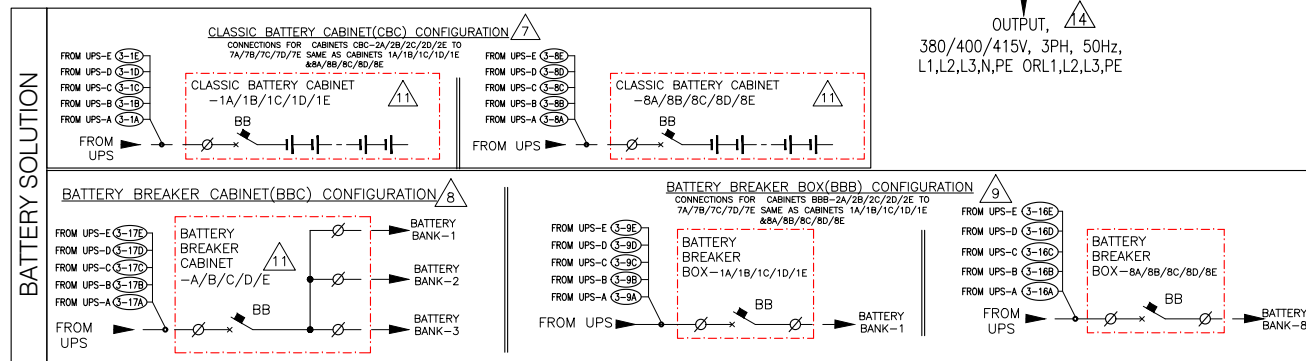


LEGEND:	
	AC CABLE (PROVIDED BY OTHERS)
	500VDC CABLE (PROVIDED BY OTHERS)

- 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. INPUT AC SOURCE TO BE 3 WIRE+PE OR 4 WIRE+PE. TN, TT AND IT POWER DISTRIBUTION SYSTEM WITH NO EARTHED LINE CONDUCTORS ARE SUPPORTED.
 6. BACK FEED PROTECTION "BF2" BUILT INTO UPS MODULE.
 7. CONFIGURATION APPLICABLE FOR 6, 7 OR 8 NUMBER OF BATTERY STRINGS.
 8. USE OF BBC IS MANDATORY IF NUMBER OF BATTERY STRINGS ARE 3 OR LESS.
 9. CONFIGURATION APPLICABLE IF NUMBER OF BATTERY STRINGS ARE BETWEEN 4 AND 8.
BATTERY BREAKER RATING (PER STRING) IS 1000A IF NUMBER OF BATTERY STRINGS ARE FROM 4 OR 5.
BATTERY BREAKER RATING (PER STRING) IS 600A IF NUMBER OF BATTERY STRINGS ARE 6, 7 OR 8.
 10. SINGLE FEED KIT IS PART OF UPS SKU AND MUST BE INSTALLED FOR THIS CONFIGURATION.
 11. SKUs ARE ETO (ENGINEER TO ORDER) ITEMS.
 12. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=100\text{ka}$ RMS SYMMETRICAL.
 13. A READILY ACCESSIBLE BREAKER IS REQUIRED FOR UPSTREAM CURRENT PROTECTION.
MAXIMUM FAULT CURRENT DISCONNECTION TIME : 360 SECONDS @ 200% In.
 14. FOR CURRENT DATA AND RECOMMENDED OVER CURRENT PROTECTION DETAILS REFER TO SHEET-3.
 15. BACK FEED PROTECTION "BF2" BUILT INTO UPS MODULE.



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC. THIS DRAWING IS BASED UPON LATEST AVAILABLE INFORMATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

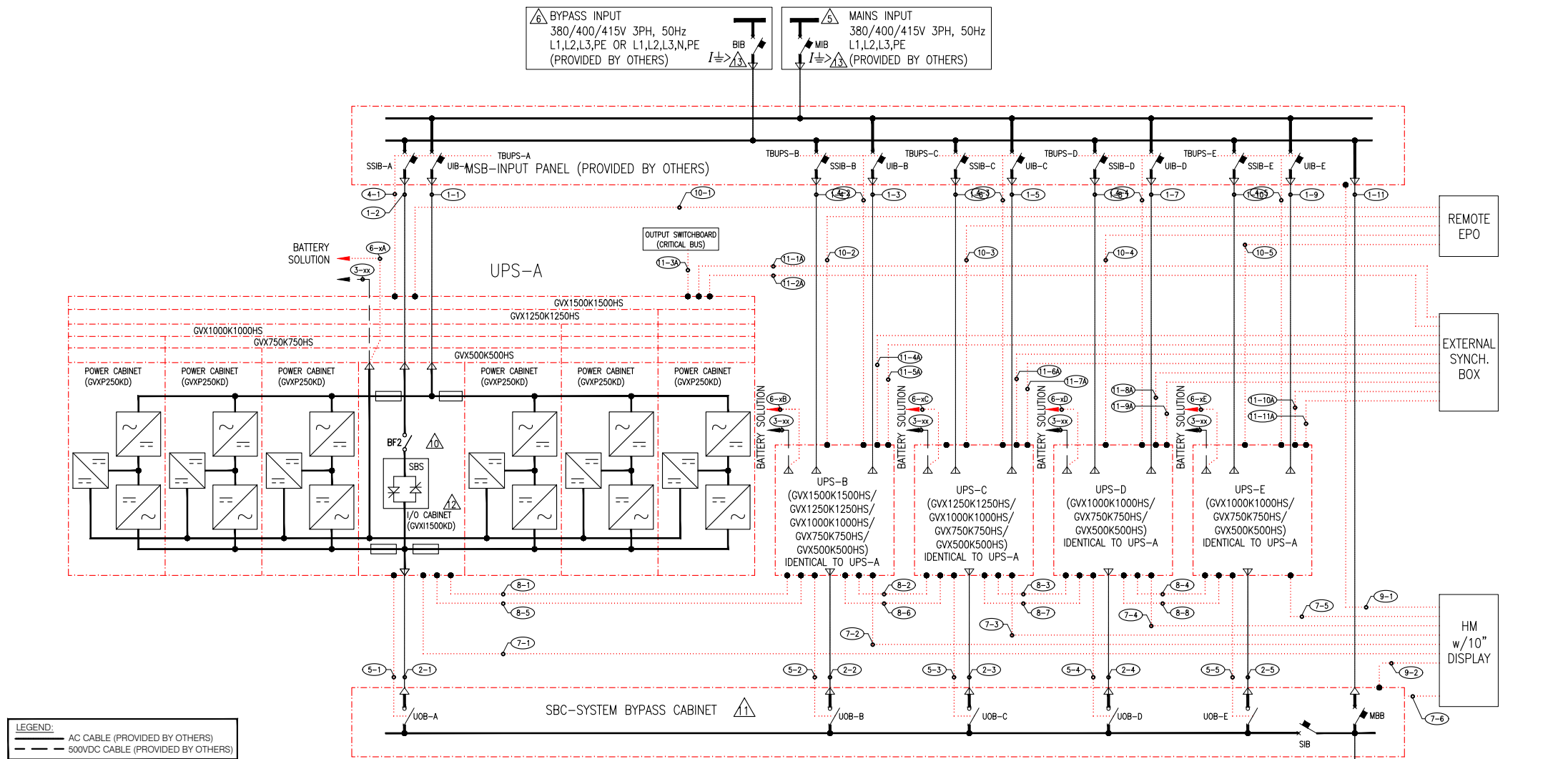
Schneider Electric

TITLE: Galaxy VX PARALLEL
UPS 500-750-1000-1250-1500kW
Input: 380/400/415V, 3PH, 50Hz
Output: 380/400/415V, 3PH, 50Hz
SYSTEM ONE LINE - SINGLE MAINS

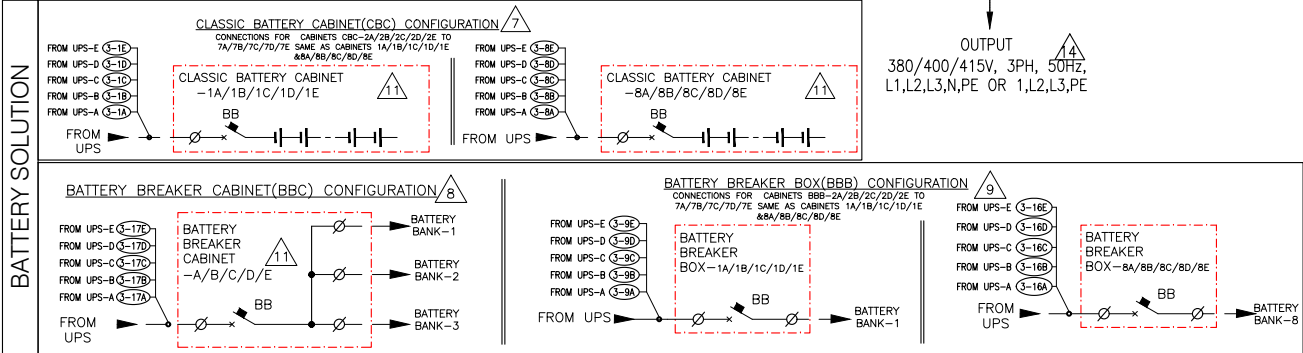
PROJECT: DRAWINGS | SHEET 1 OF 14

DWG NO: GVX500K1500HR5-SWD
DRAWN: BALAMURUGAN 04-JUN-18
ENGINEER: D. MATHIEU/S. MAERENS 12-JUN-18
APPROVED: H N 12-JUN-18

REV: 0
ANGLE
PROJECTION: N/A



- 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. MAINS INPUT AC SOURCE TO BE 3 WIRE+PE. TN, TT AND IT POWER DISTRIBUTION SYSTEM WITH NO EARTHED LINE CONDUCTORS ARE SUPPORTED
 6. BYPASS INPUT AC SOURCE TO BE 3 WIRE+PE OR 4 WIRE+PE. TN, TT AND IT POWER DISTRIBUTION SYSTEM WITH NO EARTHED LINE CONDUCTORS ARE SUPPORTED
 7. CONFIGURATION APPLICABLE FOR 6, 7 OR 8 NUMBER OF BATTERY STRINGS.
 8. USE OF BBC IS MANDATORY IF NUMBER OF BATTERY STRINGS ARE 3 OR LESS.
 9. CONFIGURATION APPLICABLE IF NUMBER OF BATTERY STRINGS ARE BETWEEN 4 AND 8. BATTERY BREAKER RATING (PER STRING) IS 1000A IF NUMBER OF BATTERY STRINGS ARE FROM 4 OR 5. BATTERY BREAKER RATING (PER STRING) IS 600A IF NUMBER OF BATTERY STRINGS ARE 6, 7 OR 8.
 10. SINGLE FEED KIT IS PART OF UPS SKU AND MUST BE INSTALLED FOR THIS CONFIGURATION.
 11. SKUs ARE ETO (ENGINEER TO ORDER) ITEMS.
 12. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: $I_{cw}=100kA$ RMS SYMMETRICAL.
 13. A READILY ACCESSIBLE BREAKER IS REQUIRED FOR UPSTREAM CURRENT PROTECTION. MAXIMUM FAULT CURRENT DISCONNECTION TIME : 360 SECONDS @ 200% I_n .
 14. FOR CURRENT DATA AND RECOMMENDED OVER CURRENT PROTECTION DETAILS REFER TO SHEET-3.
 15. BACK FEED PROTECTION "BF2" BUILT INTO UPS MODULE.



BREAKER RATINGS (RECOMMENDED/PRESENT BREAKER)													
LOCATION	DEVICE ID	FOR 500kW UPS-4/(4+1) (SYSTEM OUTPUT - 2000kW)			FOR 500kW UPS-3/(3+1) (SYSTEM OUTPUT - 1500kW)			FOR 500kW UPS-2/(2+1) (SYSTEM OUTPUT - 1000kW)			FOR 500kW UPS-(1+1) (SYSTEM OUTPUT - 1000kW)		
		RATING			RATING			RATING			RATING		
		@380V	@400V	@415V	@380V	@400V	@415V	@380V	@400V	@415V	@380V	@400V	@415V
MSB	UIB	1000 ⁴	1000 ⁴	1000 ⁴	1000 ⁴	1000 ⁴	1000 ⁴	1000 ⁴	1000 ⁴	1000 ⁴	1000 ⁴	1000 ⁴	1000 ⁴
	SSIB	800 ⁵	800 ⁶	800 ⁴	800 ⁵	800 ⁶	800 ⁴	800 ⁵	800 ⁶	800 ⁴	800 ⁵	800 ⁶	800 ⁴
SBC	MBB / SIB	3200A			2500A			1600A			800A		
	UOB	800 ⁵	800 ⁶	800 ⁴	800 ⁵	800 ⁶	800 ⁴	800 ⁵	800 ⁶	800 ⁴	800 ⁵	800 ⁶	800 ⁴
CBC	BB	600AF			600AF			600AF			600AF		
BBC	BB	4000AF			4000AF			4000AF			4000AF		
BBB	BB	600AF/1000AF			600AF/1000AF			600AF/1000AF			600AF/1000AF		
		<div><div></div><div>3</div></div>											

LOCATION	DEVICE ID	FOR 750kW UPS-4/(4+1) (SYSTEM OUTPUT - 3000kW)			FOR 750kW UPS-3/(3+1) (SYSTEM OUTPUT - 2250kW)			FOR 750kW UPS-2/(2+1) (SYSTEM OUTPUT - 1500kW)			FOR 750kW UPS-(1+1) (SYSTEM OUTPUT - 1500kW)		
		RATING			RATING			RATING			RATING		
		@380V	@400V	@415V	@380V	@400V	@415V	@380V	@400V	@415V	@380V	@400V	@415V
MSB	UIB	1600 ⁴	1600 ⁴	1600 ⁴	1600 ⁴	1600 ⁴	1600 ⁴	1600 ⁴	1600 ⁴	1600 ⁴	1600 ⁴	1600 ⁴	1600 ⁴
	SSIB	1250 ⁶	1250 ⁶	1250 ⁴	1250 ⁶	1250 ⁶	1250 ⁴	1250 ⁶	1250 ⁶	1250 ⁴	1250 ⁶	1250 ⁶	1250 ⁴
SBC	MBB / SIB	5000A			3600A			2500A			1200A		
	UOB	1250 ⁶	1250 ⁶	1250 ⁴	1250 ⁶	1250 ⁶	1250 ⁴	1250 ⁶	1250 ⁶	1250 ⁴	1250 ⁶	1250 ⁶	1250 ⁴
CBC	BB	600AF			600AF			600AF			600AF		
BBC	BB	4000AF			4000AF			4000AF			4000AF		
BBB	BB	600AF/1000AF			600AF/1000AF			600AF/1000AF			600AF/1000AF		

LOCATION	DEVICE ID	FOR 1000kW UPS-4/(4+1) (SYSTEM OUTPUT - 4000kW)			FOR 1000kW UPS-3/(3+1) (SYSTEM OUTPUT - 3000kW)			FOR 1000kW UPS-2/(2+1) (SYSTEM OUTPUT - 2000kW)			FOR 1000kW UPS-(1+1) (SYSTEM OUTPUT - 2000kW)		
		RATING			RATING			RATING			RATING		
		@380V	@400V	@415V	@380V	@400V	@415V	@380V	@400V	@415V	@380V	@400V	@415V
MSB	UIB	2000 ⁴	2000 ⁴	2000 ⁴	2000 ⁴	2000 ⁴	2000 ⁴	2000 ⁴	2000 ⁴	2000 ⁴	2000 ⁴	2000 ⁴	2000 ⁴
	SSIB	1600 ⁵	1600 ⁵	1600 ⁴	1600 ⁵	1600 ⁵	1600 ⁴	1600 ⁵	1600 ⁵	1600 ⁴	1600 ⁵	1600 ⁵	1600 ⁴
SBC	MBB / SIB	6300A			5000A			3200A			1600A		
	UOB	1600 ⁵	1600 ⁵	1600 ⁴	1600 ⁵	1600 ⁵	1600 ⁴	1600 ⁵	1600 ⁵	1600 ⁴	1600 ⁵	1600 ⁵	1600 ⁴
CBC	BB	600AF			600AF			600AF			600AF		
BBC	BB	4000AF			4000AF			4000AF			4000AF		
BBB	BB	600AF/1000AF			600AF/1000AF			600AF/1000AF			600AF/1000AF		

LOCATION	DEVICE ID	FOR 1250kW UPS-3/(3+1) (SYSTEM OUTPUT - 3750kW)			FOR 1250kW UPS-2/(2+1) (SYSTEM OUTPUT - 2500kW)			FOR 1250kW UPS-(1+1) (SYSTEM OUTPUT - 1250kW)		
		RATING			RATING			RATING		
		@380V	@400V	@415V	@380V	@400V	@415V	@380V	@400V	@415V
MSB	UIB	2500 ⁴	2500 ⁴	2500 ⁴	2500 ⁴	2500 ⁴	2500 ⁴	2500 ⁴	2500 ⁴	2500 ⁴
	SSIB	2000 ⁵	2000 ⁵	2000 ⁴	2000 ⁵	2000 ⁵	2000 ⁴	2000 ⁵	2000 ⁵	2000 ⁴
SBC	MBB / SIB	6300A			4000A			2000A		
	UOB	2000 ⁵	2000 ⁵	2000 ⁴	2000 ⁵	2000 ⁵	2000 ⁴	2000 ⁵	2000 ⁵	2000 ⁴
CBC	BB	600AF			600AF			600AF		
BBC	BB	4000AF			4000AF			4000AF		
BBB	BB	600AF/1000AF			600AF/1000AF			600AF/1000AF		

LOCATION	DEVICE ID	FOR 1500kW UPS-2/(2+1) (SYSTEM OUTPUT - 3000kW)			FOR 1500kW UPS-(1+1) (SYSTEM OUTPUT - 1500kW)		
		RATING			RATING		
		@380V	@400V	@415V	@380V	@400V	@415V
MSB	UIB	3200 ⁴	3200 ⁴	3200 ⁴	3200 ⁴	3200 ⁴	3200 ⁴
	SSIB	2500 ⁶	2500 ⁶	2500 ⁴	2500 ⁶	2500 ⁶	2500 ⁴
SBC	MBB / SIB	6300A			2500A		
	UOB	2500 ⁶	2500 ⁶	2500 ⁴	2500 ⁶	2500 ⁶	2500 ⁴
CBC	BB	600AF			600AF		
BBC	BB	4000AF			4000AF		
BBB	BB	600AF/1000AF			600AF/1000AF		

Superscript details

4- Long-time setting (Ir) = 0.90

5- Long-time setting (Ir) = 0.98

6- Long-time setting (Ir) = 0.95

6- Long-time setting (Ir) = 0.95

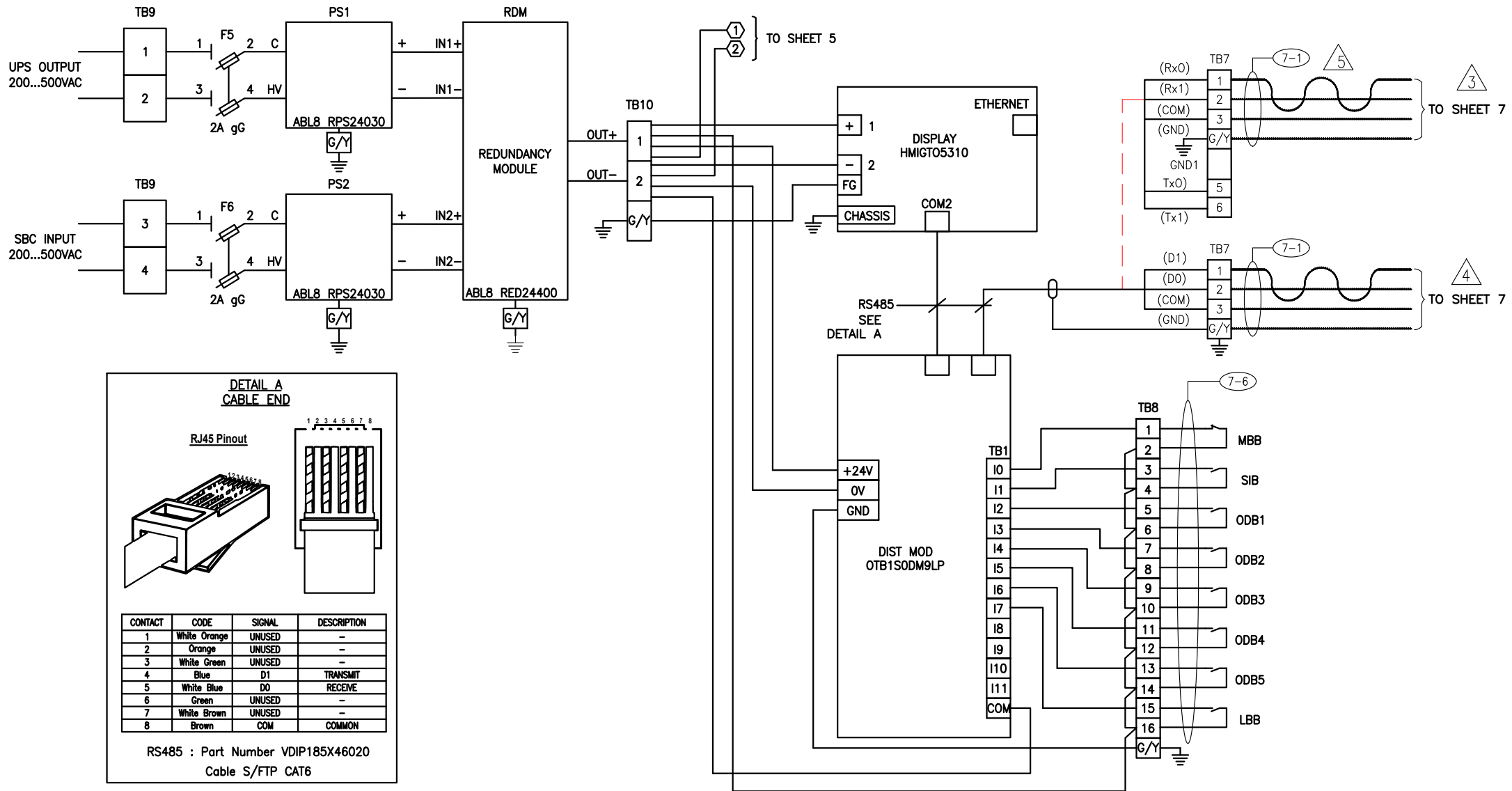
- NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
- △3. CONFIGURATION APPLICABLE IF NUMBER OF BATTERY STRINGS ARE BETWEEN 4 AND 8.
- BATTERY BREAKER RATING (PER STRING) IS 1000A IF NUMBER OF BATTERY STRINGS ARE FROM 4 OR 5.
- BATTERY BREAKER RATING (PER STRING) IS 600A IF NUMBER OF BATTERY STRINGS ARE 6, 7 OR 8.

CURRENT DATA IN AMPS												
DESCRIPTION	FOR 500kW UPS---4 / (4+1) (SYSTEM OUTPUT - 2000kW)			FOR 500kW UPS---3 / (3+1) (SYSTEM OUTPUT - 1500kW)			FOR 500kW UPS---2 / (2+1) (SYSTEM OUTPUT - 1000kW)			FOR 500kW UPS--- (1+1) (SYSTEM OUTPUT - 500kW)		
	@380V	@400V	@415V	@380V	@400V	@415V	@380V	@400V	@415V	@380V	@400V	@415V
NOMINAL UPS INPUT (NO CHARGING)	800	760	731	800	760	731	800	760	731	800	760	731
MAXIMUM UPS INPUT CURRENT**	886	851	819	886	851	819	886	851	819	886	851	819
NOMINAL UPS BYPASS INPUT CURRENT	767	729	703	767	729	703	767	729	703	767	729	703
NOMINAL UPS OUTPUT CURRENT	760	722	696	760	722	696	760	722	696	760	722	696
SYSTEM BYPASS CURRENT	3068	2916	2812	2301	2187	2109	1534	1458	1406	767	729	703
SYSTEM OUTPUT CURRENT	3040	2888	2784	2280	2166	2088	1520	1444	1392	760	722	696
FULL LOAD BATTERY CURRENT @ VMIN)												
PER UPS	1362			1362			1362			1362		

DESCRIPTION	FOR 750kW UPS---4 / (4+1) (SYSTEM OUTPUT - 3000kW)			FOR 750kW UPS---3 / (3+1) (SYSTEM OUTPUT - 2250kW)			FOR 750kW UPS--2/ (2+1) (SYSTEM OUTPUT - 1500kW)			FOR 750kW UPS---- (1+1) (SYSTEM OUTPUT - 750kW)		
	@380V	@400V	@415V	@380V	@400V	@415V	@380V	@400V	@415V	@380V	@400V	@415V
NOMINAL UPS INPUT (NO CHARGING)	1201	1139	1097	1201	1139	1097	1201	1139	1097	1201	1139	1097
MAXIMUM UPS INPUT CURRENT**	1328	1276	1229	1328	1276	1229	1328	1276	1229	1328	1276	1229
NOMINAL UPS BYPASS INPUT CURRENT	1151	1093	1054	1151	1093	1054	1151	1093	1054	1151	1093	1054
NOMINAL UPS OUTPUT CURRENT	1140	1083	1043	1140	1083	1043	1140	1083	1043	1140	1083	1043
SYSTEM BYPASS CURRENT	4604	4372	4216	3453	3279	3162	2302	2186	2108	1151	1093	1054
SYSTEM OUTPUT CURRENT	4560	4332	4172	3420	3249	3129	2280	2166	2086	1140	1083	1043
FULL LOAD BATTERY CURRENT @ VMIN)	2043			2043			2043			2043		
PER UPS												

DESCRIPTION	FOR 1000kW UPS---4 / (4+1) (SYSTEM OUTPUT - 4000kW)			FOR 1000kW UPS---3 / (3+1) (SYSTEM OUTPUT - 3000kW)			FOR 1000kW UPS--2/ (2+1) (SYSTEM OUTPUT - 2000kW)			FOR 1000kW UPS--- (1+1) (SYSTEM OUTPUT - 1000kW)		
	@380V	@400V	@415V	@380V	@400V	@415V	@380V	@400V	@415V	@380V	@400V	@415V
NOMINAL UPS INPUT (NO CHARGING)	1601	1519	1463	1601	1519	1463	1601	1519	1463	1601	1519	1463
MAXIMUM UPS INPUT CURRENT**	1771	1702	1638	1771	1702	1638	1771	1702	1638	1771	1702	1638
NOMINAL UPS BYPASS INPUT CURRENT	1535	1458	1405	1535	1458	1405	1535	1458	1405	1535	1458	1405
NOMINAL UPS OUTPUT CURRENT	1519	1443	1391	1519	1443	1391	1519	1443	1391	1519	1443	1391
SYSTEM BYPASS CURRENT	6140	5832	5620	4605	4374	4215	3070	2916	2810	1535	1458	1405

INTERFACE/HMI CONTROLS DISPLAY BOX



1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- Δ 3. FOR 4 WIRE CONFIGURATIONS.
- Δ 4. FOR 2 WIRE CONFIGURATIONS.
- Δ 5. CONTROL WIRING CONNECTIONS SHALL BE 1.5 SQMM, PROVIDED BY OTHERS.

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC. THIS DRAWING IS BASED UPON LATEST AVAILABLE INFORMATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE.



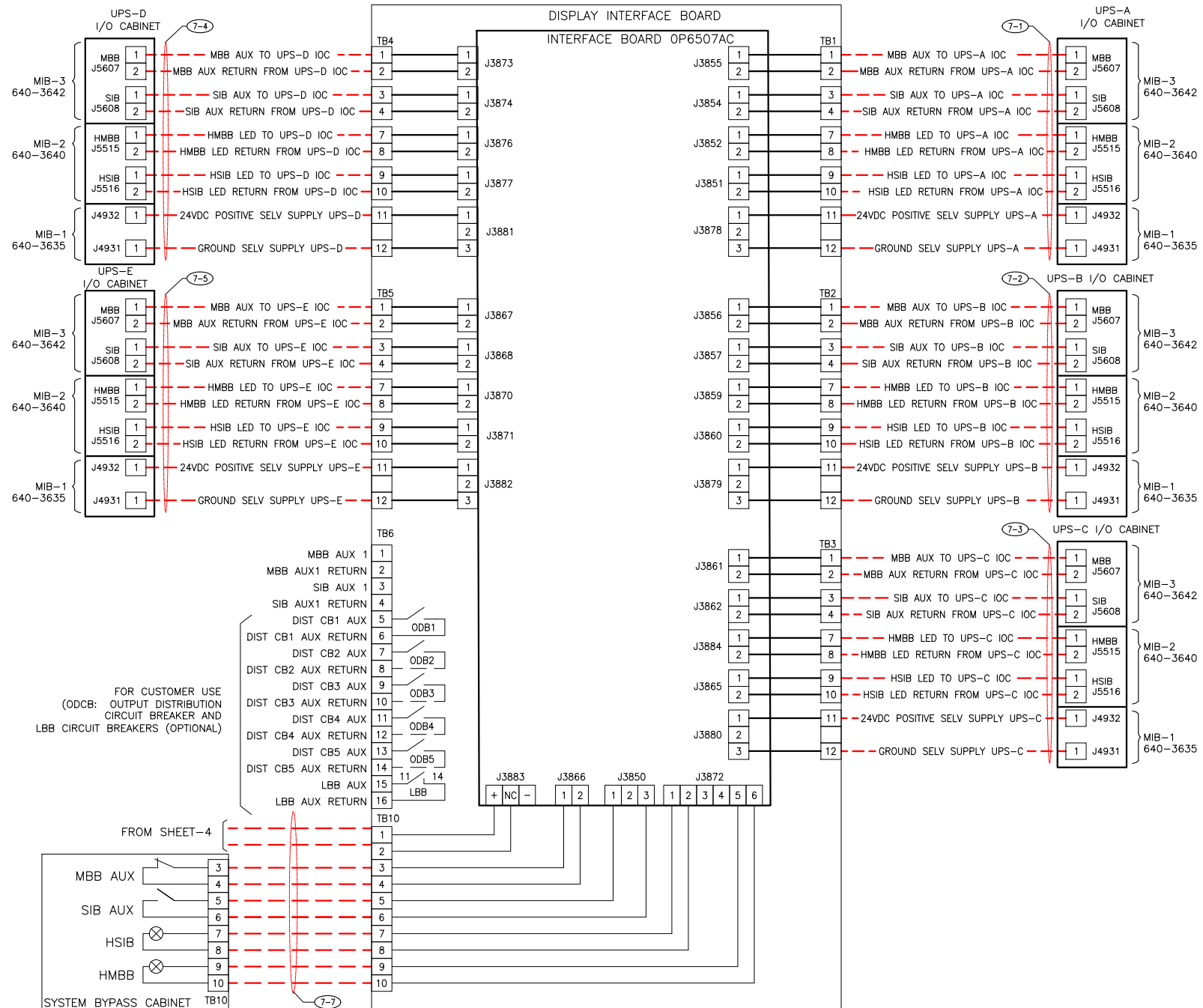
TITLE: Galaxy VX PARALLEL
UPS 500-750-1000-1250-1500kW
Input: 380/400/415V, 3PH, 50Hz
Output 380/400/415V, 3PH, 50Hz
INTERFACE/HMI CONTROLS DISPLAY BOX

PROJECT: DRAWINGS SHEET 4 OF 4

DWG NO:	GVX500K1500HR5-SWD	
DRAWN:	BALAMURUGAN	04-JUN-18
ENGINEER:	D MATHIEU/S MAERENS	12-JUN-18
14 APPROVED:	H N	12-JUN-18

REV.	0
ANGLE PROJECTION:	N/A

INTERFACE DETAILS BETWEEN UPSs AND DISPLAY INTERFACE BOARD



1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. FOR LATEST REVISION OF BOARD PART NUMBERS CONTACT SCHNEIDER ELECTRIC.
4. ALL CIRCUITS CONNECTED MUST HAVE THE SAME 0 V REFERENCE.
5. - - - - CABLES PROVIDED BY OTHERS.

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC. THIS DRAWING IS BASED UPON LATEST AVAILABLE INFORMATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE.



TITLE: Galaxy VX PARALLEL
UPS 500-750-1000-1250-1500kW
Input: 380/400/415V, 3PH, 50Hz
Output: 380/400/415V, 3PH, 50Hz
INTERFACE BETWEEN UPS & INTERFACE BOARD

PROJECT: DRAWINGS **SHEET** 5 OF 14

DWG NO: GVX500K1500HR5-SWD

DRAWN: BALAMURUGAN **04-JUN-18**

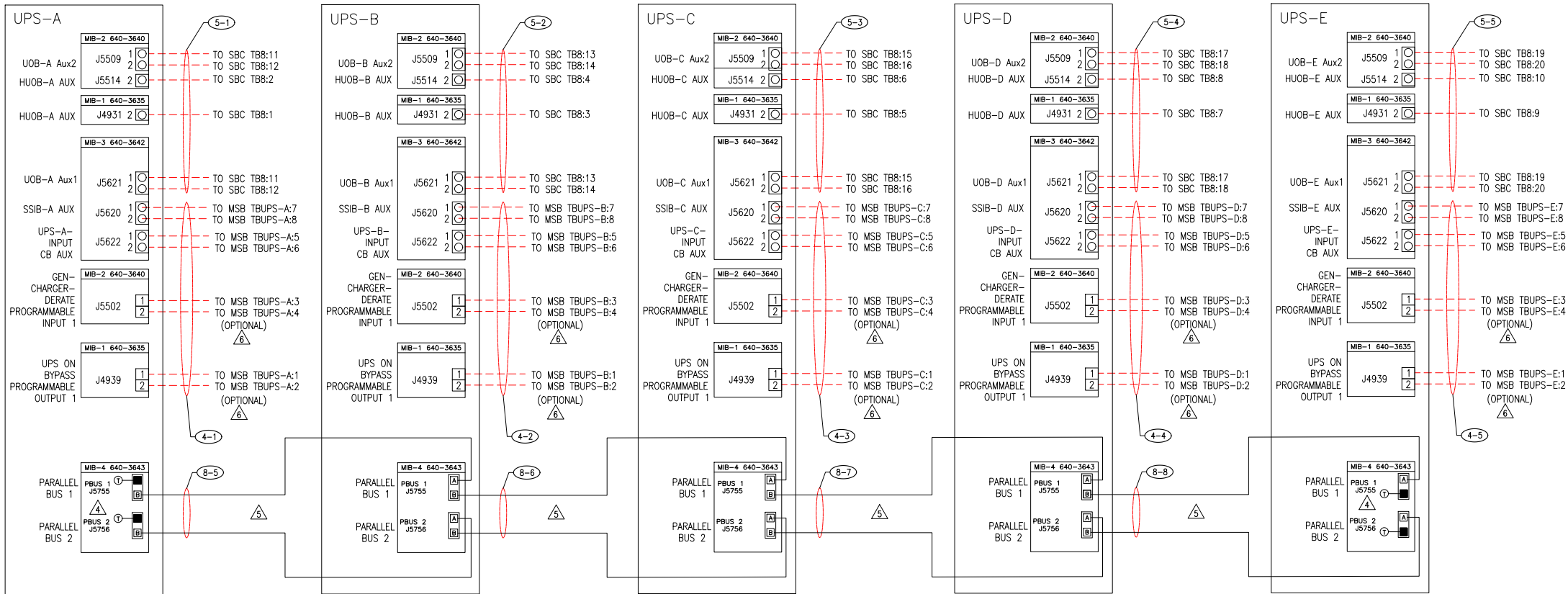
ENGINEER: D. MATHIEU/S. MAERENS **12-JUN-18**

APPROVED: H N **12-JUN-18**

REV: 0

ANGLE PROJECTION: N/A

INTERFACE DETAILS BETWEEN UPSs AND SYSTEM BYPASS CABINET



1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. FOR LATEST REVISION OF BOARD PART NUMBERS CONTACT SCHNEIDER ELECTRIC.
- △4. TERMINATORS MUST BE INSTALLED & POSITIONED AS PER INSTALLATION MANUAL FOR PARALLEL OPERATION.
- △5. CAT5 PBUS CABLE (PROVIDED BY OTHERS) SHALL BE INSTALLED IN SEPARATE CONDUITS.

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC. THIS DRAWING IS BASED UPON LATEST AVAILABLE INFORMATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

Schneider Electric

TITLE: Galaxy VX PARALLEL
UPS 500-750-1000-1250-1500kW
Input 380/400/415V, 3PH, 50Hz
Output 380/400/415V, 3PH, 50Hz
INTERFACE BETWEEN UPSs

PROJECT: DRAWINGS | SHEET 6 OF 14

DWG NO: GVX500K1500HR5-SWD

DRAWN: BALAMURUGAN | 04-JUN-18

ENGINEER: D MATHIEU/S MAERENS | 12-JUN-18

APPROVED: H N | 12-JUN-18

REV: 0

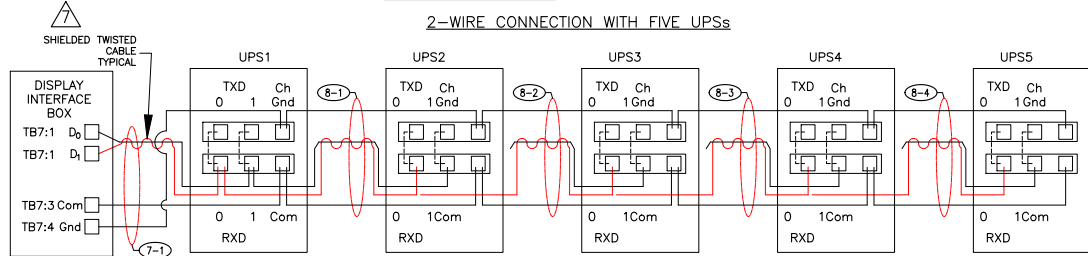
ANGLE

PROJECTION:

N/A

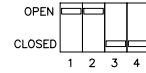
MODBUS CONNECTION

2-WIRE CONNECTION WITH FIVE UPSs

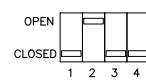


MODBUS DIP SWITCHES SETTING

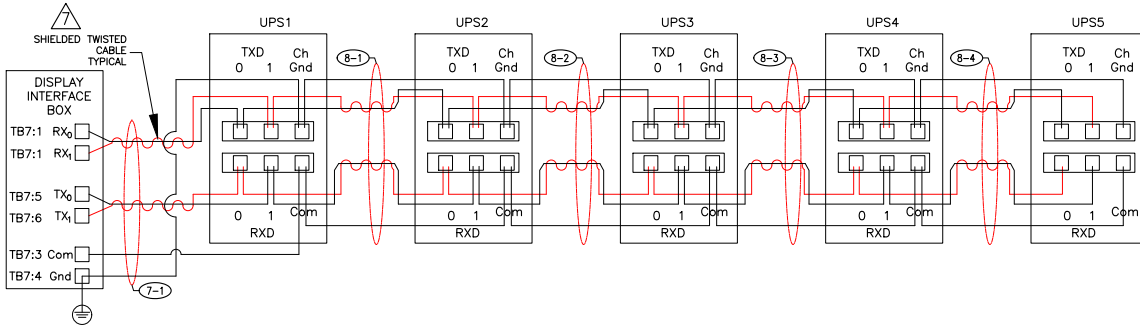
2-WIRE WITHOUT TERMINATION



2-WIRE WITH TERMINATION

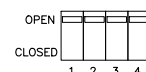


4-WIRE CONNECTION WITH FIVE UPSs

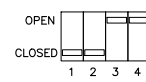


MODBUS DIP SWITCHES SETTING

4-WIRE WITHOUT TERMINATION

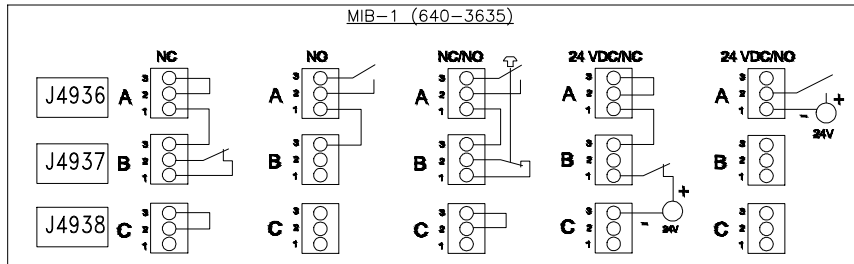


4-WIRE WITH TERMINATION



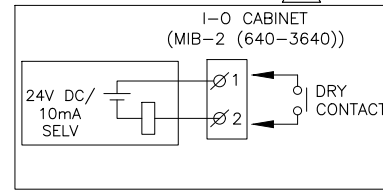
EMERGENCY POWER OFF (EPO) CONFIGURATIONS (IN GVXI1000KH)

MIB-1 (640-3635)



EQUIPMENT TO INPUT CONTACTS AND OUTPUT RELAYS (IN GVXI1500KD)

INPUT CONTACTS



I-O CABINET (MIB-2 640-3640) INPUT CONTACTS

(J5530)	1	2
IN1	1	2
(J5502)	1	2
IN2	1	2
(J5503)	1	2
IN3	1	2
(J5504)	1	2
IN4	1	2
(J5505)	1	2
IN5	1	2
(J5510)	1	2
IN7	1	2
(J5508)	1	2
IN9	1	2
(J5506)	1	2
IN10	1	2
(J5511)	1	2
IN11	1	2
(J5512)	1	2
IN12		

24V DC SELV
EXT/INT

CONFIGURABLE
INPUT
CONTACT

TRANSFORMER
TEMPERATURE SWITCH

FORCED EXTERNAL
SYNCHRONIZATION INPUT

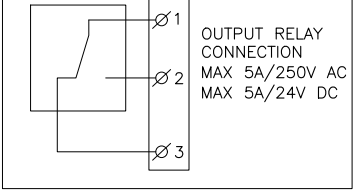
EXTERNAL
SYNCHRONIZATION
REQUESTED

USE STATIC
BYPASS STANDBY

24V DC SELV
MONITORING

OUTPUT RELAYS

I-O CABINET (MIB-1 (640-3635)
, MIB-2(640-3640))



OUTPUT RELAY
CONNECTION
MAX 5A/250V AC
MAX 5A/24V DC

I-O CABINET OUTPUT RELAYS

MIB-1 (640-3635)	OUT1 (J4939)	1	2	3	CONFIGURABLE OUTPUT RELAYS	
	OUT2 (J4940)	1	2	3		
	OUT3 (J4941)	1	2	3		
	MIB-2 (640-3640)	OUT4 (J5520)	1	2	3	FORCED EXTERNAL SYNCHRONIZATION OUTPUT
		OUT5 (J5521)	1	2	3	RESERVED FOR FUTURE USE
		OUT6 (J5522)	1	2	3	EXTERNAL SYNCHRONIZATION REQUESTED OUTPUT
		OUT7 (J5523)	1	2	3	UPS IN INVERTER ON
		OUT8 (J5524)	1	2	3	CONFIGURABLE OUTPUT RELAYS
		OUT9 (J5525)	1	2	3	
OUT10 (J5528)		1	2	3		

1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. FOR LATEST REVISION OF BOARD PART NUMBERS CONTACT SCHNEIDER ELECTRIC.
- △4. DO NOT CONNECT ANY CIRCUIT TO THE EPO TERMINAL BLOCK UNLESS IT CAN BE CONFIRMED THAT THE CIRCUIT IS CLASS 2/SELV. ALL CIRCUITS CONNECTED MUST HAVE THE SAME 0 V REFERENCE.
- △5. MAX 250V AC 5A MUST BE CONNECTED TO THE OUTPUT RELAYS.
ALL EXTERNAL CIRCUIT MUST BE FUSED WITH MAXIMUM 5 A FAST ACTING FUSES.
- △6. DO NOT CONNECT ANY CIRCUIT TO THE INPUT CONTACTS UNLESS IT CAN BE CONFIRMED THAT THE CIRCUIT IS CLASS 2. ALL CIRCUITS CONNECTED MUST HAVE THE SAME 0V REFERENCE.
COMMON SIGNALING TO THE INPUT CONTACTS MUST BE GALVANICALLY ISOLATED TO AVOID CROSS CURRENTS BETWEEN PARALLEL UPSs. AN EXTERNAL SUPPLY MUST BE CONNECTED TO 640-3640 TERMINAL J5530 AND THE SWITCH SW5500 MUST BE IN CLOSED POSITION (PWR IN 24V DC SELV).
- △7. SHIELDED CABLES MUST BE USED FOR MODBUS CONNECTIONS. THE SHIELD CONNECTION TO THE GROUND MUST BE AS SHORT AS POSSIBLE (IDEALLY BELOW 1 cm).

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC. THIS DRAWING IS BASED UPON LATEST AVAILABLE INFORMATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

**Schneider
Electric**

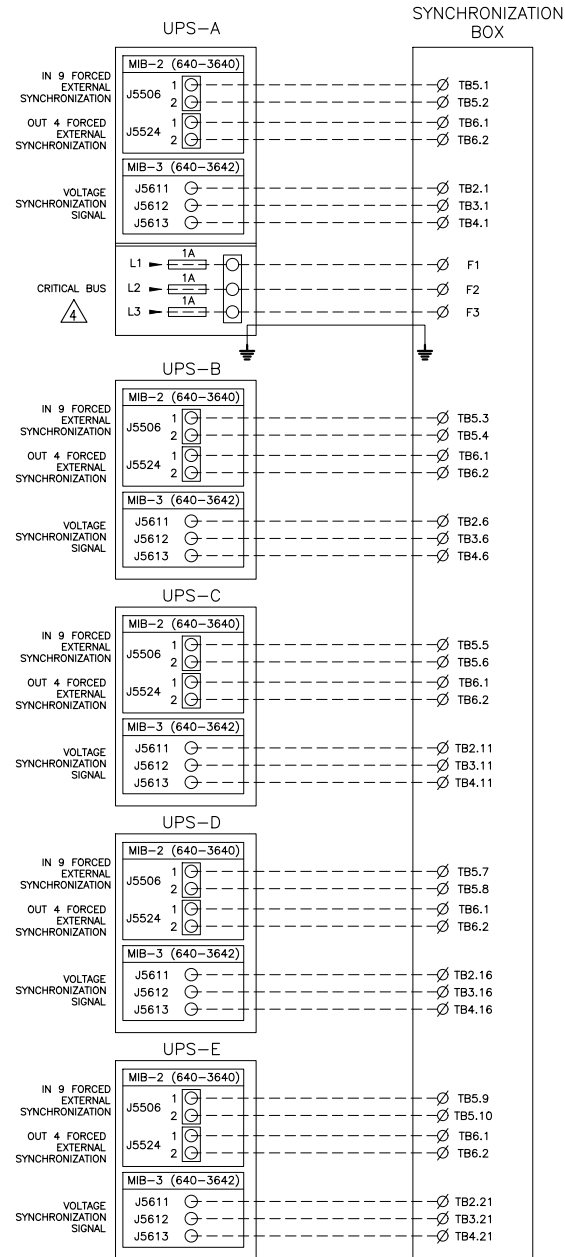
TITLE: Galaxy VX PARALLEL
UPS 500-750-1000-1250-1500kW
Input: 380/400/415V, 3PH, 50Hz
Output: 380/400/415V, 3PH, 50Hz
MODBUS, EPO & INPUT-OUTPUT RELAY DETAILS

PROJECT: DRAWINGS | SHEET 7 OF 14

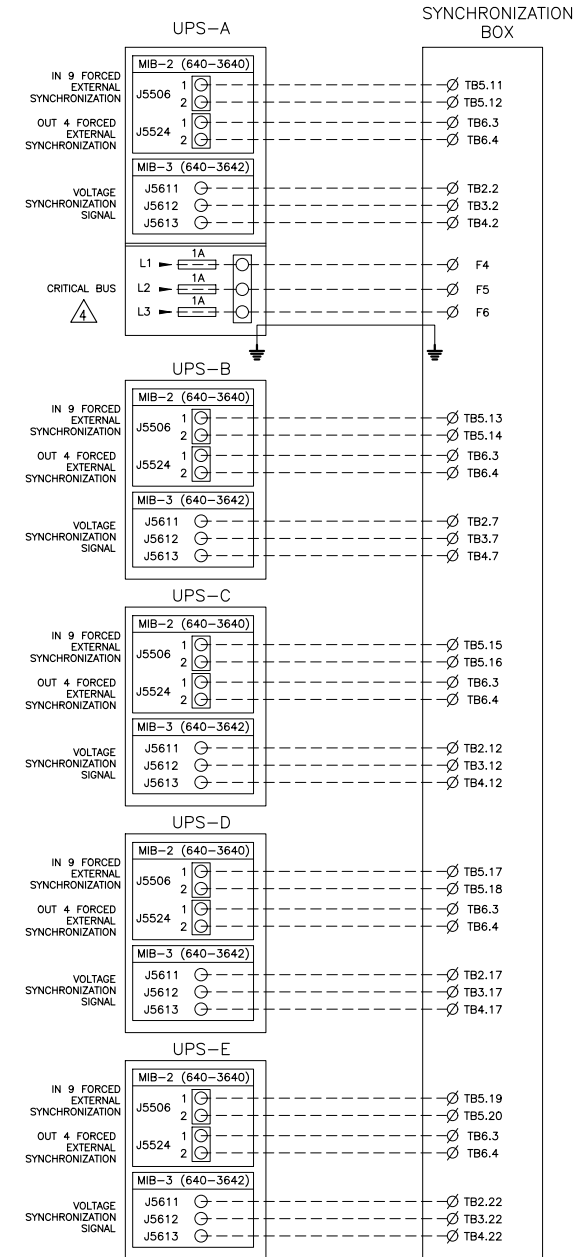
DWG NO: GVX500K1500HR5-SWD
DRAWN: BALAMURUGAN | 04-JUN-18
ENGINEER: D MATHIEU/S MAERENS | 12-JUN-18
APPROVED: H N | 12-JUN-18
REV: 0
ANGLE PROJECTION: N/A

INTERFACE BETWEEN UPSs AND EXTERNAL SYNCHRONIZATION INTERFACE

SYSTEM-A



SYSTEM-B



1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL MULTI WIRE CABLES ARE PROVIDED BY OTHERS AND SHALL BE 600V AC RATED, MINIMUM 0.75 SQMM.
4. FUSES IN CRITICAL BUS PROVIDED BY OUTPUT SWITCHBOARD VENDOR.

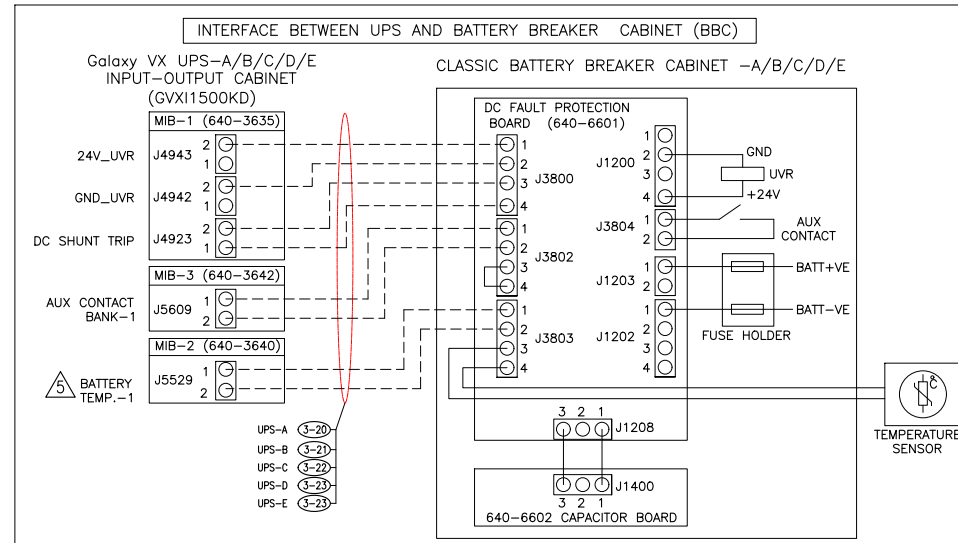
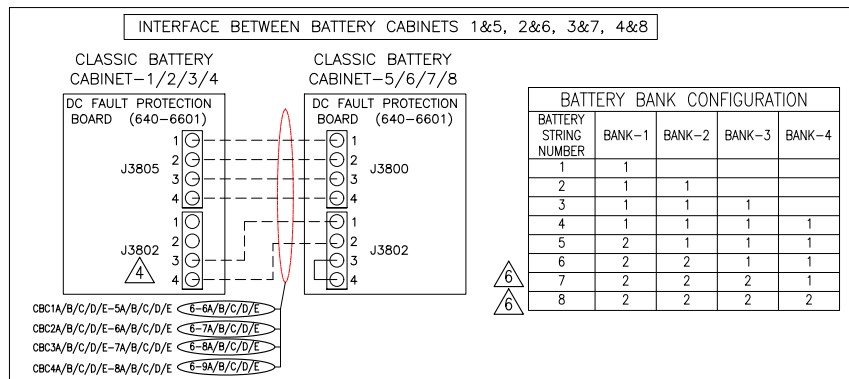
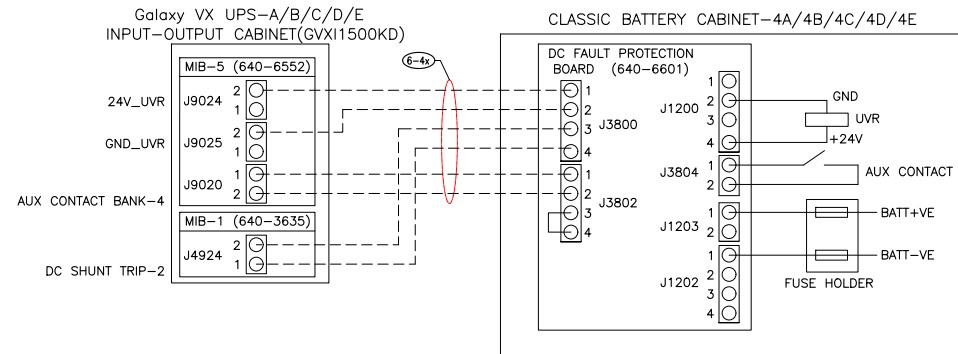
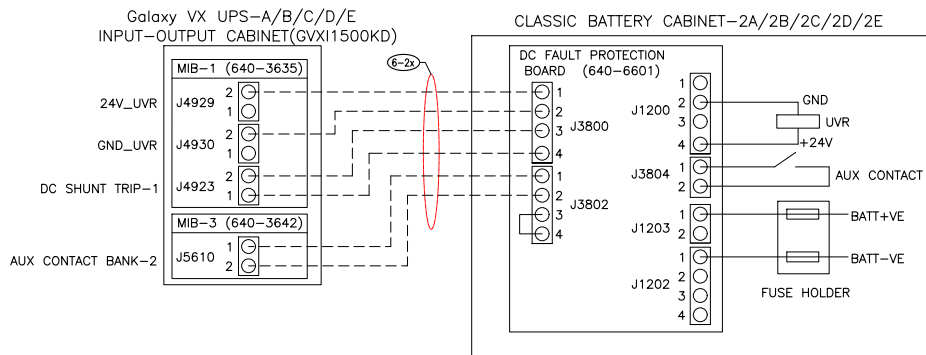
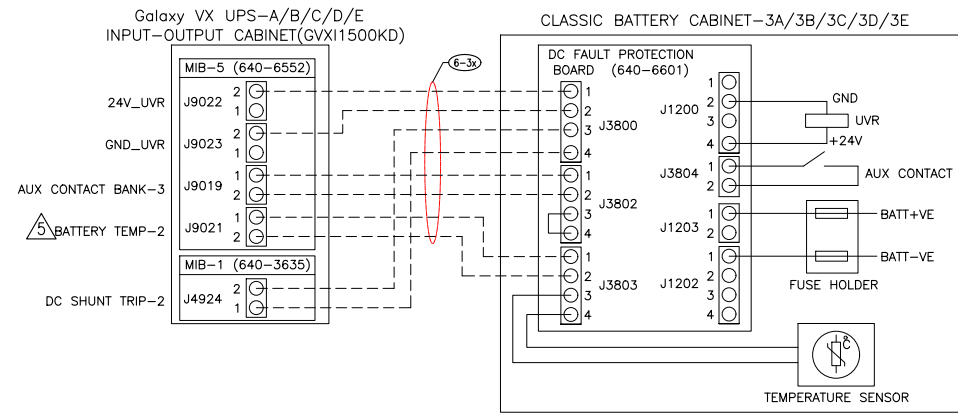
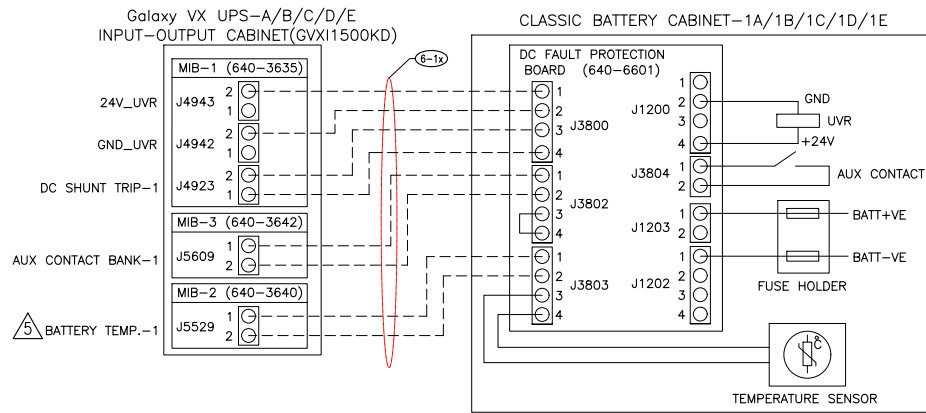
THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC. THIS DRAWING IS BASED UPON LATEST AVAILABLE INFORMATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE.



TITLE: Galaxy VX PARALLEL
UPS 500-750-1000-1250-1500kW
Input: 380/400/415V, 3PH, 50Hz
Output: 380/400/415V, 3PH, 50Hz
EXTERNAL SYNCHRONIZATION INTERFACE DETAILS

DWG NO: GVX500K1500HR5-SWD
DRAWN: BALAMURUGAN
ENGINEER: D. MATHIEU/S. MAERENS
PROJECT: DRAWINGS
SHEET 8 OF 14
REV: 0
04-JUN-18
12-JUN-18
H N
ANGLE PROJECTION: N/A

SIGNAL INTERFACE BETWEEN UPS INPUT-OUTPUT CABINET AND CLASSIC BATTERY CABINETS



1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. FOR LATEST REVISION OF BOARD PART NUMBERS CONTACT SCHNEIDER ELECTRIC.
4. REMOVED THE EXISTING JUMPER BETWEEN TERMINALS 3 AND 4.
5. THE TEMPERATURE SENSORS CAN BE INSTALLED IN ANY OF THE CLASSIC BATTERY CABINETS.
6. STRINGS 7&8 AND/OR BOTTOM ENTRY REQUIRES BATTERY BREAKER CABINET OR CENTER FUSED PULL CABINET.

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC. THIS DRAWING IS BASED UPON LATEST AVAILABLE INFORMATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

Schneider Electric

TITLE: Galaxy VX PARALLEL
UPS 500-750-1000-1250-1500kW
Input: 380/400/415V, 3PH, 50Hz
Output: 380/400/415V, 3PH, 50Hz
INTERFACE DETAILS FOR BATTERY SOLUTION

DWG NO: GVX500K1500HR5-SWD
DRAWN: BALAMURUGAN 04-JUN-18
ENGINEER: D. MATHIEU/S. MAERENS 12-JUN-18
PROJECT: DRAWINGS SHEET 9 OF 14
APPROVED: H N 12-JUN-18
REV: 0
ANGLE PROJECTION: N/A

POWER CABLING -INPUT									
RUN NO.	FROM	TO	CABLE CURRENT RATING (@380V)					QTY OF CABLES	NOTES
			500kW	750kW	1000kW	1250kW	1500kW		
1-1	MSB-UIB-A	UPS-A MAINS / 1	886A	1328A	1771A	2214A	2657A	3 PHASE, 3 WIRE OR 4 WIRE & PE (FOR SINGLE MAINS APPLICATION) 3 PHASE 3 WIRE & PE (WHEN USED IN DUAL MAINS APPLICATION)	SUPPLIED AND CONNECTED BY OTHERS
1-3	MSB-UIB-B	UPS-B MAINS / 1							
1-5	MSB-UIB-C	UPS-C MAINS /1							
1-7	MSB-UIB-D	UPS-D MAINS / 1							
1-9	MSB-UIB-E	UPS-E MAINS / 1	767A	1151A	1535A	1918A	2302A	3 PHASE, 3 WIRE OR 4 WIRE & PE	SUPPLIED AND CONNECTED BY OTHERS
1-2	MSB-SSIB-A	UPS-A MAINS 2							
1-4	MSB-SSIB-B	UPS-B MAINS 2							
1-6	MSB-SSIB-C	UPS-C MAINS 2							
1-8	MSB-SSIB-D	UPS-D MAINS 2							
1-10	MSB-SSIB-E	UPS-E MAINS 2							
1-11	MSB	SBC	3069A	4604A	6139A				
POWER CABLING -OUTPUT									
RUN NO.	FROM	TO	CABLE CURRENT RATING (@380V)					QTY OF CABLES	NOTES
			500kW	750kW	1000kW	1250kW	1500kW		
2-1	MSB-UOB-A	UPS-A OUTPUT	760A	1140A	1519A	1899A	2279A	3 PHASE, 3 WIRE OR 4 WIRE & PE	SUPPLIED AND CONNECTED BY OTHERS
2-2	MSB-UOB-B	UPS-B OUTPUT							
2-3	MSB-UOB-C	UPS-C OUTPUT							
2-4	MSB-UOB-D	UPS-D OUTPUT							
2-5	MSB-UOB-E	UPS-E OUTPUT							

BATTERY POWER CABLING (UPS TO CLASSIC BATTERY CABINET (CBC))										
RUN NO.	FROM	TO	CURRENT PER STRING						QTY OF CABLES	NOTES
			WHEN TOTAL NO. OF STRINGS ARE	500kW	750kW	1000kW	1250kW	1500kW		
3-1A	CBC-1	UPS-A BATT+ / BATT-		N A	N A	N A	N A	2 CABLES & PE	SUPPLIED AND CONNECTED BY OTHERS. PE CABLE MUST BE SIZED SAME AS BATT+ / BATT-	
3-2A	CBC-2	UPS-A BATT+ / BATT-	2	681A						
3-3A	CBC-3	UPS-A BATT+ / BATT-	3	454A						
3-4A	CBC-4	UPS-A BATT+ / BATT-	4	341A	510A					
3-5A	CBC-5	UPS-A BATT+ / BATT-	5	272A	408A	544A				
3-6A	CBC-6	UPS-A BATT+ / BATT-	6	227A	340A	453A	566A			
3-7A	CBC-7	UPS-A BATT+ / BATT-	7	195A	291A	388A	485A			583A
3-8A	CBC-8	UPS-A BATT+ / BATT-	8	170A	255A	340A	425A			510A
BATTERY POWER CABLING BETWEEN UPS B/C/D/E SPECIFICATIONS ARE SIMILAR TO RUN NO 3-1A TO 3-8A, BUT THE RUN NO. SUFFIX FOR UPS B -IS "B" INSTEAD OF "A". EX. BETWEEN UPS-E AMD BATTERY CABINET-7 THE RUN NO WILL BE "3-7E".										

BATTERY POWER CABLING (UPS TO BATTERY BAREAKER BOX(BBB))										
RUN NO.	FROM	TO	CURRENT PER STRING						QTY OF CABLES	NOTES
			WHEN TOTAL NO. OF STRINGS ARE	500kW	750kW	1000kW	1250kW	1500kW		
3-9A	BBB-1A	UPS-A BATT+ / BATT-		N A	N A	N A	N A	2 CABLES & PE	SUPPLIED AND CONNECTED BY OTHERS. PE CABLE MUST BE SIZED SAME AS BATT+ / BATT-	
3-10A	BBB-2A	UPS-A BATT+ / BATT-	2	681A						
3-11A	BBB-3A	UPS-A BATT+ / BATT-	3	454A						
3-12A	BBB-4A	UPS-A BATT+ / BATT-	4	341A	510A					
3-13A	BBB-5A	UPS-A BATT+ / BATT-	5	272A	408A	544A				
3-14A	BBB-6A	UPS-A BATT+ / BATT-	6	227A	340A	453A	566A			
3-15A	BBB-7A	UPS-A BATT+ / BATT-	7	195A	291A	388A	485A			583A
3-16A	BBB-8A	UPS-A BATT+ / BATT-	8	170A	255A	340A	425A			510A
BATTERY POWER CABLING BETWEEN UPS B/C/D/E TO BBB-XB/BBB-XC/BBB-XD/BBB-XE ARE SIMILAR TO UPS-A TO BBB-XA EX. BETWEEN UPS-D AND BATTERY BREAKER BOX-8D WILL HAVE A RUN NO 3-16D.										

BATTERY POWER CABLING (UPS TO BATTERY BREAKER CABINET(BBC))									
RUN NO.	FROM	TO	CABLE CURRENT RATING					QTY OF CABLES	NOTES
			500kW	750kW	1000kW	1250kW	1500kw		
3-17A	BBC-A	UPS-A BATT+ / BATT-	1362A	2043A	2724A	3045A	4086A	2 CABLES & PE	SUPPLIED AND CONNECTED BY OTHERS. PE CABLE MUST BE SIZED SAME AS BATT+ / BATT-
3-17B	BBC-B	UPS-B BATT+ / BATT-							
3-17C	BBC-C	UPS-C BATT+ / BATT-							
3-17D	BBC-D	UPS-D BATT+ / BATT-							
3-17E	BBC-E	UPS-E BATT+ / BATT-							

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

CONTROL AND MONITORING WIRING (UPSs TO INPUT PANEL (MSB))				
RUN NO.		TO	DESCRIPTION	WIRING
4-1	OUT1 MIB1	MSB	UPS ON BYPASS ^{1, 5}	0.75mm ² >1mm ² 600V/105°C STRANDED - PROVIDED BY OTHERS
	OUT1 MIB1	TBUPS-A-1	UPS ON BYPASS ^{1, 5}	
	IN1 MIB2	TBUPS-A-2	GEN CHARGER DERATE ^{1, 2, 4}	
	IN1 MIB2	TBUPS-A-3	GEN CHARGER DERATE ^{1, 2, 4}	
	MIB3	TBUPS-A-4	UIB-A AUX ^{1, 2}	
	MIB3	TBUPS-A-5	UIB-A AUX ^{1, 2}	
	MIB3	TBUPS-A-6	SSIB-A AUX ^{1, 2}	
4-2	OUT1 MIB1	MSB	UPS ON BYPASS ^{1, 5}	0.75mm ² >1mm ² 600V/105°C STRANDED - PROVIDED BY OTHERS
	OUT1 MIB1	TBUPS-B-1	UPS ON BYPASS ^{1, 5}	
	IN1 MIB2	TBUPS-B-2	GEN CHARGER DERATE ^{1, 2, 4}	
	IN1 MIB2	TBUPS-B-3	GEN CHARGER DERATE ^{1, 2, 4}	
	MIB3	TBUPS-B-4	UIB-B AUX ^{1, 2}	
	MIB3	TBUPS-B-5	UIB-B AUX ^{1, 2}	
	MIB3	TBUPS-B-6	SSIB-B AUX ^{1, 2}	
4-3	OUT1 MIB1	MSB	UPS ON BYPASS ^{1, 5}	0.75mm ² >1mm ² 600V/105°C STRANDED - PROVIDED BY OTHERS
	OUT1 MIB1	TBUPS-C-1	UPS ON BYPASS ^{1, 5}	
	IN1 MIB2	TBUPS-C-2	GEN CHARGER DERATE ^{1, 2, 4}	
	IN1 MIB2	TBUPS-C-3	GEN CHARGER DERATE ^{1, 2, 4}	
	MIB3	TBUPS-C-4	UIB-C AUX ^{1, 2}	
	MIB3	TBUPS-C-5	UIB-C AUX ^{1, 2}	
	MIB3	TBUPS-C-6	SSIB-C AUX ^{1, 2}	
4-4	OUT1 MIB1	MSB	UPS ON BYPASS ^{1, 5}	0.75mm ² >1mm ² 600V/105°C STRANDED - PROVIDED BY OTHERS
	OUT1 MIB1	TBUPS-D-1	UPS ON BYPASS ^{1, 5}	
	IN1 MIB2	TBUPS-D-2	GEN CHARGER DERATE ^{1, 2, 4}	
	IN1 MIB2	TBUPS-D-3	GEN CHARGER DERATE ^{1, 2, 4}	
	MIB3	TBUPS-D-4	UIB-D AUX ^{1, 2}	
	MIB3	TBUPS-D-5	UIB-D AUX ^{1, 2}	
	MIB3	TBUPS-D-6	SSIB-D AUX ^{1, 2}	
4-5	OUT1 MIB1	MSB	UPS ON BYPASS ^{1, 5}	0.75mm ² >1mm ² 600V/105°C STRANDED - PROVIDED BY OTHERS
	OUT1 MIB1	TBUPS-E-1	UPS ON BYPASS ^{1, 5}	
	IN1 MIB2	TBUPS-E-2	GEN CHARGER DERATE ^{1, 2, 4}	
	IN1 MIB2	TBUPS-E-3	GEN CHARGER DERATE ^{1, 2, 4}	
	MIB3	TBUPS-E-4	UIB-E AUX ^{1, 2}	
	MIB3	TBUPS-E-5	UIB-E AUX ^{1, 2}	
	MIB3	TBUPS-E-6	SSIB-E AUX ^{1, 2}	
NOTE ¹ All circuits connected must have the same 0 V reference.				
NOTE ² Common signalling to the input contacts must be galvanically isolated to avoid cross currents between parallel UPSs.				
NOTE ³ Each UPS-x requires two separated Output Breaker MIB-x AUX circuits.				
NOTE ⁴ Common signalling to the input contacts must be galvanically isolated to avoid cross currents between parallel UPSs.				
NOTE ⁵ All external circuitry must be fused with maximum 5 A fast acting fuses.				

NOTES:--

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

CONTROL AND MONITORING WIRING (UPSs TO SERVICE BYPASS CABINET (SBC))					
5-1	IN6 MIB2	UPS-A (640-3640) J5509-1	SBC TB8-11	UOB-A AUX-2 ^{1, 3}	0.75mm ² >1mm ² 600V/105°C STRANDED - PROVIDED BY OTHERS
	IN6 MIB2	(640-3640) J5509-2	TB8-12	UOB-A AUX-2 ^{1, 3}	
	MIB3	(640-3642) J5621-1	TB8-11	UOB-A AUX-1 ^{1, 3}	
	MIB3	(640-3642) J5621-2	TB8-12	UOB-A AUX-1 ^{1, 3}	
	MIB1	(640-3635) J 4931-2	TB8-1	HUOB-A AUX ^{1, 3}	
	MIB2	(640-3640) J5514-1	TB8-2	HUOB-A AUX ^{1, 3}	
5-2	IN6 MIB2	UPS-B (640-3640) J5509-1	SBC TB8-13	UOB-B AUX-2 ^{1, 3}	0.75mm ² >1mm ² 600V/105°C STRANDED - PROVIDED BY OTHERS
	IN6 MIB2	(640-3640) J5509-2	TB8-14	UOB-B AUX-2 ^{1, 3}	
	MIB3	(640-3642) J5621-1	TB8-13	UOB-B AUX-1 ^{1, 3}	
	MIB3	(640-3642) J5621-2	TB8-14	UOB-B AUX-1 ^{1, 3}	
	MIB1	(640-3635) J 4931-2	TB8-3	HUOB-B AUX ^{1, 3}	
	MIB2	(640-3640) J5514-1	TB8-4	HUOB-B AUX ^{1, 3}	
5-3	IN6 MIB2	UPS-C (640-3640) J5509-1	SBC TB8-15	UOB-C AUX-2 ^{1, 3}	0.75mm ² >1mm ² 600V/105°C STRANDED - PROVIDED BY OTHERS
	IN6 MIB2	(640-3640) J5509-2	TB8-16	UOB-C AUX-2 ^{1, 3}	
	MIB3	(640-3642) J5621-1	TB8-15	UOB-C AUX-1 ^{1, 3}	
	MIB3	(640-3642) J5621-2	TB8-16	UOB-C AUX-1 ^{1, 3}	
	MIB1	(640-3635) J 4931-2	TB8-5	HUOB-C AUX ^{1, 3}	
	MIB2	(640-3640) J5514-1	TB8-6	HUOB-C AUX ^{1, 3}	
5-4	IN6 MIB2	UPS-D (640-3640) J5509-1	SBC TB8-17	UOB-D AUX-2 ^{1, 3}	0.75mm ² >1mm ² 600V/105°C STRANDED - PROVIDED BY OTHERS
	IN6 MIB2	(640-3640) J5509-2	TB8-18	UOB-D AUX-2 ^{1, 3}	
	MIB3	(640-3642) J5621-1	TB8-17	UOB-D AUX-1 ^{1, 3}	
	MIB3	(640-3642) J5621-2	TB8-18	UOB-D AUX-1 ^{1, 3}	
	MIB1	(640-3635) J 4931-2	TB8-7	HUOB-D AUX ^{1, 3}	
	MIB2	(640-3640) J5514-1	TB8-8	HUOB-D AUX ^{1, 3}	
5-5	IN6 MIB2	UPS-D (640-3640) J5509-1	SBC TB8-19	UOB-E AUX-2 ^{1, 3}	0.75mm ² >1mm ² 600V/105°C STRANDED - PROVIDED BY OTHERS
	IN6 MIB2	(640-3640) J5509-2	TB8-20	UOB-E AUX-2 ^{1, 3}	
	MIB3	(640-3642) J5621-1	TB8-19	UOB-E AUX-1 ^{1, 3}	
	MIB3	(640-3642) J5621-2	TB8-20	UOB-E AUX-1 ^{1, 3}	
	MIB1	(640-3635) J 4931-2	TB8-9	HUOB-E AUX ^{1, 3}	
	MIB2	(640-3640) J5514-1	TB8-10	HUOB-E AUX ^{1, 3}	
NOTE ¹	All circuits connected must have the same 0 V reference.				
NOTE ²	Common signalling to the input contacts must be galvanically isolated to avoid cross currents between parallel UPSs.				
NOTE ³	Each UPS-x requires two separated Output Breaker MIB-x AUX circuits.				
NOTE ⁴	Common signalling to the input contacts must be galvanically isolated to avoid cross currents between parallel UPSs.				
NOTE ⁵	All external circuitry must be fused with maximum 5 A fast acting fuses.				

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC. THIS DRAWING IS BASED UPON LATEST AVAILABLE INFORMATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE.



TITLE: Galaxy VX PARALLEL
UPS 500–750–1000–1250–1500kW
Input: 380/400/415V, 3PH, 50Hz
Output 380/400/415V, 3PH, 50Hz
UPS TO SBC AND UPS TO INPUT PANEL SCHEDULE

PROJECT: DRAWINGS | SHEET 11 OF 14

DWG NO: GVX500K1500HR5–SWD

DRAWN: BALAMURUGAN | 04–JUN–18
ENGINEER: D MATHIEU/S MAERENS | 12–JUN–18

APPROVED: H N | 12–JUN–18

REV: 0

ANGLE PROJECTION: N/A

CONTROL AND MONITORING WIRING BETWEEN UPS CLASSIC BATTERY CABINT(CBC) (CABLE SPECIFICATION AND RUN NO. FOR UPS B/C/D/E ARE TYPICAL AS UPS-A WITH SUFFIX B/C/D/E INPLACE OF "A" FOR UPS B/C/D/E)				
RUN NO.		TO	DESCRIPTION	WIRING
6-1A	UPS-A	CBC-1A (640-6601)		
	MIB1 (640-3635) J4943-2	J3800-1	24VDC	0.75mm ² >1mm ² 600V/105°C PROVIDED BY OTHERS
	MIB1 (640-3635) J4942-2	J3800-2	GND	
	MIB1 (640-3635) J4923-2	J3800-3	BB1 TRIP COMMAND	
	MIB1 (640-3635) J4923-1	J3800-4	BB1 TRIP COMMAND	
	MIB2 (640-3640) J5529-1	J3802-1	TEMP SENSE	
	MIB2 (640-3640) J5529-2	J3802-2	FEEDBACK TEMP	
	MIB3 (640-3642) J5609-1	J3803-1	SENSE FEEDBACK BB1	
MIB3 (640-3642) J5609-2	J3803-2	AUX CONTACT		
6-2A	UPS-A	CBC-2A (640-6601)		
	MIB1 (640-3635) J4929-2	J3800-1	24VDC	0.75mm2 >1mm2 600V/105°C PROVIDED BY OTHERS
	MIB1 (640-3635) J4930-2	J3800-2	GND	
	MIB1 (640-3635) J4923-2	J3800-3	BB2 TRIP COMMAND	
	MIB1 (640-3635) J4923-1	J3800-4	BB2 TRIP COMMAND	
	MIB2 (640-3642) J5610-1	J3802-1	BB2 AUX CONTACT	
	MIB2 (640-3642) J5610-2	J3802-2	BB2 AUX CONTACT	
		J3803-1		
	J3803-2			
6-3A	UPS-A	CBC-3A (640-6601)		
	MIB1 (640-3635) J4924-2	J3800-1	BB3 TRIP COMMAND	0.75mm ² >1mm ² 600V/105°C PROVIDED BY OTHERS
	MIB1 (640-3635) J4924-1	J3800-2	BB3 TRIP COMMAND	
	MIB5 (640-6552) J9019-1	J3800-3	BB3 AUX CONTACT	
	MIB5 (640-6552) J9019-2	J3800-4	BB3 AUX CONTACT	
	MIB5 (640-6552) J9022-2	J3802-1	24VDC	
	MIB5 (640-6552) J9023-2	J3802-2	GND	
		J3803-1		
	J3803-2			
6-4A	UPS-A	CBC-4A (640-6601)		
	MIB1 (640-3635) J4924-2	J3800-1	BB4 TRIP COMMAND	0.75mm ² >1mm ² 600V/105°C PROVIDED BY OTHERS
	MIB1 (640-3635) J4924-1	J3800-2	BB4 TRIP COMMAND	
	MIB5 (640-6552) J9020-1	J3800-3	BB4 AUX CONTACT	
	MIB5 (640-6552) J9020-2	J3800-4	BB4 AUX CONTACT	
	MIB5 (640-6552) J9020-2	J3802-1	24VDC	
	MIB5 (640-6552) J9024-2	J3802-2	GND	
	MIB5 (640-6552) J9025-2	J3803-1		
	J3803-2			
CONTROL AND MONITORING WIRING-BETWEEN BATTERY BERAKER CABINETS(BBC) (CABLE SPECIFICATION AND RUN NO. FOR UPS B/C/D/E ARE TYPICAL AS UPS-A WITH SUFFIX B/C/D/E INPLACE OF "A" FOR UPS B/C/D/E)				
6-9A	UPS-A	BBC-A (640-6601)		
	MIB1 (640-3635) J4943-2	J3800-1	24VDC	0.75mm ² >1mm ² 600V/105°C PROVIDED BY OTHERS
	MIB1 (640-3635) J4942-2	J3800-2	GND	
	MIB1 (640-3635) J4923-2	J3800-3	BB1 TRIP COMMAND	
	MIB1 (640-3635) J4923-1	J3800-4	BB1 TRIP COMMAND	
	MIB2 (640-3640) J5529-1	J3802-1	TEMP SENSE	
	MIB2 (640-3640) J5529-2	J3802-2	FEEDBACK TEMP	
	MIB3 (640-3642) J5609-1	J3803-1	SENSE FEEDBACK BB1	
MIB3 (640-3642) J5609-2	J3803-2	AUX CONTACT		

CONTROL AND MONITORING WIRING-BETWEEN CLASSIC BATTERY CABINETS(CBC) (CABLE SPECIFICATION AND RUN NO. FOR UPS B/C/D/E ARE TYPICAL AS UPS-A WITH SUFFIX B/C/D/E INPLACE OF "A" FOR UPS B/C/D/E)				
RUN NO.		TO	DESCRIPTION	WIRING
6-5A	CBC-1A (640-6601)	CBC-5A (640-6601)	CONTROL INTERFACE BETWEEN CLASSIC BATTERY CABINETS	0.75mm ² >1mm ² 600V/105°C PROVIDED BY OTHERS
	J3805-1	J3805-1		
	J3805-2	J3805-2		
	J3805-3	J3805-3		
	J3805-4	J3805-4		
	J3802-3 **	J3802-1		
	J3802-4 **	J3802-2		
6-6A	CBC-2A (640-6601)	CBC-6A (640-6601)	CONTROL INTERFACE BETWEEN CLASSIC BATTERY CABINETS	0.75mm ² >1mm ² 600V/105°C PROVIDED BY OTHERS
	J3805-1	J3805-1		
	J3805-2	J3805-2		
	J3805-3	J3805-3		
	J3805-4	J3805-4		
	J3802-3 **	J3802-1		
	J3802-4 **	J3802-2		
6-7A	CBC-3A (640-6601)	CBC-7A (640-6601)	CONTROL INTERFACE BETWEEN CLASSIC BATTERY CABINETS	0.75mm ² >1mm ² 600V/105°C PROVIDED BY OTHERS
	J3805-1	J3805-1		
	J3805-2	J3805-2		
	J3805-3	J3805-3		
	J3805-4	J3805-4		
	J3802-3 **	J3802-1		
	J3802-4 **	J3802-2		
6-8A	CBC-4A (640-6601)	CBC-8A (640-6601)	CONTROL INTERFACE BETWEEN CLASSIC BATTERY CABINETS	0.75mm ² >1mm ² 600V/105°C PROVIDED BY OTHERS
	J3805-1	J3805-1		
	J3805-2	J3805-2		
	J3805-3	J3805-3		
	J3805-4	J3805-4		
	J3802-3 **	J3802-1		
	J3802-4 **	J3802-2		

** REMOVE THE EXISTING JUMPER BETWEEN J3802 BETWEEN TERMINALS 3 AND 4

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

CONTROL AND MONITORING WIRING (UPSs TO DISPLAY/INTERFACE BOX (DIB)) (INTERFACE CABLE DETAILS BETWEEN UPS-C/D/E TO DISPLAY/INTERFACE BOX ARE TYPICAL AS UPS-B TO DISPLAY/INTERFACE BOX WITH RUN NO 7-3,7-4 & 7-5 FOR UPS C, D & E RESPECTIVELY AND INPLACE OF TB2 , TB-3 FOR UPSC, TB-4 FOR UPSD AND TB-5 FOR UPS E)				
RUN NO.	FROM	TO	DESCRIPTION	WIRING
7-1	MIB1 MIB1 MIB2 MIB2 MIB2 MIB2 MIB3 MIB3 MIB3 MIB3	UPS-A (640-3635) J4931-1 (640-3635) J4932-1 (640-3640) J5515-1 (640-3640) J5515-2 (640-3640) J5616-1 (640-3640) J5616-2 (640-3642) J5607-1 (640-3642) J5607-2 (640-3642) J5608-1 (640-3642) J5608-2	DIB TB1-12 TB1-11 TB1-7 TB1-8 TB1-9 TB1-10 TB1-1 TB1-2 TB1-3 TB1-4	UPS-A GND SELV UPS-A 24VDC SELV UPS-A HMBP LED CONTROL UPS-A HMBP LED CONTROL UPS-A HMIS LED CONTROL UPS-A HMIS LED CONTROL UPS-A MBP AUX MONITORING UPS-A MBP AUX MONITORING UPS-A MIS AUX MONITORING UPS-A MIS AUX MONITORING
	MODBUS MODBUS MODBUS MODBUS	RXD-0 RXD-1 RXD-COM TXD-CH GND	TB7-1 TB7-2 TB7-3 TB7-4	MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING (FOR 2 WIRE CONFIGURATION)
	MODBUS MODBUS MODBUS MODBUS MODBUS MODBUS	RXD-0 RXD-1 RXD-COM/ TXD-CH GND TXD-0 TXD-1	TB7-1 TB7-2 TB7-3 TB7-4 TB7-5 TB7-6	MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING (FOR 4 WIRE CONFIGURATION)
	MIB1 MIB1 MIB2 MIB2 MIB2 MIB2 MIB3 MIB3 MIB3 MIB3	UPS-B (640-3635) J4931-1 (640-3635) J4932-1 (640-3640) J5527-1 (640-3640) J5527-2 (640-3640) J5515-1 (640-3640) J5515-2 (640-3640) J5616-1 (640-3640) J5616-2 (640-3642) J5607-1 (640-3642) J5607-2 (640-3642) J5608-1 (640-3642) J5608-2	DIB TB2-12 TB2-11 TB2-5 TB2-6 TB2-7 TB2-8 TB2-9 TB2-10 TB2-1 TB2-2 TB2-3 TB2-4	UPS-B GND SELV UPS-B 24VDC SELV UPS-B OK TO OPERATE KIRK KEY UPS-B OK TO OPERATE KIRK KEY UPS-B HMBP LED CONTROL UPS-B HMBP LED CONTROL UPS-B HMIS LED CONTROL UPS-B HMIS LED CONTROL UPS-B MBP AUX MONITORING UPS-B MBP AUX MONITORING UPS-B MIS AUX MONITORING UPS-B MIS AUX MONITORING
	CONTROL AND MONITORING WIRING (SBC TO DISPLAY/INTERFACE BOX)			
7-6	SBC		DIB	
	TB8-1 TB8-3 TB8-5 TB8-7 TB8-9 TB8-11 TB8-13 TB8-15	TB1-10 TB1-11 TB1-12 TB1-13 TB1-14 TB1-15 TB1-16 TB1-17	MBB SIB ODB1 ODB2 ODB3 ODB4 ODB5 LBB	0.75mm2 >1mm2 600V/105°C PROVIDED BY OTHERS
	SBC		DIB	
	TB10-1 TB10-2 TB10-3 TB10-4 TB10-5 TB10-6 TB10-7 TB10-8	TB10-1 TB10-2 TB10-3 TB10-4 TB10-5 TB10-6 TB10-7 TB10-8	MBB AUX. MBB AUX SIB AUX SIB AUX HSIB AUX HSIB AUX HMB AUX HMB AUX	0.75mm2 >1mm2 600V/105°C PROVIDED BY OTHERS

INTERFACE BETWEEN UPS AND EXTERANL. SYNCHRONIZATION UNIT						
SYSTEM-A			SYSTEM-B			
RUN NO.		TO	DESCRIPTION	WIRING	TO	RUN NO.
11-1A	UPS-A MIB2 (640-3640) J5506-1 MIB2 (640-3640) J5506-2	EXT. SYNCH. UNIT TB5-1 TB5-2	IN9- FORCED EXTERNAL SYNCHRONIZATION	1.5mm2 600V/105°C PROVIDED BY OTHERS	EXT. SYNCH. UNIT TB5-11 TB5-12	UPS-A MIB2 (640-3640) J5506-1 MIB2 (640-3640) J5506-2
11-2A	MIB2 (640-3640) J5524-1 MIB2 (640-3640) J5524-2	TB6-1 TB6-2	OUT4- FORCED EXTERNAL SYNCHRONIZATION	1.5mm2 600V/105°C PROVIDED BY OTHERS	TB2-1 TB3-1 TB4-1	MIB2 (640-3640) J5524-1 MIB2 (640-3640) J5524-2
11-3A	MIB3 (640-3642) J5611 MIB3 (640-3642) J5612 MIB3 (640-3642) J5613	EXT. SYNCH. UNIT TB2-1 TB3-1 TB4-1	VOLTAGE SYNC SIGNAL VOLTAGE SYNC SIGNAL VOLTAGE SYNC SIGNAL	1.5mm2 600V/105°C PROVIDED BY OTHERS	CRITICAL BUS INTERFACE L1 CRITICAL BUS INTERFACE L2 CRITICAL	EXT. SYNCH. UNIT OUTPUT SWITCHBOARD L1 L2 L3
11-4A	OUTPUT SWITCHBOARD L1 L2 L3	EXT. SYNCH. UNIT F1 F2 F3	IN9- FORCED EXTERNAL SYNCHRONIZATION	1.5mm2 600V/105°C PROVIDED BY OTHERS	TB5-13 TB5-14	UPS-B MIB2 (640-3640) J5506-1 MIB2 (640-3640) J5506-2
11-5A	MIB2 (640-3640) J5506-1 MIB2 (640-3640) J5506-2	TB5-3 TB5-4	OUT4- FORCED EXTERNAL SYNCHRONIZATION	1.5mm2 600V/105°C PROVIDED BY OTHERS	TB6-3 TB6-4	MIB2 (640-3640) J5524-1 MIB2 (640-3640) J5524-2
11-6A	MIB3 (640-3642) J5611 MIB3 (640-3642) J5612 MIB3 (640-3642) J5613	TB2-6 TB3-6 TB4-6	VOLTAGE SYNC SIGNAL VOLTAGE SYNC SIGNAL VOLTAGE SYNC SIGNAL	1.5mm2 600V/105°C PROVIDED BY OTHERS	TB2-7 TB3-7 TB4-7	MIB3 (640-3642) J5611 MIB3 (640-3642) J5612 MIB3 (640-3642) J5613
11-7A	UPS-B MIB2 (640-3640) J5506-1 MIB2 (640-3640) J5506-2	EXT. SYNCH. UNIT TB5-5 TB5-6	IN9- FORCED EXTERNAL SYNCHRONIZATION	1.5mm2 600V/105°C PROVIDED BY OTHERS	EXT. SYNCH. UNIT TB5-15 TB5-16	UPS-C MIB2 (640-3640) J5506-1 MIB2 (640-3640) J5506-2
11-8A	MIB2 (640-3640) J5524-1 MIB2 (640-3640) J5524-2	TB6-1 TB6-2	OUT4- FORCED EXTERNAL SYNCHRONIZATION	1.5mm2 600V/105°C PROVIDED BY OTHERS	TB6-3 TB6-4	MIB2 (640-3640) J5524-1 MIB2 (640-3640) J5524-2
11-9A	MIB3 (640-3642) J5611 MIB3 (640-3642) J5612 MIB3 (640-3642) J5613	TB2-11 TB3-11 TB4-11	VOLTAGE SYNC SIGNAL VOLTAGE SYNC SIGNAL VOLTAGE SYNC SIGNAL	1.5mm2 600V/105°C PROVIDED BY OTHERS	TB2-12 TB3-12 TB4-12	MIB3 (640-3642) J5611 MIB3 (640-3642) J5612 MIB3 (640-3642) J5613
11-10A	UPS-D MIB2 (640-3640) J5506-1 MIB2 (640-3640) J5506-2	EXT. SYNCH. UNIT TB5-7 TB5-8	IN9- FORCED EXTERNAL SYNCHRONIZATION	1.5mm2 600V/105°C PROVIDED BY OTHERS	EXT. SYNCH. UNIT TB5-17 TB5-18	UPS-D MIB2 (640-3640) J5506-1 MIB2 (640-3640) J5506-2
11-11A	MIB2 (640-3640) J5524-1 MIB2 (640-3640) J5524-2	TB6-1 TB6-2	OUT4- FORCED EXTERNAL SYNCHRONIZATION	1.5mm2 600V/105°C PROVIDED BY OTHERS	TB6-3 TB6-4	MIB2 (640-3640) J5524-1 MIB2 (640-3640) J5524-2
11-11B	MIB3 (640-3642) J5611 MIB3 (640-3642) J5612 MIB3 (640-3642) J5613	TB2-21 TB3-21 TB4-21	VOLTAGE SYNC SIGNAL VOLTAGE SYNC SIGNAL VOLTAGE SYNC SIGNAL	1.5mm2 600V/105°C PROVIDED BY OTHERS	TB2-22 TB3-22 TB4-22	MIB3 (640-3642) J5611 MIB3 (640-3642) J5612 MIB3 (640-3642) J5613

- NOTES:–
1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.

MODBUS AND PBUS COMMUNICATION (BETWEEN UPSs) 2 WIRE CONFIGURATION				
RUN NO.	FROM	TO	DESCRIPTION	WIRING
8-1	UPS-A MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND	UPS-B MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND	MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING	0.2mm ² >0.5mm ² 600V/105°C PROVIDED BY OTHERS
8-5	UPS-A MIB4 640-3643 J5755-B MIB4 640-3643 J5756-B	UPS-B MIB4 640-3643 J5755-A MIB4 640-3643 J5756-A	PBUS-1 PBUS-2	CAT 5 PBUS-1 CABLE PROVIDED BY SCHNEIDER ELECTRIC
8-2	UPS-B MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND	UPS-C MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND	MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING	0.2mm ² >0.5mm ² 600V/105°C PROVIDED BY OTHERS
8-6	UPS-B MIB4 640-3643 J5755-B MIB4 640-3643 J5756-B	UPS-C MIB4 640-3643 J5755-A MIB4 640-3643 J5756-A	PBUS-1 PBUS-2	CAT 5 PBUS-1 CABLE PROVIDED BY SCHNEIDER ELECTRIC
8-3	UPS-C MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND	UPS-D MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND	MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING	0.2mm2 >0.5mm2 600V/105°C PROVIDED BY OTHERS
8-7	UPS-C MIB4 640-3643 J5755-B MIB4 640-3643 J5756-B	UPS-D MIB4 640-3643 J5755-A MIB4 640-3643 J5756-A	PBUS-1 PBUS-2	CAT 5 PBUS-1 CABLE PROVIDED BY SCHNEIDER ELECTRIC
8-4	UPS-D MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND	UPS-E MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND	MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING	0.2mm2 >0.5mm2 600V/105°C PROVIDED BY OTHERS
8-8	UPS-D MIB4 640-3643 J5755-B MIB4 640-3643 J5756-B	UPS-E MIB4 640-3643 J5755-A MIB4 640-3643 J5756-A	PBUS-1 PBUS-2	CAT 5 PBUS-1 CABLE PROVIDED BY SCHNEIDER ELECTRIC

MODBUS AND PBUS COMMUNICATION (BETWEEN UPSs) 4 WIRE CONFIGURATION				
RUN NO.	FROM	TO	DESCRIPTION	WIRING
8-1	UPS-A MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND TXD-0 TXD-1	UPS-B MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND TXD-0 TXD-1	MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING	0.2mm ² >0.5mm ² 600V/105°C PROVIDED BY OTHERS
8-5	UPS-A MIB4 640-3643 J5755-B MIB4 640-3643 J5756-B	UPS-B MIB4 640-3643 J5755-A MIB4 640-3643 J5756-A	PBUS-1 PBUS-2	CAT 5 PBUS-1 CABLE PROVIDED BY SCHNEIDER ELECTRIC
8-2	UPS-B MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND TXD-0 TXD-1	UPS-C MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND TXD-0 TXD-1	MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING	0.2mm ² >0.5mm ² 600V/105°C PROVIDED BY OTHERS
8-6	UPS-B MIB4 640-3643 J5755-B MIB4 640-3643 J5756-B	UPS-C MIB4 640-3643 J5755-A MIB4 640-3643 J5756-A	PBUS-1 PBUS-2	CAT 5 PBUS-1 CABLE PROVIDED BY SCHNEIDER ELECTRIC
8-3	UPS-C MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND TXD-0 TXD-1	UPS-D MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND TXD-0 TXD-1	MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING	0.2mm2 >0.5mm2 600V/105°C PROVIDED BY OTHERS
8-7	UPS-C MIB4 640-3643 J5755-B MIB4 640-3643 J5756-B	UPS-D MIB4 640-3643 J5755-A MIB4 640-3643 J5756-A	PBUS-1 PBUS-2	CAT 5 PBUS-1 CABLE PROVIDED BY SCHNEIDER ELECTRIC
8-4	UPS-D MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND TXD-0 TXD-1	UPS-E MODBUS BOARD RXD-0 RXD-1 RXD-COM TXD-CH GND TXD-0 TXD-1	MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING MODBUS MONITORING	0.2mm2 >0.5mm2 600V/105°C PROVIDED BY OTHERS
8-8	UPS-D MIB4 640-3643 J5755-B MIB4 640-3643 J5756-B	UPS-E MIB4 640-3643 J5755-A MIB4 640-3643 J5756-A	PBUS-1 PBUS-2	CAT 5 PBUS-1 CABLE PROVIDED BY SCHNEIDER ELECTRIC

CONTROL AND MONITORING WIRING				(BETWEEN
DISPLAY/INTERFACE BOX TO SBC / MSB)				
9-1	10 "DISPLAY / INTERFACE BOX TB9-1 TB9-2	SBC TB9-3 TB9-4	230 VAC L1 NEUTRAL	0.75mm ² >1mm ² 600V/105°C PROVIDED BY OTHERS
9-2	10 "DISPLAY / INTERFACE BOX TB9-3 TB9-4	MSB TB9-1 TB9-2	230 VAC L1 NEUTRAL	0.75mm2 >1mm2 600V/105°C PROVIDED BY OTHERS
CONTROL AND MONITORING WIRING				(BETWEEN
CUSTOMER REMOTE EPO AND UPSs)				
10-1	CUSTOMER REMOTE EPO TBD-x ^{6, 7} TBD-x ^{6, 7}	UPS-A J4936-x / J4936-x or J4937-x / J4937-x or J4938-x / J4938-x	2-WIRE CKT (see page 79 & 80 of the installation manual (990- 5809x-001) for location)	0.75mm ² >1mm ² 600V/105°C PROVIDED BY OTHERS
10-2	CUSTOMER REMOTE EPO TBD-x ^{6, 7} TBD-x ^{6, 7}	UPS-B J4936-x / J4936-x or J4937-x / J4937-x or J4938-x / J4938-x	2-WIRE CKT (see page 79 & 80 of the installation manual (990- 5809x-001) for location)	0.75mm2 >1mm2 600V/105°C PROVIDED BY OTHERS
10-2	CUSTOMER REMOTE EPO TBD-x ^{6, 7} TBD-x ^{6, 7}	UPS-C J4936-x / J4936-x or J4937-x / J4937-x or J4938-x / J4938-x	2-WIRE CKT (see page 79 & 80 of the installation manual (990- 5809x-001) for location)	0.75mm2 >1mm2 600V/105°C PROVIDED BY OTHERS
10-2	CUSTOMER REMOTE EPO TBD-x ^{6, 7} TBD-x ^{6, 7}	UPS-D J4936-x / J4936-x or J4937-x / J4937-x or J4938-x / J4938-x	2-WIRE CKT (see page 79 & 80 of the installation manual (990- 5809x-001) for location)	0.75mm2 >1mm2 600V/105°C PROVIDED BY OTHERS
10-2	CUSTOMER REMOTE EPO TBD-x ^{6, 7} TBD-x ^{6, 7}	UPS-E J4936-x / J4936-x or J4937-x / J4937-x or J4938-x / J4938-x	2-WIRE CKT (see page 79 & 80 of the installation manual (990- 5809x-001) for location)	0.75mm2 >1mm2 600V/105°C PROVIDED BY OTHERS
NOTE ⁶	Do not connect any circuit to the EPO terminal block unless it can be confirmed that the circuit is Class 2.			
NOTE ⁷	All circuits connected must have the same 0 V reference. Connect the building EPO according to one of the options as per Product Install Manual.			
J4936				
J4937				
J4938				

NOTES:--

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

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC. THIS DRAWING IS BASED UPON LATEST AVAILABLE INFORMATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE.



TITLE: Galaxy VX PARALLEL
UPS 500-750-1000-1250-1500kW
Input: 380/400/415V, 3PH, 50Hz
Output: 380/400/415V, 3PH, 50Hz
MODBUS, PBUS, SBC TO MSB & EPO SCHEDULE

PROJECT: DRAWINGS | SHEET 14 OF 14

DWG NO: GVX500K1500HR5-SWD
DRAWN: BALAMURUGAN
ENGINEER: D MATHIEU/S MAERENS

APPROVED: H N

REV: 0
ANGLE
PROJECTION: N/A