

DRAWING GUIDE				
INPUT VOLTAGE	OUTPUT VOLTAGE	CABLE ENTRY	DESCRIPTION	REFERENCE SHEETS
480V AC	480V AC	TOP/BOTTOM	1 MODULE UPS WITHOUT MBC	2 & 8
		TOP/BOTTOM	1 MODULE UPS WITH MBC (WALL MOUNT-TOP/BOTTOM ENTRY)	3 & 8
		TOP/BOTTOM	1 MODULE UPS WITH MBC -FLOOR MOUNT (TOP/BOTTOM ENTRY - WITH/WITHOUT CONDUIT BOX)	4 & 8
	208V AC	TOP/BOTTOM	1 MODULE UPS SINGLE MAINS WITH OUTPUT XFMR WITH/WITHOUT CONDUIT BOX (TOP/BOTTOM ENTRY)	5 & 8
		TOP/BOTTOM	1 MODULE UPS DUAL MAINS WITH OUTPUT XFMR WITH/WITHOUT CONDUIT BOX (TOP/BOTTOM ENTRY)	6 & 8
	480V AC	TOP/BOTTOM	1+1 SIMPLIFIED PARALLEL REDUNDANT UPS WITHOUT MBC	7 & 8
	480V/ 208V AC	TOP/BOTTOM	SITE PLANNING DATA	8

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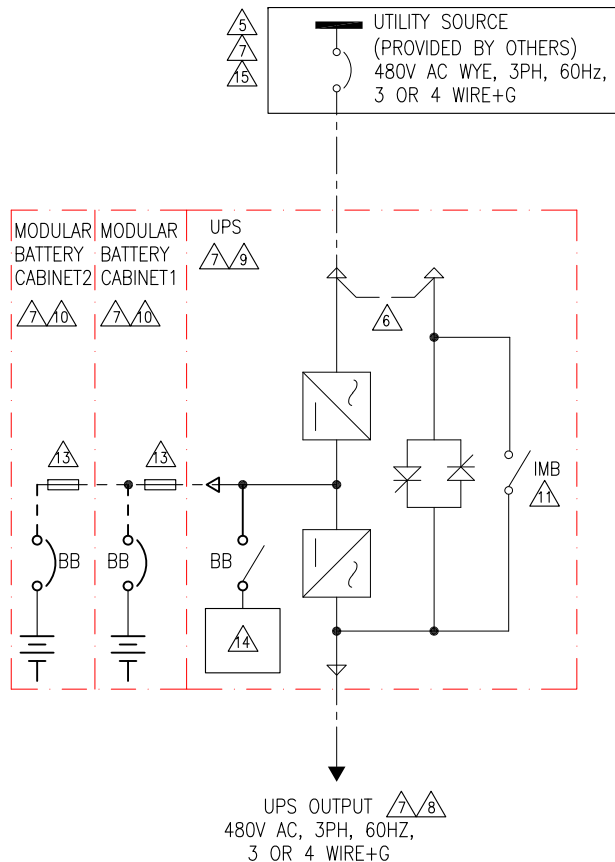


TITLE: GALAXY VS
 Input: 480V AC 3PH 60Hz SINGLE/DUAL FEED
 Output: 480V OR 208V AC 3PH 60Hz 20-50kW
 DRAWING GUIDE
 SYSTEM ONE LINE DIAGRAM
 PROJECT: DRAWINGS SHEET 1 OF 8

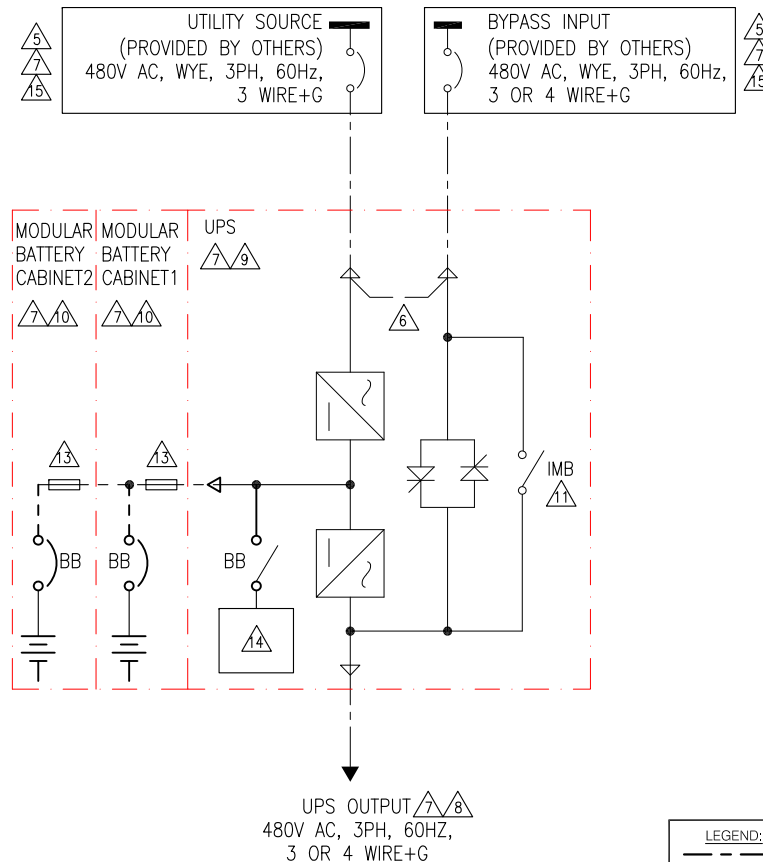
DWG NO:	GVS20K0B50GFSAlO-SD	REV.	0
DRAWN BY:	BALA	19-DEC-19	ANGLE
ENGINEER:	C B/ P J	19-DEC-19	PROJECTION
APPROVED BY:	C C / S V	19-DEC-19	N . A

1 MODULE UPS WITH INTERNAL/EXTERNAL BATTERIES

SINGLE MAINS (ADJACENT BATTERY)

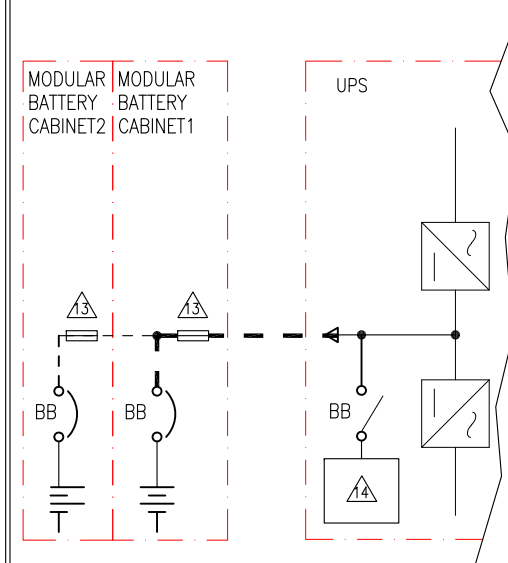


DUAL MAINS (ADJACENT BATTERY)



REMOTE BATTERY-TYPICAL

(REST OF CONNECTIONS
SIMILAR TO ADJACENT BATTERY
EXCEPT BELOW)



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LAYOUT.
4. FINAL SELECTIONS ARE RESPONSIBILITY OF ENGINEER OF RECORDS BASED ON INSTALLED CONDITIONS AND SCC/SELECTIVE CO-ORDINATION/ARC-FLASH ANALYSIS.
- △5. IN SINGLE MAINS SYSTEMS: SUPPLY THE UPS FROM A GROUND 4-WIRE WYE SERVICE. IN DUAL MAINS SYSTEMS: USE A 4-WIRE SUPPLY FOR THE BYPASS AND A 3-WIRE SUPPLY FOR THE INPUT. BOTH MUST BE WYE SOURCES. DELTA INPUT SUPPLY FOR EITHER INPUT OR BYPASS IS NOT PERMITTED.
- △6. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS INSTALLATION.
- △7. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-8.
- △8. THE NUMBER OF OUTPUT WIRES MUST MATCH THE NUMBER OF INPUT WIRES IN SINGLE MAINS OR BYPASS WIRES FOR DUAL MAINS. OUTPUT OVER-CURRENT PROTECTION MUST BE PROVIDED BY OTHERS.
- △9. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=65\text{ka}$ RMS SYMMETRICAL. UPS IS PRE-CONFIGURED FOR TNS EARTHING SYSTEM. FOR TN-C/3 WIRE EARTHING SYSTEM CONNECT THE N BUSBAR TO PE BUSBAR AS PER INSTALLATION MANUAL.
- △10. APPLICABLE FOR ALL UPSs EXCEPT GVSUPS10KB2FS & GVSUPS20KB2GS. TWO CABINETS SHOWN. MAXIMUM OF FOUR BATTERY CABINETS CAN BE BAYED WITH THE UPS. FOR RUNTIME DETAILS REFER TO BATTERY CABINET INSTALLATION DRAWINGS OR CONTACT SCHNEIDER ELECTRIC.

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TITLE: GALAXY VS
Input: 480V AC 3PH 60Hz SINGLE/DUAL FEED
Output: 480V OR 208V AC 3PH 60Hz 20-50kW
1 MOD UPS WITH BATTERY
SYSTEM ONE LINE DIAGRAM
PROJECT: DRAWINGS **SHEET** 2 OF 8

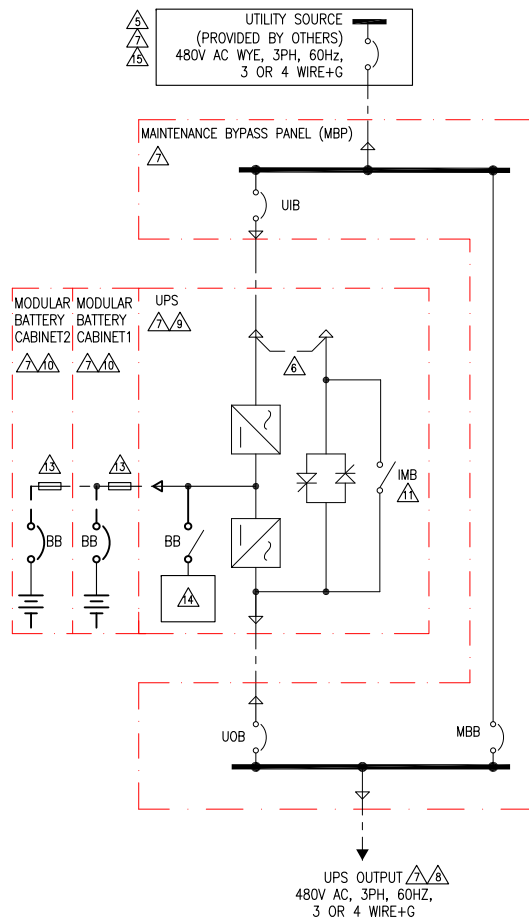
DWG NO: GVS20K0B50GFSAIO-SD **REV.** 1
DRAWN BY: BALA 1-OCT-20 **ANGLE**
ENGINEER: C B / P J 1-OCT-20 **PROJECTION**
APPROVED BY: C C / S V 1-OCT-20 **N. A**

NOTES:-

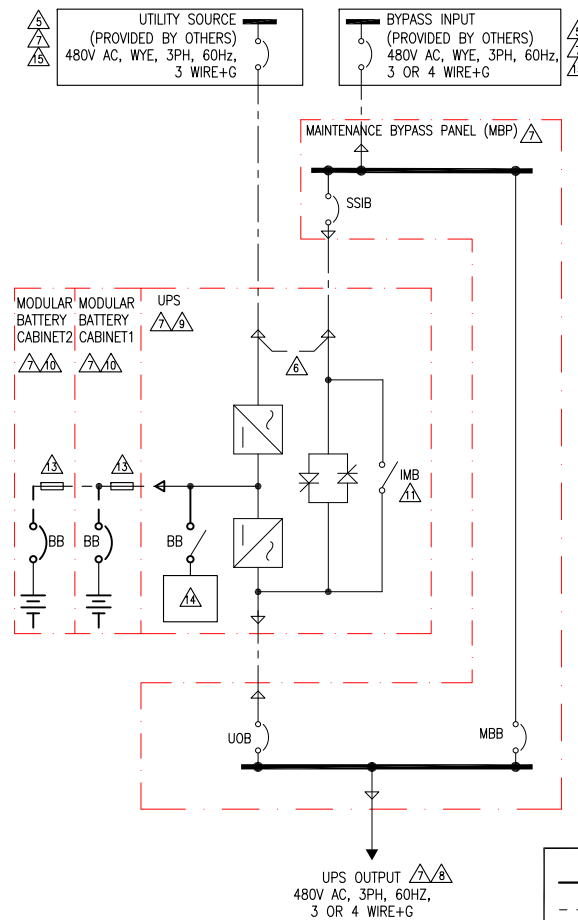
- △11. THE INTERNAL MAINTENANCE BREAKER (IMB) CAN ONLY BE USED IN SINGLE SYSTEMS WITH NO EXTERNAL MAINTENANCE BYPASS BREAKER.
12. CABLE LUGS ARE PROVIDED BY OTHERS EXCEPT FOR ADJACENT BATTERY CABINET INSTALLATION.
- △13. REFER TO GVSMODBC6 DRAWING FOR ADDITIONAL DETAILS.
- △14. NO INTERNAL BATTERIES ARE PROVIDED WITH THE UPS. SLOTS AVAILABLE FOR A MAX. OF 4 BATTERY STRINGS (GVSBT4) OR (GVSBT4LL).
- △15. FOR HRG INSTALLATION REFER TO SHEET-8.

1 MODULE UPS WITH INTERNAL/EXTERNAL BATTERIES & MAINTENANCE BYPASS PANEL(MBP)/
(TOP/BOTTOM ENTRY –WALLMOUNT MBP(GVSBPSU60G-WP))

SINGLE MAINS (ADJACENT BATTERY)

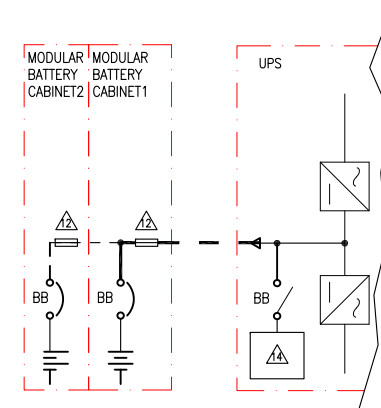


DUAL MAINS (ADJACENT BATTERY)



REMOTE BATTERY-TYPICAL

(REST OF CONNECTIONS
SIMILAR TO ADJACENT BATTERY
EXCEPT BELOW)



LEGEND:

- AC CABLE (PROVIDED BY OTHERS)
- - - 600V DC CABLE (PART OF MODULAR BATTERY CABINET)
- - - 600V DC CABLE (PROVIDED BY OTHERS)

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LAYOUT.
4. FINAL SELECTIONS ARE RESPONSIBILITY OF ENGINEER OF RECORDS BASED ON INSTALLED CONDITIONS AND SCC/SELECTIVE CO-ORDINATION/ARC-FLASH ANALYSIS.
- △5. IN SINGLE MAINS SYSTEMS: SUPPLY THE UPS FROM A GROUNDED 4-WIRE WYE SERVICE.
IN DUAL MAINS SYSTEMS: USE A 4-WIRE SUPPLY FOR THE BYPASS AND A 3-WIRE SUPPLY FOR THE INPUT. BOTH MUST BE WYE SOURCES.
DELTA INPUT SUPPLY FOR EITHER INPUT OR BYPASS IS NOT PERMITTED.
- △6. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS INSTALLATION.
- △7. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-8.
- △8. THE NUMBER OF OUTPUT WIRES MUST MATCH THE NUMBER OF INPUT WIRES IN SINGLE MAINS OR BYPASS WIRES FOR DUAL MAINS.
OUTPUT OVER-CURRENT PROTECTION MUST BE PROVIDED BY OTHERS.
- △9. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=65kA$ RMS SYMMETRICAL.
UPS IS PRE-CONFIGURED FOR TNS EARTHING SYSTEM. FOR TN-C/3 WIRE EARTHING SYSTEM CONNECT THE N BUSBAR TO PE BUSBAR AS PER INSTALLATION MANUAL.
- △10. APPLICABLE FOR ALL UPSs EXCEPT GVSUPS10KB2FS & GVSUPS20KB2GS.
TWO CABINETS SHOWN. MAXIMUM OF FOUR BATTERY CABINETS CAN BE BAYED WITH THE UPS. FOR RUNTIME DETAILS REFER TO BATTERY CABINET INSTALLATION DRAWINGS OR CONTACT SCHNEIDER ELECTRIC.

NOTES:-

- △11. THE INTERNAL MAINTENANCE BREAKER (IMB) CAN ONLY BE USED IN SINGLE SYSTEMS WITH NO EXTERNAL MAINTENANCE BYPASS BREAKER.
12. CABLE LUGS ARE PROVIDED BY OTHERS EXCEPT FOR ADJACENT BATTERY CABINET INSTALLATION.
- △13. REFER TO GVSMODBC6 DRAWING FOR ADDITIONAL DETAILS.
- △14. NO INTERNAL BATTERIES ARE PROVIDED WITH THE UPS. SLOTS AVAILABLE FOR A MAX. OF 4 BATTERY STRINGS (GVSBTH4) OR (GVSBTH4LL).
- △15. FOR HRG INSTALLATION REFER TO SHEET-8.

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TITLE: GALAXY VS
Input: 480V AC 3PH 60Hz SINGLE/DUAL FEED
Output: 480V OR 208V AC 3PH 60Hz 20-50kW
1 MOD UPS w BATTERY CABINET AND MBC
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS **SHEET** 3 OF 8

DWG NO: GVS20K0B50GFAIO-SD

DRAWN BY: BALA **1-OCT-20**

ENGINEER: C B/ P J **1-OCT-20**

APPROVED BY: C C/ S V **1-OCT-20**

REV. 1

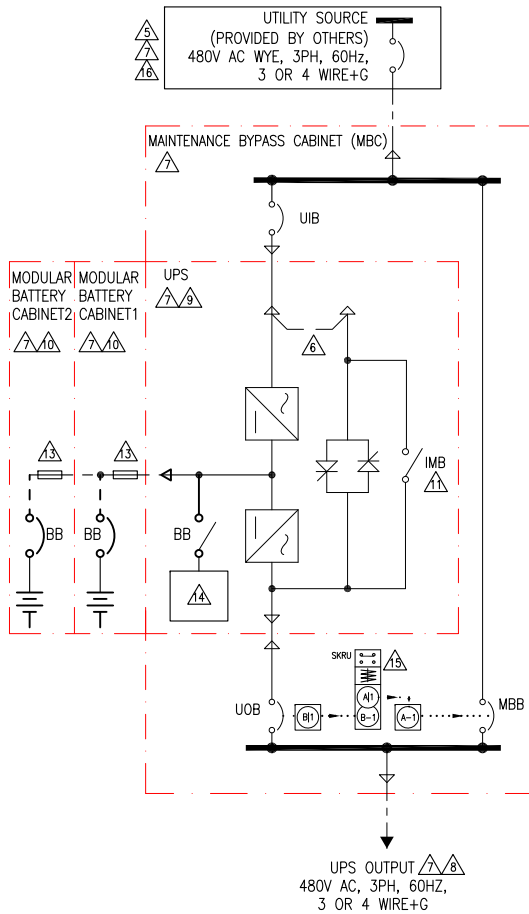
ANGLE

PROJECTION

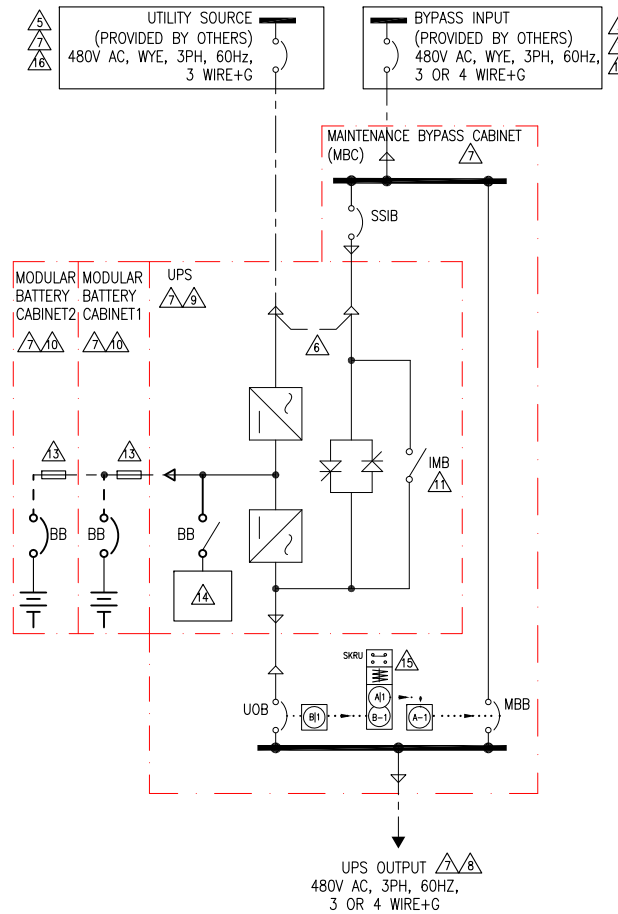
N.A

1 MODULE UPS WITH INTERNAL/EXTERNAL BATTERIES & MAINTENANCE BYPASS CABINET(MBC)
(TOP/BOTTOM ENTRY WITH/WITHOUT CONDUIT BOX FOR FLOORMOUNT MBC(GVSBPSU80G))
(OPTIONAL CONDUIT BOX SKU-GVSOPT018)

SINGLE MAINS (ADJACENT BATTERY)

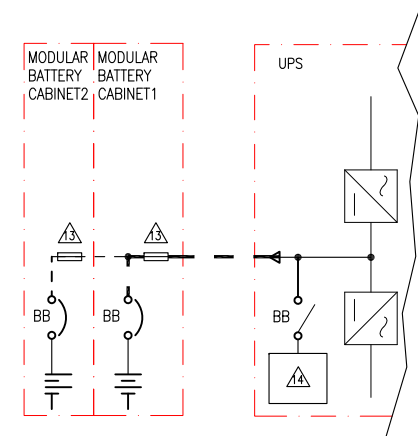


DUAL MAINS (ADJACENT BATTERY)



REMOTE BATTERY-TYPICAL

(REST OF CONNECTIONS
SIMILAR TO ADJACENT BATTERY
EXCEPT BELOW)



LEGEND:	
	AC CABLE (PROVIDED BY OTHERS)
	600V DC CABLE (PART OF MODULAR BATTERY CABINET)
	600V DC CABLE (PROVIDED BY OTHERS)

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LAYOUT.
4. FINAL SELECTIONS ARE RESPONSIBILITY OF ENGINEER OF RECORDS BASED ON INSTALLED CONDITIONS AND SCC/SELECTIVE CO-ORDINATION/ARC-FLASH ANALYSIS.
- Δ5. IN SINGLE MAINS SYSTEMS: SUPPLY THE UPS FROM A GROUNDED 4-WIRE WYE SERVICE. IN DUAL MAINS SYSTEMS: USE A 4-WIRE SUPPLY FOR THE BYPASS AND A 3-WIRE SUPPLY FOR THE INPUT. BOTH MUST BE WYE SOURCES. DELTA INPUT SUPPLY FOR EITHER INPUT OR BYPASS IS NOT PERMITTED.
- Δ6. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS INSTALLATION.
- Δ7. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-8.
- Δ8. THE NUMBER OF OUTPUT WIRES MUST MATCH THE NUMBER OF INPUT WIRES IN SINGLE MAINS OR BYPASS WIRES FOR DUAL MAINS. OUTPUT OVER-CURRENT PROTECTION MUST BE PROVIDED BY OTHERS.
- Δ9. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=65kA$ RMS SYMMETRICAL. UPS IS PRE-CONFIGURED FOR TNS EARTHING SYSTEM. FOR TN-C/3 WIRE EARTHING SYSTEM CONNECT THE N BUSBAR TO PE BUSBAR AS PER INSTALLATION MANUAL.
- Δ10. APPLICABLE FOR ALL UPSs EXCEPT GVSUPS10KB2FS & GVSUPS20KB2GS. TWO CABINETS SHOWN. MAXIMUM OF FOUR BATTERY CABINETS CAN BE BAYED WITH THE UPS. FOR RUNTIME DETAILS REFER TO BATTERY CABINET INSTALLATION DRAWINGS OR CONTACT SCHNEIDER ELECTRIC.

NOTES:

- Δ11. THE INTERNAL MAINTENANCE BREAKER (IMB) CAN ONLY BE USED IN SINGLE SYSTEMS WITH NO EXTERNAL MAINTENANCE BYPASS BREAKER.
- Δ12. CABLE LUGS ARE PROVIDED BY OTHERS EXCEPT FOR ADJACENT BATTERY CABINET INSTALLATION.
- Δ13. REFER TO GVSMODBC6 DRAWING FOR ADDITIONAL DETAILS.
- Δ14. NO INTERNAL BATTERIES ARE PROVIDED WITH THE UPS. SLOTS AVAILABLE FOR A MAX. OF 4 BATTERY STRINGS (GVSBTH4) OR (GVSBTH4LL).
- Δ15. KIRK KEY INTERLOCK IS OPTIONAL (SKU# GVSOPT004) AND APPLICABLE ONLY FOR MBC SKU# GVSBPSU80G.
- Δ16. FOR HRG INSTALLATION REFER TO SHEET-8.

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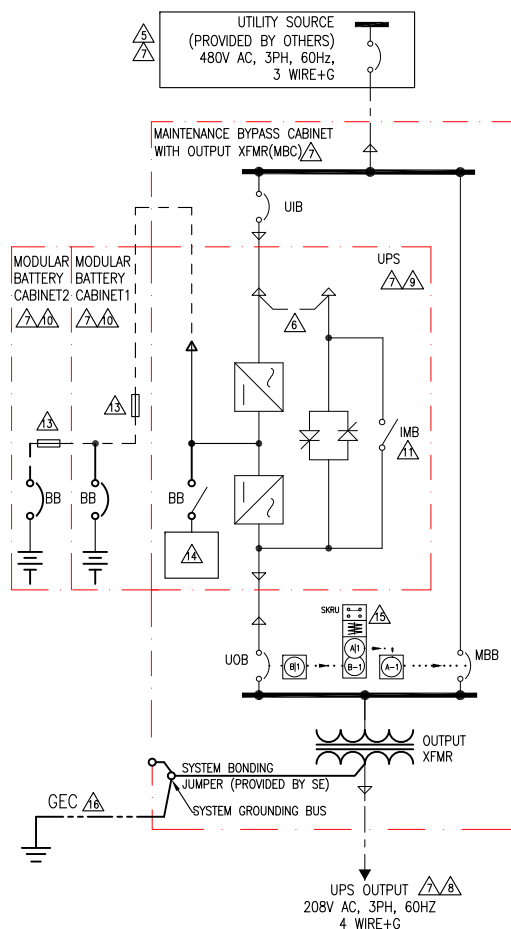
Schneider Electric

TITLE: GALAXY VS
Input: 480V AC 3PH 60Hz SINGLE/DUAL FEED
Output: 480V OR 208V AC 3PH 60Hz 20-50kW
1 MOD UPS w BATTERY CABINET & MBC
SYSTEM ONE LINE DIAGRAM
PROJECT: DRAWINGS SHEET 4 OF 8

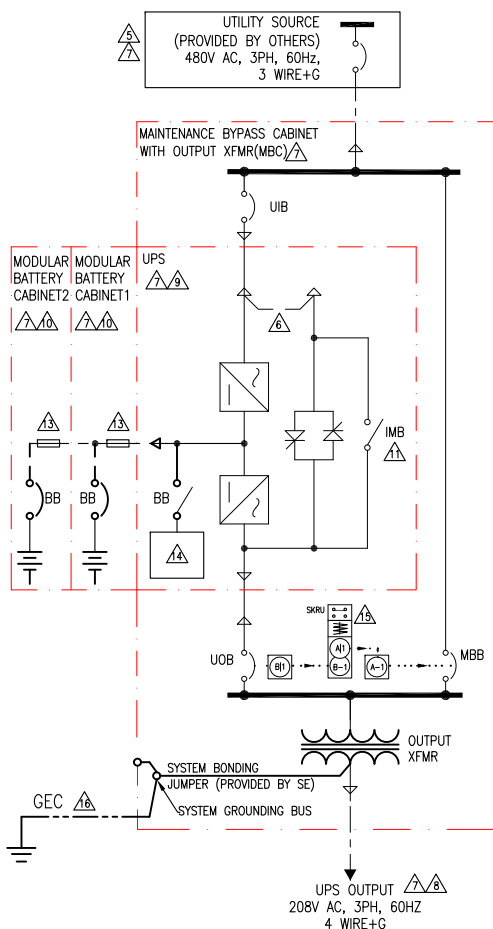
DWG NO: GVS20K0B50GFSAIO-SD
DRAWN BY: BALA 1-OCT-20
ENGINEER: C B / P J 1-OCT-20
APPROVED BY: C C / S V 1-OCT-20
REV. 1
ANGLE PROJECTION
N. A

1 MODULE UPS SINGLE MAINS WITH BATTERIES & MAINTENANCE BYPASS PANEL WITH OUTPUT XFMR WITH AND WITHOUT CONDUIT BOX(GVSOPT013)

MBP WITH OUTPUT XFMR WITHOUT CONDUIT BOX
TOP ENTRY (ADJACENT BATTERY)

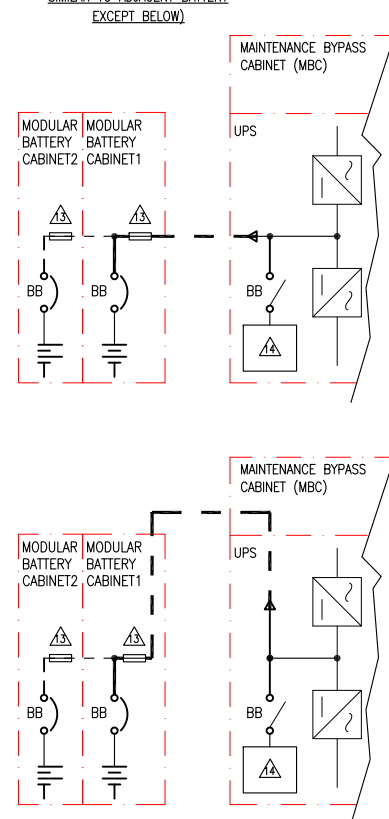


MBP WITH OUTPUT XFMR TOP ENTRY WITH CONDUIT BOX
BOTTOM ENTRY WITH/WITHOUT CONDUIT BOX(ADJACENT BATTERY)



REMOTE BATTERY-TYPICAL

(REST OF CONNECTIONS
SIMILAR TO ADJACENT BATTERY
EXCEPT BELOW)



NOTES:

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2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LAYOUT.
4. FINAL SELECTIONS ARE RESPONSIBILITY OF ENGINEER OF RECORDS BASED ON INSTALLED CONDITIONS AND SCC/SELECTIVE CO-ORDINATION/ARC-FLASH ANALYSIS.
5. FOR HRG INSTALLATIONS REFER TO SHEET-8.
6. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS INSTALLATION.
7. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-8.
8. THE NUMBER OF OUTPUT WIRES MUST MATCH THE NUMBER OF INPUT WIRES IN SINGLE MAINS OR BYPASS WIRES FOR DUAL MAINS. OUTPUT OVER-CURRENT PROTECTION MUST BE PROVIDED BY OTHERS.
9. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=65\text{ka}$ RMS SYMMETRICAL. UPS IS PRE-CONFIGURED FOR TNS EARTHING SYSTEM. FOR TN-C/ 3 WIRE EARTHING SYSTEM CONNECT THE N BUSBAR TO PE BUSBAR AS PER INSTALLATION MANUAL.
10. APPLICABLE FOR ALL UPSs EXCEPT GVSUPS10KB2FS & GVSUPS20KB2GS. TWO CABINETS SHOWN. MAXIMUM OF FOUR BATTERY CABINETS CAN BE BAYED WITH THE UPS. FOR RUNTIME DETAILS REFER TO BATTERY CABINET INSTALLATION DRAWINGS OR CONTACT SCHNEIDER ELECTRIC.
11. THE INTERNAL MAINTENANCE BREAKER (IMB) CAN ONLY BE USED IN SINGLE SYSTEMS WITH NO EXTERNAL MAINTENANCE BYPASS BREAKER.
12. CABLE LUGS ARE PROVIDED BY OTHERS EXCEPT FOR ADJACENT BATTERY CABINET INSTALLATION.

NOTES:

13. REFER TO GVSMODBC6 DRAWING FOR ADDITIONAL DETAILS.
14. NO INTERNAL BATTERIES ARE PROVIDED WITH THE UPS. SLOTS AVAILABLE FOR A MAX. OF 4 BATTERY STRINGS (GVSBT4) OR (GVSBT4LL).
15. KIRK KEY INTERLOCK IS OPTIONAL AND APPLICABLE ONLY FOR MBC SKU# GVSBSU80G.
16. THIS SYSTEM SHALL BE INSTALLED AS A SEPARATELY DERIVED SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES. THE GROUNDING ELECTRODE CONDUCTOR (GEC) SHALL BE PROVIDED BY OTHERS.

LEGEND:

- — — — — AC CABLE (PROVIDED BY OTHERS)
- - - - - 600V DC CABLE (PART OF MODULAR BATTERY CABINET)
- — — — — 600V DC CABLE (PROVIDED BY OTHERS)

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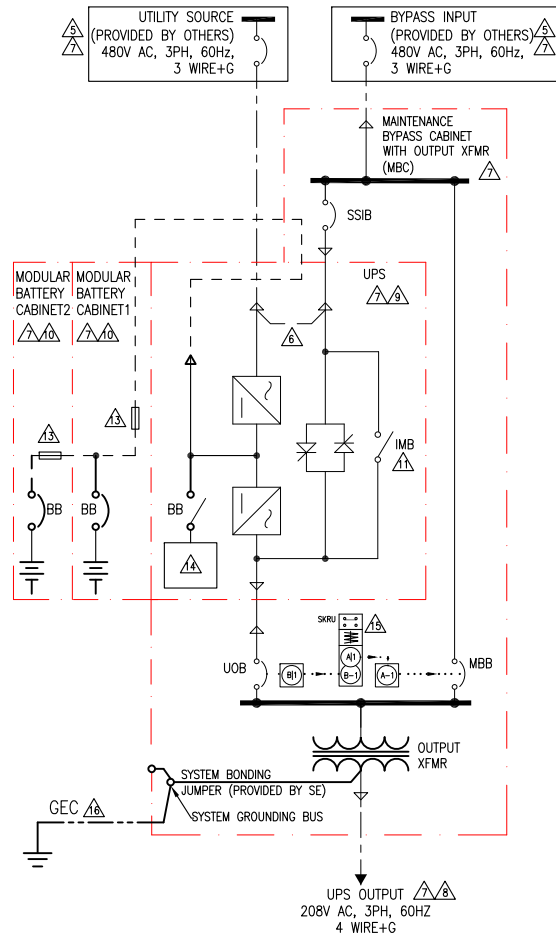
TITLE: GALAXY VS
Input: 480V AC 3PH 60Hz SINGLE/DUAL FEED
Output: 480V OR 208V AC 3PH 60Hz 20-50kW
1 MOD UPS w BATTERY CAB & MBC w OUT XFMR
SYSTEM ONE LINE DIAGRAM
PROJECT: DRAWINGS **SHEET** 5 OF 8

DWG NO: GVS20K0B50GFSIAIO-SD
DRAWN BY: BALA 1-OCT-20
ENGINEER: C B / P J 1-OCT-20
APPROVED BY: C C / S V 1-OCT-20

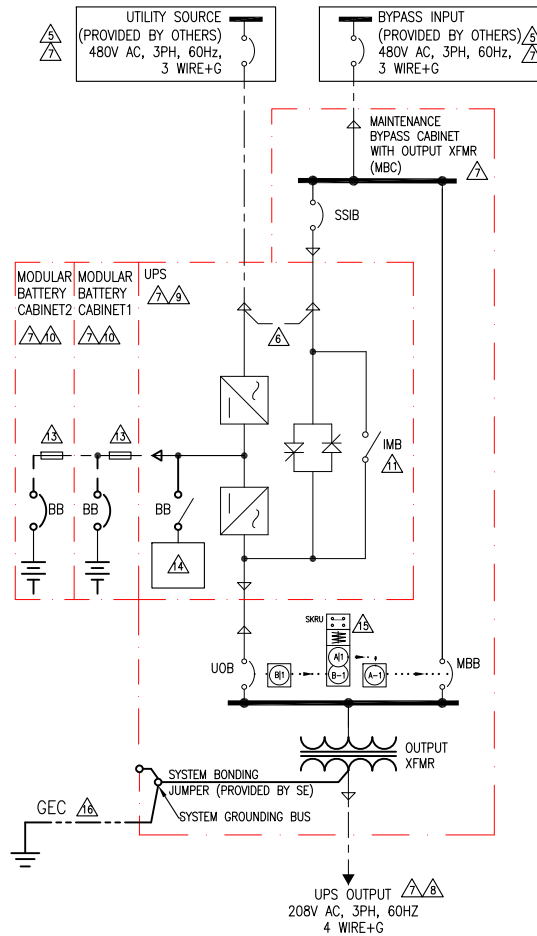
REV. 1
ANGLE
PROJECTION
N. A.

1 MODULE UPS DUAL MAINS WITH BATTERIES & MAINTENANCE BYPASS PANEL WITH OUTPUT XFMR WITH AND WITHOUT CONDUIT BOX(GVSOPT013)

MBP WITH OUTPUT XFMR WITHOUT CONDUIT BOX
TOP ENTRY (ADJACENT BATTERY)

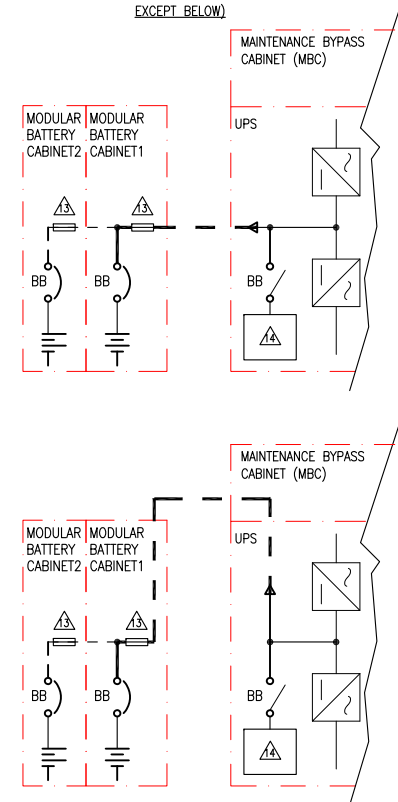


MBP WITH OUTPUT XFMR WITH CONDUIT BOX
TOP/BOTTOM ENTRY (ADJACENT BATTERY)



REMOTE BATTERY-TYPICAL

(REST OF CONNECTIONS
SIMILAR TO ADJACENT BATTERY
EXCEPT BELOW)



NOTES:

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- Δ5. FOR HRG INSTALLATIONS REFER TO SHEET-8.
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- Δ9. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=65\text{ kA RMS SYMMETRICAL}$. UPS IS PRE-CONFIGURED FOR TNS EARTHING SYSTEM. FOR TN-C/ 3 WIRE EARTHING SYSTEM CONNECT THE N BUSBAR TO PE BUSBAR AS PER INSTALLATION MANUAL.
- Δ10. APPLICABLE FOR ALL UPSs EXCEPT GVSUPS10KB2FS & GVSUPS20KB2GS. TWO CABINETS SHOWN. MAXIMUM OF FOUR BATTERY CABINETS CAN BE BAYED WITH THE UPS. FOR RUNTIME DETAILS REFER TO BATTERY CABINET INSTALLATION DRAWINGS OR CONTACT SCHNEIDER ELECTRIC.
- Δ11. THE INTERNAL MAINTENANCE BREAKER (IMB) CAN ONLY BE USED IN SINGLE SYSTEMS WITH NO EXTERNAL MAINTENANCE BYPASS BREAKER.
12. CABLE LUGS ARE PROVIDED BY OTHERS EXCEPT FOR ADJACENT BATTERY CABINET INSTALLATION.

NOTES:

- Δ13. REFER TO GVSMODBC6 DRAWING FOR ADDITIONAL DETAILS.
- Δ14. NO INTERNAL BATTERIES ARE PROVIDED WITH THE UPS. SLOTS AVAILABLE FOR A MAX. OF 4 BATTERY STRINGS (GVSBTH4) OR (GVSBTH4LL).
- Δ15. KIRK KEY INTERLOCK IS OPTIONAL AND APPLICABLE ONLY FOR MBC SKU# GVSBSU80G.
- Δ16. THIS SYSTEM SHALL BE INSTALLED AS A SEPARATELY DERIVED SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES. THE GROUNDING ELECTRODE CONDUCTOR (GEC) SHALL BE PROVIDED BY OTHERS.

LEGEND:

- AC CABLE (PROVIDED BY OTHERS)
- - - 600V DC CABLE (PART OF MODULAR BATTERY CABINET)
- - - 600V DC CABLE (PROVIDED BY OTHERS)

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Schneider Electric

TITLE: GALAXY VS
Input: 480V AC 3PH 60Hz SINGLE/DUAL FEED
Output: 480V OR 208V AC 3PH 60Hz 20-50kW
1 MOD UPS w BATTERY CAB & MBC w OUT XFMR
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS SHEET 6 OF 8

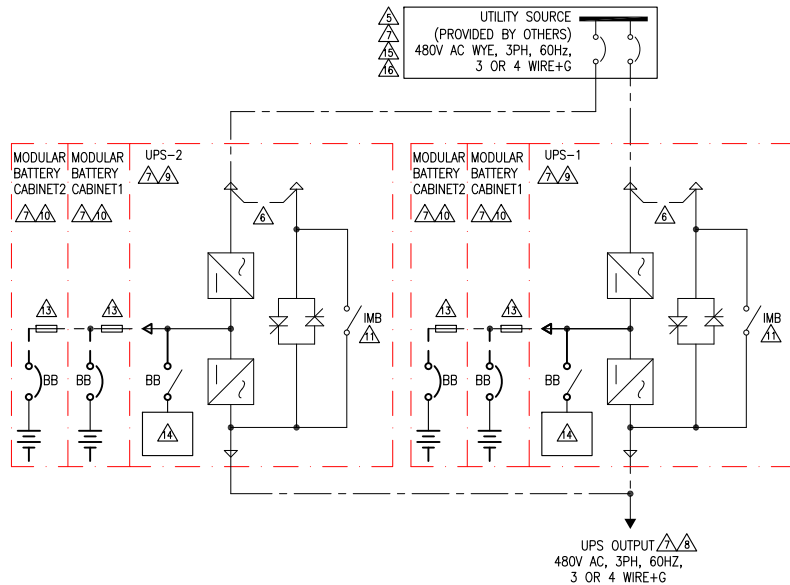
DWG NO: GVS20K0B50GFSIAIO-SD
DRAWN BY: BALA 1-OCT-20
ENGINEER: C B / P J 1-OCT-20

APPROVED BY: C C / S V 1-OCT-20

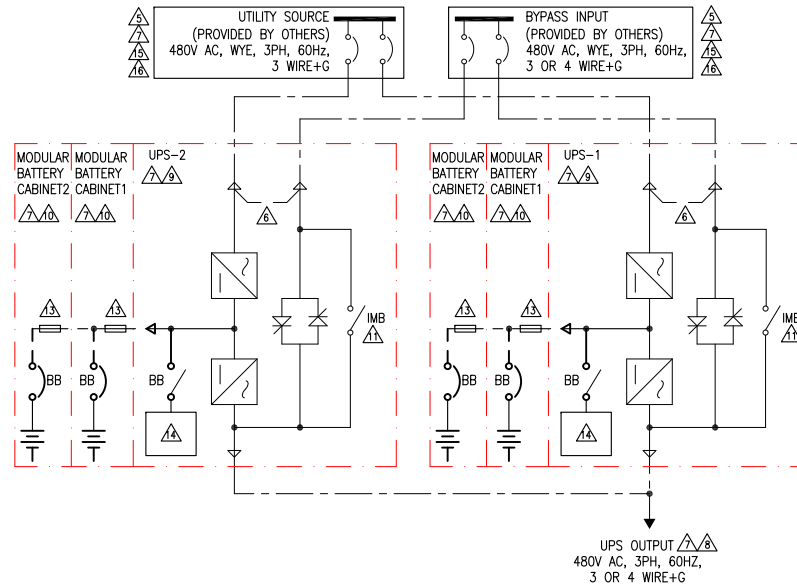
REV. 1
ANGLE
PROJECTION
N. A

1+1 SIMPLIFIED PARALLEL UPS WITH INTERNAL/EXTERNAL BATTERIES

SINGLE MAINS (ADJACENT BATTERY)

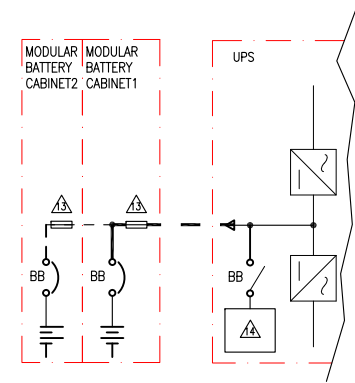


DUAL MAINS (ADJACENT BATTERY)



REMOTE BATTERY-TYPICAL

(REST OF CONNECTIONS
SIMILAR TO ADJACENT BATTERY
EXCEPT BELOW)



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LAYOUT.
4. FINAL SELECTIONS ARE RESPONSIBILITY OF ENGINEER OF RECORDS BASED ON INSTALLED CONDITIONS AND SCC/SELECTIVE CO-ORDINATION/ARC-FLASH ANALYSIS.
- Δ5. IN SINGLE MAINS SYSTEMS: SUPPLY THE UPS FROM A GROUNDED 4-WIRE WYE SERVICE. IN DUAL MAINS SYSTEMS: USE A 4-WIRE SUPPLY FOR THE BYPASS AND A 3-WIRE SUPPLY FOR THE INPUT. BOTH MUST BE WYE SOURCES. DELTA INPUT SUPPLY FOR EITHER INPUT OR BYPASS IS NOT PERMITTED.
- Δ6. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS INSTALLATION.
- Δ7. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-8.
- Δ8. THE NUMBER OF OUTPUT WIRES MUST MATCH THE NUMBER OF INPUT WIRES IN SINGLE MAINS OR BYPASS WIRES FOR DUAL MAINS. OUTPUT OVER-CURRENT PROTECTION MUST BE PROVIDED BY OTHERS.
- Δ9. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=65kA$ RMS SYMMETRICAL. UPS IS PRE-CONFIGURED FOR TNS EARTHING SYSTEM. FOR TN-C/3 WIRE EARTHING SYSTEM CONNECT THE N BUSBAR TO PE BUSBAR AS PER INSTALLATION MANUAL.
- Δ10. APPLICABLE FOR ALL UPSs EXCEPT GVSUPS10KB2FS & GVSUPS20KB2GS. TWO CABINETS SHOWN. MAXIMUM OF FOUR BATTERY CABINETS CAN BE BAYED WITH THE UPS. FOR RUNTIME DETAILS REFER TO BATTERY CABINET INSTALLATION DRAWINGS OR CONTACT SCHNEIDER ELECTRIC.
- Δ11. THE INTERNAL MAINTENANCE BREAKER (IMB) CAN ONLY BE USED IN SINGLE SYSTEMS WITH NO EXTERNAL MAINTENANCE BYPASS BREAKER.
12. CABLE LUGS ARE PROVIDED BY OTHERS EXCEPT FOR ADJACENT BATTERY CABINET INSTALLATION.
- Δ13. REFER TO GVSMODBC6 DRAWING FOR ADDITIONAL DETAILS.
- Δ14. NO INTERNAL BATTERIES ARE PROVIDED WITH THE UPS. SLOTS AVAILABLE FOR A MAX. OF 4 BATTERY STRINGS (GVSBT4) OR (GVSBT4LL).
- Δ15. FOR HRG INSTALLATION REFER TO SHEET-8.
- Δ16. FOR PARALLEL SYSTEMS, UPSTREAM CIRCUIT BREAKER INSTANTANEOUS OVERRIDE (II) VALUES MUST NOT BE SET HIGHER THAN 1250 A.

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Schneider Electric

TITLE: GALAXY VS
Input: 480V AC 3PH 60Hz SINGLE/DUAL FEED
Output: 480V OR 208V AC 3PH 60Hz 20-50kW
1 MOD UPS WITH MBC & BATTERY-TOP ENTRY
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS SHEET 7 OF 8

DWG NO: GVS20K0B50GFSIA0-SD

DRAWN BY: BALA 02-SEP-21

ENGINEER: C B / P J / C A 02-SEP-21

APPROVED BY: C C / S V / C A 02-SEP-21

REV. 2

ANGLE

PROJECTION

N. A

GALAXY VS 20-50KW 480V AC IN/480V AC OUT UPS WITH EMPTY BATTERY SLOTS FOR INTERNAL BATTERIES – SITE PLANNING DATA																				
MAINS INPUT (SINGLE MAINS): 480V AC, 60HZ 3PH, WYE 3 OR 4 WIRE+G						BYPASS INPUT: 480V AC, 60HZ, 3PH, WYE, 3 OR 4WIRE+G OUTPUT: 480V AC, 60HZ, 3PH, 3 OR 4 WIRE+G														
MAINS INPUT (DUAL MAINS): 480V AC, 60HZ 3PH, WYE, 3 WIRE+G						NOMINAL DC VOLTAGE: 480V DC, 40 BLOCKS, 9AH, VRLA 12V														
UPS RATING (kW)	UPS SKU NUMBER	UPS INTERNAL BATTERY STRING		APPLICABLE MAINTENANCE BYPASS CABINET SKU NUMBER (65KA@480V)		APPLICABLE BATTERY CABINET SKU NUMBERS	NOMINAL MAINS INPUT CURRENT (A) @480V AC	MAXIMUM INPUT CURRENT (A) @480V AC	NOMINAL BYPASS INPUT CURRENT		UPS / SYSTEM OUTPUT CURRENT (A) @480V AC	BATTERY CURRENT (40 BLOCKS) (A DC)		UPS WITHOUT MBC – RECOMMENDED UPSTREAM PROTECTION I _r RATING(A) (TR@6I _r IS 0.5 AND I _i (x I _n) IS 1.5) (MAKE: SCHNEIDER ELECTRIC–MODEL HJF36100U31X) ⚠		WALLMOUNT MBP RECOMMENDED UPSTREAM PROTECTION (tr@6 I _r IS 0.5 AND I _i (x I _n) IS 1.5) I _r RATING (A) (MAKE: SCHNEIDER ELECTRIC) 3 POLE BREAKERS ⚠			FLOOR MOUNT MBC RECOMMENDED UPSTREAM PROTECTION (tr@6 I _r IS 0.5 AND I _i (x I _n) IS 1.5) I _r RATING (A) (MAKE: SCHNEIDER ELECTRIC–HJF36100U31X) ⚠	
		MAXIMUM CAPACITY	STRINGS INCLUDED	WALLMOUNT	FLOOR MOUNT				PHASE CURRENT (A) @480V AC	NEUTRAL CURRENT (A) @480V AC		FULL LOAD CURRENT @NOMINAL VOLTAGE (480V DC)	FULL LOAD CURRENT @EOD VOLTAGE (384V DC)	MAINS INPUT	BYPASS INPUT	BREAKER MODEL NUMBER	MAINS INPUT	BYPASS INPUT	MAINS INPUT	BYPASS INPUT
20	GVSUPS20K0B4GS	4	0	GVSBPSU60G–WP	GVSBPSU80G	GVSM0DBC6 (MAXIMUM BATTERY STRING CAPACITY–6)	25	30	24	42	24	43	54	40	35	HJF36100U31X	40	35	40	35
30	GVSUPS30K0B4GS						37	45	36	63	36	65	81	60	50		60	50	60	50
40	GVSUPS40K0B4GS						50	60	49	83	48	87	108	80	70		80	70	80	70
50	GVSUPS50K0B4GS			GVSBPSU60G–WP/ GVSBPSU80G			62	74	61	104	60	108	135	100	80	HJF36150U31X	100	80	100	80

MAINTENANCE BYPASS CABINET (MBC) SWITCHGEAR DETAIL (MAKE: SCHNEIDER ELECTRIC)		
DEVICE ID	MBC TYPE AND SKU NUMBER	
	GVSBP50G–WP (WALLMOUNT)	GVSBP50G (FLOOR MOUNT)
UIB / SSIB	150A 600V AC 3P (HJF36150CU31X)	150A 600V AC 3P (HJF36150CU31X)
MBB / UOB	125A 600V AC 4P (BJF46125)	

GALAXY VS 20–50KW 480V AC IN–208V AC OUT UPS WITH EMPTY BATTERY SLOTS FOR INTERNAL BATTERIES – SYSTEM SITE PLANNING DATA															
MAINS INPUT : 480V AC, 60HZ 3PH, WYE 3 WIRE+G						BYPASS INPUT: 480V AC, 60HZ, 3PH, WYE, 3 WIRE+G OUTPUT: 208V AC, 60HZ, 3PH, 4 WIRE+G									
NOMINAL DC VOLTAGE: 480V DC, 40 BLOCKS, 9AH, VRLA 12V															
UPS RATING (kW)	UPS SKU NUMBER	UPS INTERNAL BATTERY STRING		APPLICABLE MAINTENANCE BYPASS CABINET SKU NUMBER	APPLICABLE BATTERY CABINET SKU NUMBERS	NOMINAL MAINS INPUT CURRENT (A) @480V AC	MAXIMUM INPUT CURRENT T (A) @480V AC	NOMINAL BYPASS INPUT CURRENT		UPS OUTPUT CURRENT (A) @480V AC	SYSTEM OUTPUT CURRENT (A) @208V AC	BATTERY CURRENT (40 BLOCKS) (A DC)		<div><div>⚠</div>RECOMMENDED UPSTREAM PROTECTION I_r RATING(A) (tr@6I_r IS 0.5 AND I_i(X I_n) IS 1.5) (MAKE: SCHNEIDER ELECTRIC–MODEL HJF36100U31X)</div>	
		MAXIMUM CAPACITY	STRINGS INCLUDED					PHASE CURRENT (A) @480V AC	NEUTRAL CURRENT (A) @480V AC			FULL LOAD CURRENT @NOMINAL VOLTAGE (480V DC)	FULL LOAD CURRENT @EOD VOLTAGE (384V DC)		
20	GVSUPS20K0B4GS	4	0	GVSBPOT50B ##	GVSMDBC6 (MAXIMUM BATTERY STRING CAPACITY–6)	25	30	24	42	24	56	43	54	40	35
30	GVSUPS30K0B4GS					37	45	36	62	36	83	65	81	60	50
40	GVSUPS40K0B4GS					50	60	49	83	48	111	87	108	80	70
50	GVSUPS50K0B4GS					62	74	61	104	60	139	108	135	100	80

65KA @480V AC,
TRANSFORMER DETAIL: 60KVA, 600/480V IN– 208V OUT, D–Y, K1

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- △3. FOR PARALLEL SYSTEMS, UPSTREAM CIRCUIT BREAKER INSTANTANEOUS OVERRIDE (II) VALUES MUST NOT BE SET HIGHER THAN 1250 A.

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TITLE: GALAXY VS
Input: 480V AC 3PH 60Hz SINGLE/DUAL FEED
Output: 480V OR 208V AC 3PH 60Hz 20–50kW
10–50kW 1 MOD UPS WITH BATTERY CABINET
BATTERY SOLUTION AND SITE PLANNING
PROJECT: DRAWINGS SHEET 8 OF 8

DWG NO: GVS20K0B50GSAIO–SD REV. 3
DRAWN BY: BALA 02–SEP–21 ANGLE
ENGINEER: C B / P J / C A 02–SEP–21 PROJECTION
APPROVED BY: S V / P T / C A 02–SEP–21 N. A

GALAXY VS IN HIGH–RESISTIVE GROUNDINGS (HRG) INSTALLATIONS

- TO INSTALL A GALAXY VS IN 3–WIRE DELTA HIGH RESISTIVE GROUND (HRG) FACILITY, AN INPUT TRANSFORMER IS NEEDED (DELTA/WYE).
- IN ABSENCE OF TRANSFORMER THE GVS–UPS WILL REPORT NEUTRAL–PHASE SHIFT ERRORS THAT CAN NOT BE CLEARED.
- FOR 480 VAC INPUT, 120/208 VAC OUTPUT INSTALLATIONS, PURCHASE THE 208 VAC VERSION OF THE GALAXY VS AND A STEP–DOWN INPUT TRANSFORMER
- FOR EXISTING HRG INSTALLATION, WHERE 480 VAC INPUT GALAXY VS WITH A 120/208 VAC OUTPUT TRANSFORMER , THEN A 480 VAC DELTA TO 480 VAC WYE INPUT TRANSFORMER NEEDS TO BE ADDED.