

DRAWING GUIDE				
SYSTEM INPUT VOLTAGE	SYSTEM OUTPUT VOLTAGE	SYSTEM CABLE ENTRY	DESCRIPTION	REFERENCE SHEETS
480V AC	480V AC	BOTTOM	1 MODULE UPS WITHOUT MBC	2 & 10
		BOTTOM	2 MODULE (N+1) UPS WITHOUT MBC	3 & 10
		BOTTOM	1 MODULE UPS WITH WALLMOUNT MBC	4 & 10
		BOTTOM	1 MODULE UPS WITH FLOORMOUNT MBC	5 & 10
		TOP	1 MODULE UPS WITH FLOORMOUNT MBC WITHOUT CONDUIT BOX	6 & 10
		TOP/ BOTTOM	1 MODULE UPS WITH FLOORMOUNT MBC WITH CONDUIT BOX	6 & 10
	208V AC	TOP/ BOTTOM	1 MODULE UPS WITH FLOORMOUNT MBC+OUTPUT XFMR-SINGLE MAINS	8 , 10 & 11
		TOP/ BOTTOM	1 MODULE UPS WITH FLOORMOUNT MBC+OUTPUT XFMR-DUAL MAINS	9 , 10 & 11
480V AC	480V AC	TOP/ BOTTOM	SITE PLANNING DATA WITH MBC WITHOUT XFMR + BATTERY SOLUTION DETAILS	10
480V AC	208V AC	TOP/ BOTTOM	SITE PLANNING DATA WITH MBC+ OUTPUT XFMR	11

CONTENTS IN THIS DRAWING ARE ALSO VALID FOR "TAA" SKUs ENDING WITH "US".
 EXAMPLE : CONTENTS APPLICABLE FOR "GVSUPS20KGS" ARE VALID FOR "TAA" SKU "GVSUPS20KGSUS" ALSO.

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TITLE: GALAXY VS
 Input: 480V AC 3PH, 60Hz, SINGLE/DUAL FEED
 Output: 480V AC 3PH 60Hz, 20-150kW
 UPS WITH BATTERY AND MBC
 SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS SHEET 1 OF 11

DWG NO: GVSUPS20K150GFS-SD

DRAWN BY: BALA 4-NOV-20

ENGINEER: C N/ J L 4-NOV-20

APPROVED BY: P J / S V 4-NOV-20

REV. 2

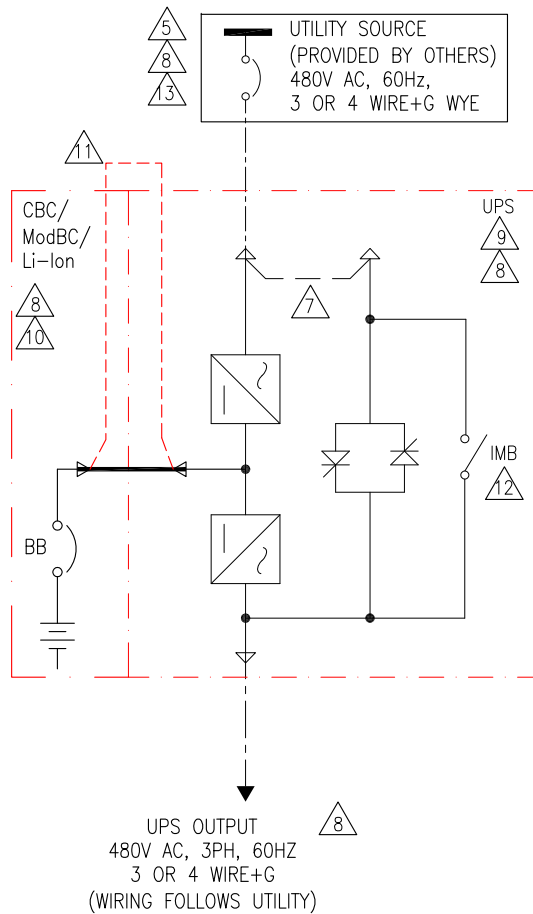
ANGLE

PROJECTION

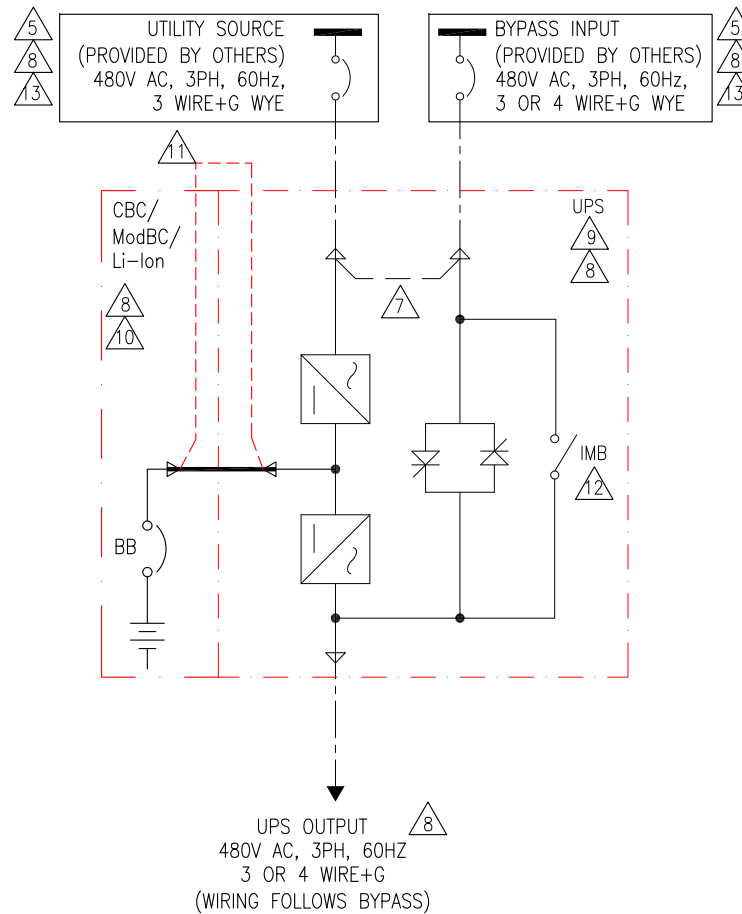
N.A

1 MODULE UPS BOTTOM ENTRY WITH BATTERY CABINET

SINGLE MAINS (ADJACENT BATTERY)

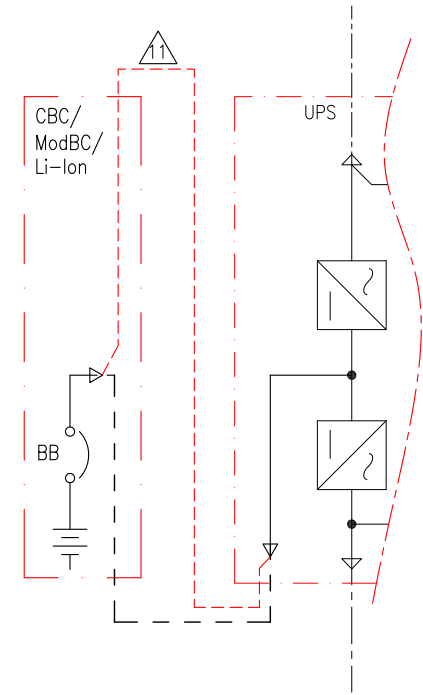


DUAL MAINS (ADJACENT BATTERY)



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. THE SUPPLY FOR INPUT AND BYPASS MUST BE SOLID-GROUNDED WYE TRANSFORMERS. DELTA INPUTS FOR EITHER INPUT OR BYPASS IS NOT PERMITTED. THE UPS SYSTEM MUST BE INSTALLED AS SEPARATELY DERIVED SYSTEM. LEAKAGE CURRENTS WILL OCCUR IN THE BONDING JUMPER AND THE TECHNICAL/SYSTEM EARTH.
6. CABLE LUGS ARE PROVIDED BY OTHERS.
7. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS APPLICATION.
8. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-10.
9. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=65ka$ RMS SYMMETRICAL.
10. ONE CABINET SHOWN. REFER TO SHEET-9 FOR MAXIMUM APPLICABLE NUMBER OF CABINETS FOR VARIOUS RATINGS. FOR RUNTIME DETAILS REFER TO BATTERY CABINET INSTALLATION DRAWINGS OR CONTACT SCHNEIDER ELECTRIC.
11. APPLICABLE AND ONLY POSSIBLE CABLE ROUTING FOR Li-Ion BATT. CABINET.
12. THE INTERNAL MAINTENANCE BREAKER (IMB) CAN ONLY BE USED IN SINGLE SYSTEMS WITH NO EXTERNAL MAINTENANCE BYPASS BREAKER.
13. FOR HRG INSTALLATIONS REFER TO SHEET-10.

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Schneider Electric

TITLE: GALAXY VS
Input: 480V AC 3PH, 60Hz, SINGLE/DUAL FEED
Output: 480V AC 3PH 60Hz, 20-150kW
UPS WITH BATTERY AND MBC
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS SHEET 2 OF 11

DWG NO: GVSUPS20K150GFS-SD

DRAWN BY: BALA 28-SEP-20

ENGINEER: C N/ J L 1-OCT-20

APPROVED BY: P J/ S V 1-OCT-20

REV. 1

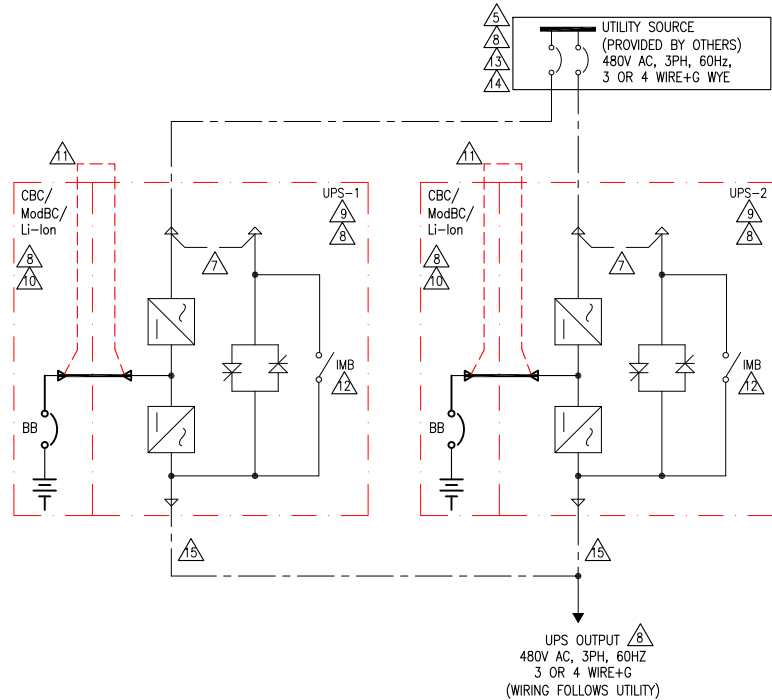
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PROJECTION

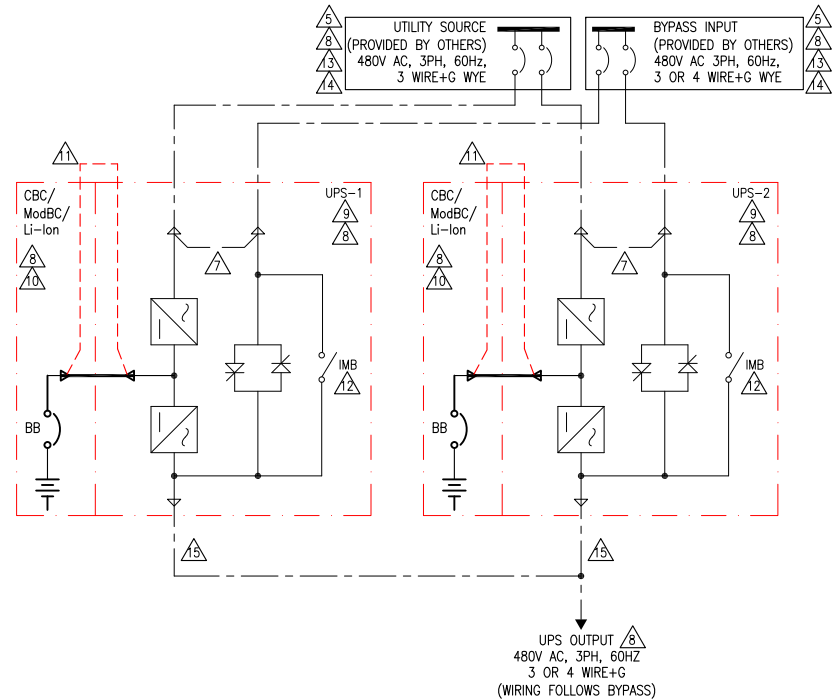
N. A

2 MODULE (N+1) UPS BOTTOM ENTRY WITH BATTERY CABINET

SINGLE MAINS (ADJACENT BATTERY)

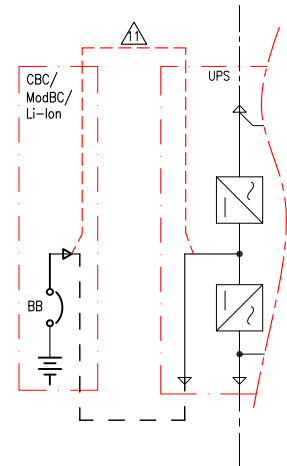


DUAL MAINS (ADJACENT BATTERY)



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. THE SUPPLY FOR INPUT AND BYPASS MUST BE SOLID-GROUNDED WYE TRANSFORMERS. DELTA INPUTS FOR EITHER INPUT OR BYPASS IS NOT PERMITTED. THE UPS SYSTEM MUST BE INSTALLED AS SEPARATELY DERIVED SYSTEM. LEAKAGE CURRENTS WILL OCCUR IN THE BONDING JUMPER AND THE TECHNICAL/SYSTEM EARTH.
6. CABLE LUGS ARE PROVIDED BY OTHERS.
7. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS APPLICATION.
8. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-10.
9. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=65ka$ RMS SYMMETRICAL.
10. ONE CABINET SHOWN. REFER TO SHEET-9 FOR MAXIMUM APPLICABLE NUMBER OF CABINETS FOR VARIOUS RATINGS. FOR RUNTIME DETAILS REFER TO BATTERY CABINET INSTALLATION DRAWINGS OR CONTACT SCHNEIDER ELECTRIC.
11. APPLICABLE AND ONLY POSSIBLE CABLE ROUTING FOR Li-Ion BATT. CABINET.
12. THE INTERNAL MAINTENANCE BREAKER (IMB) CAN NOT BE USED WITH A PARALLEL SYSTEM.
13. FOR HRC INSTALLATIONS REFER TO SHEET-10.
14. FOR PARALLEL SYSTEMS, UPSTREAM CIRCUIT BREAKER INSTANTANEOUS OVERRIDE (II) VALUES MUST NOT BE SET HIGHER THAN 1250 A.
15. FOR PARALLEL SYSTEM WITH TWO OR MORE UPS'S OF RATING 150kW, A CIRCUIT BREAKER MUST BE INSTALLED ON THE OUTPUT OF EACH UPS. THE INSTANTANEOUS OVERRIDE (II) VALUES OF UNIT OUTPUT BREAKER (UOB) MUST NOT BE SET HIGHER THAN 1250 A.

LEGEND:

- AC CABLE (PROVIDED BY OTHERS)
- 500VDC CABLE (PROVIDED BY OTHERS)
- 500V DC CABLE -FOR CBC- Classic Battery Cabinet /ModBC- Modular Battery Cabinet-PROVIDED BY Schneider Electric)
- DC CABLE -FOR Li-Ion BATTERIES CABLING SHALL BE PROVIDED BY OTHERS

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Schneider Electric

TITLE: GALAXY VS
Input: 480V AC 3PH, 60Hz, SINGLE/DUAL FEED
Output: 480V AC 3PH 60Hz, 20-150kW
UPS WITH BATTERY AND MBC
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS SHEET 3 OF 11

DWG NO: GVSUPS20K150GFS-SD

DRAWN BY: BALA 01-SEP-21

ENGINEER: C N / J L / C A 02-SEP-21

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

REV. 2

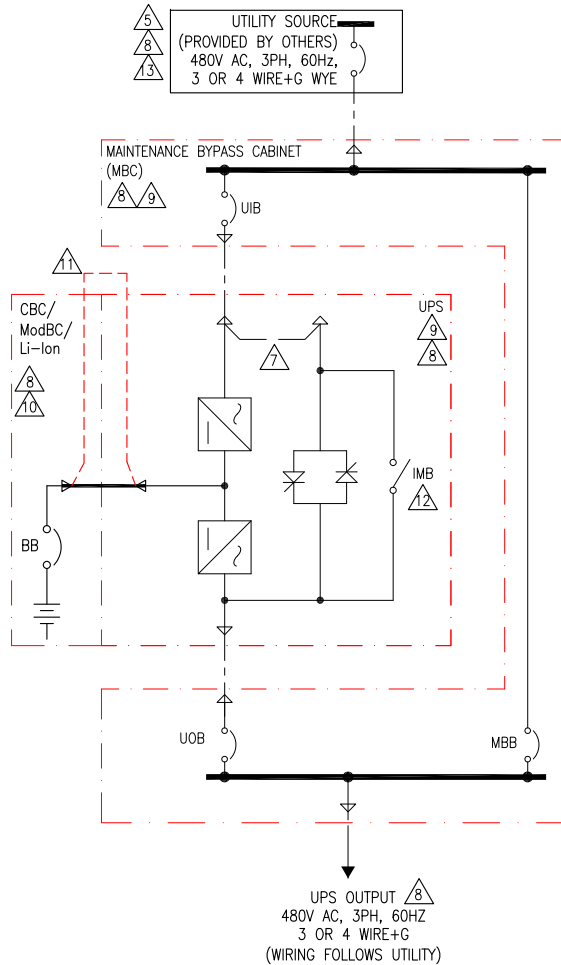
ANGLE

PROJECTION

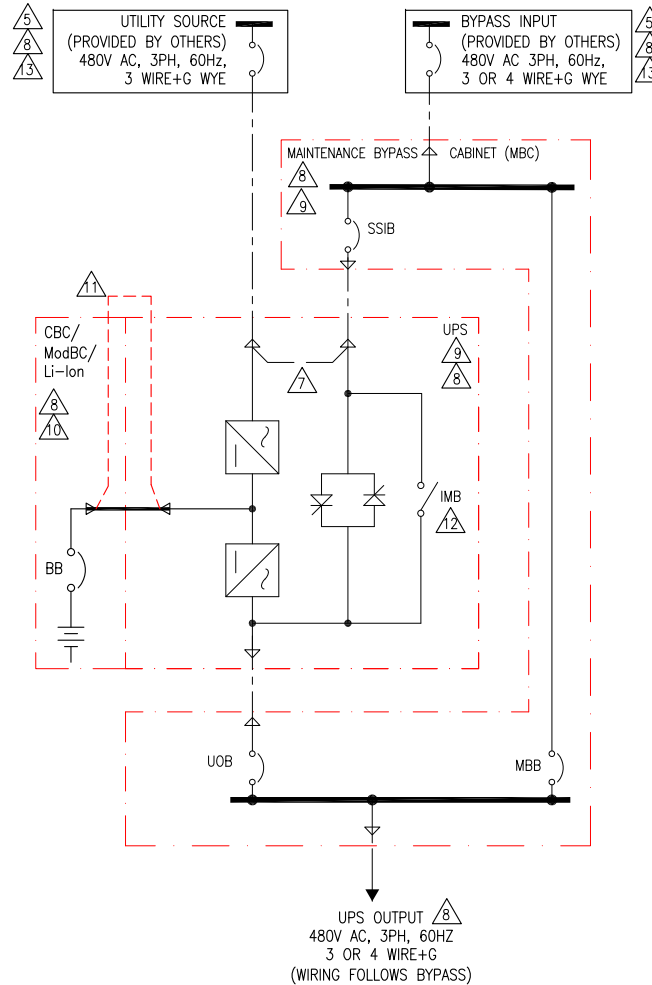
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1 MODULE UPS BOTTOM ENTRY WITH BATTERY AND WALLMOUNT MBC

SINGLE MAINS (ADJACENT BATTERY)

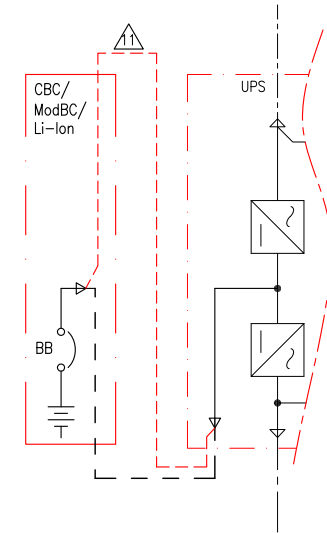


DUAL MAINS (ADJACENT BATTERY)



REMOTE BATTERY-TYPICAL

(REST OF CONNECTIONS
SIMILAR TO ADJACENT BATTERY
EXCEPT BELOW)



- NOTES:**
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 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. THE SUPPLY FOR INPUT AND BYPASS MUST BE SOLID-GROUNDED WYE TRANSFORMERS. DELTA INPUTS FOR EITHER INPUT OR BYPASS IS NOT PERMITTED. THE UPS SYSTEM MUST BE INSTALLED AS SEPARATELY DERIVED SYSTEM. LEAKAGE CURRENTS WILL OCCUR IN THE BONDING JUMPER AND THE TECHNICAL/SYSTEM EARTH.
 6. CABLE LUGS ARE PROVIDED BY OTHERS.
 7. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS APPLICATION.
 8. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-10.
 9. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=65\text{ kA RMS SYMMETRICAL}$.
 10. ONE CABINET SHOWN. REFER TO SHEET-9 FOR MAXIMUM APPLICABLE NUMBER OF CABINETS FOR VARIOUS RATINGS. FOR RUNTIME DETAILS REFER TO BATTERY CABINET INSTALLATION DRAWINGS OR CONTACT SCHNEIDER ELECTRIC.
 11. APPLICABLE AND ONLY POSSIBLE CABLE ROUTING FOR LI-LON BATT. CABINET.
 12. THE INTERNAL MAINTENANCE BREAKER (IMB) CAN NOT BE USED WITH EXTERNAL MAINTENANCE BYPASS BREAKER.
 13. FOR HRG INSTALLATIONS REFER TO SHEET-10.

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Schneider Electric

TITLE: GALAXY VS
Input: 480V AC 3PH, 60Hz, SINGLE/DUAL FEED
Output: 480V AC 3PH 60Hz, 20-150kW
UPS WITH BATTERY AND MBC
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS **SHEET:** 4 OF 11

DWG NO: GVSUPS20K150GFS-SD

DRAWN BY: BALA **28-SEP-20**

ENGINEER: C N / J L **1-OCT-20**

APPROVED BY: P J / S V **1-OCT-20**

REV. 1

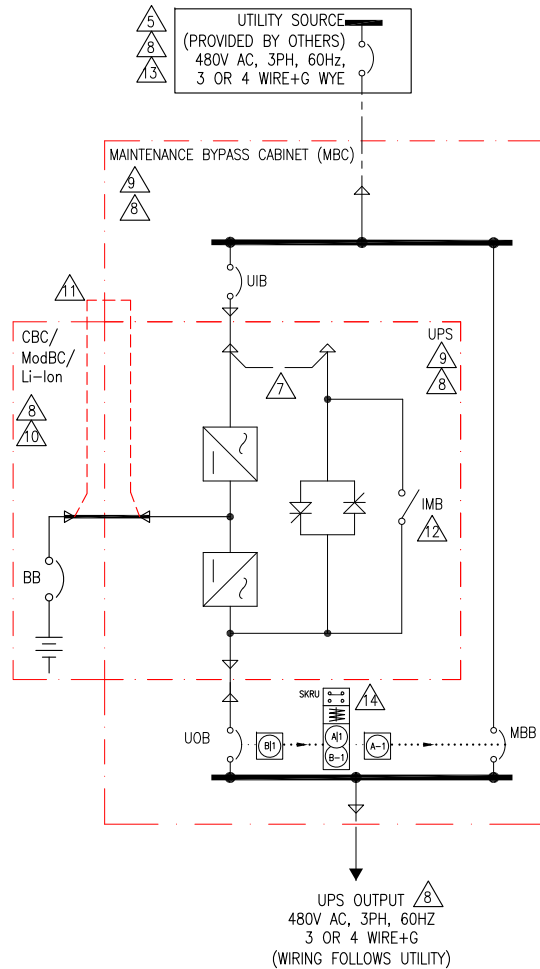
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PROJECTION

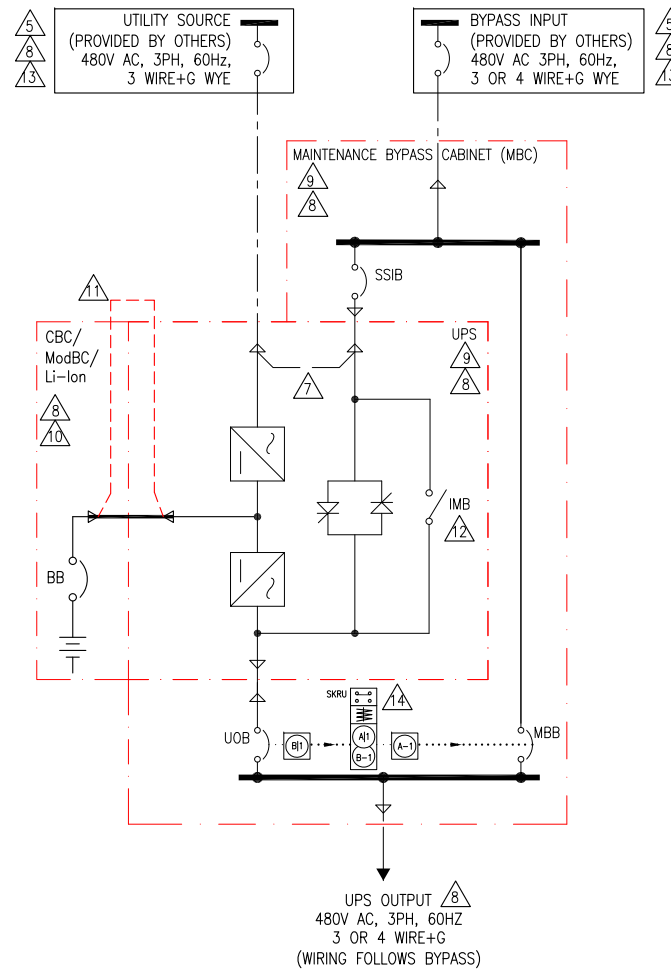
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1 MODULE UPS BOTTOM ENTRY WITH BATTERY AND MBC

SINGLE MAINS (ADJACENT BATTERY)

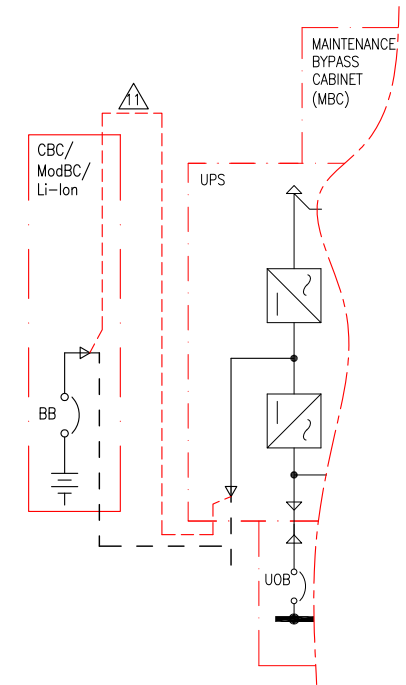


DUAL MAINS (ADJACENT BATTERY)



REMOTE BATTERY-TYPICAL

(REST OF CONNECTIONS
SIMILAR TO ADJACENT BATTERY
EXCEPT BELOW)



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 6. CABLE LUGS ARE PROVIDED BY OTHERS.
 7. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS APPLICATION.
 8. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-10.
 9. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=65\text{ kA RMS SYMMETRICAL}$.
 10. ONE CABINET SHOWN. REFER TO SHEET-9 FOR MAXIMUM APPLICABLE NUMBER OF CABINETS FOR VARIOUS RATINGS. FOR RUNTIME DETAILS REFER TO BATTERY CABINET INSTALLATION DRAWINGS OR CONTACT SCHNEIDER ELECTRIC.
 11. APPLICABLE AND ONLY POSSIBLE CABLE ROUTING FOR LI-LON BATT. CABINET.
 12. THE INTERNAL MAINTENANCE BREAKER (IMB) CAN NOT BE USED WITH EXTERNAL MAINTENANCE BYPASS BREAKER.
 13. FOR HRG INSTALLATIONS REFER TO SHEET-10.
 14. KIRK KEY INTERLOCK WITH SKRU SCHEME 39 BETWEEN MBB AND UOB IS OPTIONAL (SKU# GVSOPT004).

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Schneider Electric

TITLE: GALAXY VS
Input: 480V AC 3PH, 60Hz, SINGLE/DUAL FEED
Output: 480V AC 3PH 60Hz, 20-150kW
UPS WITH BATTERY AND MBC
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS **SHEET** 5 OF 11

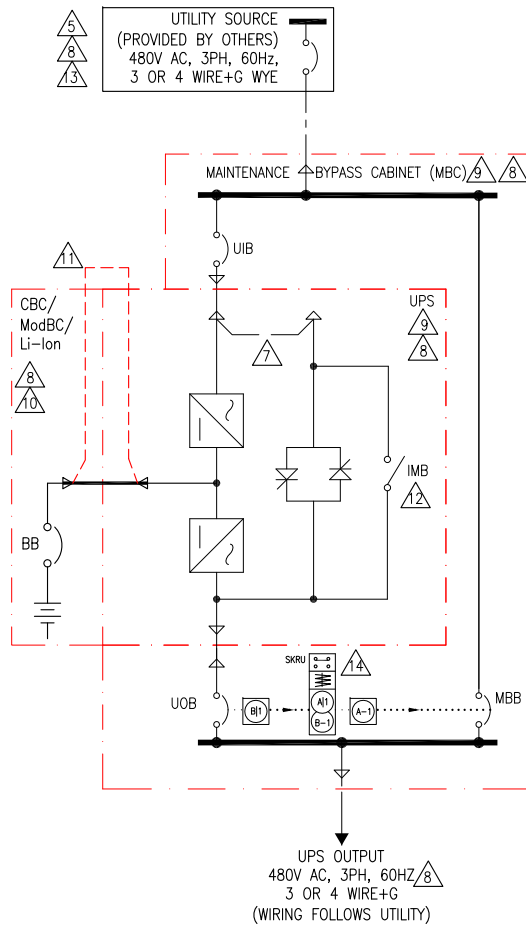
DWG NO: GVSUPS20K150GFS-SD
DRAWN BY: BALA
ENGINEER: C N / J L
APPROVED BY: P J / S V

REV. 1
DATE: 28-SEP-20
PROJECT: ANGLE
PROJECTION: 1-OCT-20
SCALE: N.A.

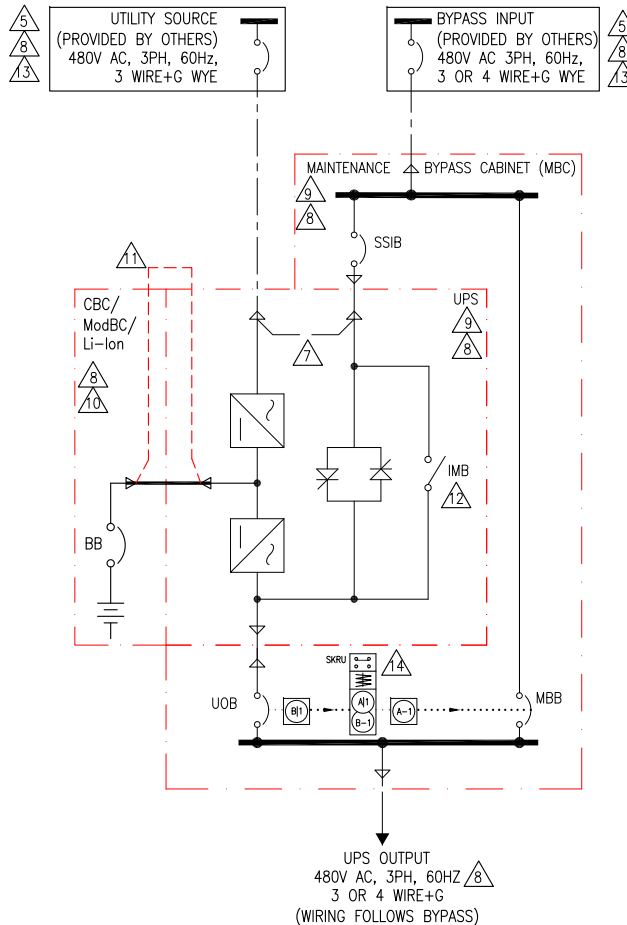
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1 MODULE UPS TOP ENTRY WITH BATTERY AND MBC (WITH CONDUIT BOX)

SINGLE MAINS (ADJACENT BATTERY)

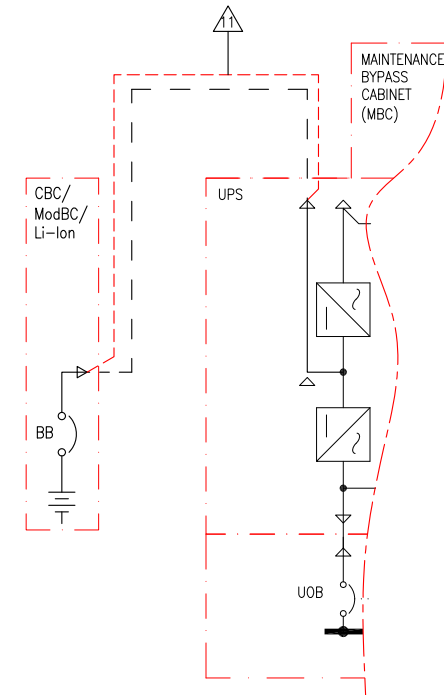


DUAL MAINS (ADJACENT BATTERY)



REMOTE BATTERY-TYPICAL

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 12. THE INTERNAL MAINTENANCE BREAKER (IMB) CAN NOT BE USED WITH EXTERNAL MAINTENANCE BYPASS BREAKER.
 13. FOR HRG INSTALLATIONS REFER TO SHEET-10.
 14. KIRK KEY INTERLOCK WITH SKRU SCHEME 39 BETWEEN MBB AND UOB IS OPTIONAL (SKU# GVSOPT004).

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Schneider Electric

TITLE: GALAXY VS
Input: 480/600V AC 3PH, 60Hz, SINGLE FEED
Output: 480V AC 3PH 60Hz, 20-150kW
UPS WITH BATTERY AND MBC
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS **SHEET** 7 OF 11

DWG NO: GVSUPS20K150GFS-SD

DRAWN BY: BALA **28-SEP-20**

ENGINEER: C N/ J L **1-OCT-20**

APPROVED BY: P J/ S V **1-OCT-20**

REV. 1

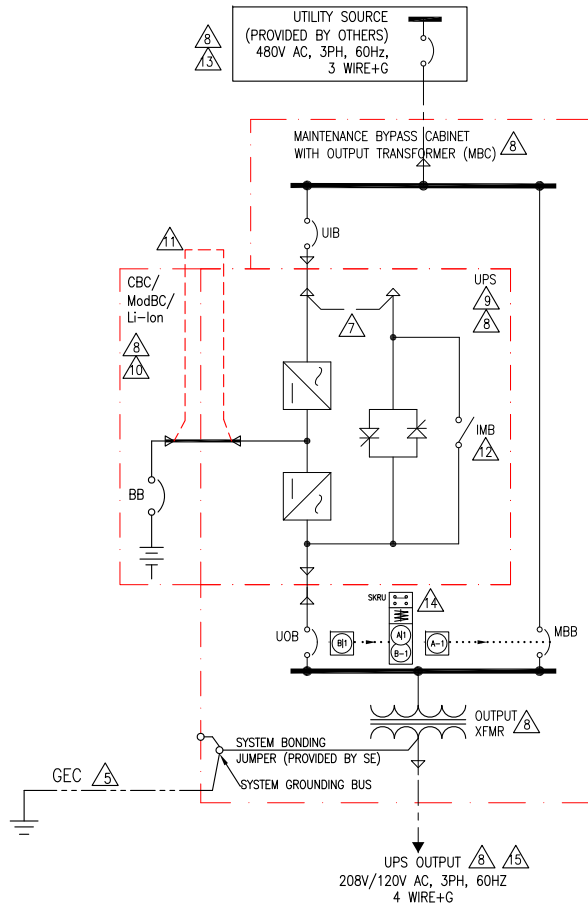
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PROJECTION

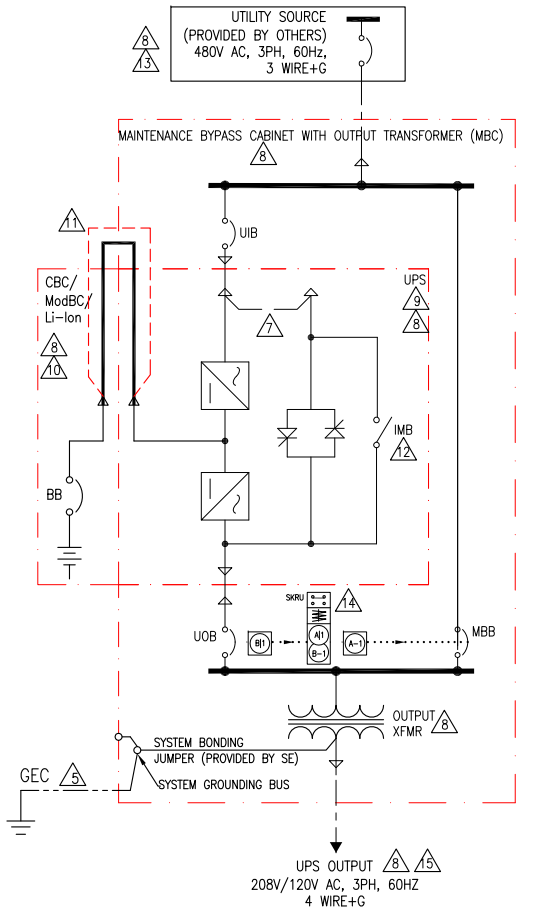
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1 MODULE UPS WITH BATTERY AND MAINTENANCE BYPASS CABINET WITH OUTPUT TRANSFORMER

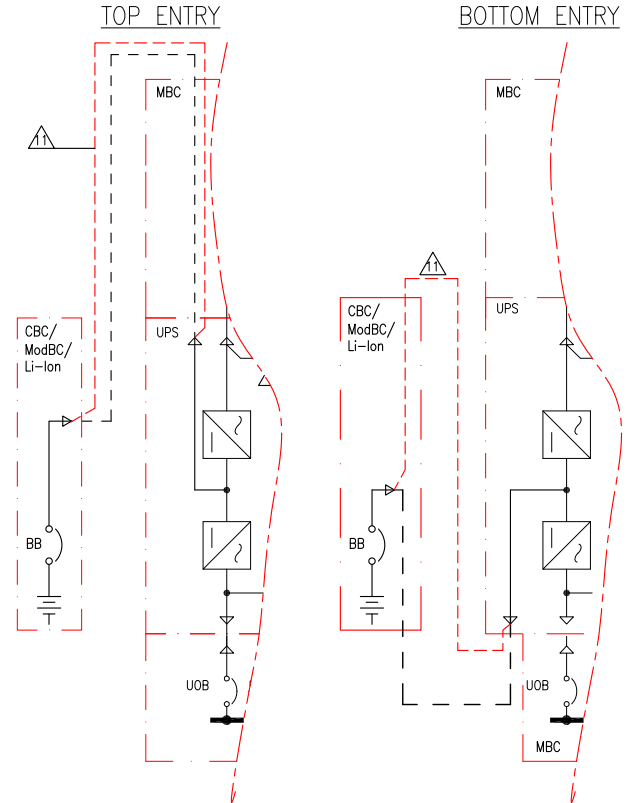
BOTTOM ENTRY SINGLE MAINS (ADJACENT BATTERY)



TOP ENTRY SINGLE MAINS (ADJACENT BATTERY)



REMOTE BATTERY-TYPICAL (REST OF CONNECTIONS SIMILAR TO ADJACENT BATTERY EXCEPT BELOW)



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4. FINAL SELECTIONS ARE RESPONSIBILITY OF ENGINEER OF RECORDS BASED ON INSTALLED CONDITIONS AND SCC/SELECTIVE CO-ORDINATION/ARC-FLASH ANALYSIS.
5. 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.
6. CABLE LUGS ARE PROVIDED BY OTHERS.
7. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS APPLICATION.
8. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-10&11.
9. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=65\text{ka}$ RMS SYMMETRICAL.
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12. THE INTERNAL MAINTENANCE BREAKER (IMB) CAN NOT BE USED WITH EXTERNAL MAINTENANCE BYPASS BREAKER.
13. FOR HRG INSTALLATIONS REFER TO SHEET-10.
14. KIRK KEY INTERLOCK WITH SKRU SCHEME 39 BETWEEN MBB AND UOB IS OPTIONAL (SKU# GVSOPT007).
15. THE OUTPUT NEUTRAL IS BONDED TO GROUND.

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Schneider Electric

TITLE: GALAXY VS
Input: 480V AC 3PH, 60Hz, SINGLE FEED
Output: 480V AC 3PH 60Hz, 20-150kW
UPS WITH BATTERY AND MBC
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS SHEET 8 OF 11

DWG NO: GVSUPS20K150GFS-SD

DRAWN BY: BALA 28-SEP-20

ENGINEER: C N/ J L 1-OCT-20

APPROVED BY: P J/ S V 1-OCT-20

REV. 1

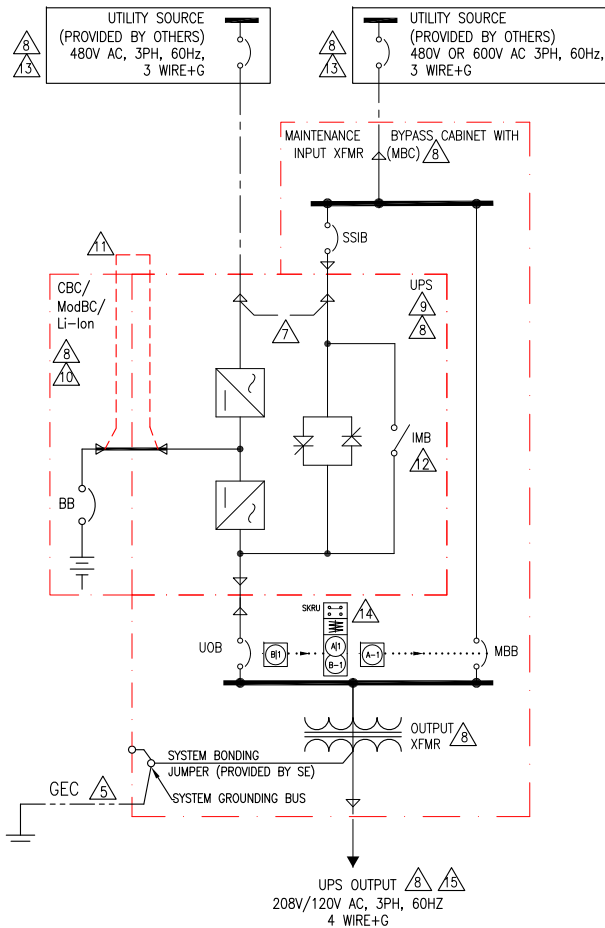
ANGLE

PROJECTION

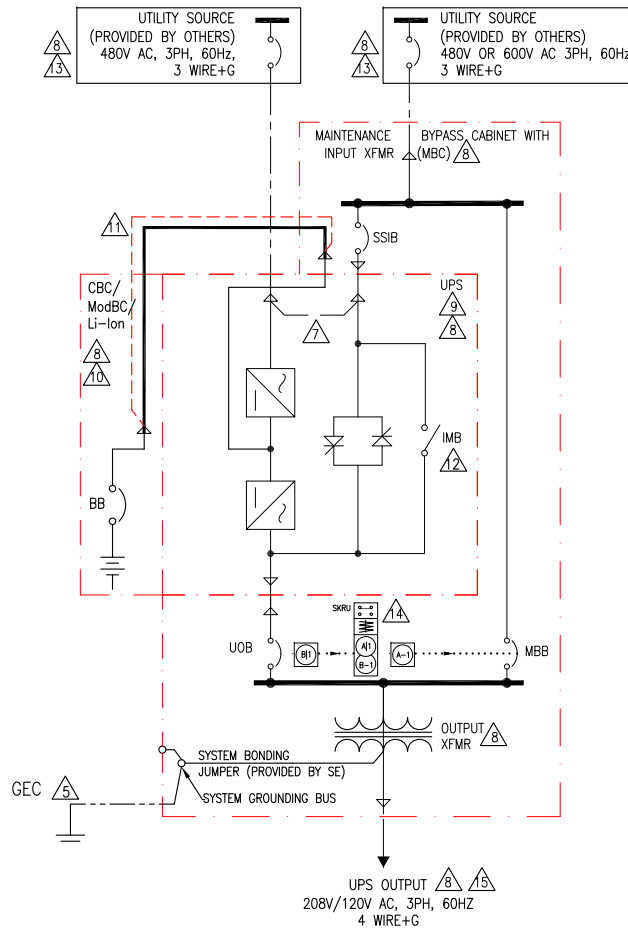
N. A

1 MODULE UPS WITH BATTERY AND MAINTENANCE BYPASS CABINET WITH OUTPUT TRANSFORMER

BOTTOM ENTRY DUAL MAINS (ADJACENT BATTERY)



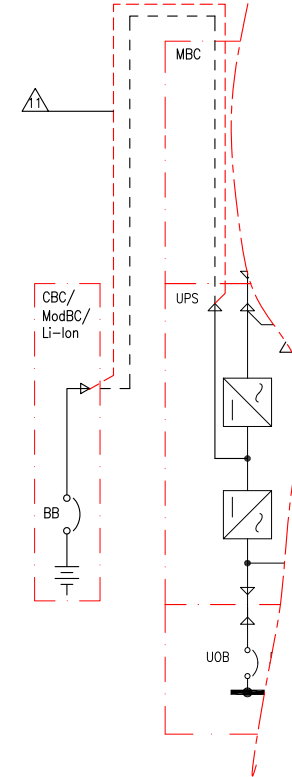
TOP ENTRY DUAL MAINS (ADJACENT BATTERY)



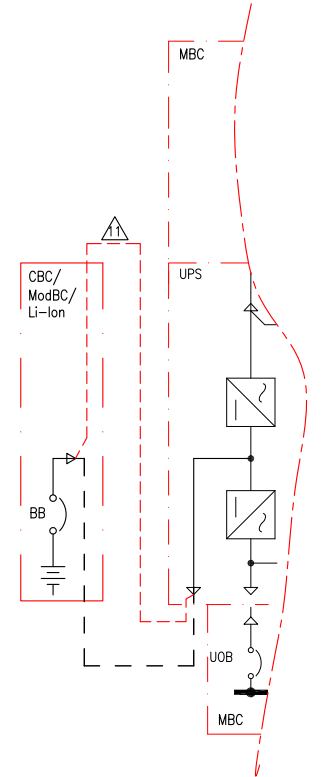
REMOTE BATTERY-TYPICAL

(REST OF CONNECTIONS SIMILAR TO ADJACENT BATTERY EXCEPT BELOW)

TOP ENTRY



BOTTOM ENTRY



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. 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.
6. CABLE LUGS ARE PROVIDED BY OTHERS.
7. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS APPLICATION.
8. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-10&11.
9. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=65\text{ka}$ RMS SYMMETRICAL.
10. ONE CABINET SHOWN. REFER TO SHEET-9 FOR MAXIMUM APPLICABLE NUMBER OF CABINETS FOR VARIOUS RATINGS. FOR RUNTIME DETAILS REFER TO BATTERY CABINET INSTALLATION DRAWINGS OR CONTACT SCHNEIDER ELECTRIC.
11. APPLICABLE AND ONLY POSSIBLE CABLE ROUTING FOR LI-Ion BATT. CABINET.
12. THE INTERNAL MAINTENANCE BREAKER (IMB) CAN NOT BE USED WITH EXTERNAL MAINTENANCE BYPASS BREAKER.
13. FOR HRC INSTALLATIONS REFER TO SHEET-10.
14. KIRK KEY INTERLOCK WITH SKRU SCHEME 39 BETWEEN MBB AND UOB IS OPTIONAL (SKU# GVSOPT007).
15. THE OUTPUT NEUTRAL IS BONDED TO GROUND.

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Schneider Electric

LEGEND:

- AC CABLE (PROVIDED BY OTHERS)
- 500VDC CABLE (PROVIDED BY OTHERS)
- 500V DC CABLE -FOR CBC- Classic Battery Cabinet /ModBC- Modular Battery Cabinet-PROVIDED BY Schneider Electric
- DC CABLE -FOR LI-Ion BATTERIES CABLING SHALL BE PROVIDED BY OTHERS

TITLE: GALAXY VS
Input: 480V AC 3PH, 60Hz, SINGLE FEED
Output: 480V AC 3PH 60Hz, 20-150kW
UPS WITH BATTERY AND MBC
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS SHEET 9 OF 11

DWG NO: GVSUPS20K150GFS-SD

DRAWN BY: BALA 28-SEP-20

ENGINEER: C N/ J L 1-OCT-20





APPROVED BY: P J/ S V 1-OCT-20

REV. 1

ANGLE






PROJECTION

N. A

GALAXY VS 20-150KW 480V AC IN/480V AC OUT UPS WITH/WITHOUT MBC (WITHOUT XFMR) SITE PLANNING DATA														
MAINS INPUT (SINGLE MAINS): 480V AC, 60HZ 3PH 3 OR 4 WIRE+G						BYPASS INPUT: 480V AC, 60HZ, 3 OR 4 WIRE+G								
MAINS INPUT (DUAL MAINS): 480V AC, 60HZ 3PH 3 WIRE+G WYE						OUTPUT: 480V AC, 60HZ, 3 OR 4 WIRE+G								
SKU NUMBER	UPS RATING (kW)	APPLICABLE WALLMOUNT MBC SKU NUMBER WITHOUT XFMR	APPLICABLE FLOORMOUNT MBC SKU NUMBER WITHOUT XFMR	NOMINAL MAINS INPUT CURRENT (NO CHARGING) (A)	NOMINAL MAINS INPUT CURRENT (FULL CHARGING) (A)	NOMINAL BYPASS INPUT CURRENT		UPS / SYSTEM OUTPUT CURRENT (A)	NOMINAL BATTERY VOLTAGE (V DC) 	BATTERY CURRENT*** (A DC)		RECOMMENDED UPSTREAM PROTECTION (MAKE: SCHNEIDER ELECTRIC) Ir / PART NUMBER (Ir IS 0.5 AND Ii (x In) IS  7.5)		
						PHASE CURRENT (A)	NEUTRAL CURRENT (A)			@FULL LOAD CURRENT & NOMINAL BATTERY VOLTAGE	@FULL LOAD CURRENT & MINIMUM BATTERY VOLTAGE	MAINS INPUT	BYPASS INPUT	
GVSUPS20KGS	20	GVSBPSU60G-WP	GVSBPSU80G	25	30	24	42	24	32-48 BLOCKS: 384-576	54	68	40/ HJF36100U31X	35/ HJF36100U31X	
GVSUPS30KGS	30			37	45	36	62	36		81	101	60/ HJF36100U31X	50/ HJF36100U31X	
GVSUPS40KGS	40			50	60	49	83	48		108	135	80/ HJF36100U31X	70/ HJF36100U31X	
GVSUPS50KGS	50			62	74	61	104	60	40-48 BLOCKS: 480-576	108	135	100/ HJF36100U31X	80/ HJF36100U31X	
GVSUPS60KGS	60			74	89	73	125	72	35-48 BLOCKS: 420-576	130	162	125/ HJF36150U31X	100/ HJF36100U31X	
GVSUPS80KGS	80	GVSBPSU100G-WP	GVSBPSU150G	99	119	97	166	96	32-48 BLOCKS: 384-576	173	216	175/ JJF36250U31X	125/ HJF36150U31X	
GVSUPS100KGS	100			124	149	121	208^^	120	40-48 BLOCKS: 480-576	216	270	200/ JJF36250U31X	175/ JJF36250U31X	
GVSUPS120KGS	120	N A		149	179	146	208^^	144		260	325	250/ JJF36250CU31X	200/ JJF36250CU31X	
GVSUPS150KGS	 150			186	223	182	208^^	180		326	406	300/ LJF36400U31X	250/ JJF36250U31X	
GVSUPS50K150GS	 9	**		** 50KW UPS EXPANDABLE TO 60/80/100/120/150KW (REFER TO THE RESPECTIVE ROW BASED ON THE EXPANSION)								300/ LJF36400U31X	250/ JJF36250U31X	

^^ HARMONIC CURRENTS IN NEUTRAL ARE ONLY CONSIDERED TO BE 1.73X UP TILL 100KW. ABOVE 100KW ONLY RESISTIVE LOAD IS CONSIDERED.

*** VALUES BASED ON 20/30/40/80kW : 32 BLOCKS, 60kW: 35 BLOCKS, 50/100/120/150kW : 40 BLOCKS

GALAXY VS 20-150KW UPS APPLICABLE BATTERY DETAILS 													
MAINS INPUT (SINGLE MAINS): 480V AC, 60HZ 3PH 3 OR 4 WIRE+G BYPASS INPUT: 480V AC, 60HZ, 3 OR 4 WIRE+G MAINS INPUT (DUAL MAINS): 480V AC, 60HZ 3PH 3 WIRE+G WYE OUTPUT: 480V AC, 60HZ, 3 OR 4 WIRE+G													
SKU NUMBER	UPS RATING (kW)	LI-ION BATTERY CABINET (SKU# LIBSMG95EUL/ LIBSMG95EUL1PH) (LI-LON) 	(ModBC) NUMBER OF APPLICABLE (MIN-MAX) MODULAR BATTERY CABINETS) (GVSMODBC6) (BREAKER-150A 3POLE, JDF36150- MAKE: SCHNEIDER ELECTRIC)	CLASSIC BATTERY CABINET (CBC) (MINIMUM-MAXIMUM NUMBER OF APPLICABLE BATTERY CABINETS)							NOMINAL BATTERY VOLTAGE (V DC) 	BATTERY CURRENT (A DC)	
		MINIMUM AND MAXIMUM NUMBER OF APPLICABLE BATTERY CABINETS		GVSCBT1/ GVSCBT1ST	GVSCBT2/ GVSCBT2ST	GVSCBT3/ GVSCBT3ST	GVSCBT4/ GVSCBT4ST	GVSCBT5/ GVSCBT5ST	GVSCBT6ST	GVSCBT7ST		FULL LOAD CURRENT & NOMINAL BATTERY VOLTAGE	FULL LOAD CURRENT & MINIMUM BATTERY VOLTAGE
GVSUPS20KGS	20	1 - 4	1 - 4	1-2	1-2	1-2	1-2	1-2	1-5	NA	32-48 BLOCKS: 384-576	54	68
GVSUPS30KGS	30		1 - 4	1-2	1-2	1-2	1-2	1-2	1-5	NA		81	101
GVSUPS40KGS	40		1 - 4	1-2	1-2	1-2	1-2	1-2	1-2	NA		108	135
GVSUPS50KGS	50		1 - 4	NA	1-2	1-2	1-2	1-2	1-5	NA	40-48 BLOCKS: 480-576	108	135
GVSUPS60KGS	60		2 - 4	NA	1-2	1-2	1-2	1-2	1-5	NA	35-48 BLOCKS: 420-576	130	162
GVSUPS80KGS	80		2 - 4	NA	NA	NA	1-2	1-2	1-5	NA	32-48 BLOCKS: 384-576	173	216
GVSUPS100KGS	100		2 - 4	NA	NA	NA	1-2	1-2	1-5	NA	40-48 BLOCKS: 480-576	216	270
GVSUPS120KGS	120		3 - 4	NA	NA	NA	NA	NA	NA	1-5		260	325
GVSUPS150KGS	 150		3 - 4	NA	NA	NA	NA	NA	NA	1-5		326	406
GVSUPS50K150GS		**	** 50KW UPS EXPANDABLE TO 60 / 80 / 100 / 120 / 150KW (REFER TO THE RESPECTIVE ROW BASED ON THE EXPANSION)									326	406

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. FINAL SELECTIONS ARE RESPONSIBILITY OF ENGINEER OF RECORDS BASED ON INSTALLED CONDITIONS AND SCC/SELECTIVE CO-ORDINATION/ ARC-FLASH ANALYSIS.
- △4. FOR RUNTIME DETAILS REFER TO TECHNICAL SPECIFICATIONS/MANUALS OR CONTACT SCHNEIDER ELECTRIC.
- △5. WHEN USING 48 BLOCKS, SPLIT STRING IS MANDATORY.
- △6. FOR DETAILS OF SKU# LIBSMG95EUL-OR -LIBSMG95EUL1PH, REFER TO DRAWING #LIBSMG95EUL1PH-LIBSMG95EUL-GVS-GA.

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TITLE:	GALAXY VS Input: 480V AC 3PH, 60Hz, SINGLE/DUAL FEED Output: 480V AC 3PH 60Hz, 20-150kW SITE PLANNING-1 SYSTEM ONE LINE DIAGRAM
PROJECT: DRAWINGS	SHEET 10 OF 11

DWG NO:	GVSUPS20K150GFS-SD		REV.	4
DRAWN BY:	BALA	01-SEP-21	ANGLE	
ENGINEER:	C N/ J L / C A	02-SEP-21	PROJECTION	
APPROVED BY:	P J / S V / C A	02-SEP-21	N. A	

WALLMOUNT MAINTENANCE BYPASS PANEL (MBP) SWITCHGEAR DETAIL (MAKE: SCHNEIDER ELECTRIC)		
DEVICE ID	GVSBPSU60G-WP	GVSBPSU100G-WP
UIB / SSIB	150A 600V AC 3P (HJF36150CU31X)	250A 600V AC 3P (JJF36250CU31X)
MBB / UOB	125A 600V AC 4P (BJF46125)	250A 600V AC 4P (LJF46250CU31X)

FLOORMOUNT MAINTENANCE BYPASS CABINET (MBC) SWITCHGEAR DETAIL (MAKE: SCHNEIDER ELECTRIC)		
DEVICE ID	MBC SKU NUMBER	
	GVSBPSU80G	GVSBPSU150G
UIB / SSIB	150A 600V AC 3P (HJF36150CU31X)	400A 600V AC 3P (400A600CU31X)
MBB / UOB	150A 600V AC 3P (HJF36150CU31X)	250A 600V AC 3P (JJF36250CU31X)

CLASSIC BATTERY CABINET (CBC) SWITCHGEAR DETAILS	
SKU NUMBER	CIRCUIT BREAKER DETAILS-(MAKE: SCHNEIDER ELECTRIC)
GVSCBT1/GVSCBT1ST	150A, 3P, 500V DC JGL37150D81AAUO
GVSCBT2/GVSCBT2ST	
GVSCBT3/GVSCBT3ST	
GVSCBT4/GVSCBT4ST	
GVSCBT5/GVSCBT5ST	250A, 3P, 500V DC JGL37250D82AAUO
GVSCBT6ST	400A, 3P, 500V DC LGL37040D30ABUO
GVSCBT7ST	

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.

NOTES:

- △7. FOR PARALLEL SYSTEMS, UPSTREAM CIRCUIT BREAKER INSTANTANEOUS OVERRIDE (II) VALUES MUST NOT BE SET HIGHER THAN 1250 A.
- △8. FOR PARALLEL SYSTEM WITH TWO OR MORE UPS'S OF RATING 150KW, A CIRCUIT BREAKER MUST BE INSTALLED ON THE OUTPUT OF EACH UPS. THE INSTANTANEOUS OVERRIDE (II) VALUES OF UNIT OUTPUT BREAKER (UOB) MUST NOT BE SET HIGHER THAN 1250 A.
- △9. FOR SCALABLE UPS GVSUPS50K150GS, ALWAYS SIZE THE UPSTREAM PROTECTION FOR A UPS RATING OF 75 KW.

GALAXY VS 20–100KW 480V AC IN/208V AC OUT UPS SYSTEM SITE PLANNING DATA (MBC WITH OUTPUT XFMR– GVSBPOT50B/ GVSBPOT100)													4
MAINS INPUT: 480V AC, 60HZ 3PH 3 WIRE+G BYPASS INPUT: 480V AC, 60HZ, 3 WIRE+G WYE OUTPUT: 208V AC, 60HZ, 4WIRE+G MAINS INPUT (DUAL MAINS): 480V AC, 60HZ 3PH 3 WIRE+G WYE													
UPS RATING (kW)	UPS SKU NUMBER	APPLICABLE MBC SKU NUMBER AND DETAILS (65ka@480V)	NOMINAL MAINS INPUT CURRENT (NO CHARGING) (A)	NOMINAL MAINS INPUT CURRENT (FULL CHARGING) (A)	NOMINAL BYPASS INPUT CURRENT		UPS OUTPUT CURRENT (A) @480V AC	SYSTEM OUTPUT CURRENT (A) @208V AC	NOMINAL BATTERY VOLTAGE (V DC)	BATTERY CURRENT*** (A DC)		RECOMMENDED UPSTREAM PROTECTION (MAKE: SCHNEIDER ELECTRIC) Ir / PART NUMBER (tr@6 Ir IS 0.5 AND li (x ln) IS 1.5)	
					PHASE CURRENT (A)	NEUTRAL CURRENT (A)				@FULL LOAD CURRENT & NOMINAL BATTERY VOLTAGE	@FULL LOAD CURRENT & MINIMUM BATTERY VOLTAGE	MAINS INPUT	BYPASS INPUT
20	GVSUPS20KGS	GVSBPOT50B (60kVA 600/480V AC IN, 208V AC OUT D–Y K1)	25	30	24	42	24	56	32–48 BLOCKS: 384–576	54	68	40/ HJF36100U31X	35/ HJF36100U31X
30	GVSUPS30KGS		37	45	36	62	36	83		81	101	60/ HJF36100U31X	50/ HJF36100U31X
40	GVSUPS40KGS		50	60	49	83	48	111		108	135	80/ HJF36100U31X	70/ HJF36100U31X
50	GVSUPS50KGS		62	74	61	104	60	139	40–48 BLOCKS: 480–576	108	135	100/ HJF36100U31X	80/ HJF36100U31X
60	GVSUPS60KGS	GVSBPOT100 (100kVA 480V AC IN, 208V AC OUT D–Y K1)	74	89	73	125	72	167	35–48 BLOCKS: 420–576	130	162	125/ HJF36150U31X	100/ HJF36100U31X
80	GVSUPS80KGS		99	119	97	166	96	222	32–48 BLOCKS: 384–576	173	216	175/ JF36250U31X	125/ HJF36150U31X
100	GVSUPS100KGS		124	149	121	208	120	278	40–48 BLOCKS: 480–576	216	270	200/ JF36250U31X	175/ JF36250U31X

*** VALUES BASED ON 20/30/40/80KW : 32 BLOCKS, 60KW: 35 BLOCKS, 50/100/120/150KW : 40 BLOCKS

MAINTENANCE BYPASS CABINET (MBC) SWITCHGEAR DETAIL (MAKE: SCHNEIDER ELECTRIC)		
DEVICE ID	MBC SKU NUMBER	
	GVSBPOT50B	GVSBPOT100
UIB / SSIB	MCCB 150A 3P H FRAME (HJF36150CU31X)	MCCB 250A 3P J FRAME (JF36250CU31X)
MBB / UOB		MCCB 150A 3P H FRAME (HJF36150CU31X)

GALAXY VS 50KW EXPANDABLE UP TO 150KW 480V AC IN/208V AC OUT UPS SITE PLANNING DATA (MBC WITH OUTPUT XFMR–GVSBPOT150)														4
MAINS INPUT (SINGLE MAINS): 480V AC, 60HZ 3PH 3 WIRE+G WYE BYPASS INPUT: 480V AC, 60HZ, 3 WIRE+G WYE OUTPUT: 208V AC, 60HZ, 4 WIRE+G MAINS INPUT (DUAL MAINS): 480V AC, 60HZ 3PH 3 WIRE+G WYE														
SKU NUMBER	UPS RATING (kW)	VARIOUS EXPANDABLE RATING OF UPS (kW)	APPLICABLE MBC WITH XFMR SKU AND DETAILS (65KA@480V)	NOMINAL MAINS INPUT CURRENT (NO CHARGING) (A)	NOMINAL MAINS INPUT CURRENT (FULL CHARGING) (A)	NOMINAL BYPASS INPUT CURRENT		UPS OUTPUT CURRENT (A) @480V AC	UPS SYSTEM OUTPUT CURRENT (A) @208V AC	NOMINAL BATTERY VOLTAGE (V DC)	BATTERY CURRENT*** (A DC)		RECOMMENDED UPSTREAM PROTECTION (MAKE: SCHNEIDER ELECTRIC) Ir / PART NUMBER (tr@6 Ir IS 0.5 AND li (x ln) IS 1.5)	
						PHASE CURRENT (A)	NEUTRAL CURRENT (A)				FULL LOAD CURRENT & NOMINAL BATTERY VOLTAGE	FULL LOAD CURRENT & MINIMUM BATTERY VOLTAGE	MAINS INPUT	BYPASS INPUT
GVSUPS120KGS	120	120	GVSBPOT150 (180kVA 480 IN 208V OUT D–Y K1)	149	179	146	208	144	333	40–48 BLOCKS: 480–576	260	325	250/ JF36250CU31X	200/ JF36250CU31X
GVSUPS150KGS	150	150		186	223	182	208	180	416		326	406	300/ LJF36400U31X	250/ JF36250U31X
GVSUPS50K150GGS	50	50		62	74	61	104	60	139	40–48 BLOCKS: 480–576	108	135	100/ HJF36100U31X	80/ HJF36100U31X
		60		74	89	73	125	72	167	35–48 BLOCKS: 420–576	130	162	125/ HJF36150U31X	100/ HJF36100U31X
		80		99	119	97	166	96	222	32–48 BLOCKS: 384–576	173	216	175/ JF36250U31X	125/ HJF36150U31X
		100		124	149	121	208 ^^	120	278	40–48 BLOCKS: 480–576	216	270	200/ JF36250U31X	175/ JF36250U31X
		120		149	179	146	208 ^^	144	333		260	325	250/ JF36250CU31X	200/ JF36250CU31X
		150		186	223	182	208 ^^	180	416		326	406	300/ LJF36400U31X	250/ JF36250U31X

*** VALUES BASED ON 20/30/40/80KW : 32 BLOCKS, 60KW: 35 BLOCKS, 50/100/120/150KW : 40 BLOCKS

^^ HARMONIC CURRENTS IN NEUTRAL ARE ONLY CONSIDERED TO BE 1.73X UP TILL 100KW. ABOVE 100KW ONLY RESISTIVE LOAD IS CONSIDERED.

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.

2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.

3. FINAL SELECTIONS ARE RESPONSIBILITY OF ENGINEER OF RECORDS BASED ON INSTALLED CONDITIONS AND SCC/SELECTIVE CO–ORDINATION/ ARC–FLASH ANALYSIS.

△ 4. FOR HRC INSTALLATIONS REFER TO SHEET–10.

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Schneider Electric

TITLE: GALAXY VS
Input: 480V AC 3PH, 60Hz, SINGLE/DUAL FEED
Output: 480V AC 3PH 60Hz, 20–150kW
SYSTEM ONE LINE DIAGRAM
SITE PLANNING–2

PROJECT: DRAWINGS SHEET 110F 11

DWG NO: GVSUPS20K150GFS–SD

DRAWN BY: BALA 28–SEP–20

ENGINEER: C N/ J L 1–OCT–20

APPROVED BY: P J / S V 1–OCT–20

REV. 1

ANGLE

PROJECTION

N. A