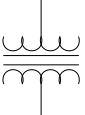





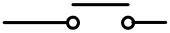
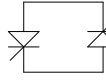




GALAXY VM 1 module 180 kVA UPS with Output Transformer Cabinet

Sheet No.	Component /Detail	Description
1	Drawing Guide	Galaxy VM 1 Module 180 kVA UPS with Output Transformer-Drawing Guide
2	Solution Isometric	Galaxy VM 1 Module 180 kVA UPS with Output Transformer-Solution Isometric
3-5	Solution General Arrangement	Galaxy VM 1 Module 180 kVA UPS with Output Transformer-Solution General Arrangement
6	Solution Anchoring Details	Galaxy VM 1 Module 180 kVA UPS with Output Transformer-Solution Anchoring Details
7-11	UPS Internal view s & Details	Galaxy VM 1 Module 180 kVA UPS with Output Transformer-UPS Internal View & Details
12-13	Transformer Cabinet Internal View s & Details	Galaxy VM 1 Module 180 kVA UPS with Output Transformer-Transformer cabinet Internal view & Details
14-16	System One Line Diagram	Galaxy VM 1 Module 180 kVA UPS with Output Transformer-System One Line Diagram

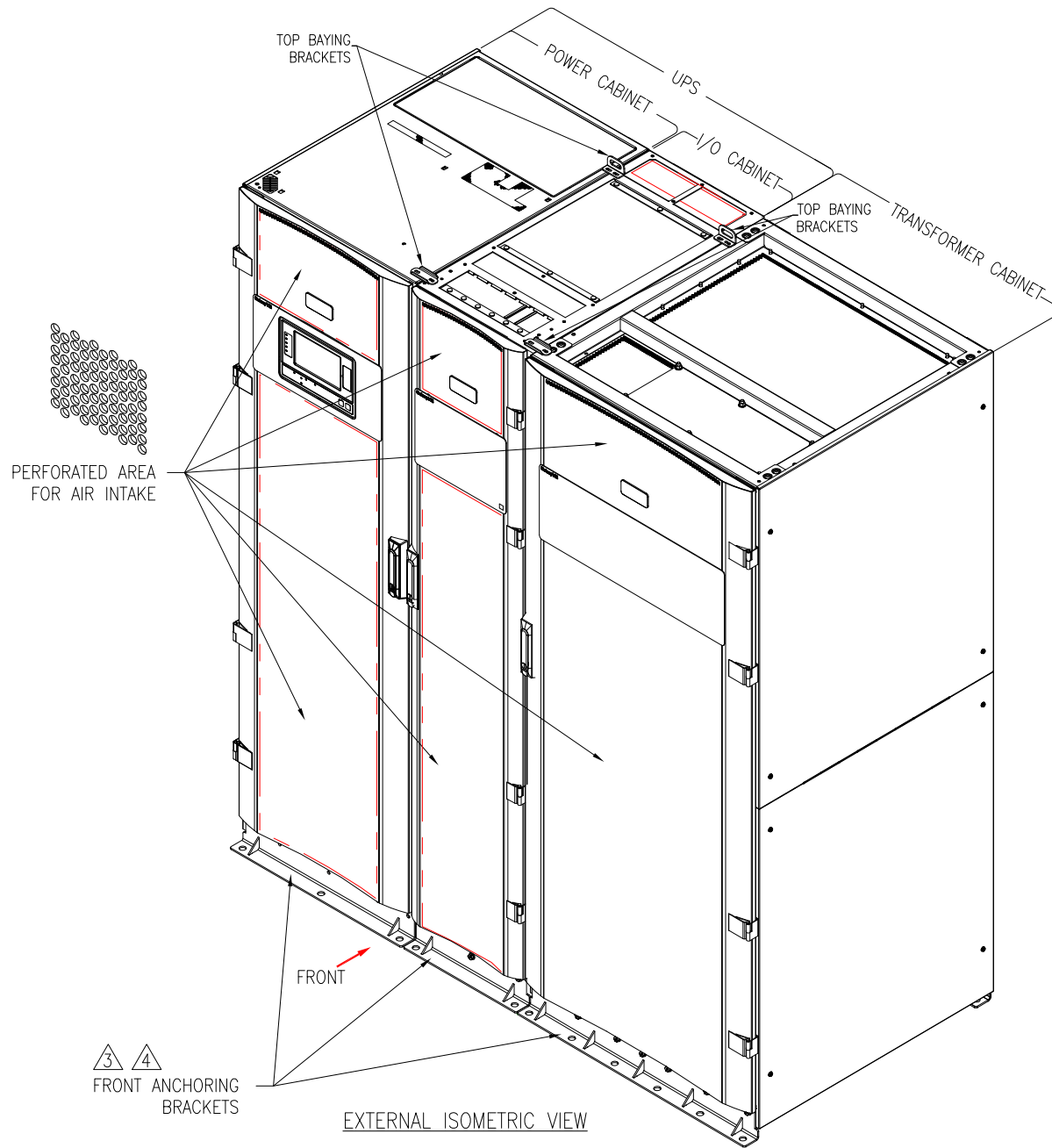
LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TRANSFORMER		CONVERTER
	CIRCUIT BREAKER		INVERTER
	BUSBAR LINK		DC-DC CONVERTER
	NORMALLY OPEN CONTACT		BYPASS SSW
	EARTH		TERMINATION POINT

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TITLE: Galaxy VM
 Input: 480V AC 3PH
 Output: 208V AC 3PH 180KVA
 1 MODULE UPS WITH TRANSFORMER CABINET
 DRAWING GUIDE
 PROJECT: DRAWINGS SHEET 1 OF 16

DWG NO:	GVMS180KGF65S	REV.	0
DRAWN BY:	K.NAGENDRA	20-AUG-15	ANGLE
ENGINEER:	C.ANDERSEN/Y DU	20-AUG-15	PROJECTION
APPROVED BY:	M.PAULSEN	20-AUG-15	N.A



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- △3. IN AREAS WHERE SEISMIC PROTECTION IS REQUIRED, FOLLOW THE INSTRUCTIONS IN GVM65KANCHORING-SA DRAWING.
- △4. FOR INSTALLATION ON RAISED FLOOR, FOLLOW THE INSTRUCTIONS IN GVM65KANCHORING-RF DRAWING

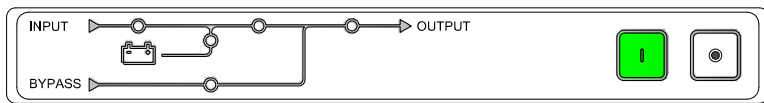
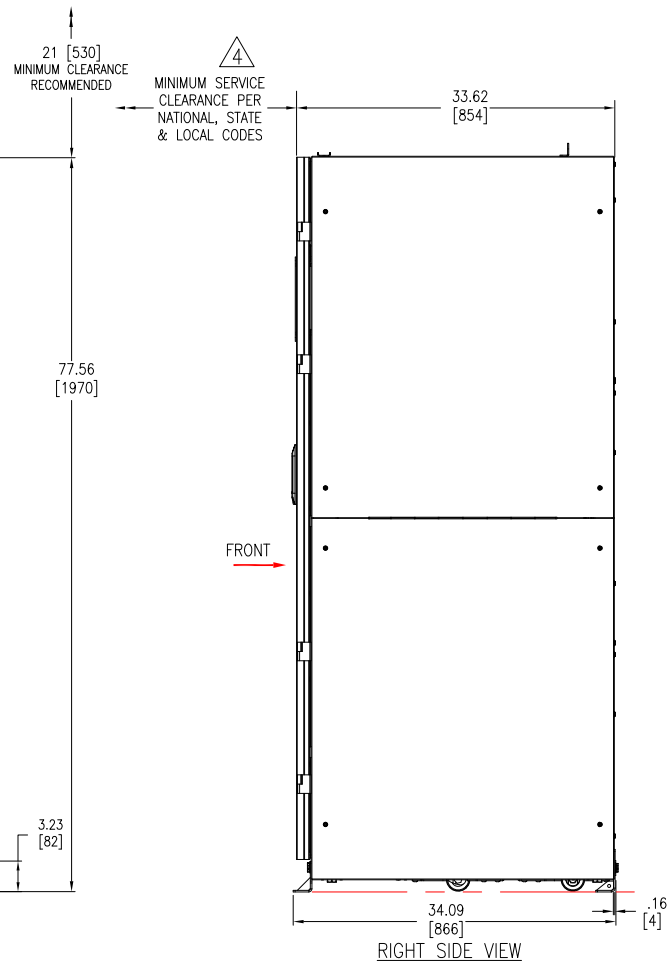
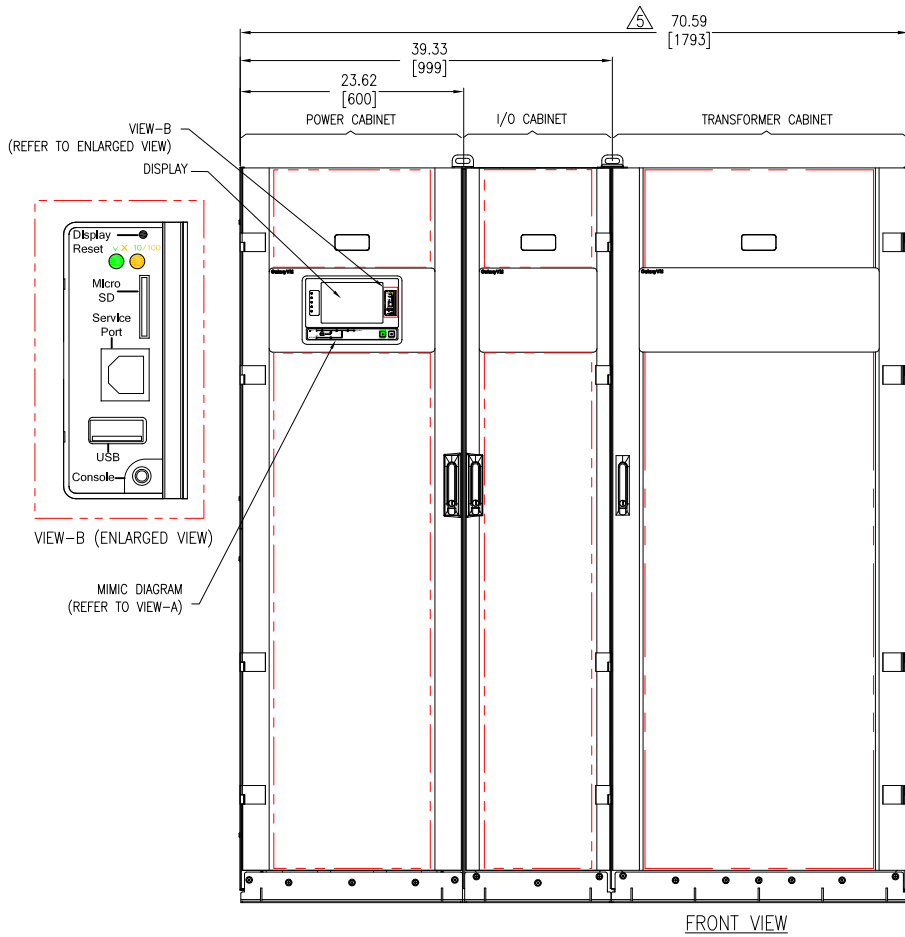
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TITLE: Galaxy VM
 Input: 480V AC 3PH
 Output: 208V AC 3PH 180KVA
 1 MODULE UPS WITH TRANSFORMER CABINET
 SOLUTION-ISOMETRIC VIEW

PROJECT: DRAWINGS **SHEET 2 OF 16**

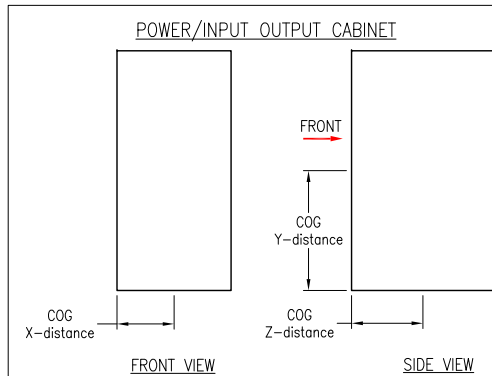
DWG NO: GVM5180KGF65S	REV. 0
DRAWN BY: K.NAGENDRA	20-AUG-15
ENGINEER: C.ANDERSEN/Y DU	20-AUG-15
APPROVED BY: M PAULSEN	20-AUG-15
	THIRD ANGLE PROJECTION



VIEW-A (MIMIC DIAGRAM)

Floor Loading Data			
SKU #	Dimensions HxWxD in Inches [mm]	Weight in lb [kg]	Floor Loading in lb/ft ² [kg/m ²]
0G-GVMPB160K180D (Power Cabinet)	77.56x23.62x33.62 [1970x600x854]	1032 [469]	187 [915]
0G-GVMI225KG65K (I/O Cabinet)	77.56x15.83x33.62 [1970x400x854]	463 [210]	126 [615]
GVMSB180KG65S (UPS)	77.56x39.45x33.62 [1970x1002x854]	1495 [679]	162 [793]
GVMTF225KGF	77.56x31.50x33.62 [1970x800x854]	2640 [1200]	359 [1756]

- NOTES:
- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 - REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
 - FRONT ACCESS REQUIRED FOR SERVICE.
 - DIMENSION EXCLUDES SKIN AND SCREW PROJECTIONS.
 - CABLE ENTRY IS FROM TOP OR BOTTOM OF THE UNIT FOR UPS.
FOR TRANSFORMER INPUT FROM LEFT SIDE & OUTPUT IS FROM TOP/BOTTOM.
 - OPERATING TEMPERATURE: 32°F TO 104°F [0°C TO 40°C].
 - PROTECTION CLASS: IP20 (IP32 OPTIONAL).
 - COLOR: RAL 9003 WHITE.
 - THIS INFORMATION PROVIDES APPROXIMATE CENTER OF GRAVITY CALCULATION.
 - DOOR SWING: FREELY ROTATES BY 180°



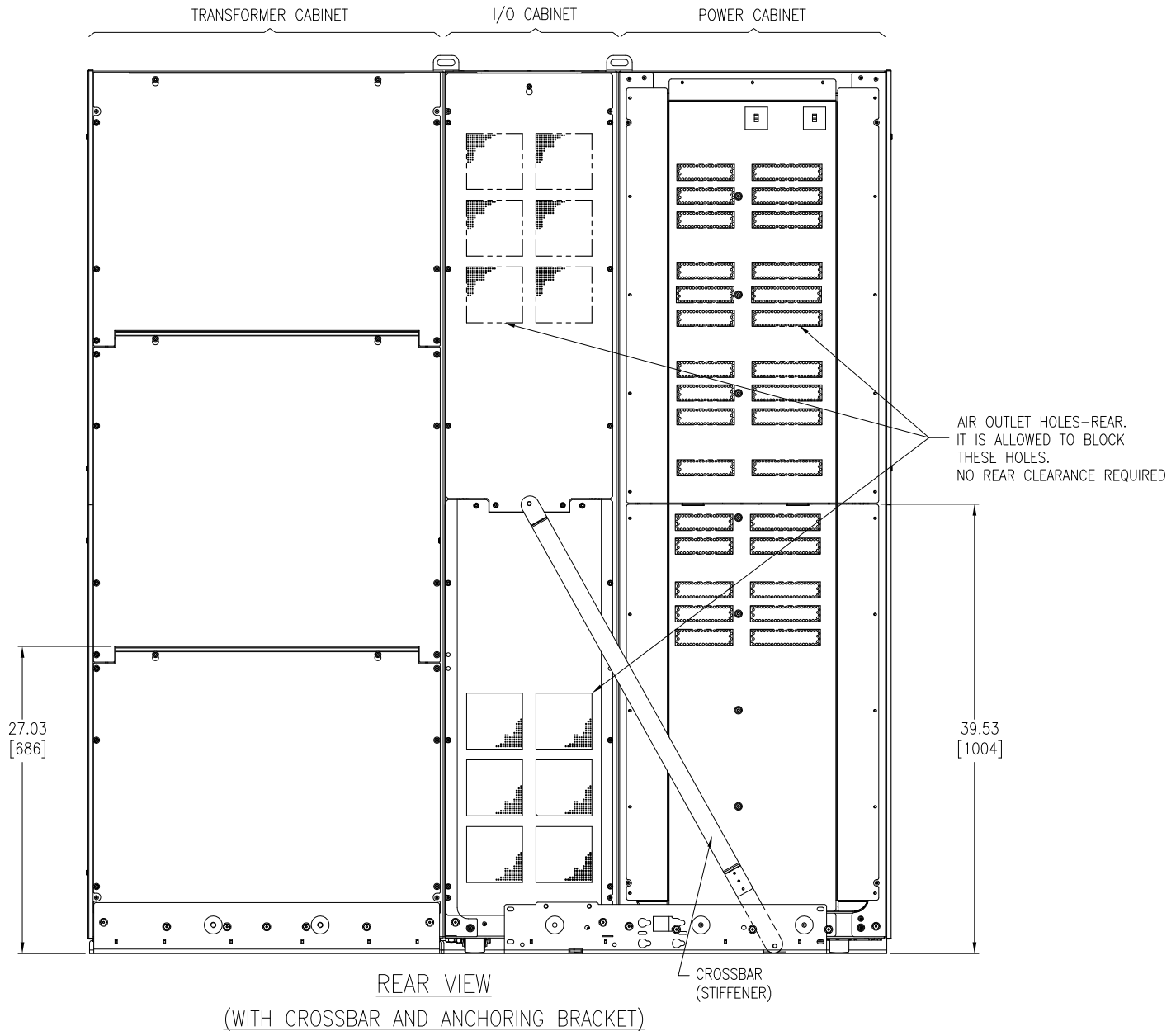
Cabinet	CENTER OF GRAVITY		
	Center of Gravity in Inches [mm]		
	X-Distance	Y-Distance	Z-Distance
Power Cabinet	11.81 [300]	37.40 [950]	14.92 [379]
I/O Cabinet	7.48 [190]	33.46 [850]	9.02 [229]
Transformer Cabinet	15.79 [401]	24.41 [620]	20.87 [530]

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TITLE: Galaxy VM
 Input: 480V AC 3PH
 Output: 208V AC 3PH 180KVA
 1 MODULE UPS WITH TRANSFORMER CABINET
 SOLUTION-GENERAL ARRANGEMENT

DWG NO: GVMS180KGF65S REV. 0
 DRAWN BY: K.NAGENDRA 20-AUG-15 THIRD
 ENGINEER: C.ANDERSEN/Y DU 20-AUG-15 ANGLE
 PROJECT: DRAWINGS SHEET 3 OF 16 APPROVED BY: M.PAULSEN 20-AUG-15 PROJECTION



NOTES:

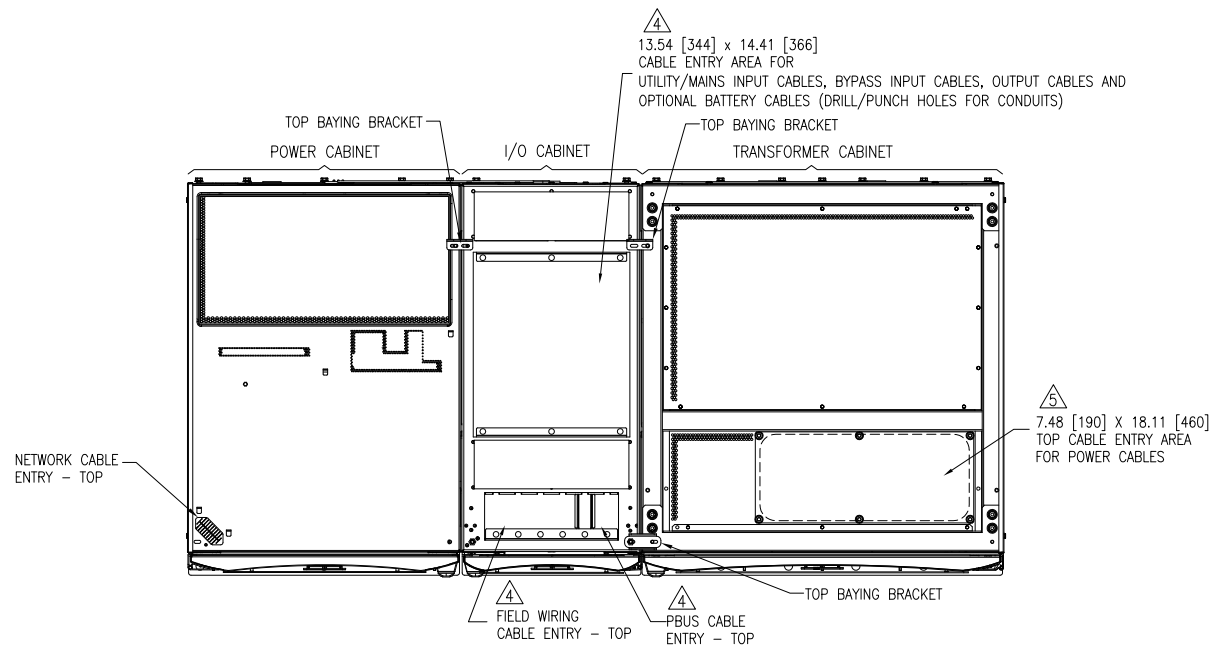
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].

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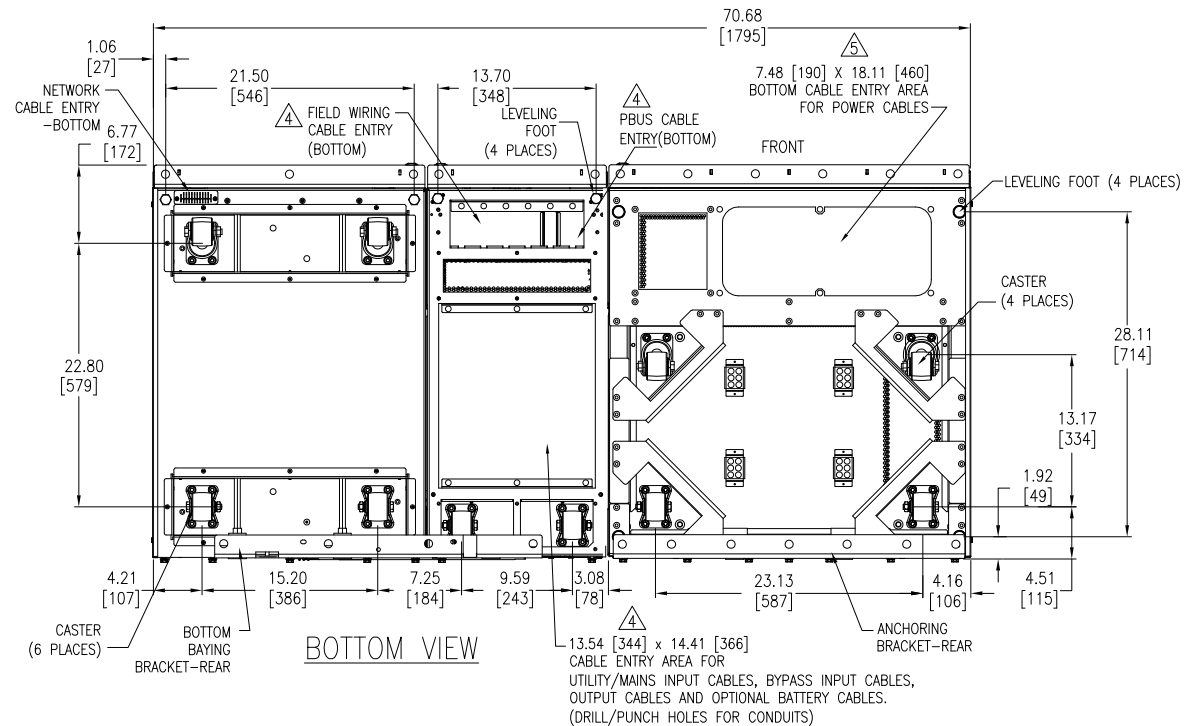


TITLE: Galaxy VM
Input: 480V AC 3PH
Output: 208V AC 3PH 180KVA
1 MODULE UPS WITH TRANSFORMER CABINET SOLUTION-REAR VIEW

DWG NO: GVMS180KGF65S	REV. 0
DRAWN BY: K.NAGENDRA	20-AUG-15
ENGINEER: C.ANDERSEN/Y DU	20-AUG-15
APPROVED BY: M PAULSEN	20-AUG-15
PROJECT: DRAWINGS	SHEET: 4 OF 15
ANGLE:	PROJECTION:



TOP VIEW



BOTTOM VIEW

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].

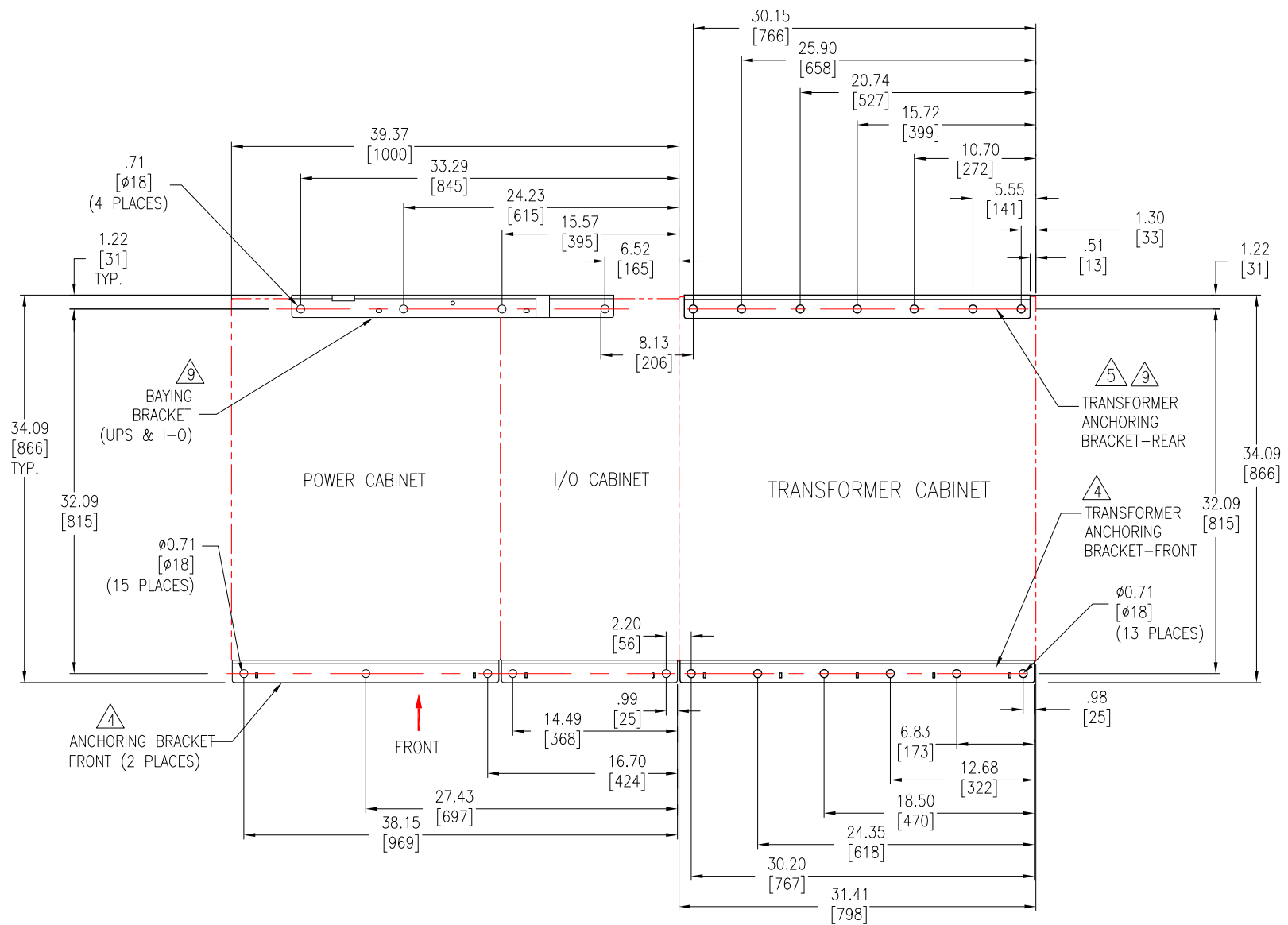
- △ 4. DRILL/PUNCH HOLES IN PLATE. REMOVE PLATE FROM CABINET BEFORE DRILLING/PUNCHING. INPUT POWER/COMMUNICATION CABLE ENTRY IS FROM TOP OR BOTTOM OF THE UNIT WHEN MOUNTED SEPARATELY (NOT BAYED WITH UPS), OTHERWISE IT IS FROM SIDES.
- △ 5. INPUT CABLES ARE FROM SIDE(LEFT). OUTPUT CABLES ARE FROM TOP/BOTTOM OF THE UNIT.

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TITLE: Galaxy VM
 Input: 480V AC 3PH
 Output: 208V AC 3PH 180KVA
 1 MODULE UPS WITH TRANSFORMER CABINET
 SOLUTION-TOP AND BOTTOM VIEWS
 PROJECT: DRAWINGS SHEET 5 OF 16

DWG NO:	GVMS180KGF65S	REV.	0
DRAWN BY:	K.NAGENDRA	20-AUG-15	THIRD
ENGINEER:	C.ANDERSEN/Y DU	20-AUG-15	ANGLE
APPROVED BY:	M.PAULSEN	20-AUG-15	PROJECTION



TOP VIEW
MOUNTING HOLE LOCATIONS
FOR ANCHORING BRACKETS

NOTES:

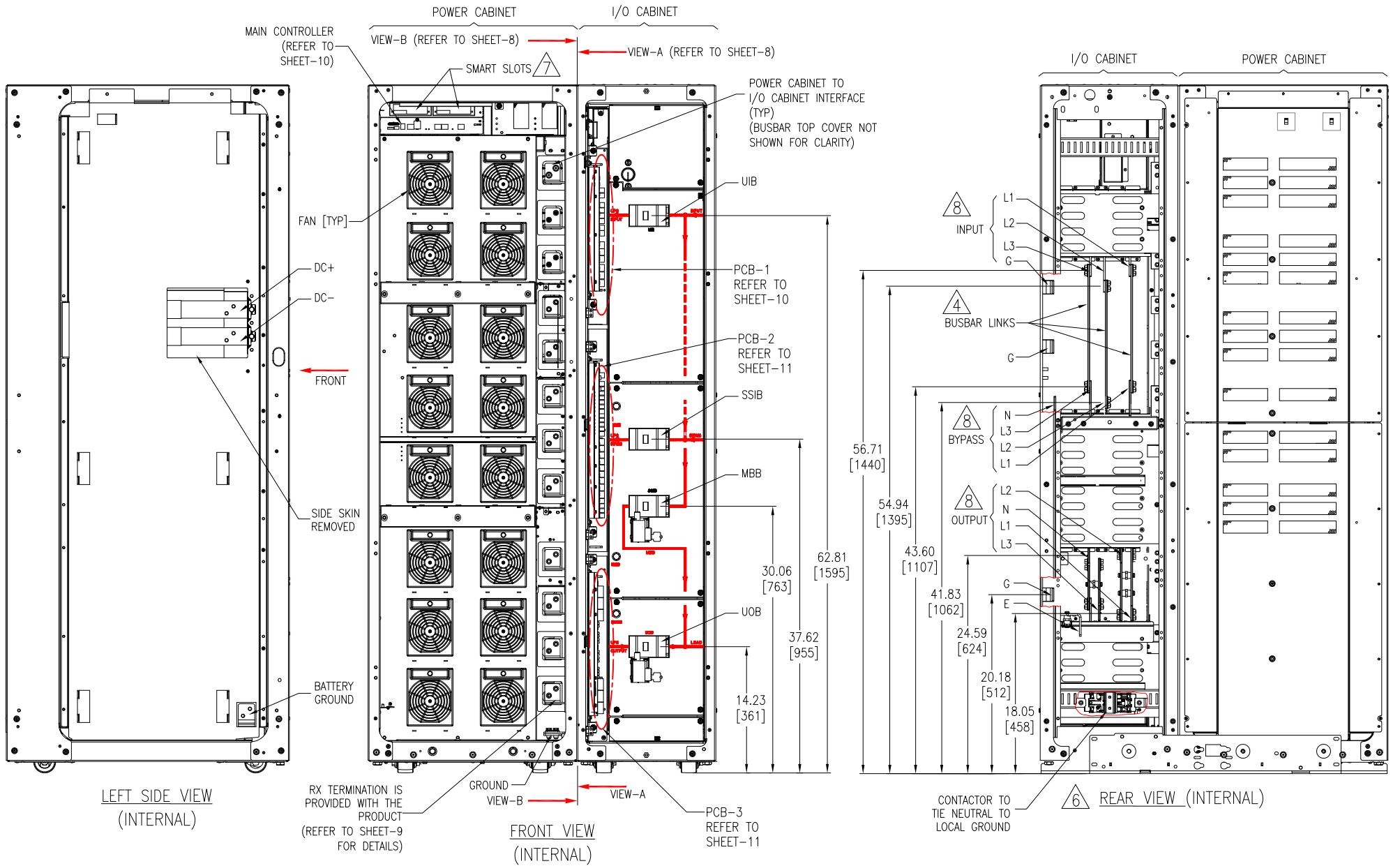
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
- △4. FIXATION OF ANCHORING BRACKETS IN FRONT IS OPTIONAL IN NON-SEISMIC LOCATIONS. FOR SEISMIC COMPLIANCE USE CODE COMPLIANT FASTENERS TO SECURE UNIT TO THE FLOOR.
- △5. USE THE BAYING BRACKET THAT WAS ATTACHED TO THE REAR PALLET OF I/O CABINET FOR ANCHORING THE UNIT.
6. IN AREAS WHERE SEISMIC PROTECTION IS REQUIRED, FOLLOW THE INSTRUCTIONS IN GVM65KANCHORING-SA DRAWING.
7. FOR INSTALLATION ON RAISED FLOOR, FOLLOW THE INSTRUCTIONS IN GVM65KANCHORING-RF DRAWING.
8. FLOOR ANCHORING BOLTS ARE NOT SUPPLIED.
- △9. REAR BAYING BRACKET MUST BE BOLTED TO THE FLOOR.

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TITLE: Galaxy VM
Input: 480V AC 3PH
Output: 208V AC 3PH 180KVA
1 MODULE UPS WITH TRANSFORMER CABINET
SOLUTION-ANCHORING DETAILS
PROJECT: DRAWINGS SHEET 6 OF 16

DWG NO:	GVM5180KGF65S	REV.	0
DRAWN BY:	K.NAGENDRA	20-AUG-15	THIRD
ENGINEER:	C.ANDERSEN/Y DU	20-AUG-15	ANGLE
APPROVED BY:	M.PAULSEN	20-AUG-15	PROJECTION

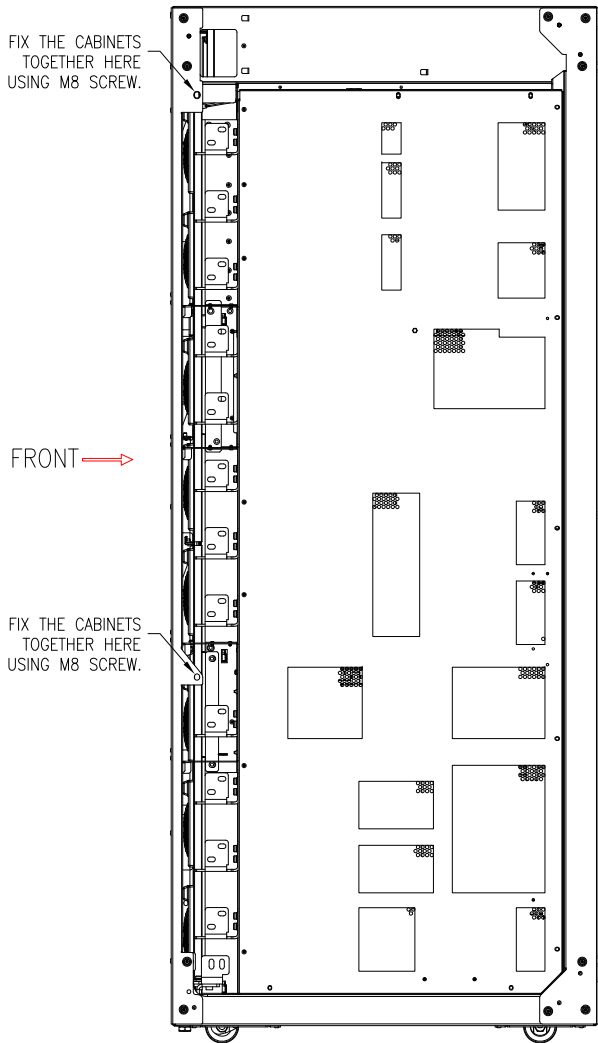


- NOTES:**
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
 4. BUSBAR LINKS ARE APPLICABLE FOR SINGLE MAINS SYSTEM ONLY. (REMOVE FOR DUAL MAINS)
 5. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.
 6. FRONT SERVICE ACCESS ONLY. NO REAR ACCESS REQUIRED FOR SERVICE.
 7. NETWORK MANAGEMENT CARD IS OPTIONAL AND TO BE ORDERED SEPARATELY. THE RECOMMENDED NETWORK MANAGEMENT CARDS ARE: AP9630/AP9631/AP9635.
 8. REFER TO SHEET-8 FOR BUSBAR DETAILS.
 9. THE TOGGLE LOCK FOR THE BREAKERS (I/O CABINET) CAN BE OPENED OR CLOSED AND CAN NOT BE REMOVED

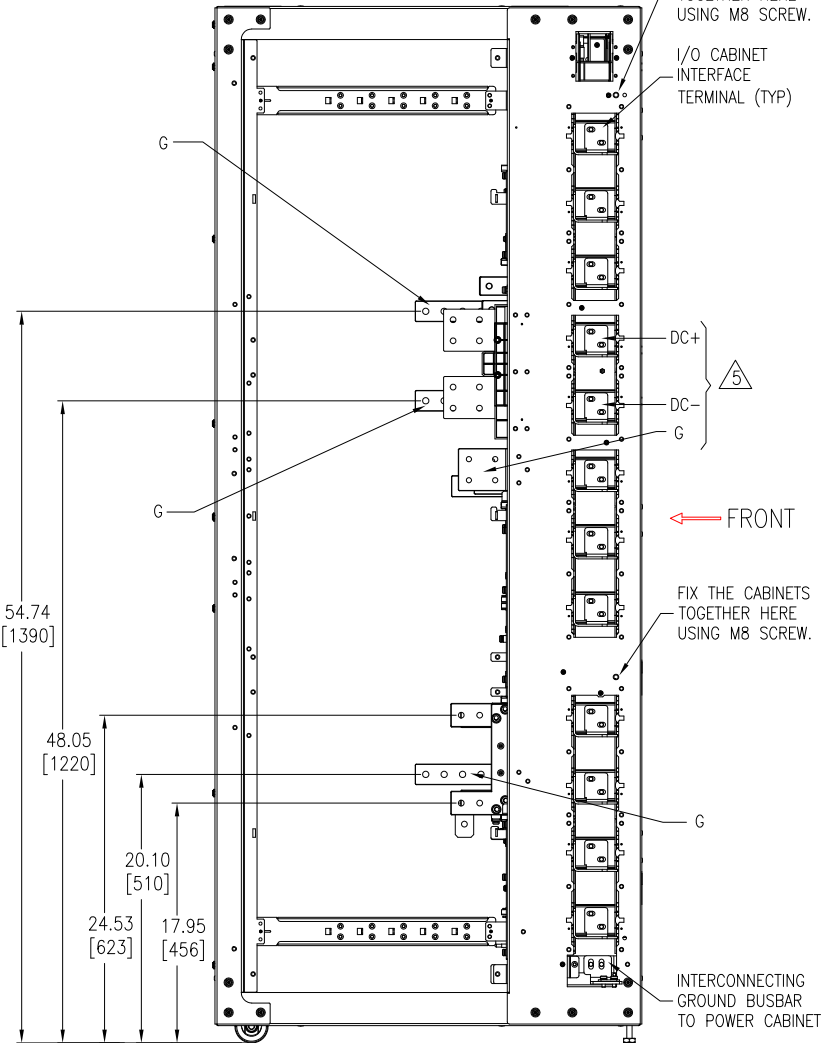
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TITLE: Galaxy VM Input: 480V AC 3PH Output: 208V AC 3PH 180KVA 1 MODULE UPS WITH TRANSFORMER CABINET UPS INTERNAL VIEWS-1		DWG NO: GVMS180KGF65S		REV. 0
PROJECT: DRAWINGS		DRAWN BY: K.NAGENDRA		20-AUG-15
SHEET 7 OF 16		ENGINEER: C.ANDERSEN/Y DU		20-AUG-15
		APPROVED BY: M PAULSEN		20-AUG-15
				THIRD ANGLE PROJECTION

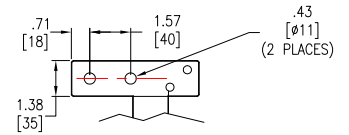


VIEW-A
POWER CABINET

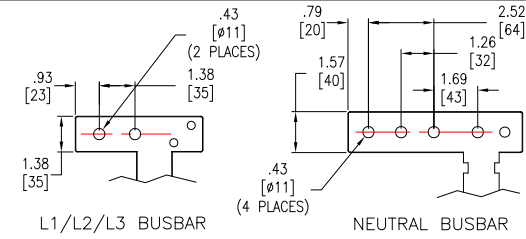


VIEW-B
INPUT/OUTPUT FRAME

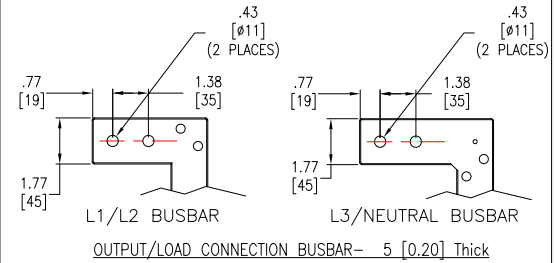
BUSBAR DETAILS



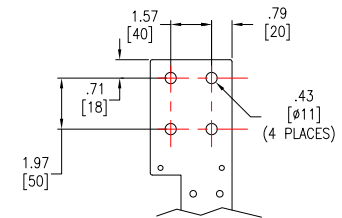
UPS INPUT CONNECTION BUSBAR/
GROUND BUSBAR- 5 [0.20] Thick



L1/L2/L3 BUSBAR NEUTRAL BUSBAR
BYPASS INPUT/NEUTRAL CONNECTION BUSBAR- 5 [0.20] Thick



L1/L2 BUSBAR L3/NEUTRAL BUSBAR
OUTPUT/LOAD CONNECTION BUSBAR- 5 [0.20] Thick



DC CONNECTION BUSBAR- 5 [0.20] Thick

NOTES:

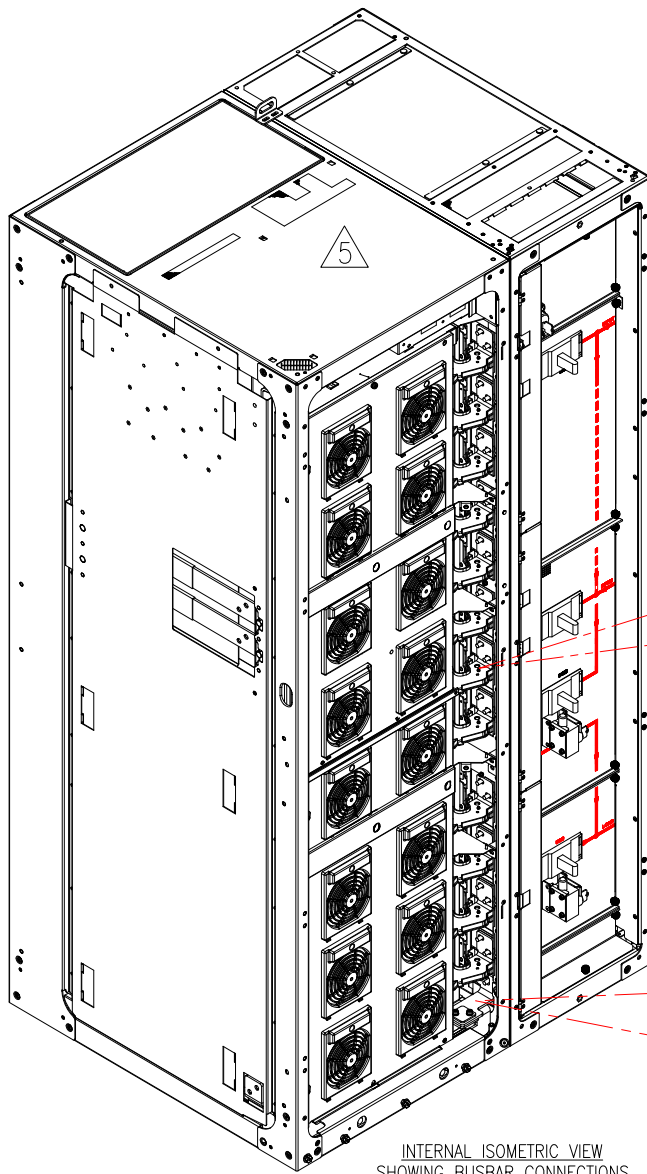
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.
- △ 5. APPLICABLE FOR SYSTEMS WITH REMOTE BATTERIES OR BATTERY BREAKER ENCLOSURE ONLY.

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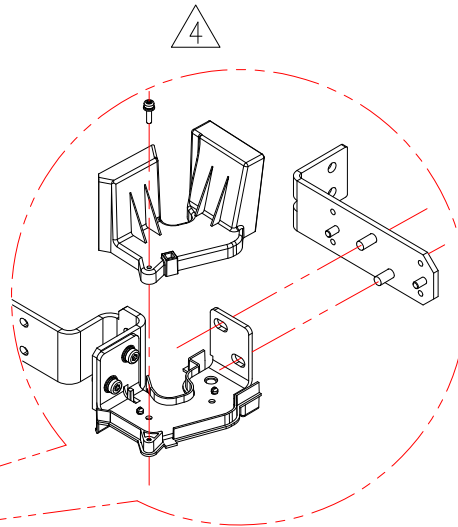


TITLE: Galaxy VM
Input: 480V AC 3PH
Output: 208V AC 3PH 180kVA
1 MODULE UPS WITH TRANSFORMER CABINET
UPS INTERNAL VIEWS-2
PROJECT: DRAWINGS SHEET 8 OF 16

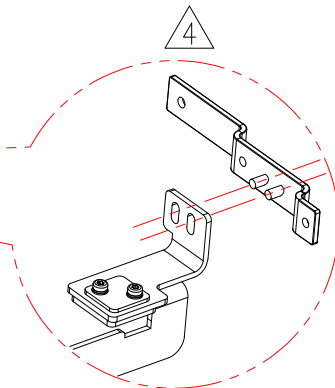
DWG NO:	GVMS180KGF65S		REV.	0
DRAWN BY:	K.NAGENDRA	20-AUG-15	THIRD	
ENGINEER:	C.ANDERSEN/Y DU	20-AUG-15	ANGLE	
APPROVED BY:	M.PAULSEN	20-AUG-15	PROJECTION	



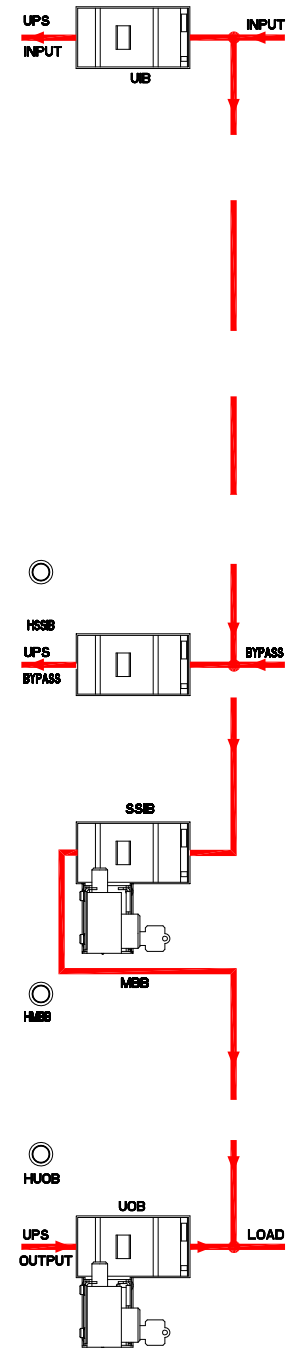
INTERNAL ISOMETRIC VIEW
SHOWING BUSBAR CONNECTIONS
(BUSBAR TOP COVER NOT SHOWN FOR CLARITY)



INTERCONNECTION BUSBAR DETAILS
(ENLARGED VIEW)



INTERCONNECTION GROUND BUSBAR DETAILS
(ENLARGED VIEW)



FLOW DIAGRAM

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.

△ 4. ALL THE INTERFACE PARTS ARE SUPPLIED WITH THE UNIT.

△ 5. SCHNEIDER ELECTRIC RECOMMENDS:

- THAT THE POWER CABINET IS TO BE INSTALLED AS LATE AS POSSIBLE TO AVOID CONSTRUCTION DEBRIS AND DUST ACCUMULATING INSIDE IT.
- THAT THE ROOM IS TO BE PROPERLY CLEANED AFTER THE COMPLETION OF CONSTRUCTION WORK AND BEFORE THE POWER CABINET IS INSTALLED.
- VACUUM CLEANING OF THE I/O CABINET AFTER CABLE INSTALLATION.

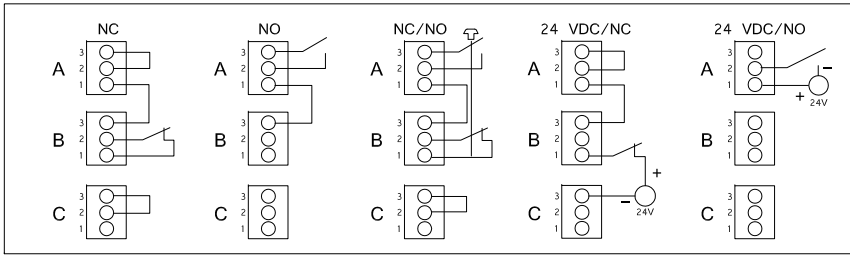
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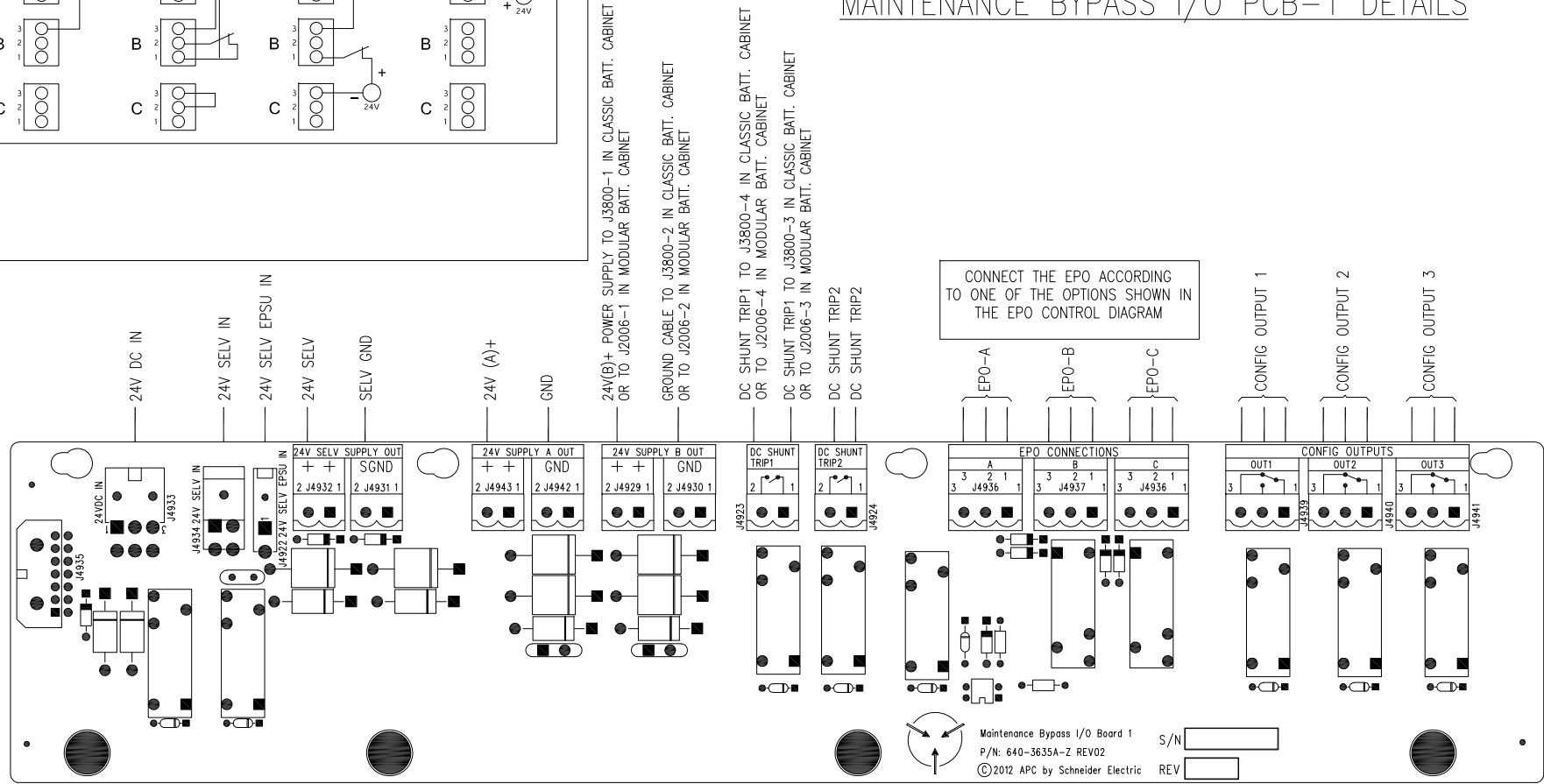
TITLE: Galaxy VM
Input: 480V AC 3PH
Output: 208V AC 3PH 180KVA
1 MODULE UPS WITH TRANSFORMER CABINET
UPS INTERCONNECTION BUSBAR DETAILS
PROJECT: DRAWINGS SHEET 9 OF 16

DWG NO:	GVMS180KGF65S	REV:	0
DRAWN BY:	K.NAGENDRA	20-AUG-15	THIRD
ENGINEER:	C.ANDERSEN/Y DU	20-AUG-15	ANGLE
APPROVED BY:	M.PAULSEN	20-AUG-15	PROJECTION

EPO CONTROL DIAGRAM

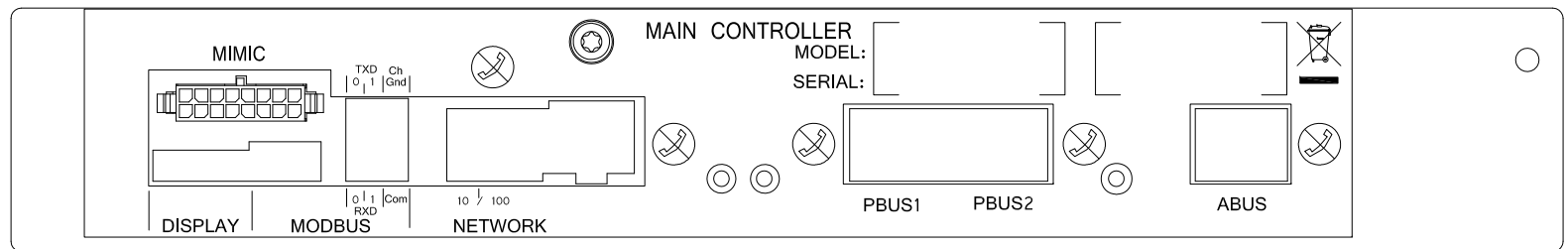


MAINTENANCE BYPASS I/O PCB-1 DETAILS



Maintenance Bypass I/O Board 1
 P/N: 640-3635A-2 REV02
 © 2012 APC by Schneider Electric
 S/N:
 REV:

MAIN CONTROLLER



- NOTES:**
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.

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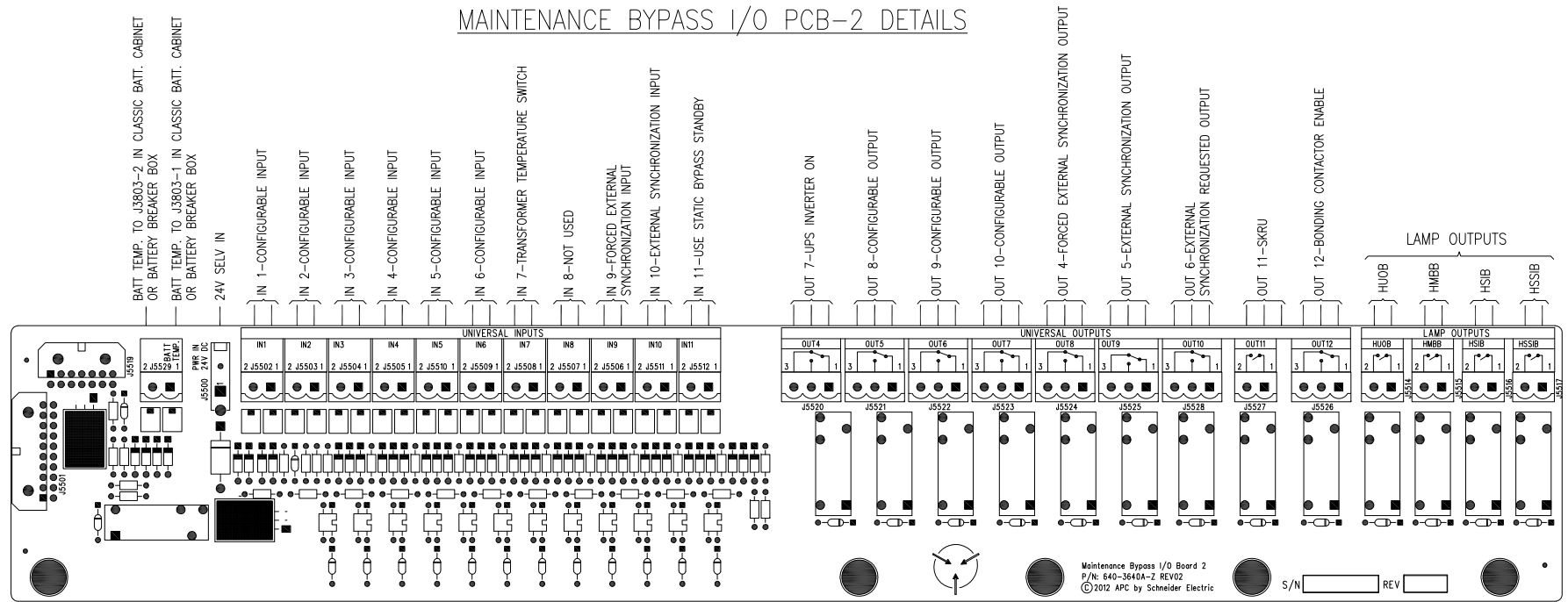


TITLE: Galaxy VM
 Input: 480V AC 3PH
 Output: 208V AC 3PH 180kVA
 1 MODULE UPS WITH TRANSFORMER CABINET
 UPS MBP I/O BOARD-1 & MAIN CONTROLLER

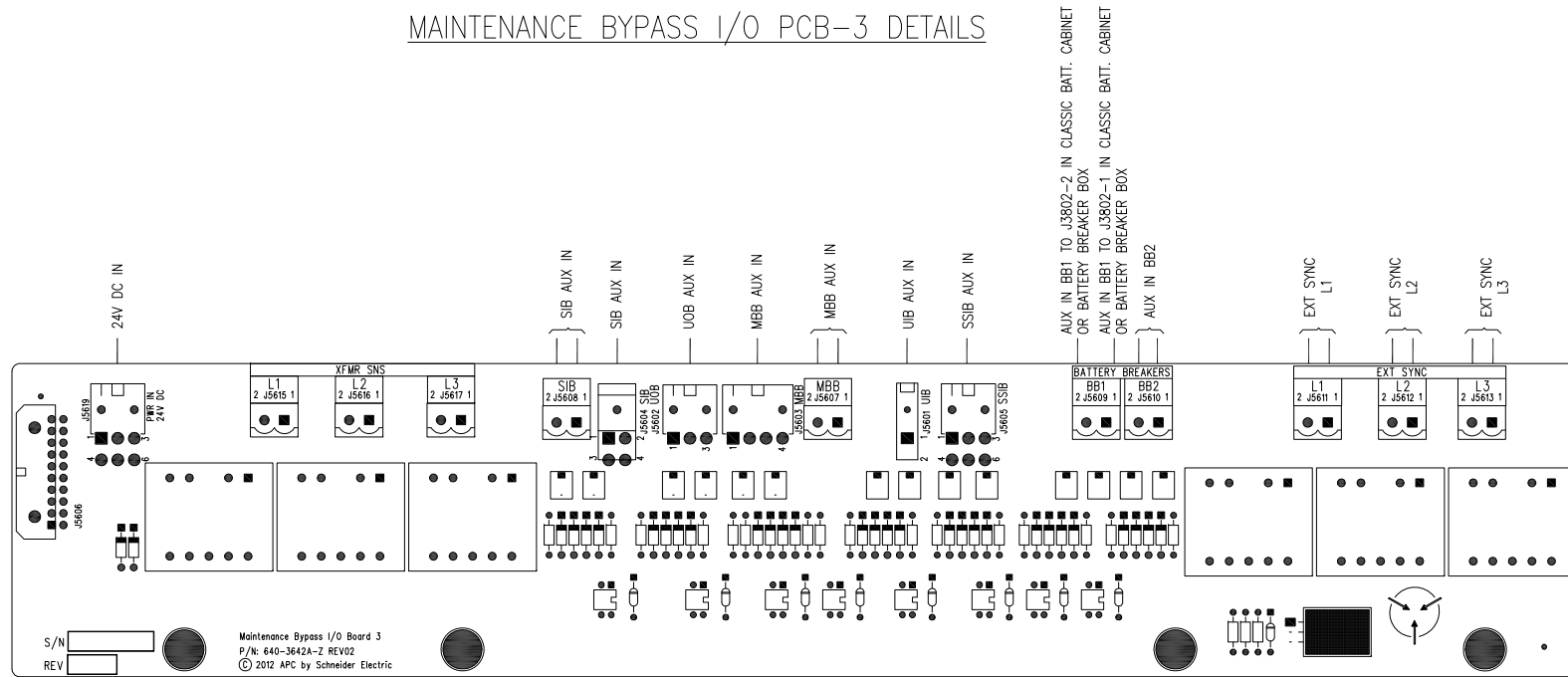
DWG NO:	GVMS180KGF65S	REV.	0
DRAWN BY:	K.NAGENDRA	20-AUG-15	ANGLE
ENGINEER:	C.ANDERSEN/Y DU	20-AUG-15	PROJECTION
APPROVED BY:	M.PAULSEN	20-AUG-15	N. A

PROJECT: DRAWINGS **SHEET** 10 OF 16

MAINTENANCE BYPASS I/O PCB-2 DETAILS



MAINTENANCE BYPASS I/O PCB-3 DETAILS



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.

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TITLE: Galaxy VM
Input: 480V AC 3PH
Output: 208V AC 3PH 180kVA
1 MODULE UPS WITH TRANSFORMER CABINET
UPS MBP I/O BOARDS-2 & 3

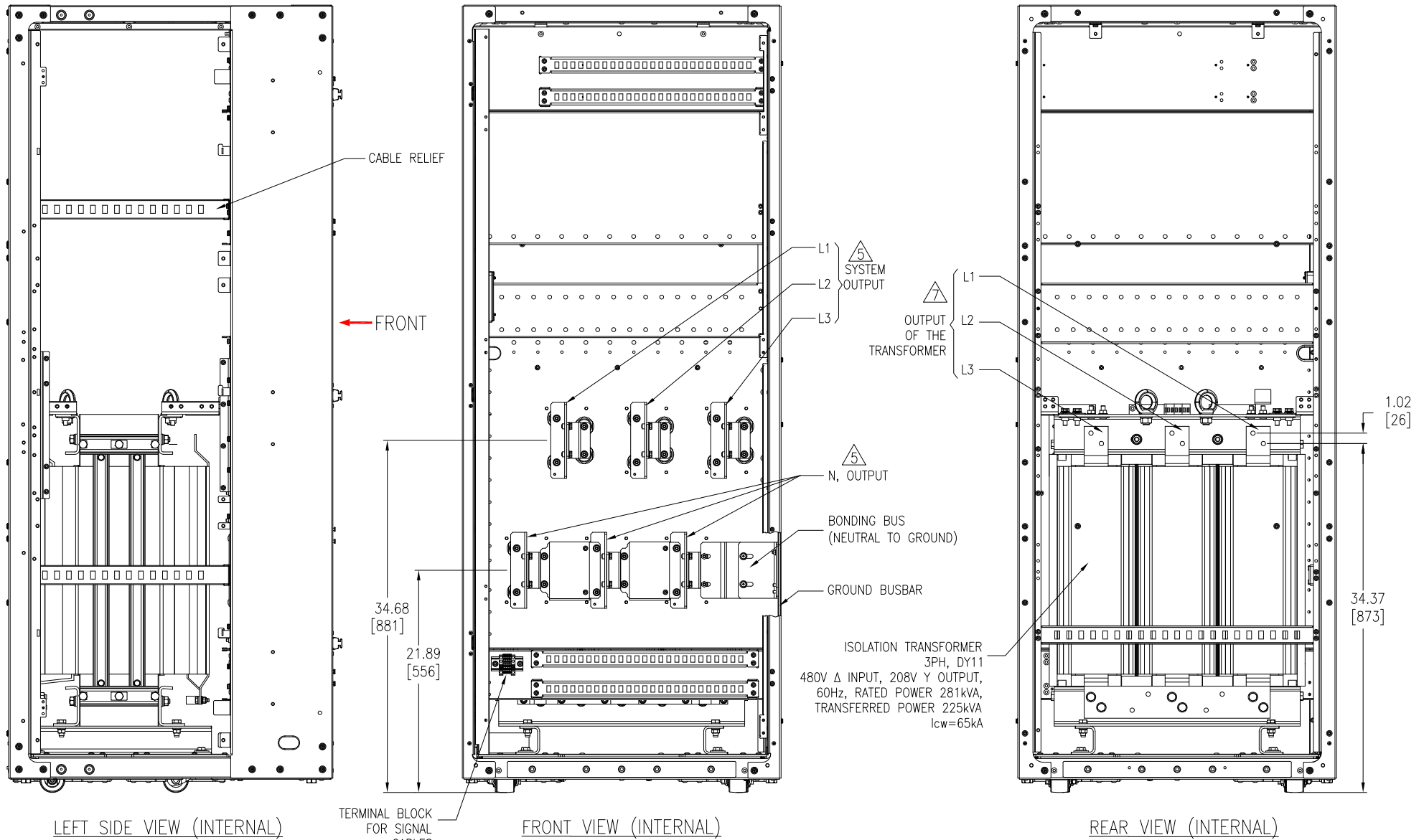
PROJECT: DRAWINGS **SHEET:** 110F16

DWG NO: GVMS180KGF65S **REV:** 0

DRAWN BY: K.NAGENDRA 20-AUG-15 **ANGLE:**

ENGINEER: C.ANDERSEN/Y DU 20-AUG-15 **PROJECTION:**

APPROVED BY: M.PAULSEN 20-AUG-15 **REV:** N.△



- NOTES:**
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
 4. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.
 - Δ5. FOR BUSBAR DETAILS REFER TO SHEET-13.
 6. TRANSFORMER CABINET SHOULD ONLY BE BAYED TO THE RIGHT SIDE OF THE I/O CABINET.
 - Δ7. FOR POWER & CONTROL WIRING REFER TO TRANSFORMER INSTALLATION MANUAL.

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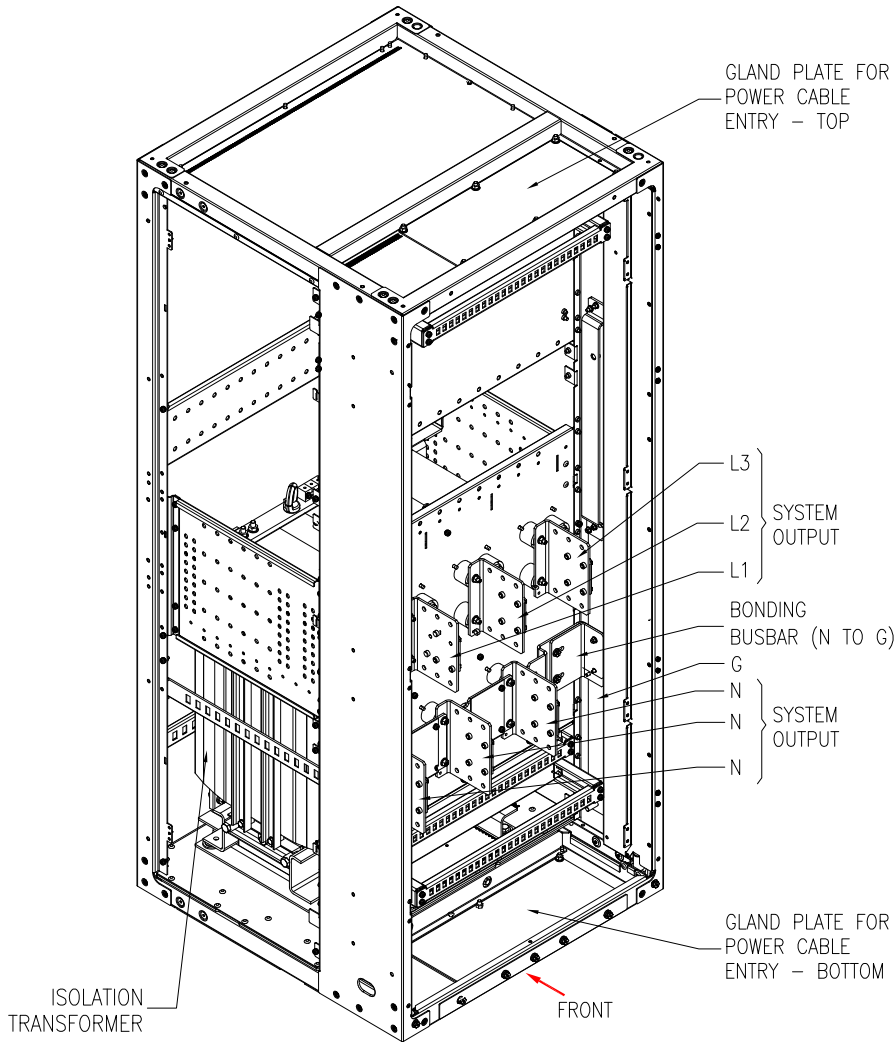
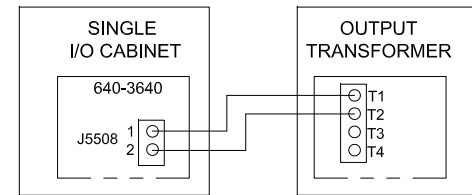


TITLE: Galaxy VM
Input: 480V AC 3PH
Output: 208V AC 3PH 180kVA
1 MODULE UPS WITH TRANSFORMER CABINET
TRANSFORMER CABINET INTERNAL VIEW

PROJECT: DRAWINGS **SHEET:** 12 OF 16

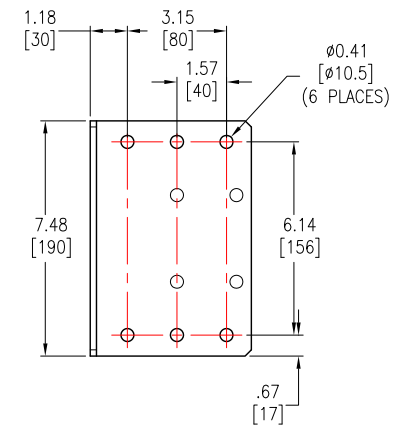
DWG NO: GVMS180KGF65S	REV: 0
DRAWN BY: K.NAGENDRA	20-AUG-15
ENGINEER: C.ANDERSEN/Y DU	20-AUG-15
APPROVED BY: M PAULSEN	20-AUG-15
	THIRD ANGLE PROJECTION

INTERFACE DETAILS BETWEEN I/O CABINET AND OUTPUT TRANSFORMER



INTERNAL ISOMETRIC VIEW
(FRONT DOORS NOT SHOWN)

BUSBAR DETAILS



OUTPUT/NEUTRAL CONNECTION BUSBAR/
5 [0.20] Thick

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].

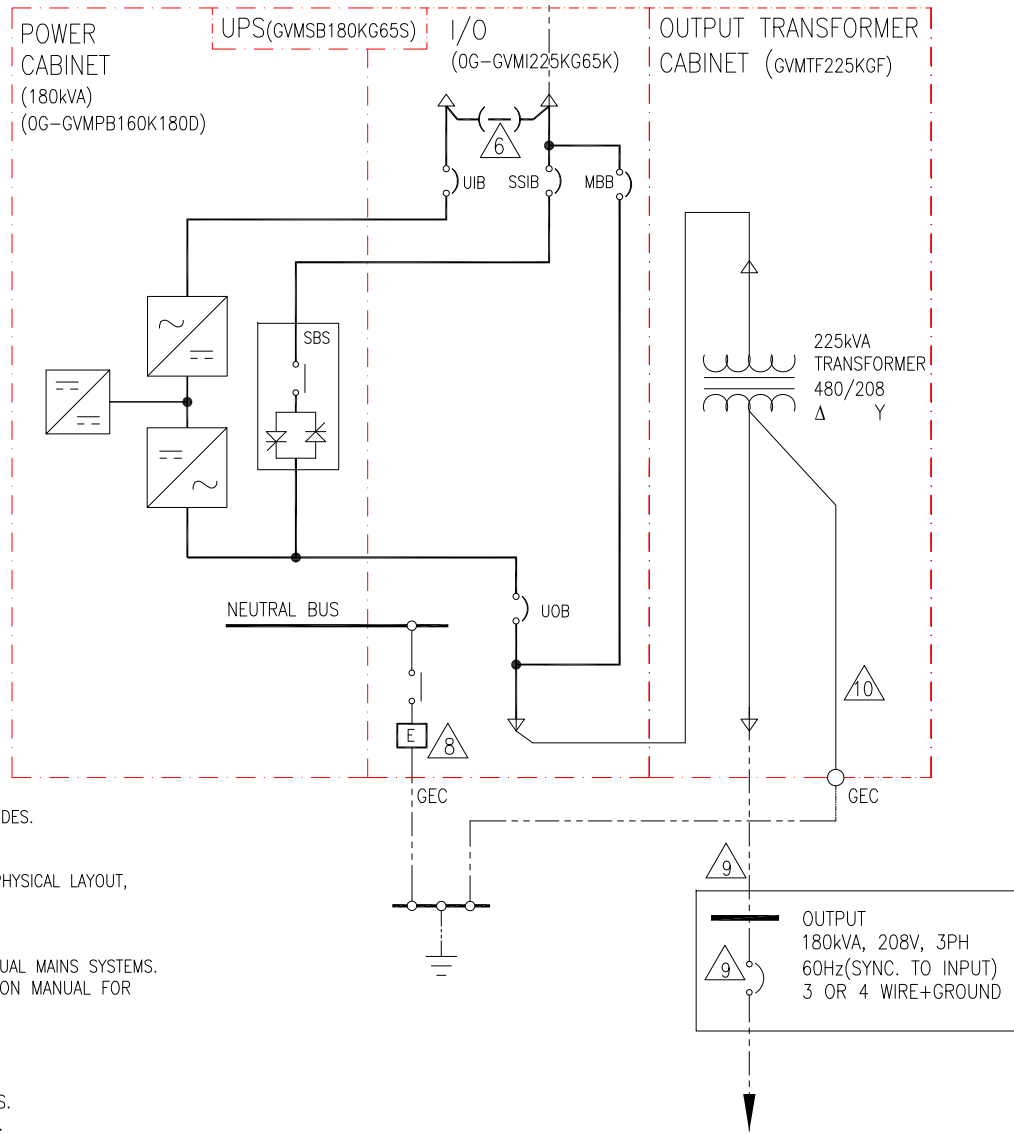
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TITLE: Galaxy VM
Input: 480V AC 3PH
Output: 208V AC 3PH 180kVA
1 MODULE UPS WITH TRANSFORMER CABINET
TRANSFORMER CABINET-DETAILS
PROJECT: DRAWINGS SHEET 13 OF 16

DWG NO:	GVMS180KGF65S	REV.	0
DRAWN BY:	K.NAGENDRA	20-AUG-15	ANGLE
ENGINEER:	C.ANDERSEN/Y DU	20-AUG-15	PROJECTION
APPROVED BY:	M.PAULSEN	20-AUG-15	N.A.

INPUT
480V 3PH, 60Hz
3 WIRE+GROUND
65kA RMS MAXIMUM
(PROVIDED BY OTHERS)



DEVICE RATING				
UPS - INPUT/OUTPUT CABINET				
DEVICE	RATING	TYPE	MAKE	MODEL
UIB/ SSIB/ MBB / UOB	400A, 600V AC	4 POLE MCCB	SCHNEIDER ELECTRIC	LJF46400CU31X

- NOTES:**
- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 - REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
 - INPUT AC SOURCE TO BE 480V AC 3PH, 3 WIRE SYSTEM:-3 WIRE+GROUND,
 - AC CABLING TO BE 600V RATED, 3 WIRE+GROUND, PROVIDED BY OTHERS.
 - BUSBAR LINKS APPLICABLE FOR SINGLE MAINS ONLY. SHOULD BE REMOVED FOR DUAL MAINS SYSTEMS.
 - LUGS ARE NOT PROVIDED. SEE MECHANICAL SUBMITTAL PACKAGE AND INSTALLATION MANUAL FOR ADDITIONAL TERMINATION DETAILS.
 - A GROUND BONDING JUMPER MUST BE CONNECTED TO THE "E" TERMINAL. GEC IS REQUIRED FOR 3 WIRE INPUT/OUTPUT ONLY.
 - SYSTEM OUTPUT OCPD AND CABLING SHALL BE PROVIDED BY OTHERS. OCPD AND CABLING SHALL COMPLY WITH LOCAL OR NATIONAL CODE TAP RULES. SEE SHEET-16 FOR DETAILS. AC CABLING TO BE NOT LESS THAN 250V RATED.
 - BONDING JUMPER PROVIDED BY SCHNEIDER ELECTRIC.
 - OUTPUT GROUND FAULT DETECTION IS NOT PROVIDED FOR UNDERGROUND OR HRG INSTALLATION. CONTACT Schneider Electric FOR ASSISTANCE.

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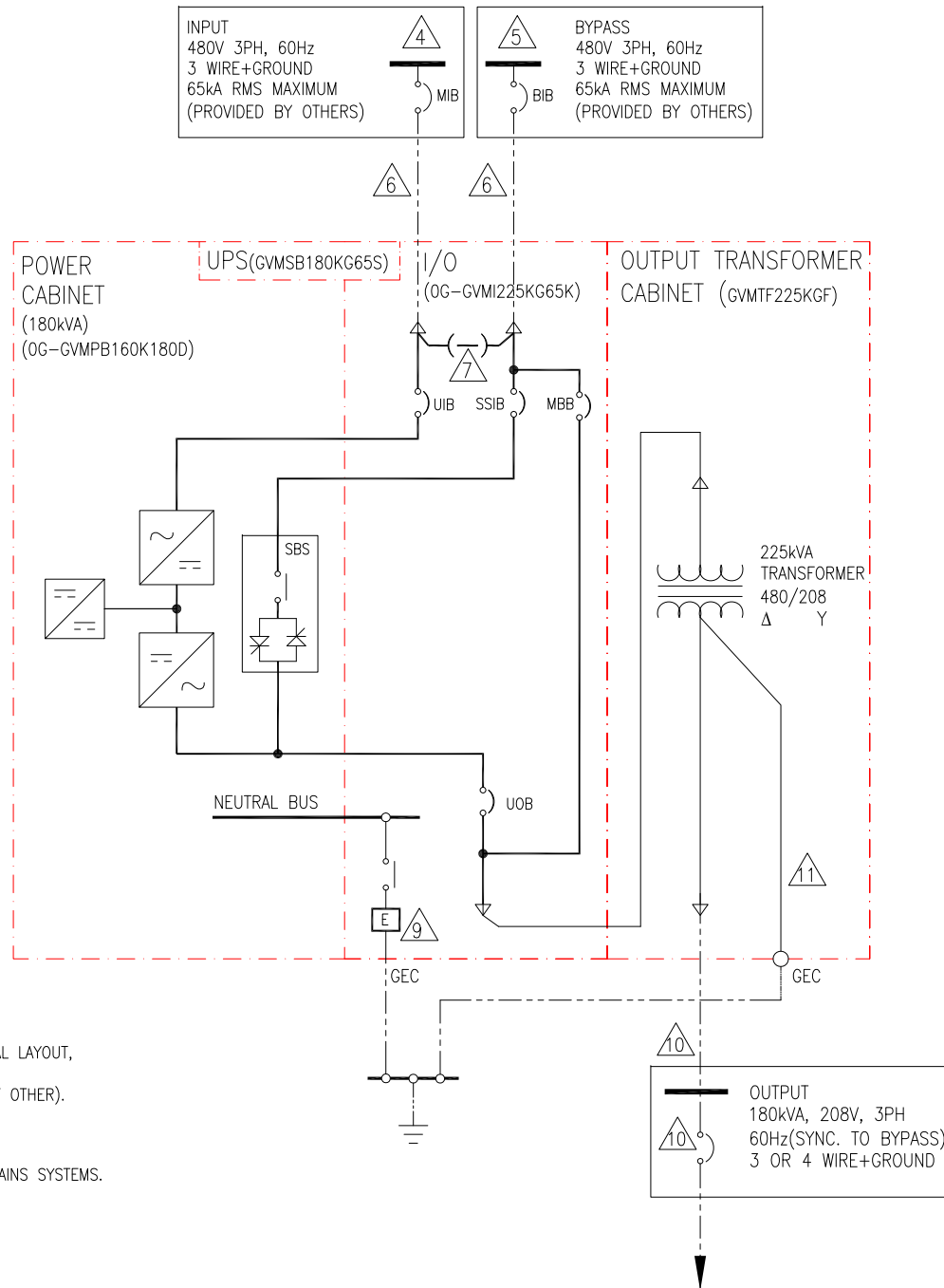
TITLE: GALAXY VM
Input: 480 AC 3PH SINGLE MAINS
Output: 208V AC 3PH 180kVA
1 MODULE UPS WITH TRANSFORMER CABINET
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS **SHEET:** 14 OF 16

DWG NO: GVMS180KGF65S

DRAWN BY: K.NAGENDRA/BALA 12-OCT-17
ENGINEER: M.P/WZ/T.A/A H 12-OCT-17
APPROVED BY: N.BOBBITT 12-OCT-17

REV. 1
ANGLE
PROJECTION
N.A.



DEVICE RATING				
UPS - INPUT/OUTPUT CABINET				
DEVICE	RATING	TYPE	MAKE	MODEL
UIB/ SSIB/ MBB /UOB	400A, 600V AC	4 POLE MCCB	SCHNEIDER ELECTRIC	LJF46400CU31X

- NOTES:**
- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 - REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
 - INPUT AC SOURCE TO BE 480V AC 3PH, 3 WIRE+GROUND (CONTACT Schneider Electric IF OTHER).
 - BYPASS AC SOURCE TO BE COMMON 480V AC 3PH, 3 WIRE+GROUND. THE BYPASS CONFIGURATION MUST MATCH OUTPUT CONFIGURATION.
 - AC CABLING TO BE 600V RATED, 3 WIRE+GROUND, PROVIDED BY OTHERS.
 - BUSBAR LINKS APPLICABLE FOR SINGLE MAINS ONLY. SHOULD BE REMOVED FOR DUAL MAINS SYSTEMS.
 - LUGS ARE NOT PROVIDED. SEE MECHANICAL SUBMITTAL PACKAGE AND INSTALLATION MANUAL FOR ADDITIONAL TERMINATION DETAILS.
 - A GROUND BONDING JUMPER MUST BE CONNECTED TO THE "E" TERMINAL. GEC IS REQUIRED FOR 3 WIRE INPUT/OUTPUT ONLY.
 - SYSTEM OUTPUT OCPD AND CABLING SHALL BE PROVIDED BY OTHERS. OCPD AND CABLING SHALL COMPLY WITH LOCAL OR NATIONAL CODE TAP RULES. SEE SHEET-16 FOR DETAILS. AC CABLING TO BE NOT LESS THAN 250V RATED.
 - BONDING JUMPER PROVIDED BY SCHNEIDER ELECTRIC.
 - OUTPUT GROUND FAULT DETECTION IS NOT PROVIDED FOR UNDERGROUND OR HRG INSTALLATION. CONTACT Schneider Electric FOR ASSISTANCE.

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Schneider Electric

TITLE: GALAXY VM
Input: 480 AC 3PH DUAL MAINS
Output: 208V AC 3PH 180kVA
1 MODULE UPS WITH TRANSFORMER CABINET
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS **SHEET:** 15 OF 16

DWG NO: GVMS180KGF65S **REV.** 1

DRAWN BY: K.NAGENDRA/BALA **DATE:** 12-OCT-17 **ANGLE:**

ENGINEER: M.P/WZ/T.A/A H **DATE:** 12-OCT-17 **PROJECTION:**

APPROVED BY: N.BOBBITT **DATE:** 12-OCT-17 **SCALE:** N.A

ELECTRICAL DATA (PER UPS) SHEET-DUAL MAINS	
RATED POWER (kVA/kW)	180kVA / 162kW
NOMINAL INPUT VOLTAGE (FREQUENCY) / BYPASS VOLTAGE (FREQUENCY)	480V (60Hz) / 480V (60Hz)
NOMINAL UPS OUTPUT VOLTAGE (FREQUENCY)	480V (60Hz)
INPUT WIRING	WIRING : 3 WIRE -3PH+G
BYPASS WIRING	WIRING : 3WIRE-3PH+G
UPS INPUT NOMINAL INPUT CURRENT (A)	204
MAXIMUM INPUT CURRENT (A)	245
INPUT CURRENT LIMITATION (A)	278
UPS BYPASS NOMINAL CURRENT (A)	217
OUTPUT WIRING	WIRING : 3WIRE-3PH+G OR 4WIRE- 3PH+N+G
TRANSFORMER TYPE / CLASS / VECTOR GROUP	DRY ISOLATION / H / Dyn11
TRANSFORMER INPUT/OUTPUT VOLTAGE	480V / 208V
TRANSFORMER OUTPUT PF	0.9
TRANSFORMER INRUSH CURRENT	< 2710A ⁵
MAXIMUM SHORT CIRCUIT WITHSTAND (kA) INPUT / BYPASS	lcw =65 / lcw =65
RECOMMENDED UPSTREAM INPUT BREAKERS 80% RATED/100%RATED	400AF, 300AT / 400AF,300AT
RECOMMENDED UPSTREAM BYPASS BREAKERS 80% RATED/100%RATED	400AF, 225T / 400AF, 225AT
RECOMMENDED INPUT CABLE SIZE	(1) 300 kcmil
RECOMMENDED BYPASS CABLE SIZE	(1) 4/0 AWG
RECOMMENDED OUTPUT CABLE SIZE	(2) 250 kcmil

ELECTRICAL DATA (PER UPS) SHEET -SINGLE MAINS	
RATED POWER (kVA/kW)	180kVA / 162kW
NOMINAL INPUT VOLTAGE (FREQUENCY)	480V (60Hz)
NOMINAL UPS OUTPUT VOLTAGE (FREQUENCY)	480V (60Hz)
INPUT WIRING	WIRING : 3 WIRE -3PH+G
UPS INPUT NOMINAL INPUT CURRENT (A)	204
MAXIMUM INPUT CURRENT (A)	245
INPUT CURRENT LIMITATION (A)	278
OUTPUT WIRING	WIRING : 3WIRE-3PH+G OR 4WIRE- 3PH+N+G
TRANSFORMER TYPE / CLASS / VECTOR GROUP	DRY ISOLATION / H / Dyn11
TRANSFORMER INPUT/OUTPUT VOLTAGE	480V / 208V
TRANSFORMER OUTPUT PF	0.9
TRANSFORMER INRUSH CURRENT	<2710A ⁵
MAXIMUM SHORT CIRCUIT WITHSTAND (kA) INPUT / BYPASS	lcw =65 / lcw =65
RECOMMENDED UPSTREAM INPUT BREAKER 80% RATED/100%RATED	400AF, 300AT / 400AF,300AT
RECOMMENDED INPUT CABLE SIZE	(1) 300 kcmil
RECOMMENDED OUTPUT CABLE SIZE	(2) 250 kcmil

ELECTRICAL DATA OUTPUT XFMR	
XFMR SPECIFICATION	225kVA, 480D:208Y
XFMR OUTPUT CURRENT(A)	472
RECOMMENDED DOWNSTREAM BREAKER 80% , 100% RATED	800AF/500AT, 600AF/500AT
RECOMMENDED DOWNSTREAM FUSE (A)	500
RECOMMENDED XFMR OUTPUT CABLE SIZE	2 x 250kcmil

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. CABLE AMPACITY IS BASED ON 75C TERMINATIONS @ 30C AMBIENT WITH 3 CURRENT CARRYING COPPER CONDUCTORS PER NFPA 70-2014 ART. 310.15 TABLE 310.15(B).
3. RECOMMENDED OCPDs ARE ELECTRONIC TRIP. OCPD AND CABLING ARE PROVIDED BY OTHERS. SEE NOTE-4.
4. FINAL SELECTIONS ARE RESPONSIBILITY OF ENGINEER OF RECORD BASED ON INSTALLED CONDITIONS AND SCC/SELECTIVE CO-ORDINATION/ARC-FLASH ANALYSIS.
5. RECOMMENDED MINIMUM 3000A INSTANTANEOUS TRIP SETTING OF UPSTREAM BREAKER IN CASE UNINTENDED TRIP OCCUR DUE TO INRUSH CURRENT CAUSED BY TRANSFORMER.

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TITLE: GALAXY VM
Input: 480 AC 3PH SINGLE/DUAL MAINS
Output: 208V AC 3PH 180kVA
1 MODULE UPS WITH TRANSFORMER CABINET
ELECTRICAL DATA SHEET

PROJECT: DRAWINGS SHEET 16 OF 16

DWG NO: GVMS180KGF65S REV. 2

DRAWN BY: K.NAGENDRA/BALA 03-DEC-18 ANGLE

ENGINEER: WZ/T.A 03-DEC-18 PROJECTION

APPROVED BY: N.BOBBITT/ M W 03-DEC-18 N.A