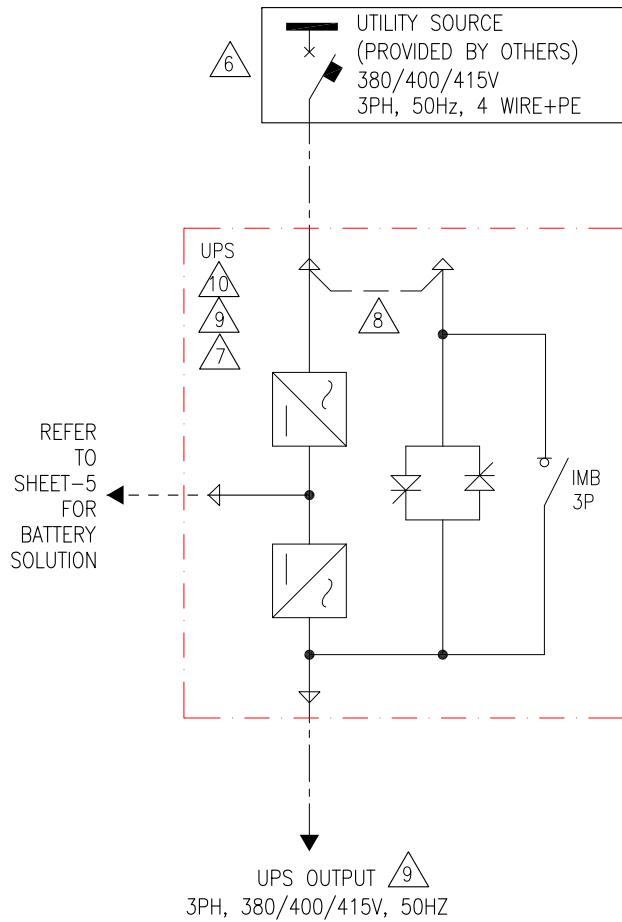
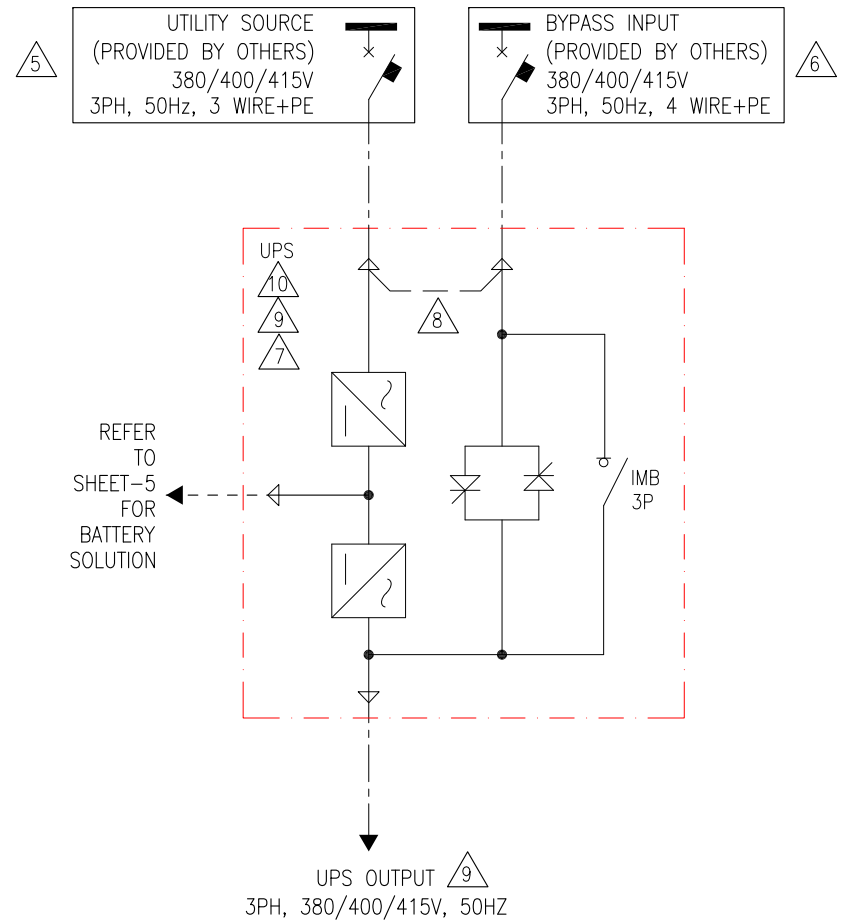


1 MOD UPS WITH BATT SOLUTION

SINGLE MAINS



DUAL MAINS



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. INPUT AC SOURCE TO BE 3 WIRE+PE. TN, TT AND IT POWER DISTRIBUTION SYSTEMS WITH NO EARTHED LINE CONDUCTORS ARE SUPPORTED. ONLY FOR DUAL MAINS SYSTEM WITH UPSTREAM 4-POLE BREAKERS: INSTALL AN N CONNECTION WITH INPUT CABLES (L1,L2,L3,N,PE) (TN-S).
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- Δ7. FOR EARTHING INSTALLATION OF TN-C, HIGH IMPEDANCE SYSTEM & IT REFER TO INSTALLATION MANUAL.
- Δ8. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS APPLICATION.
- Δ9. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-5.
- Δ10. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=65ka$ RMS SYMMETRICAL.

LEGEND:	
	AC CABLE (PROVIDED BY OTHERS)
	500VDC CABLE (PROVIDED BY OTHERS)

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Schneider Electric

TITLE: GALAXY VS
 Input: 380/400/415V AC, 3PH, 50Hz SINGLE/DUAL FEED
 Output: 380/400/415V AC, 3PH, 50Hz 20-150kW
 20-150kW 1MOD/2MOD N+1 UPS w MBP&BATT
 SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS SHEET 1 OF 5

DWG NO: GVSUPS20K150HS-SD REV. 1

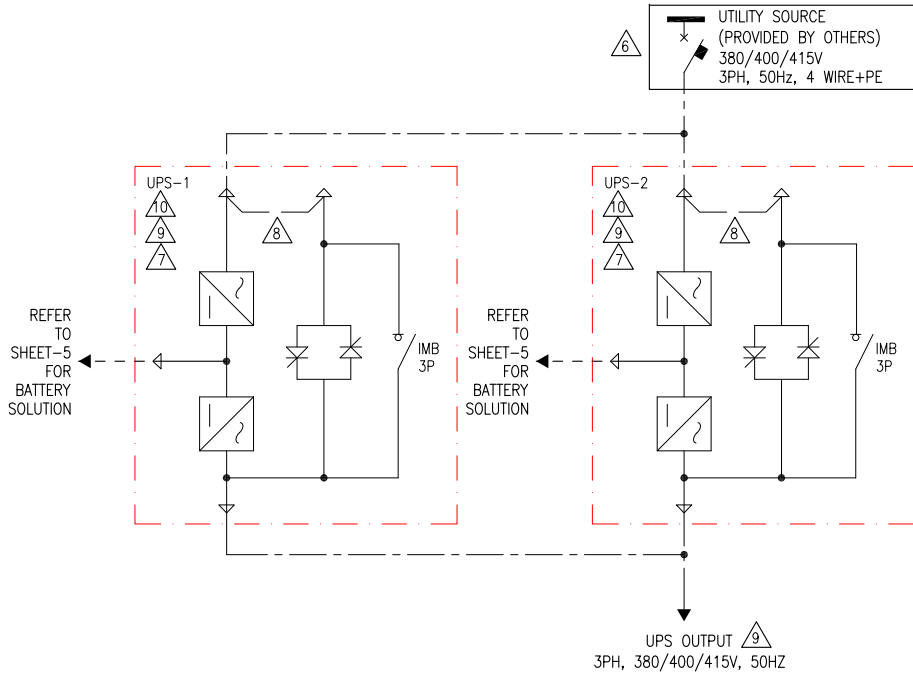
DRAWN BY: BALA 28-FEB-19 ANGLE

ENGINEER: H N/D F/C N/K S 28-FEB-19 PROJECTION

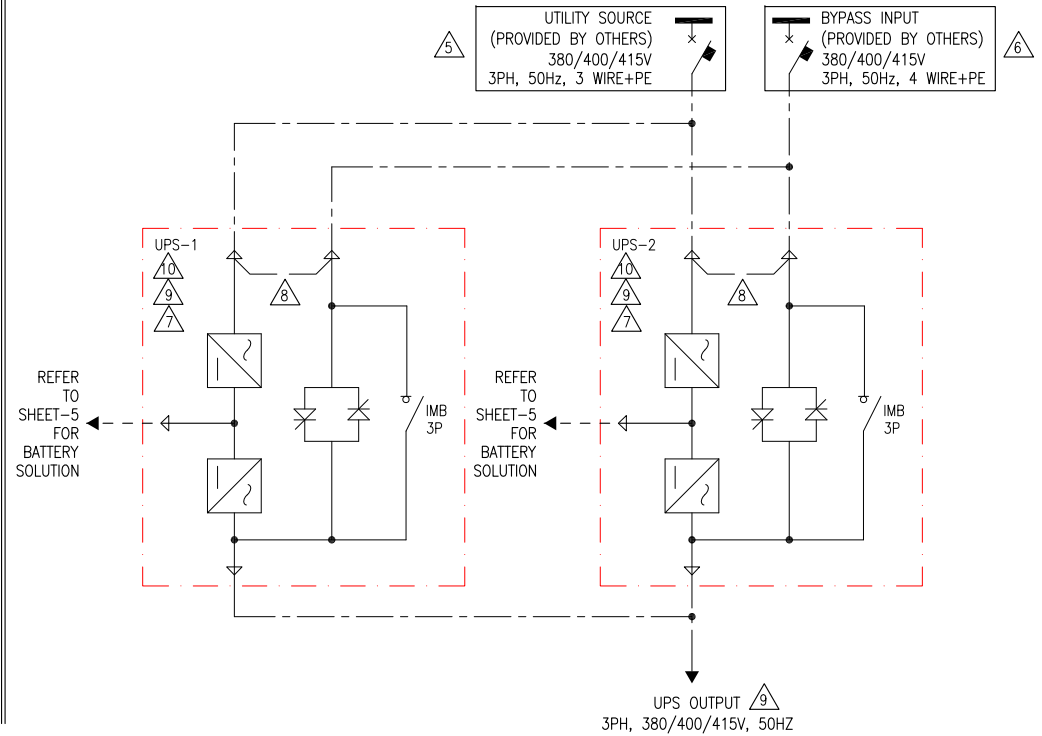
APPROVED BY: C B 28-FEB-19 N. A

1+1 SIMPLIFIED PARALLEL UPS WITH BATTERY SOLUTION

SINGLE MAINS



DUAL MAINS



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
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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. INPUT AC SOURCE TO BE 3 WIRE+PE. TN, TT AND IT POWER DISTRIBUTION SYSTEMS WITH NO EARTHED LINE CONDUCTORS ARE SUPPORTED. ONLY FOR DUAL MAINS SYSTEM WITH UPSTREAM 4-POLE BREAKERS: INSTALL AN N CONNECTION WITH INPUT CABLES (L1,L2,L3,N,PE) (TN-S).
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- △10. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=65kA$ RMS SYMMETRICAL.

LEGEND:

- AC CABLE (PROVIDED BY OTHERS)
- - - 500VDC CABLE (PROVIDED BY OTHERS)

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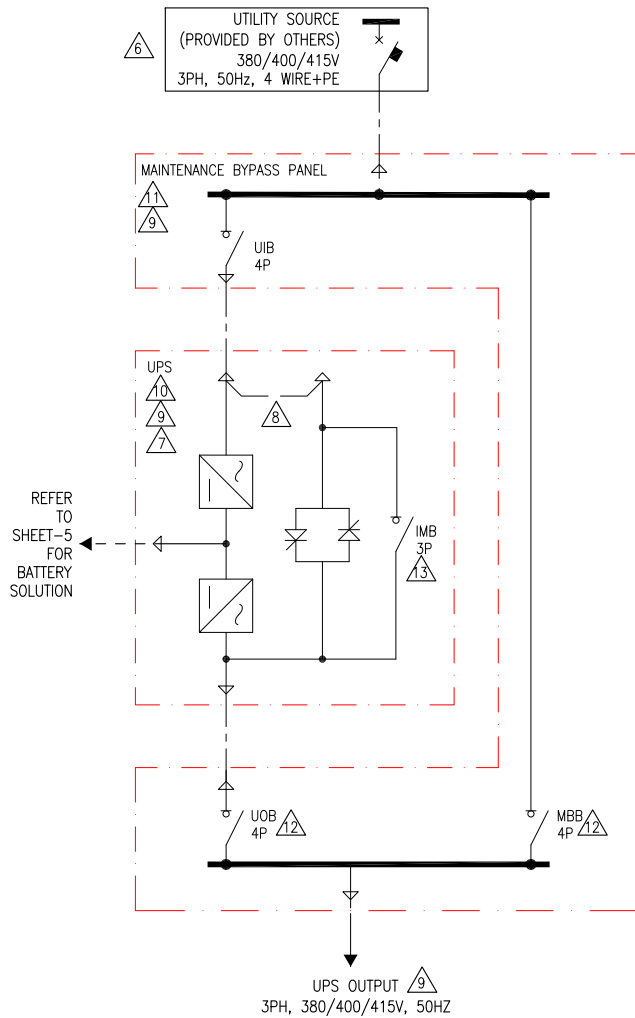


TITLE: GALAXY VS
 Input: 380/400/415V AC, 3PH, 50Hz SINGLE/DUAL FEED
 Output: 380/400/415V AC, 3PH, 50Hz 20-150kW
 20-150kW 1MOD/2MOD N+1 UPS w MBP&BATT
 SYSTEM ONE LINE DIAGRAM
 PROJECT: DRAWINGS SHEET 2 OF 5

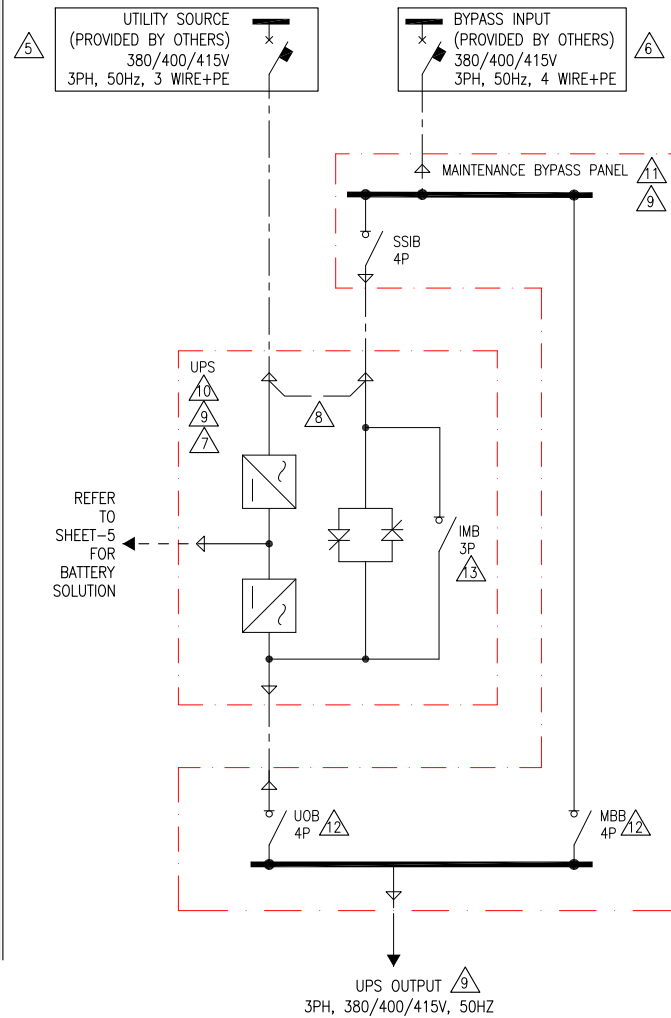
DWG NO:	GVSUPS20K150HS-SD	REV.	1
DRAWN BY:	BALA	28-FEB-19	ANGLE
ENGINEER:	H N/D F/C N/K S	28-FEB-19	PROJECTION
APPROVED BY:	C B	28-FEB-19	N. A

1 MOD UPS WITH MBP AND BATT SOLUTION

SINGLE MAINS



DUAL MAINS



NOTES:

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- Δ11. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=10\text{ka}$ RMS SYMMETRICAL.
- Δ12. BOTH MBB AND UOB NEUTRAL ARE CONNECTED WITH PRE-INSTALLED JUMPERS.
- Δ13. IMB MUST BE PADLOCKED IN OPEN POSITION.

LEGEND:

- AC CABLE (PROVIDED BY OTHERS)
- - - 500VDC CABLE (PROVIDED BY OTHERS)

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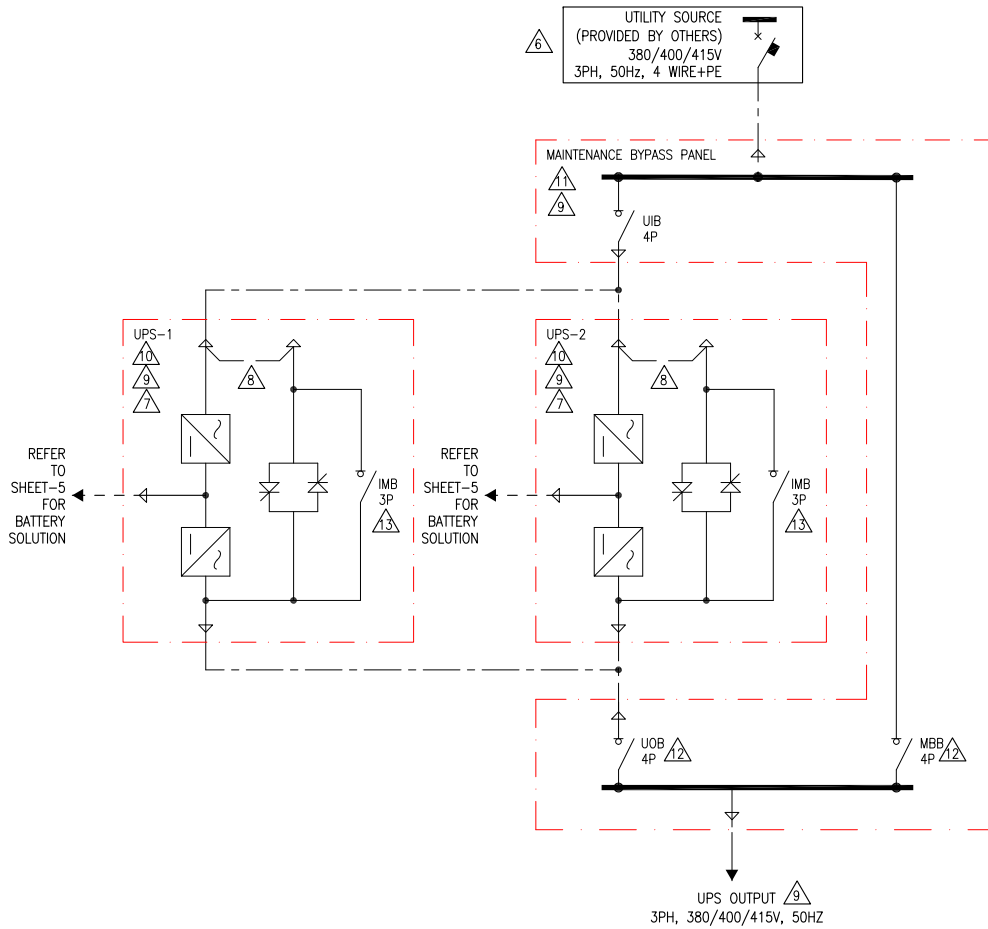
TITLE: GALAXY VS
Input: 380/400/415V AC, 3PH, 50Hz SINGLE/DUAL FEED
Output: 380/400/415V AC, 3PH, 50Hz 20-150kW
20-150kW 1MOD/2MOD N+1 UPS w MBP&BATT
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS SHEET 3 OF 5

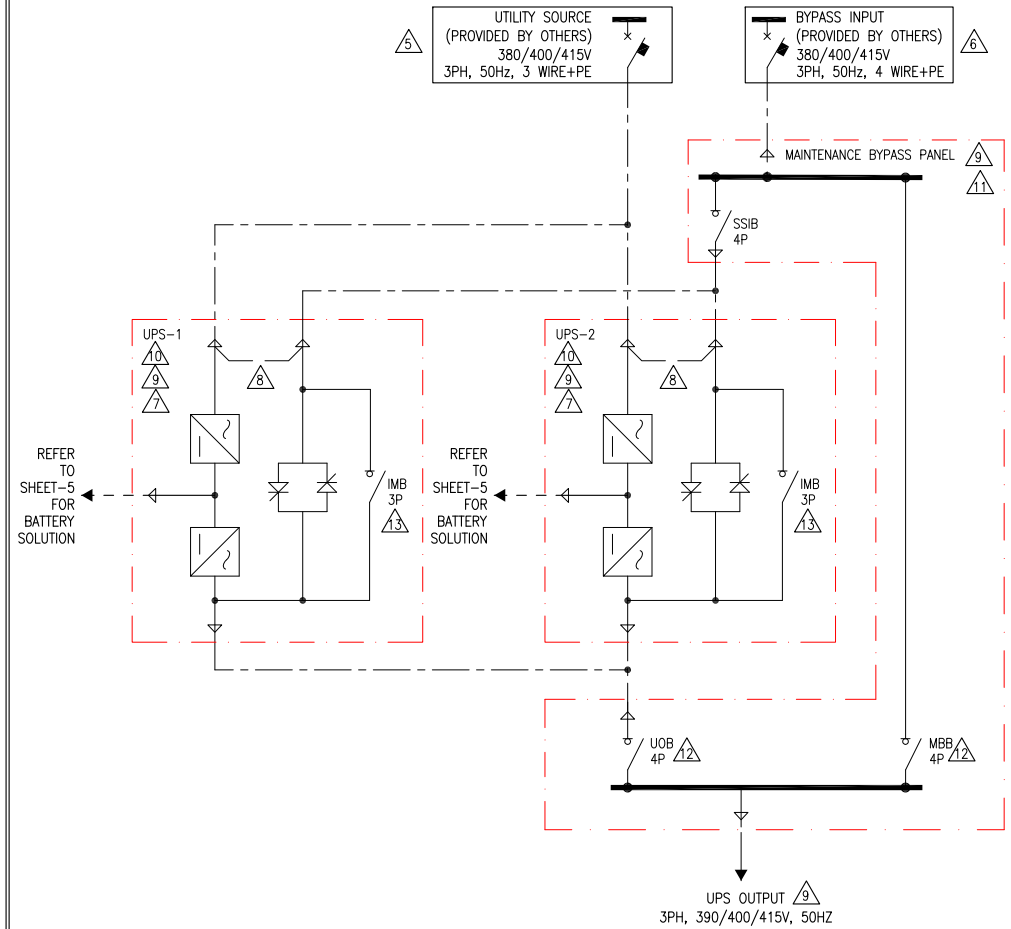
DWG NO:	GVSUPS20K150HS-SD	REV.	2
DRAWN BY:	BALA	13-NOV-19	ANGLE
ENGINEER:	H N/D F/C N/K S	13-NOV-19	PROJECTION
APPROVED BY:	C B	13-NOV-19	N. A

2 MOD (N+1) UPS WITH MBP AND BATT SOLUTION

SINGLE MAINS



DUAL MAINS



NOTES:

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LEGEND:	
	AC CABLE (PROVIDED BY OTHERS)
	500VDC CABLE (PROVIDED BY OTHERS)

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TITLE: GALAXY VS
 Input: 380/400/415V AC, 3PH, 50Hz SINGLE/DUAL FEED
 Output: 380/400/415V AC, 3PH, 50Hz 20-150kW
 20-150kW 1MOD/2MOD N+1 UPS w MBP&BATT
 SYSTEM ONE LINE DIAGRAM
 PROJECT: DRAWINGS SHEET 4 OF 5

DWG NO:	REV.
GVSUPS20K150HS-SD	2
DRAWN BY: BALA	13-NOV-19
ENGINEER: H N/D F/C N/K S	13-NOV-19
APPROVED BY: C B	13-NOV-19
	ANGLE PROJECTION
	N.A.

GALAXY VS 20-150KW UPS SITE PLANNING DATA

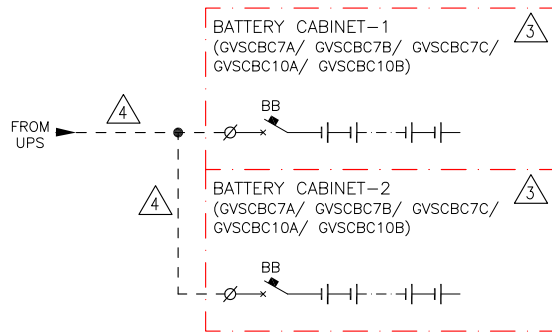
MAINS INPUT (SINGLE MAINS): 380/400/415V, 50HZ 3PH 4 WIRE+PE BYPASS INPUT: 380/400/415V, 50HZ, 3PH, 4WIRE+PE OUTPUT: 380/400/415V, 50HZ, 3PH 3 OR 4 WIRE+PE

MAINS INPUT (DUAL MAINS): 380/400/415V, 50HZ, 3PH 3WIRE +PE NOMINAL DC VOLTAGE (12V/BLOCK): FOR 32BLOCKS:-384V, FOR 40BLOCKS:- 480V , 48BLOCKS:+/-288V

UPS RATING (kW)	UPS SKU NUMBER	APPLICABLE MBP SKU NUMBER	APPLICABLE BATTERY CABINET SKU NUMBERS	APPLICABLE BATTERY BREAKER BOX SKU NUMBERS	NOMINAL MAINS INPUT CURRENT (NO CHARGING) (A) @380/400/415V	NOMINAL MAINS INPUT CURRENT (FULL CHARGING) (A) @380/400/415V	NOMINAL BYPASS INPUT CURRENT		UPS/ SYSTEM OUTPUT CURRENT	BATTERY CURRENT @ FULL LOAD AND MINIMUM Vbat (V)	RECOMMENDED OVER CURRENT PROTECTION DEVICE (MAKE:-SCHNEIDER ELECTRIC)	
							PHASE CURRENT @380/400/415V	NEUTRAL CURRENT @380/400/415V			MAINS INPUT	BYPASS INPUT
20	GVSUPS20KHS /GVSUPS20KHINS	GVSBPSU20K60H	GVSCBC7A/GVSCBC7B/ GVSCBC7C/GVSCBC10A/ GVSCBC10B	GVSBBB20K80H	32/30/29	38/36/35	31/29/28	53/50/48	30/29/28	68	NSX100H TM40D	
30	GVSUPS30KHS / GVSUPS30KHINS				47/45/43	57/54/52	46/44/42	79/75/72	46/43/42	102	NSX100H TM63D NSX100H TM50D	
40	GVSUPS40KHS / GVSUPS40KHINS				63/60/58	76/72/69	61/58/56	105/100/96	61/58/56	136	NSX100H TM80D	
50	GVSUPS50KHS / GVSUPS40KHINS				79/75/72	91/90/87	77/73/70	131/125/120	76/72/70	136	NSX100H TM100D	
60	GVSUPS60KHS / GVSUPS60KHINS				95/90/87	114/108/104	92/87/84	158/150/144	91/87/83	163	NSX160H TM125D	
80	GVSUPS80KHS / GVSUPS80KHINS	GVSBPSU80K100H	GVSCBC7B/GVSCBC7C/ GVSCBC10A/GVSCBC10B	GVSBBB100K200H	126/120/116	151/144/139	123/117/112	210/200/193	122/115/111	217	NSX160H TM160D	NSX160H TM125D
100	GVSUPS100KHS / GVSUPS100KHINS				158/150/144	182/180/173	153/146/141	263/250/241	152/144/139	271	NSX250H TM200D	
120	GVSUPS120KHS / GVSUPS120KHINS	GVSBPSU150KH	GVSCBC10A2/ GVSCBC10B2		189/180/173	227/216/208	184/175/169	263/250/241	182/173/167	326	NSX250H TM250D	NSX250H TM200
150	GVSUPS150KHS / GVSUPS150KHINS				237/225/217	273/270/260	230/219/211	263/250/241	228/217/209	407	NSX400H MiC L2	NSX250H TM250

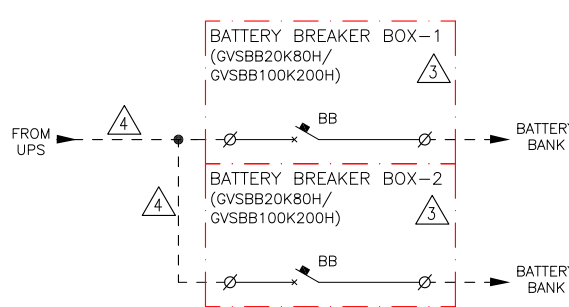
BATTERY SOLUTION

CLASSIC BATTERY CABINET(CBC) CONFIGURATION



CLASSIC BATTERY CABINET SPECIFICATIONS							
DESCRIPTION \CBC MODEL	GVSCBC7A	GVSCBC7B	GVSCBC7C	GVSCBC10A	GVSCBC10B	GVSCBC10A2	GVSCBC10B2
BB TYPE (SCHNEIDER ELECTRIC)/ RATING	NSX100SDC 3P/ 100A	NSX250SDC 3P/ 250A	NSX250SDC 3P/ 250A	NSX250SDC 3P/ 250A	NSX250SDC 3P/ 250A	NSX250SDC 3P/ 250A	NSX320SDC 3P/ 250A
(12V) BATTERY QTY	48	44	36	48	40	48	40

BATTERY BREAKER BOX(BBB) CONFIGURATION



BATTERY BREAKER BOX SPECIFICATIONS		
DESCRIPTION \BBB MODEL	GVSBB20K80H	GVSBB100K200H
BB TYPE (SCHNEIDER ELECTRIC)/ RATING	LV438980	LV438279
MAX. RUNTIME CONFIG	4 HOUR	200KW: 1 HOUR 100-150KW: 4 HOUR
BATTERY TYPE	LEAD ACID	
MAX. SHORT CIRCUIT LEVEL	35KA	

MAINTENANCE BYPASS PANEL (MBP) SWITCHGEAR DETAILS (MAKE: SCHNEIDER ELECTRIC)			
DEVICE ID/ MBP SKU	GVSBPSU20K60H	GVSBPSU80K120H	GVSBPSU150KH
UIB / SSIB	160A, 4P LOAD SWITCH (INS160 MG)	250A, 4P LOAD SWITCH (INS250 MG)	630A 4P LOAD SWITCH (INS 630 TETRA)
MBB/UOB			250A 4 POLE LOAD SWITCH (INS 250 MG)

NOTES:

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- REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
- MAXIMUM 2 NOS OF BATTERY CABINETS (BOTH CBCs MUST BE OF THE SAME SKU#)/ BATTERY BREAKER BOXES (BOTH BBBs MUST BE OF THE SAME SKU# ARE SUPPORTED BY A GALAXY VS UPS.
- MAXIMUM ALLOWABLE DISTANCE BETWEEN UPS AND BATTERIES ARE 200 METERS [656 FEET].
- BATTERY CURRENT FOR 20-40kW BASED ON 32 BLOCKS, BATTERY CURRENT FOR 50-100kW BASED ON 40 BLOCKS, BATTERY CURRENT FOR 120-150kW BASED ON 40-48 BLOCKS.

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TITLE: GALAXY VS
Input:380/400/415V AC,3PH,50Hz SINGLE/DUAL FEED
Output: 380/400/415V AC,3PH,50Hz 20-150kW
20-150kW 1MOD/2MOD N+1 UPS w MBP&BATT
BATTERY SOLUTION AND SITE PLANNING
PROJECT: DRAWINGS **SHEET** 5 OF 5

DWG NO: GVSUPS20K150HS-SD **REV.** 3
DRAWN BY: BALA 5-NOV-19 ANGLE
ENGINEER: H N/D F/C N/K S 11-NOV-19 PROJECTION
APPROVED BY: C B/ R I 11-NOV-19 N.A