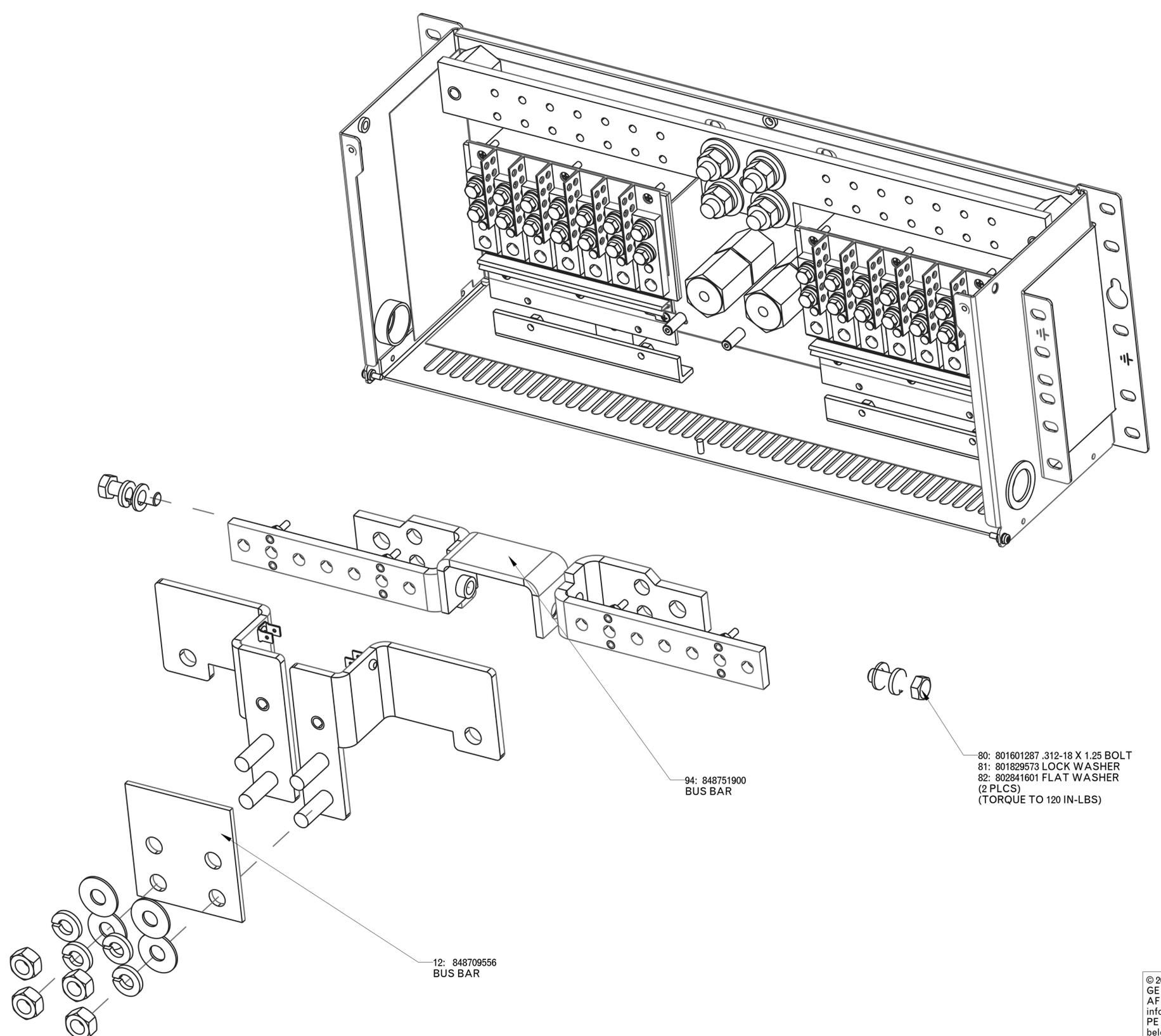
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| | | GE Energy PLANO, TX |
| TITLE / DESCRIPTION ED83368-30 ASSEMBLY DRAWING | | |
| SIZE B | PART NUMBER ED83368-30 | REV. 34 |
| SHEET C9 | | |

SCALE 0.750

0 1 2 3 4 5 6 7 8 9

A B C D E F G H



12: 848709556
BUS BAR

94: 848751900
BUS BAR

80: 801601287 .312-18 X 1.25 BOLT
81: 801829573 LOCK WASHER
82: 802841601 FLAT WASHER
(2 PLCS)
(TORQUE TO 120 IN-LBS)

G8
SEE SHEET C7 FOR MORE
INFORMATION

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| THIRD ANGLE PROJECTION | | |
| | | |
| TITLE / DESCRIPTION ED83368-30 ASSEMBLY DRAWING | | |
| SIZE B | PART NUMBER ED83368-30 | REV. 34 |
| SHEET C10 | | |

0 1 2 3 4 5 6 7 8 9

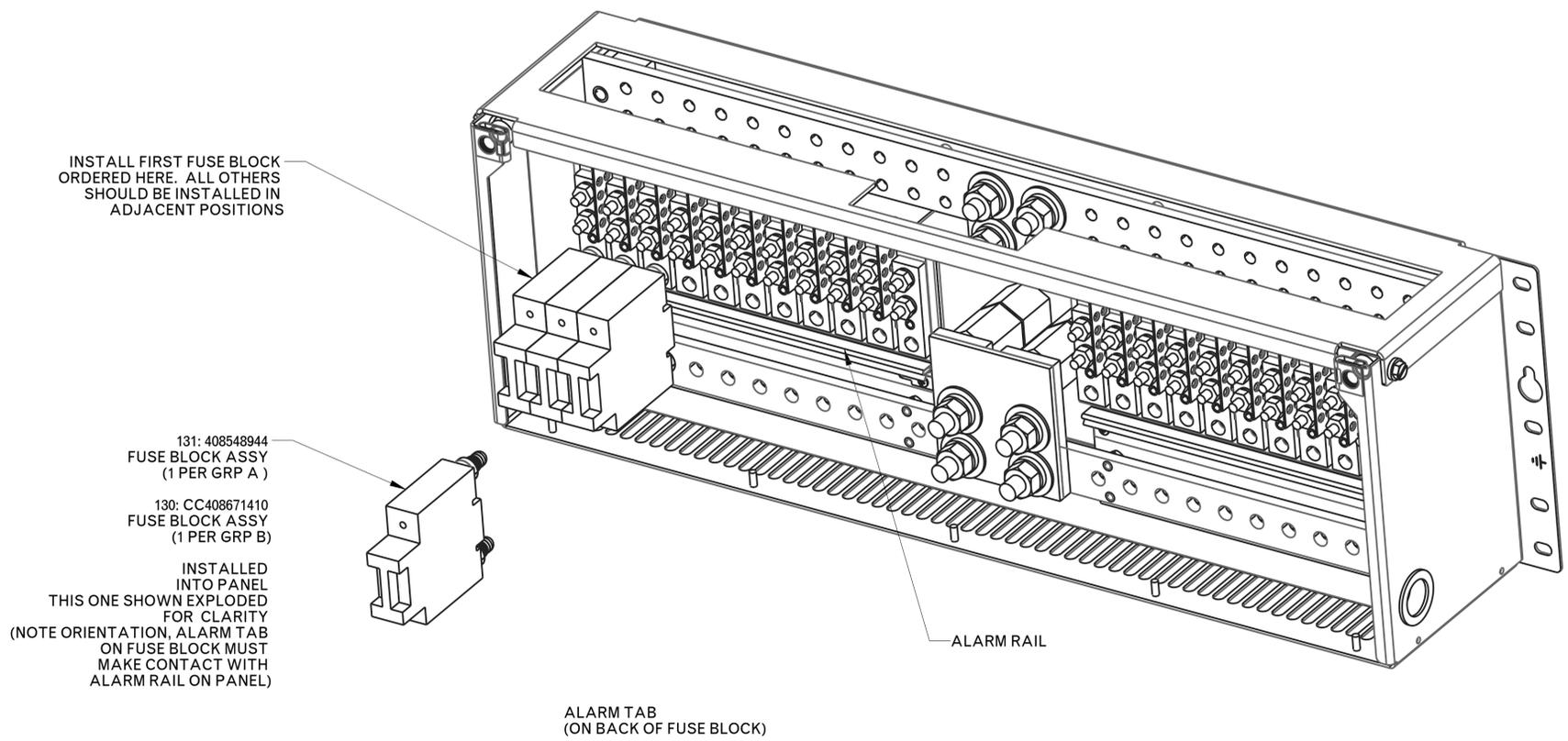
0 1 2 3 4 5 6 7 8 9

A
B
C
D
E
F
G
H

A
B
C
D
E
F
G
H

TYPICAL GROUP A OR B INSTALLATION

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



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

0 1 2 3 4 5 6 7 8 9

0 1 2 3 4 5 6 7 8 9

A B C D E F G H

A B C D E F G H

REMOVE AND DISCARD
CC848912436 STANDARD BRACKETS

ADD 848751875 BRACKETS
EITHER AS SHOWN
OR REVERSED

ALTERNATIVE BRACKETS
TO STAGGER PANELS
(SEE NOTE 65)

848631479 ADAPTER BUS
(SEE NOTE 55)

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

SCALE 0.750

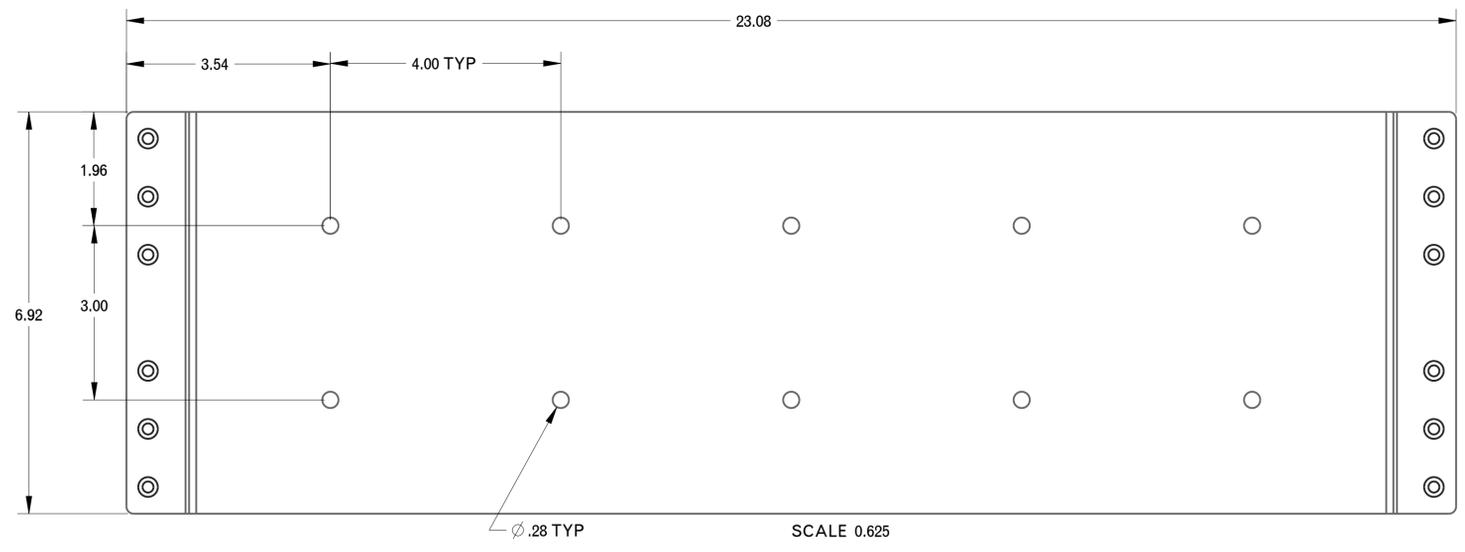
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| TITLE / DESCRIPTION ED83368-30 ASSEMBLY DRAWING | | |
| SIZE B | PART NUMBER ED83368-30 | REV. 34 |
| SHEET F1 | | |

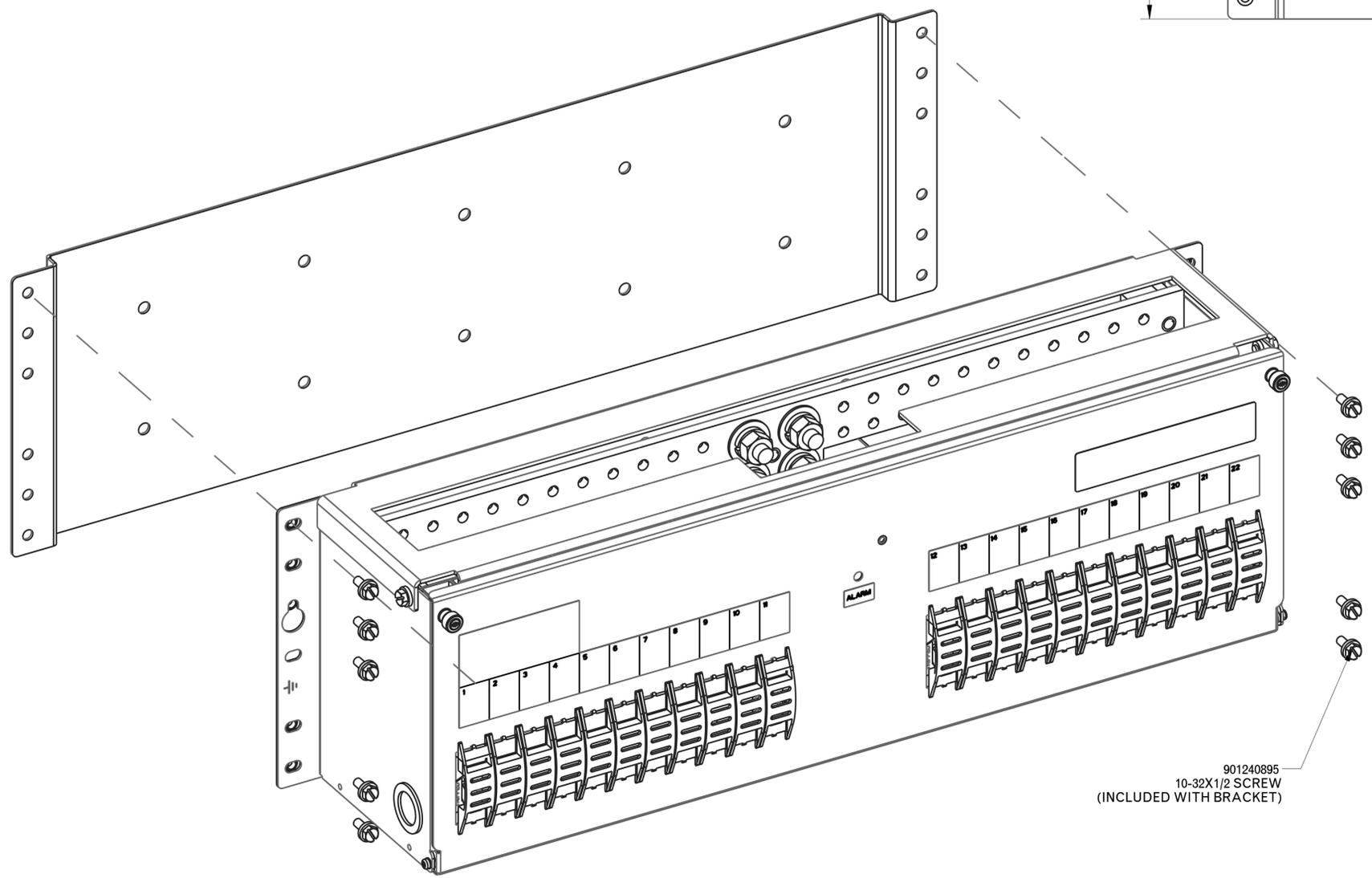
0 1 2 3 4 5 6 7 8 9

0 1 2 3 4 5 6 7 8 9

A B C D E F G H



BRACKET HOLE PATTERN



901240895
10-32X1/2 SCREW
(INCLUDED WITH BRACKET)

**CC848786401 BRACKET
FOR WALL-MOUNTING PANELS**

(SEE NOTE 66)

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

0 1 2 3 4 5 6 7 8 9