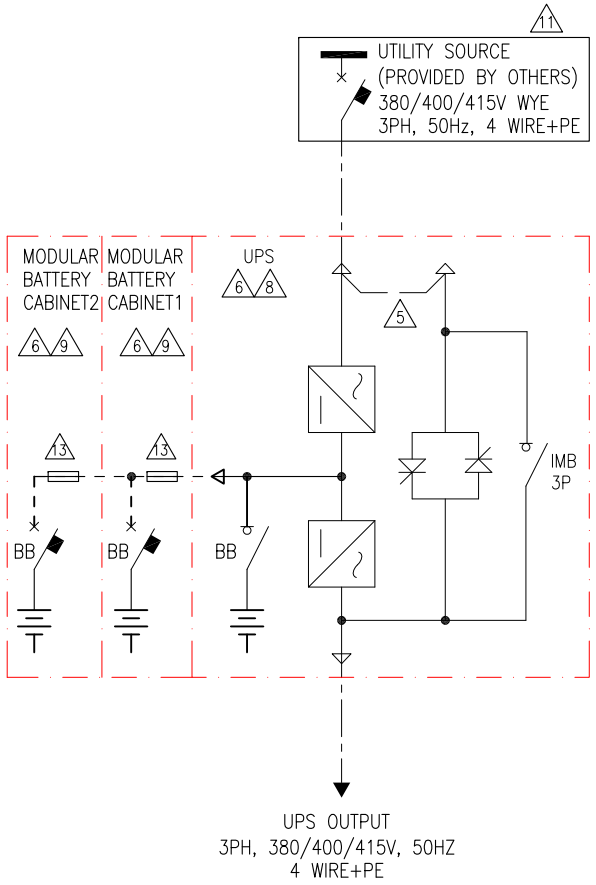
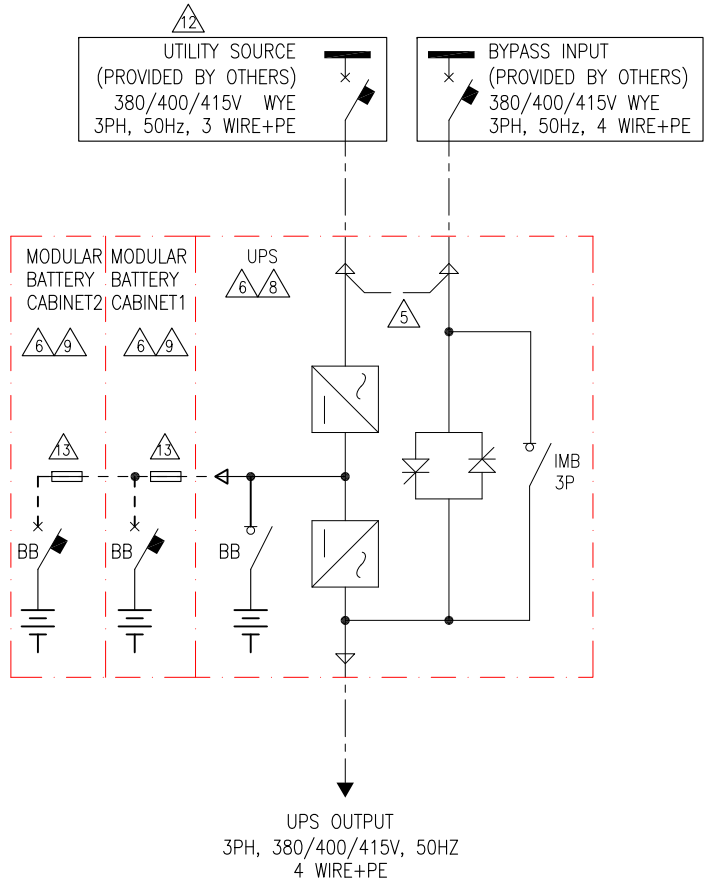
1 MOD UPS WITH BATT SOLUTION

SINGLE MAINS

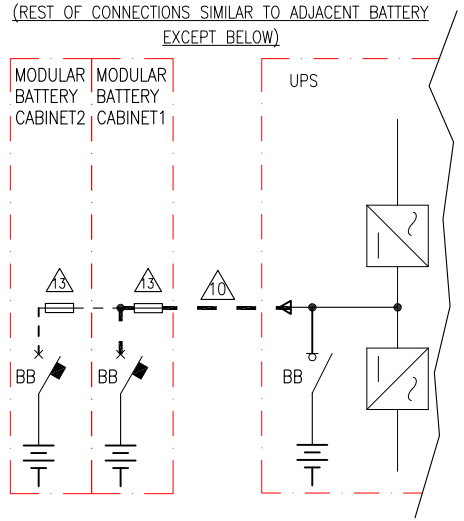


DUAL MAINS



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. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS INSTALLATION.

△6. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-6.

7. CABLE LUGS ARE PROVIDED BY OTHERS EXCEPT FOR ADJACENT BATTERY CABINET INSTALLATION.

△8. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: Icw=65kA RMS SYMMETRICAL.

△9. BATTERY STRINGS ARE NOT PART OF BATTERY CABINET, TO BE ORDERED SEPARATELY. TWO CABINETS SHOWN. MAXIMUM OF FOUR BATTERY CABINETS CAN BE BAYED WITH THE UPS. FOR RUNTIME DETAILS REFER TO BATTERY CABINET INSTALLATION MANUALS OR CONTACT SCHNEIDER ELECTRIC.

△10. FOR OPTIONAL POWER AND SIGNAL INTERFACE CABLE DETAILS CONTACT SCHNEIDER ELECTRIC.

△11. TN AND TT POWER DISTRIBUTION SYSTEMS ARE SUPPORTED. CORNER (LINE) GROUNDING IS NOT SUPPORTED.

△12. ONLY FOR DUAL MAINS SYSTEM WITH UPSTREAM 4 POLE BREAKERS: INSTALL AN N CONNECTION WITH THE INPUT CABLES.

△13. REFER TO GVSMODBC9 DRAWING FOR ADDITIONAL DETAILS.

LEGEND:

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

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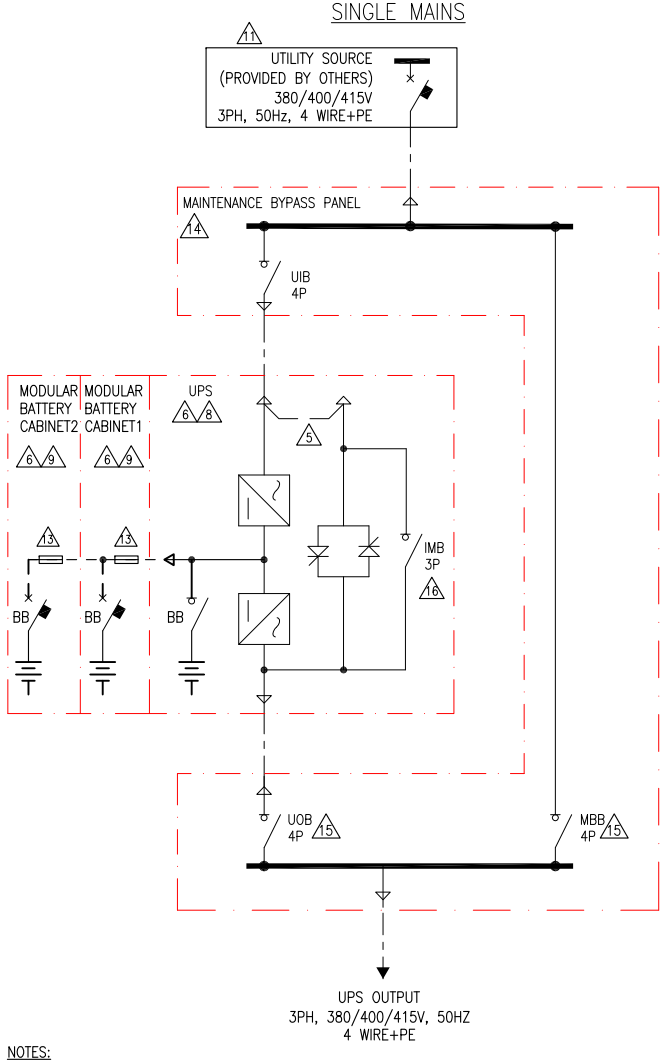
Schneider Electric

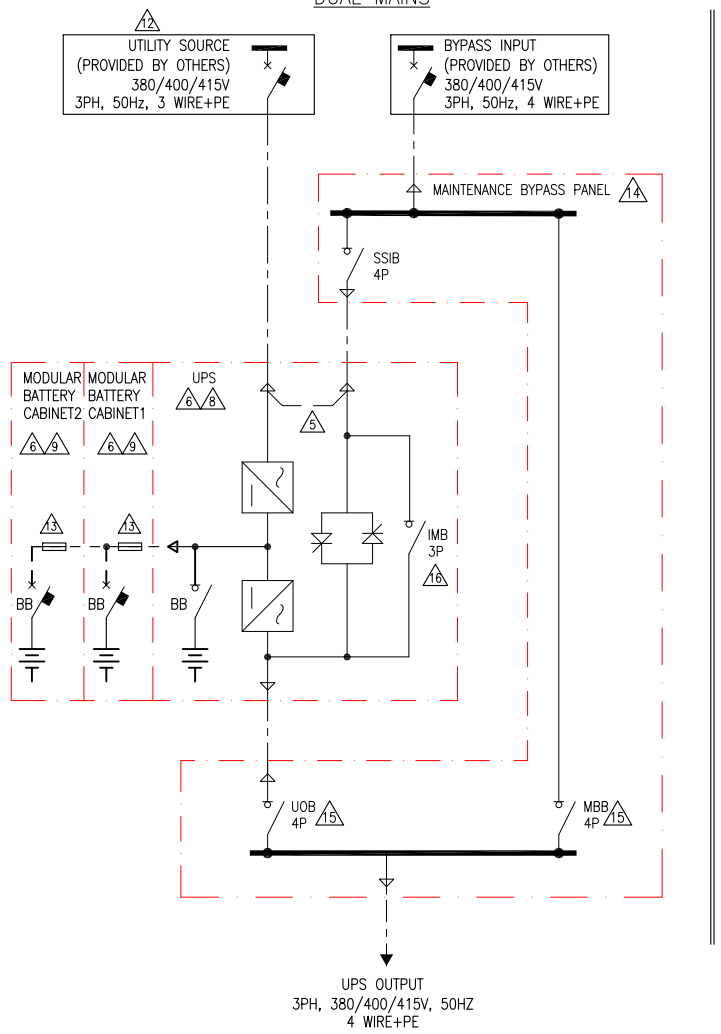
TITLE:	GALAXY VS Input:380/400/415V AC,3PH,50Hz SINGLE/DUAL FEED Output: 380/400/415V AC,3PH,50Hz 60-100kW 1 MOD UPS WITH BATTERY SOLUTION SYSTEM ONE LINE DIAGRAM	DWG NO:	GVS60KB100HSTAIO-SD
PROJECT:	DRAWINGS	REV.	0
SHEET	1 OF 6	DRAWN BY:	BALA 31-JAN-20
		ENGINEER:	ChenLei BAO 18-FEB-20
		APPROVED BY:	ChenLei BAO 18-FEB-20
		ANGLE PROJECTION	N.A

1 MOD UPS WITH MAINTENANCE BYPASS PANEL AND BATT SOLUTION

SINGLE MAINS

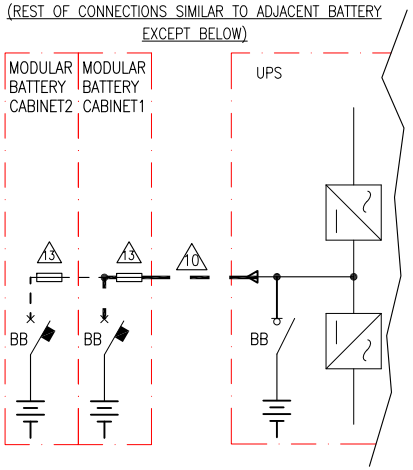


DUAL MAINS



REMOTE BATTERY–TYPICAL

(REST OF CONNECTIONS SIMILAR TO ADJACENT BATTERY EXCEPT BELOW)



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△15. BOTH MBB AND UOB NEUTRAL ARE CONNECTED WITH PRE-INSTALLED JUMPERS.
△16. THE INTERNAL MAINTENANCE BREAKER (IMB) MUST BE PADLOCKED IN OPEN POSITION.

LEGEND:

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

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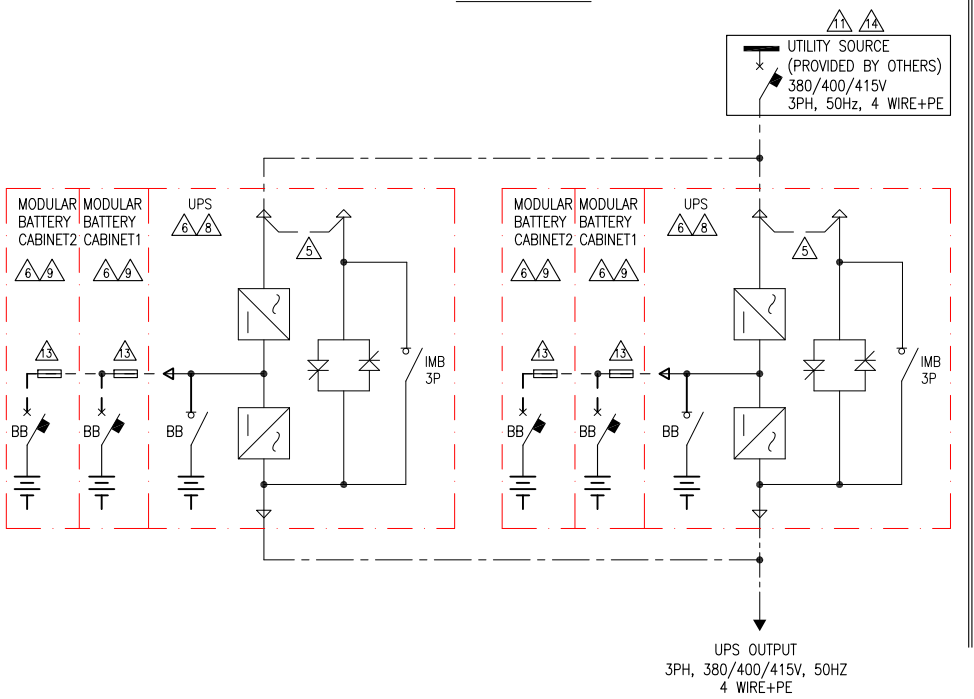
Schneider Electric

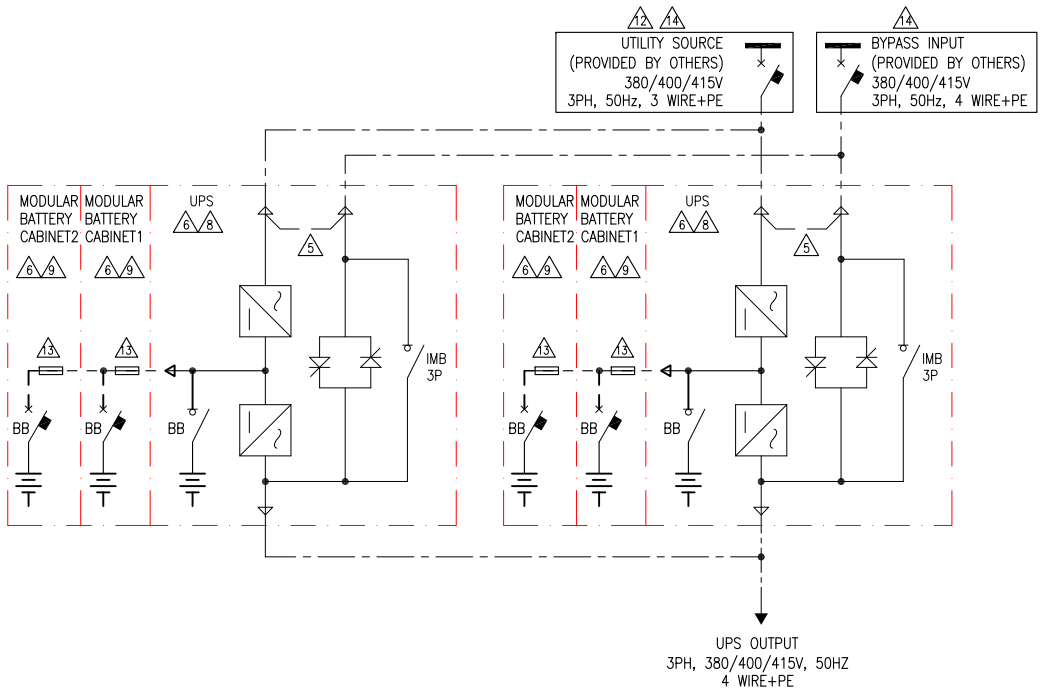
TITLE:	GALAXY VS Input:380/400/415V AC,3PH,50Hz SINGLE/DUAL FEED Output: 380/400/415V AC,3PH,50Hz 60-100kW 1 MOD UPS WITH BATTERY AND SINGLE UNIT MBP SYSTEM ONE LINE DIAGRAM	DWG NO:	GVS60KB100HSTAIO-SD
PROJECT:	DRAWINGS	REV.	0
SHEET	2 OF 6	DRAWN BY:	BALA 31-JAN-20
		ENGINEER:	ChenLei BAO 18-FEB-20
		APPROVED BY:	ChenLei BAO 18-FEB-20
		ANGLE PROJECTION	N.A

SIMPLIFIED 1+1 PARALLEL SYSTEM WITHOUT MAINTENANCE BYPASS PANEL

SINGLE MAINS



DUAL MAINS



LEGEND:

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- 600V DC CABLE (PART OF MODULAR BATTERY CABINET)
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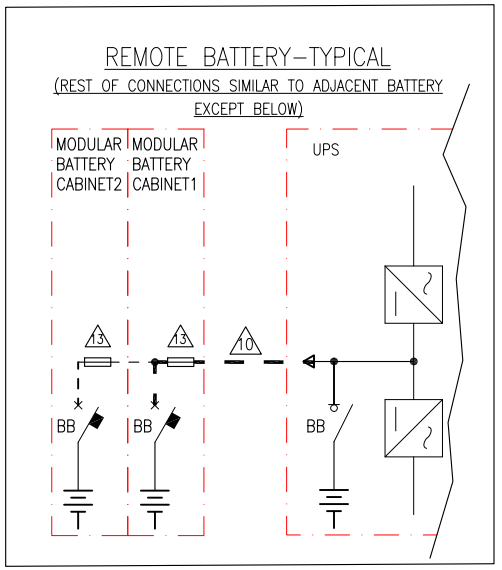
REMOTE BATTERY–TYPICAL

(REST OF CONNECTIONS SIMILAR TO ADJACENT BATTERY EXCEPT BELOW)



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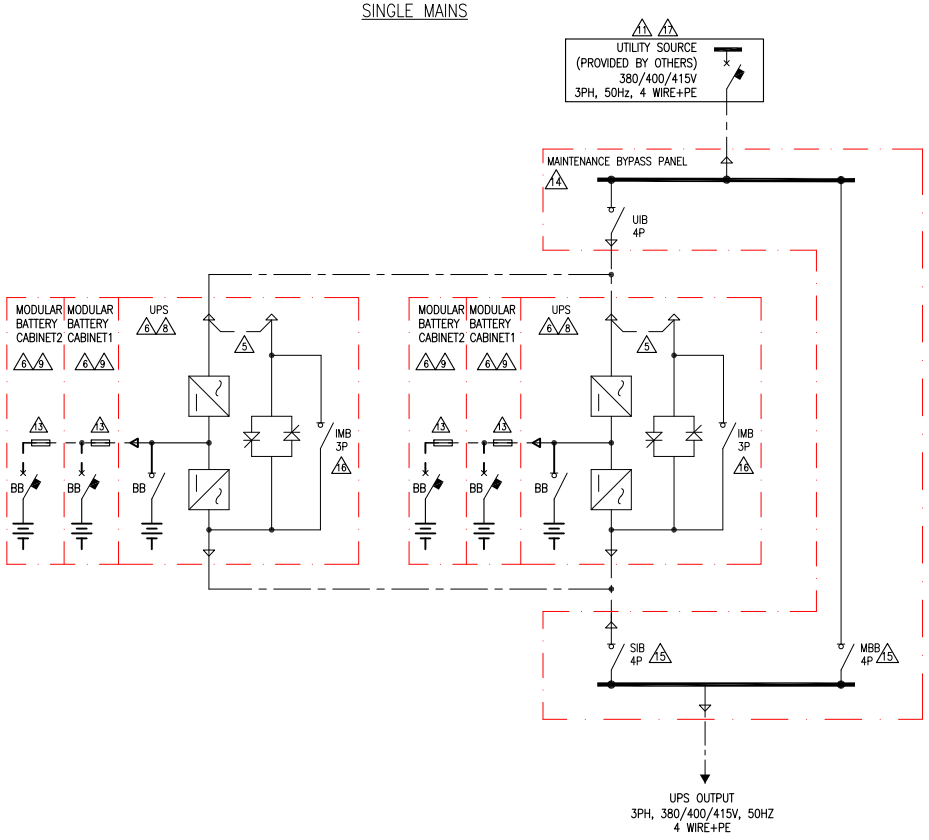
Schneider Electric

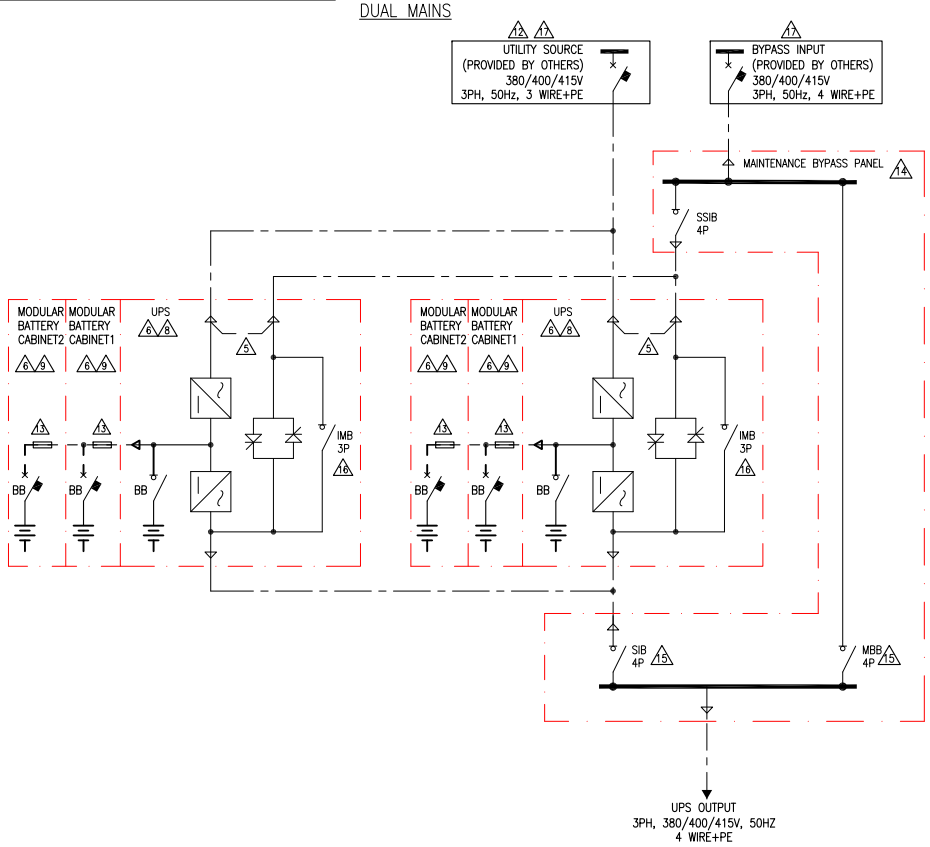
TITLE:	GALAXY VS Input:380/400/415V AC,3PH,50Hz SINGLE/DUAL FEED Output: 380/400/415V AC,3PH,50Hz 60–100kW 1+1 SIMPLIFIED PARALLEL UPS WITH BATTERY SYSTEM ONE LINE DIAGRAM	DWG NO:	GVS60KB100HSTAIO–SD
		REV.	1
PROJECT: DRAWINGS	SHEET 3 OF 6	DRAWN BY: BALA	02–SEP–21
		ENGINEER: ChenLei BAO/C A	02–SEP–21
		APPROVED BY: ChenLei BAO/C A	02–SEP–21
		ANGLE PROJECTION	N.A

SIMPLIFIED 1+1 PARALLEL SYSTEM WITH MAINTENANCE BYPASS PANEL

SINGLE MAINS



DUAL MAINS



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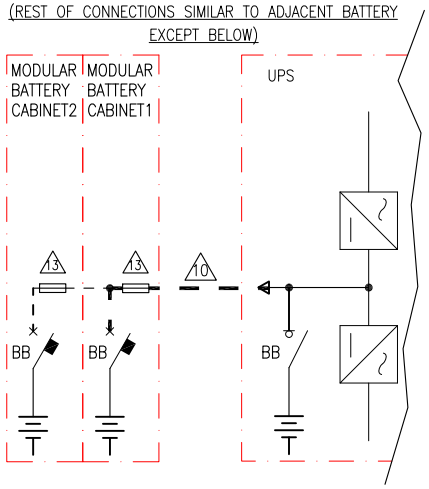

LEGEND:

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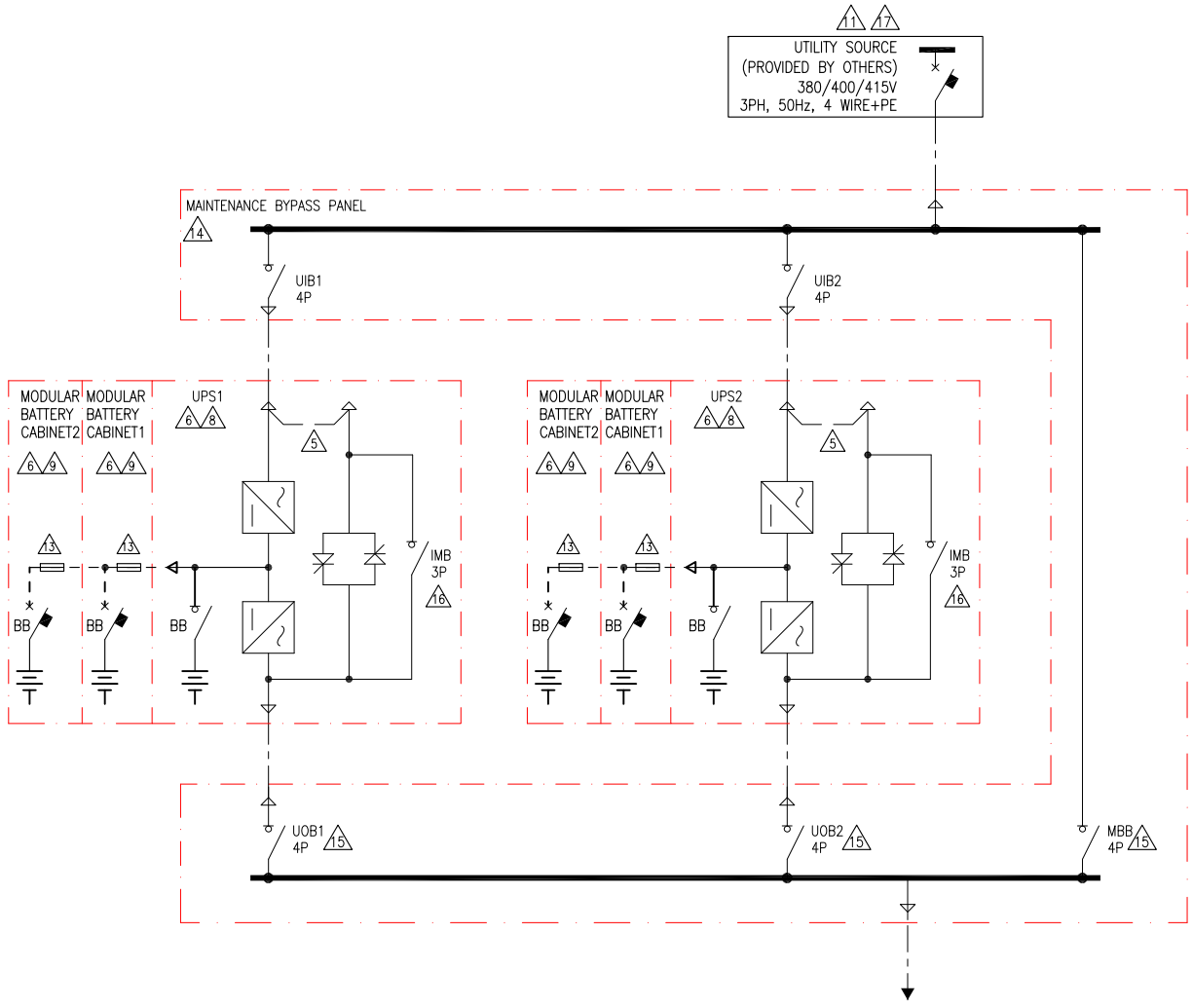
Schneider Electric

TITLE:	GALAXY VS Input:380/400/415V AC,3PH,50Hz SINGLE/DUAL FEED Output: 380/400/415V AC,3PH,50Hz 60-100kW 1+1 SIMPLIFIED PARALLEL UPS WITH BATTERY SYSTEM ONE LINE DIAGRAM	DWG NO:	GVS60KB100HSTAIO-SD
		REV.	1
PROJECT:	DRAWINGS	DRAWN BY:	BALA 02-SEP-21
SHEET	4 OF 6	ENGINEER:	ChenLei BAO/C A 02-SEP-21
		APPROVED BY:	ChenLei BAO/C A 02-SEP-21
		ANGLE PROJECTION	N.A

2 MOD (N+1)/ CAPACITY UPS WITH MAINTENANCE BYPASS PANEL AND BATT SOLUTION



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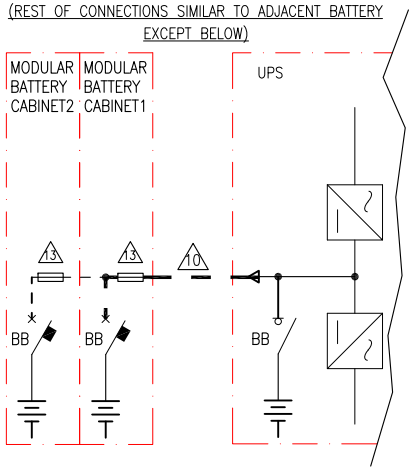

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LEGEND:

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

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Schneider Electric

TITLE:	GALAXY VS Input:380/400/415V AC,3PH,50Hz SINGLE FEED Output: 380/400/415V AC,3PH,50Hz 60-100kW 2 MOD N+1/N UPS w BATTERY AND PARALLEL MBP SYSTEM ONE LINE DIAGRAM	DWG NO:	GVS60KB100HSTAIO-SD
		REV.	1
PROJECT:	DRAWINGS	DRAWN BY:	BALA 02-SEP-21
SHEET	5 OF 6	ENGINEER:	ChenLei BAO/C A 02-SEP-21
		APPROVED BY:	ChenLei BAO/C A 02-SEP-21
		ANGLE PROJECTION	N.A

GALAXY VS 60/80/100KW 1 MODULE/ 1+1 MODULE UPS WITH/WITHOUT MBP 380/400/415V AC IN–380/400/415V AC OUT UPS SYSTEM SITE PLANNING DATA

MAINS INPUT (SINGLE MAINS): 380/400/415V AC, 50HZ 3PH, WYE 4 WIRE+G BYPASS INPUT: 380/400/415V AC, 50HZ, 3PH, WYE, 4 WIRE+G OUTPUT: 380/400/415V AC, 50HZ, 3PH, 4 WIRE+G
MAINS INPUT (DUAL MAINS): 380/400/415V AC, 50HZ 3PH, WYE, 3 WIRE+G NOMINAL DC VOLTAGE: 480V DC, 40 BLOCKS, 9AH, VRLA 12V (STRING SKU# GVSBTH4 / GVSBTH4LL)

UPS RATING (kW)	UPS SKU NUMBER	UPS INTERNAL BATTERY STRING		APPLICABLE MAINTENANCE BYPASS CABINET SKU NUMBER	APPLICABLE MODULAR BATTERY CABINET SKU NUMBER (BREAKER:–250A, 3P, SCHNEIDER ELECTRIC–JDF36250) **	NOMINAL MAINS INPUT CURRENT (A) @380/400/415V AC	MAXIMUM INPUT CURRENT (A) @380/400/415V AC	NOMINAL BYPASS INPUT CURRENT		UPS / SYSTEM OUTPUT CURRENT (A) @380/400/415V AC	BATTERY CURRENT (40 BLOCKS) (A DC)		UPS WIHT/WITHOUT MBC–RECOMMENDED UPSTREAM BREAKER In (A)/ Ir (A)/ Im (A) FIXED (MAKE : SCHNEIDER ELECTRIC) △3			
													MAINS INPUT		BYPASS INPUT	
		INCLUDED	MAXIMUM CAPACITY					PHASE CURRENT (A) @380/400/415V AC	NEUTRAL CURRENT (A) @380/400/415V AC		@FULL LOAD AND NOMINAL BATTERY VOLTAGE	@FULL LOAD AND MAXIMUM BATTERY VOLTAGE	BREAKER MODEL	In/Ir/Im FIXED(A)	BREAKER MODEL	In/Ir/ Im FIXED(A)
60	GVSUPS60KB5HS	3	5	GVSBPSU20K60H	GVSMODBC9	95/90/87	114/108/104	92/87/84	158/150/144	91/87/83	130	163	LV430671	125/125/1250	LV429670	100/100/800
80	GVSUPS80KB5HS			GVSBPSU80K120H		126/120/116	151/144/139	123/117/112	210/200/193	122/115/111	174	217	LV430670	160/160/1250	LV430671	125/125/1250
100	GVSUPS100KB5HS				GVSMODBC9 *	N.A/150/144	N.A/180/173	N.A/146/141	N.A/250/241	N.A/144/139	217	271	LV431671	200/200/5–10x In***	LV430670	160/160/1250

MAINTENANCE BYPASS PANEL (MBP) SWITCHGEAR DETAILS (MAKE: SCHNEIDER ELECTRIC)	
DEVICE ID/ MBP SKU	GVSBPAR60K120H
UIBx / UOBx	250A, 4P LOAD SWITCH (INS250 MG)
MBB	630A, 4P LOAD SWITCH (INS630 MG)

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

GALAXY VS 60/80/100 2+0 2 MODULE UPS WITH MBP 380/400/415V AC IN–380/400/415V AC OUT UPS SYSTEM SITE PLANNING DATA

MAINS INPUT (SINGLE MAINS): 380/400/415V AC, 50HZ 3PH, WYE 4 WIRE+G BYPASS INPUT: 380/400/415V AC, 50HZ, 3PH, WYE, 4 WIRE+G OUTPUT: 380/400/415V AC, 50HZ, 3PH, 4 WIRE+G
MAINS INPUT (DUAL MAINS): 380/400/415V AC, 50HZ 3PH, WYE, 3 WIRE+G NOMINAL DC VOLTAGE: 480V DC, 40 BLOCKS, 9AH, VRLA 12V (STRING SKU# GVSBTH4 / GVSBTH4LL)

INDIVIDUAL UPS RATING (kW)	SYSTEM OUTPUT RATING (kW)	UPS SKU NUMBER	UPS INTERNAL BATTERY STRING		APPLICABLE MAINTENANCE BYPASS CABINET SKU NUMBER	APPLICABLE MODULAR BATTERY CABINET SKU NUMBER (BREAKER:–250A, 3P, SCHNEIDER ELECTRIC–JDF36250) **	SYSTEM LEVEL		INDIVIDUAL UPS LEVEL		NOMINAL BYPASS INPUT CURRENT		INDIVIDUAL UPS OUTPUT CURRENT (A) @380/400/415V AC	SYSTEM OUTPUT CURRENT (A) @380/400/415V AC	BATTERY CURRENT PER UPS (40 BLOCKS) (A DC)		RECOMMENDED UPSTREAM SYSTEM MAINS INPUT BREAKER In (A)/Ir (A)/ Im (A) FIXED (MAKE : SCHNEIDER ELECTRIC) △3		RECOMMENDED UPSTREAM SYSTEM BYPASS INPUT BREAKER In (A)/Ir (A)/ Isd (A) (MAKE : SCHNEIDER ELECTRIC) △3	
			STRINGS INCLUDED	MAXIMUM CAPACITY			NOMINAL MAINS INPUT CURRENT (A) @380/400/415V AC	MAXIMUM INPUT CURRENT (A) @380/400/415V AC	NOMINAL MAINS INPUT CURRENT (A) @380/400/415V AC	MAXIMUM INPUT CURRENT (A) @380/400/415V AC	PHASE CURRENT (A) @380/400/415 AC	NEUTRAL CURRENT (A) @380/400/415V AC			@FULL LOAD AND NOMINAL BATTERY VOLTAGE	@FULL LOAD AND MAXIMUM BATTERY VOLTAGE	BREAKER MODEL	In/Ir/Im FIXED(A)	BREAKER MODEL	In/Ir/Isd (A)
60	120	GVSUPS60KB5HS	3	5	GVSBPAR60K120H	GVSMODBC9	190/180/174	288/216/208	95/90/87	114/108/104	184/174/168	316/300/288	91/87/83	182/174/146	130	163	LV431670	250/250/5–10xIn***	LV431671	200/200/5–10xIn***
80	160	GVSUPS80KB5HS					252/240/232	302/288/278	126/120/116	151/144/139	246/234/224	420/400/386	122/115/111	244/230/222	174	217	LV432695	320/1/1.5–10***	LV430670	250/250/5–10xIn***
100	200	GVSUPS100KB5HS				GVSMODBC9 *	N.A/300/288	N.A/360/346	N.A/150/144	N.A/180/173	N.A/292/282	N.A/500/482	N.A/144/139	N.A/288/278	217	271	LV432695	400/0.94/1.5–10***	LV432695	320/0.94/1.5–10***

* FOR 100kW UPS TO OBTAIN A MINIMUM RUNTIME 5 BATTERY STRINGS (STRING SKU# GVSBTH4) IN THE UPS AND AT LEAST 2 BATTERY STRINGS IN GVMMODBC9 CABINET IS MUST.
** BATTERY STRINGS ARE NOT PART OF GVSMODBC9, NEED TO BE ORDERED BASED ON RUNTIME (STRING SKU# GVSBTH4 / GVSBTH4LL). MAXIMUM POSSIBLE NUMBER OF STRINGS 9.
*** Isd (A)

NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
△3. 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:380/400/415V AC,3PH,50Hz SINGLE/DUAL FEED
Output: 380/400/415V AC,3PH,50Hz 60–100kW
1 MOD/2 MOD N+1 UPS w MBP BATT
BATTERY SOLUTION AND SITE PLANNING

PROJECT: DRAWINGS SHEET 6 OF 6

DWG NO: GVS60KB100HSTAIO–SD REV. 1

DRAWN BY:	BALA	02–SEP–21	ANGLE PROJECTION
ENGINEER:	ChenLei BAO/C A	02–SEP–21	N.A
APPROVED BY:	ChenLei BAO/C A	02–SEP–21	