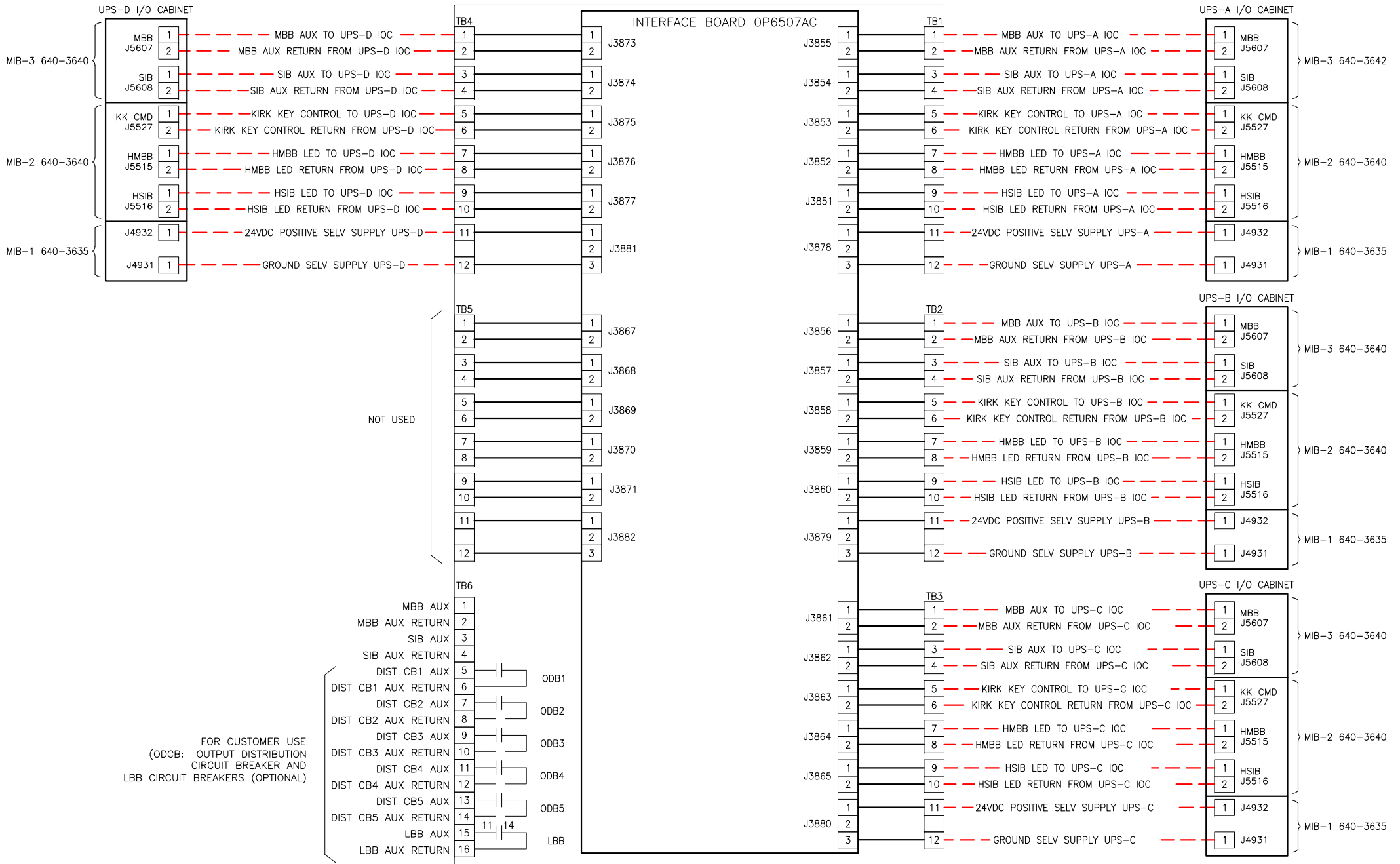


GVX SYSTEM BYPASS CABINET



1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
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. - - - - - =INTERFACE WIRING SHOWN BETWEEN SBC & UPS ARE 16-20 AWG STRANDED, PROVIDED BY OTHERS.

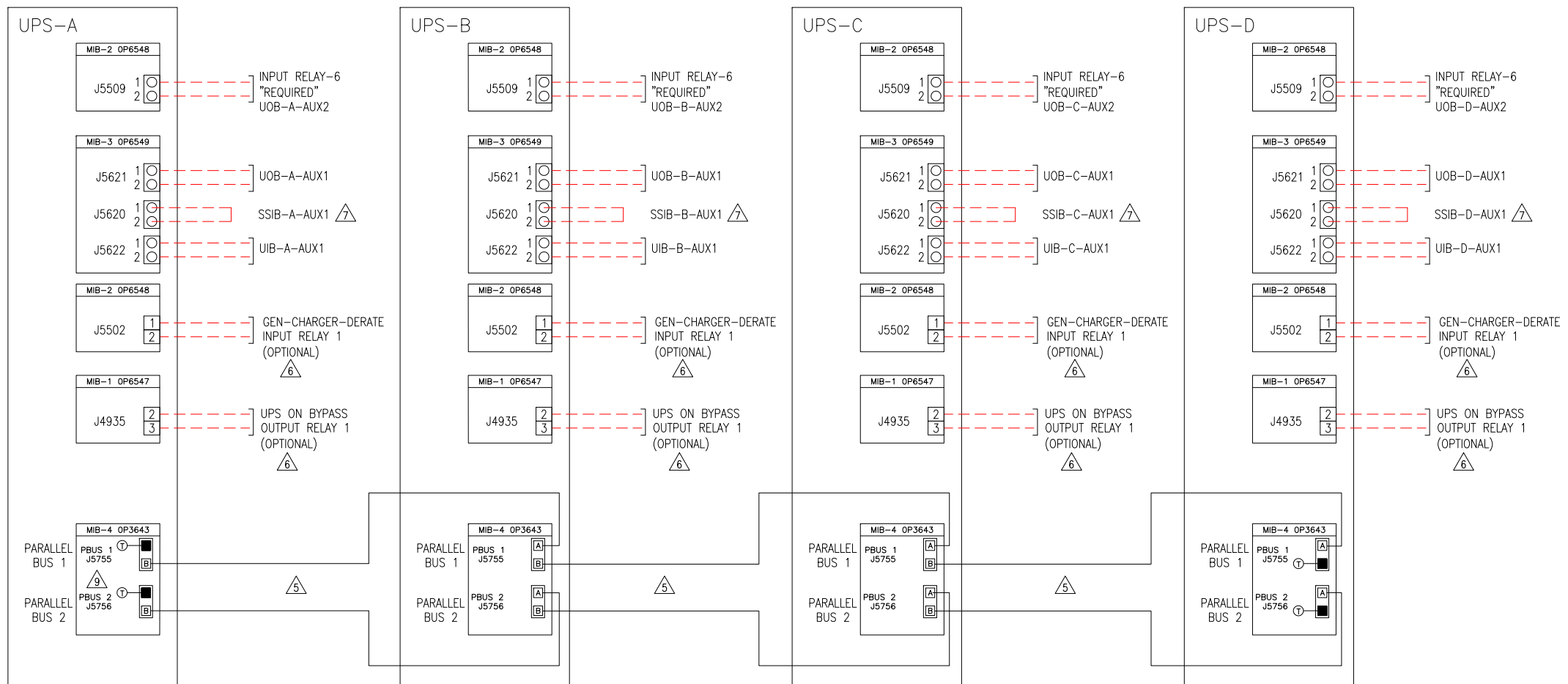
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Schneider Electric

TITLE: GALAXY VV
UPS Input-Output Cabinet Without Backfeed
Input: 480V AC 3PH 60Hz, Single/Dual Mains
Output: 480V AC 3PH 60Hz 500-1250kVA N+1
SYSTEM WIRING DIAGRAM (SBC TO UPS)

DWG NO: GVX11250KDNBF2NGS-WD
DRAWN: RANJITHA
ENGINEER: LARS LINDHOLM
APPROVED: SOEREN ANDERSEN

REV. 0
30-NOV-22
12-DEC-22
12-DEC-22
ANGLE PROJECTION: N/A



1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
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.
- △ PBUS1 CABLES ARE WHITE AND PBUS2 ARE RED, PROVIDED BY SCHNEIDER ELECTRIC.
- THE TOTAL LENGTH OF PBUS CABLES MUST NOT EXCEED 197 FEET (60 METERS).
- △ OPTIONAL - CUSTOMER USE.
- △ FOR SINGLE FEED UPS APPLICATIONS JUMPER MUST BE INSTALLED ONTO TERMINAL J5620 "BY OTHERS".
8. ----- = INTERFACE WIRING SHOWN BETWEEN SBC & UPS ARE 16-20 AWG STRANDED CABLES PROVIDED BY OTHERS.
- △ TERMINATORS MUST BE INSTALLED & POSITIONED AS PER INSTALLATION MANUAL FOR PARALLEL OPERATION.

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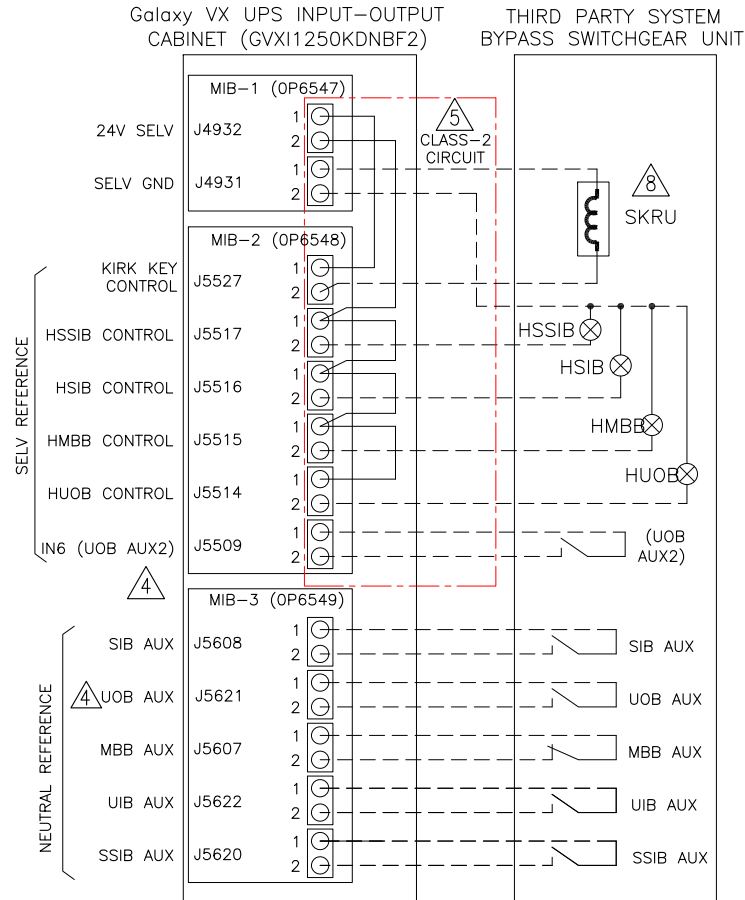
Schneider Electric

TITLE: GALAXY VX
UPS Input-Output Cabinet Without Backfeed
Input: 480V AC 3PH 60Hz, Single/Dual Mains
Output: 480V AC 3PH 60Hz 500-1250kVA N+1
SYSTEM WIRING DIAGRAM (BETWEEN UPSs)
PROJECT: DRAWINGS SHEET 2 OF 7

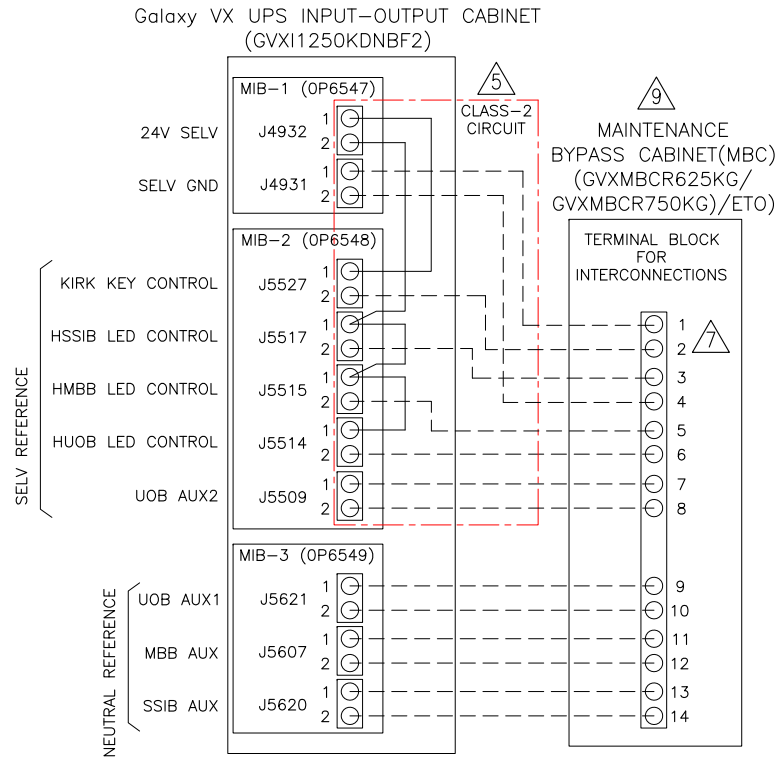
DWG NO: GVX11250KDNBF2NGS-WD
DRAWN: RANJITHA
ENGINEER: LARS LINDHOLM
APPROVED: SOEREN ANDERSEN

REV. 0
30-NOV-22
12-DEC-22
ANGLE PROJECTION: N/A

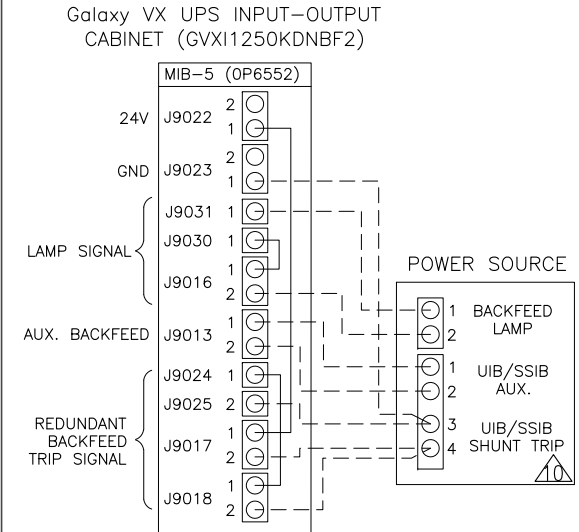
SIGNAL INTERFACE BETWEEN UPS INPUT-OUTPUT CABINET AND THIRD PARTY SYSTEM BYPASS SWITCHGEAR UNIT



SIGNAL INTERFACE BETWEEN UPS INPUT-OUTPUT CABINET AND MAINTENANCE BYPASS CABINET (MBC)



SIGNAL INTERFACE BETWEEN UPS INPUT-OUTPUT CABINET AND THIRD PARTY BACKFEED PROTECTION

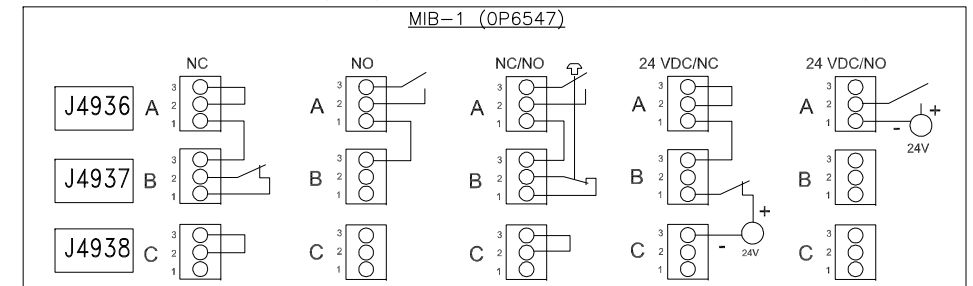


NOTE: IT IS MANDATORY TO USE BACKFEED PROTECTION ON BYPASS BY ONE OF THE FOLLOWING METHODS:

- PRE-INSTALLED BACKFEED BREAKER BF2 IN THE UPS.
- INSTALLATION OF INTERNAL BACKFEED KIT (GVXOPT001) IN THE UPS.
- INSTALLATION OF UPSTREAM BREAKER WITH SHUNT TRIP CONNECTED TO THE UPS:
 - IN CASE OF SINGLE MAINS: USE UIB (UNIT INPUT BREAKER) TRIP COIL FOR BACK FEED PROTECTION.
 - IN CASE OF DUAL MAINS: USE SSIB (STATIC SWITCH INPUT BREAKER) TRIP COIL FOR BACK FEED PROTECTION.

- NOTES:**
- INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 - REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - FOR LATEST REVISION OF BOARD PART NUMBERS CONTACT SCHNEIDER ELECTRIC.
 - THE UOB MUST INCLUDE TWO SEPARATED AUXILIARY SWITCHES.
 - ALL CIRCUITS CONNECTED MUST HAVE THE SAME 0 V REFERENCE.
 - = CABLES PROVIDED BY OTHERS.
 - FOR MBC WITH SSIB CONFIGURATIONS PINS 1 & 2 NOT USED.
 - SKRU RATING SHOULD BE 24V DC.
 - ETO = ENGINEER TO ORDER ITEM. FOR DETAILS CONTACT SCHNEIDER ELECTRIC.
 - GVXMBCR625KG IS APPLICABLE FOR 500kW/625kW ONLY.
 - GVXMBCR750KG IS APPLICABLE FOR 500kW/750kW ONLY.
 - BREAKER SHUNT TRIP MUST BE RATED FOR 24 VDC NOMINAL, INRUSH MAX 200 W. USE DOUBLE INSULATED CABLES TO CONNECT THE BREAKER SHUNT TRIP AND AUX SWITCH.

EMERGENCY POWER OFF (EPO) CONFIGURATIONS (IN GVXI1250KDNBF2)



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Schneider Electric

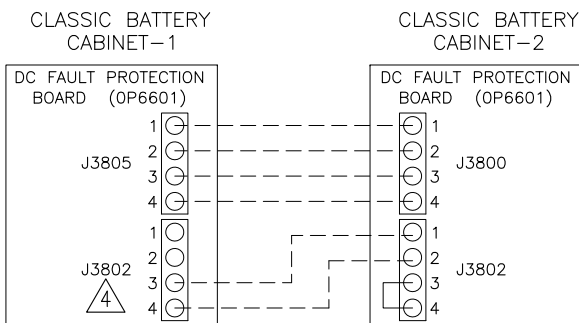
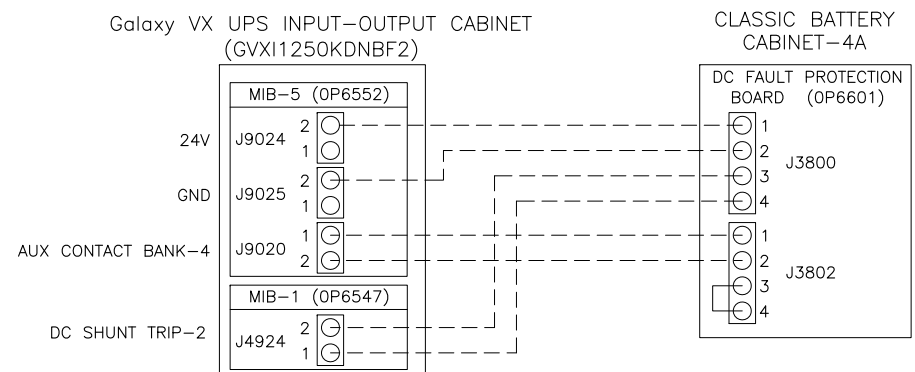
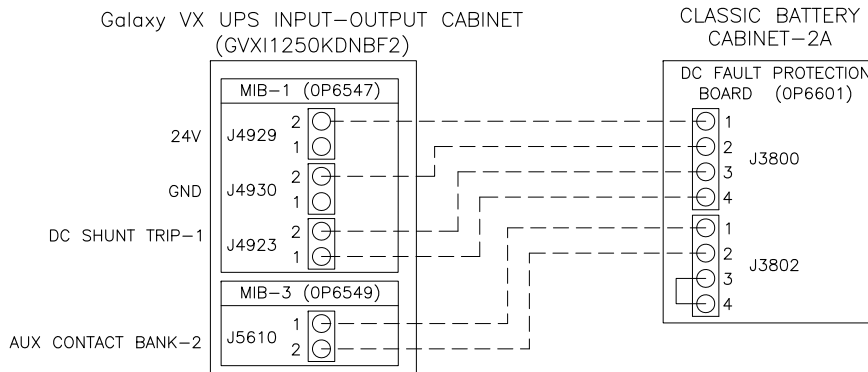
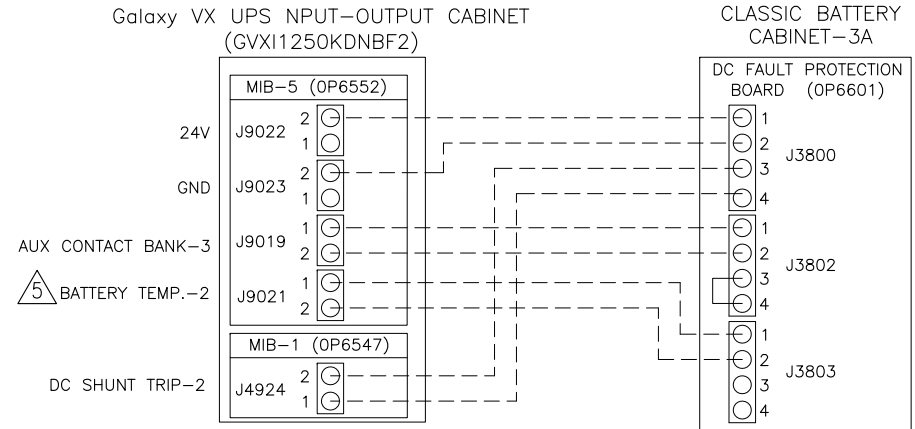
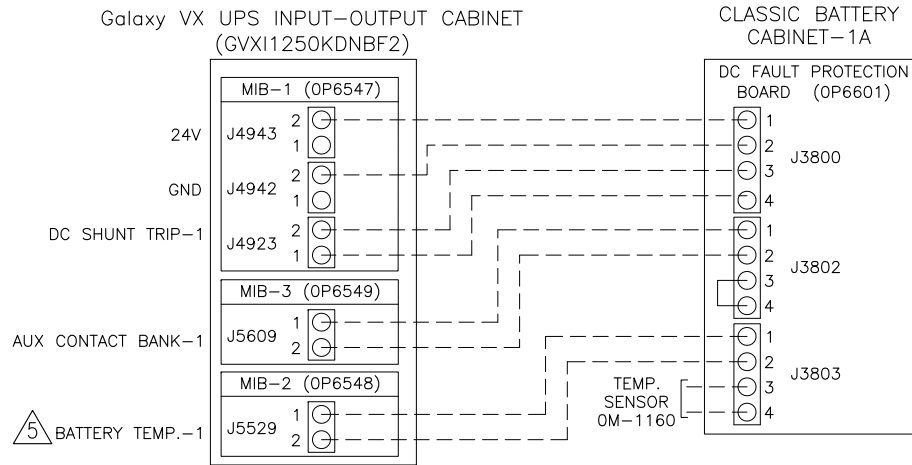
TITLE: GALAXY VX
UPS Input-Output Cabinet Without Backfeed
Input: 480V AC 3PH 60Hz, Single/Dual Mains
Output: 480V AC 3PH 60Hz 500-1250kVA N+1
SYSTEM WIRING DIAGRAM (MBC, EPO&3RD PARTY MBC,BF2)

DWG NO: GVXI1250KDNBF2NGS-WD
DRAWN: RANJITHA
ENGINEER: LARS LINDHOLM
APPROVED: SOEREN ANDERSEN

REV: 0
30-NOV-22
12-DEC-22
12-DEC-22
ANGLE PROJECTION: N/A

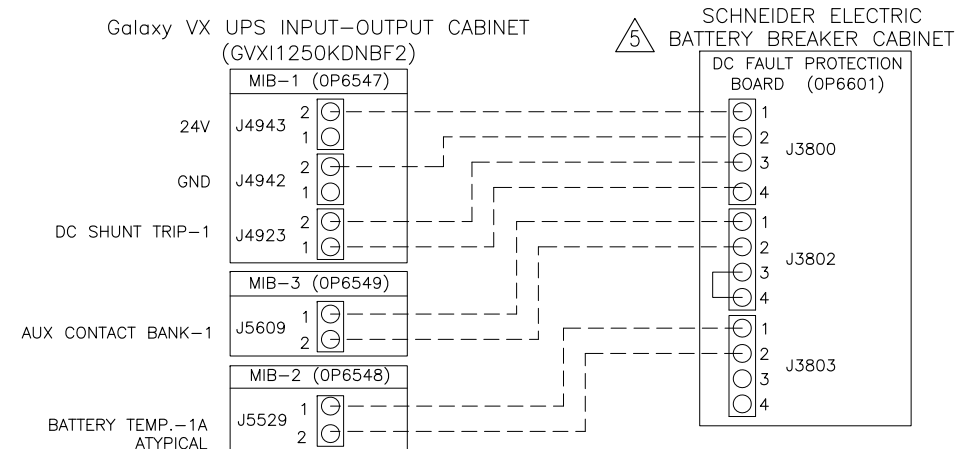
PROJECT: DRAWINGS **SHEET 3 OF 7**

SIGNAL INTERFACE BETWEEN UPS INPUT-OUTPUT CABINET AND CLASSIC BATTERY CABINETS 5 8



BATTERY BANK CONFIGURATION

BATTERY SRTING NUMBER	BANK-1	BANK-2	BANK-3	BANK-4
1	1			
2	1	1		
3	1	1	1	
4	1	1	1	1
5	2	1	1	1
6	2	2	1	1
7	2	2	2	1
8	2	2	2	2



NOTES:

1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
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.
- 7 ETO = ENGINEER TO ORDER ITEM. FOR DETAILS CONTACT SCHNEIDER ELECTRIC.
- 8 FOR LI-ION BATTERY (SKU#LIBSMG95GUL) SOLUTION REFER TO DRAWING NO:- "LIBATSMGGUL-GVX - LI-ION BATTERY RACK TYPE-G UL GVX".

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Schneider Electric

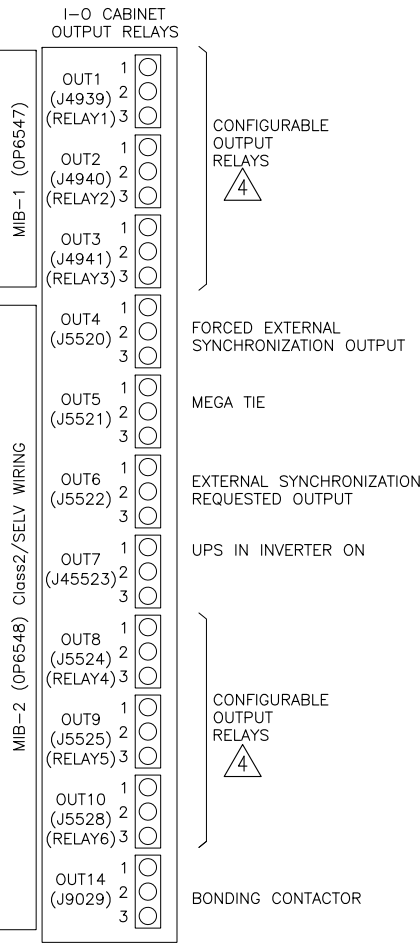
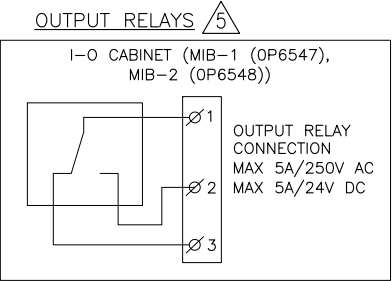
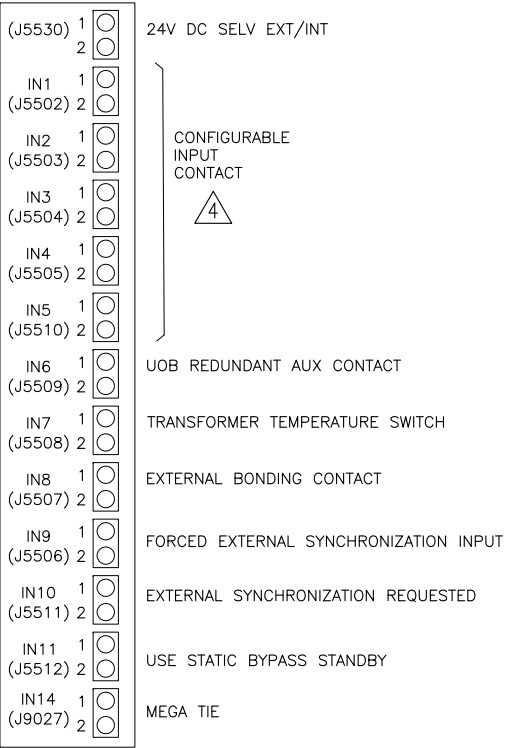
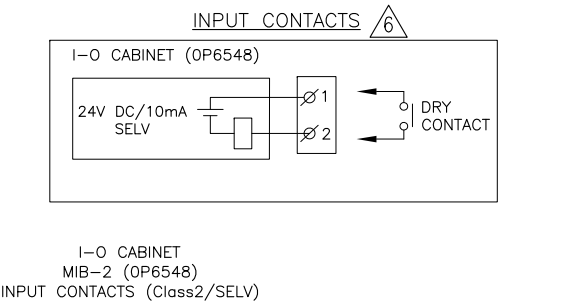
TITLE: GALAXY VX
UPS Input-Output Cabinet Without Backfeed
Input: 480V AC 3PH 60Hz, Single/Dual Mains
Output: 480V AC 3PH 60Hz 500-1250KVA N+1
SYSTEM WIRING DIAGRAM (BATTERY SOLUTION)




DWG NO: GVXI1250KDNBF2NGS-WD
DRAWN: RANJITHA
ENGINEER: LARS LINDHOLM
APPROVED: SOEREN ANDERSEN

REV. 0
30-NOV-22
12-DEC-22
12-DEC-22
ANGLE PROJECTION: N/A

PROJECT: DRAWINGS SHEET 4 OF 7

EQUIPMENT TO INPUT CONTACTS AND OUTPUT RELAYS (IN GVXI1250KDNBF2)



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.
-  REFER TO OPERATION MANUAL FOR CONFIGURATION OPTION.
-  MAX 250V AC 5A MUST BE CONNECTED TO THE OUTPUT RELAYS.
- ALL EXTERNAL CIRCUITRY MUST BE FUSED WITH MAXIMUM 5 A FAST ACTING FUSES.
-  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 OV 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 OP6548 TERMINAL J5530 AND THE SWITCH SW5500 MUST BE IN CLOSED POSITION (PWR IN 24V DC SELV).

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Schneider Electric

TITLE: GALAXY Vx
UPS Input-Output Cabinet Without Backfeed
Input: 480V AC 3PH 60Hz, Single/Dual Mains
Output: 480V AC 3PH 60Hz 500-1250kVA N+1
SYSTEM WIRING DIAGRAM (IN-OUT/PBUS)

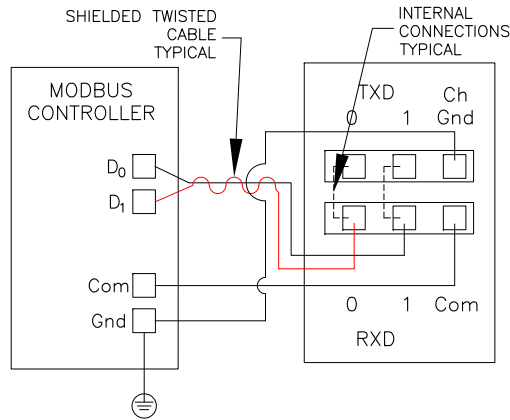
PROJECT: DRAWINGS SHEET 5 OF 7

DWG NO: GVXI1250KDNBF2NGS-WD
DRAWN: RANJITHA 30-NOV-22
ENGINEER: LARS LINDHOLM 12-DEC-22
APPROVED: SOEREN ANDERSEN 12-DEC-22

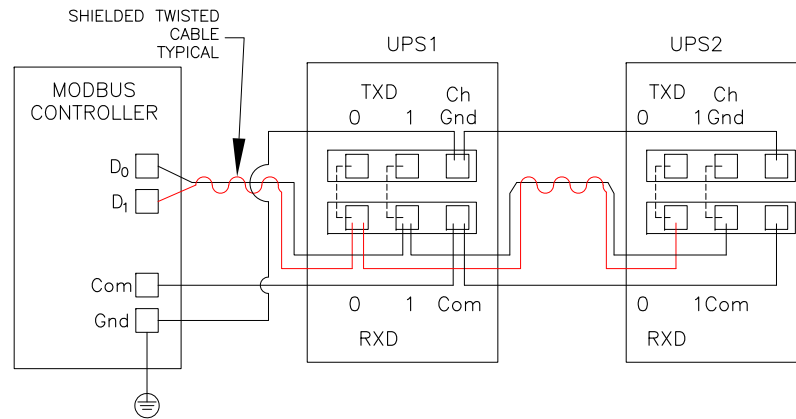
REV. 0
ANGLE PROJECTION: N/A

TYPICAL MODBUS CONNECTION (BOARD 0P6502)

2-WIRE CONNECTION WITH SINGLE UPS

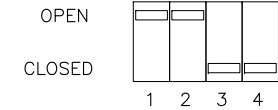


2-WIRE CONNECTION WITH TWO UPSs

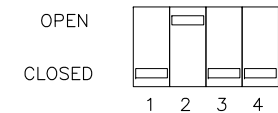


MODBUS DIP SWITCHES SETTING

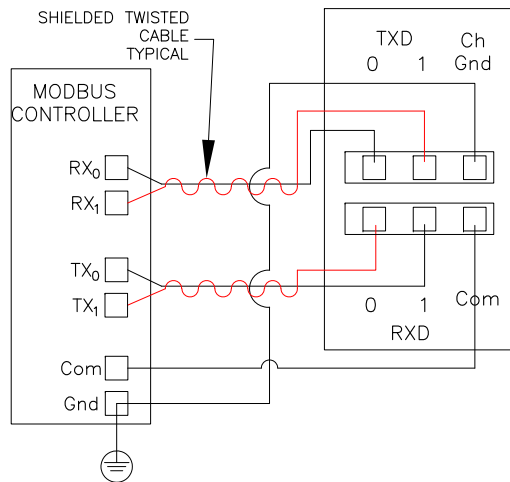
2-WIRE WITHOUT TERMINATION



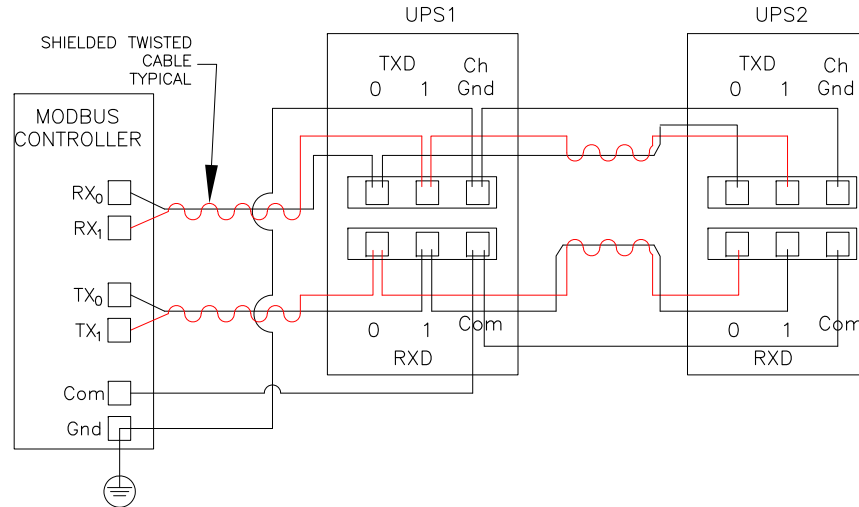
2-WIRE WITH TERMINATION



4-WIRE CONNECTION WITH SINGLE UPS

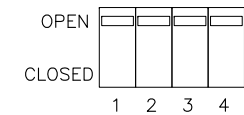


4-WIRE CONNECTION WITH TWO UPSs

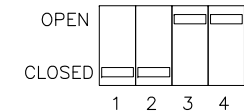


MODBUS DIP SWITCHES SETTING

4-WIRE WITHOUT TERMINATION



4-WIRE WITH TERMINATION



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. SHIELDED CABLES MUST BE USED FOR MODBUS CONNECTIONS. THE SHIELD CONNECTION TO THE GROUND MUST BE AS SHORT AS POSSIBLE (IDEALLY BELOW 1 cm).
5. ---- = INTERNAL WIRING

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**Schneider
Electric**

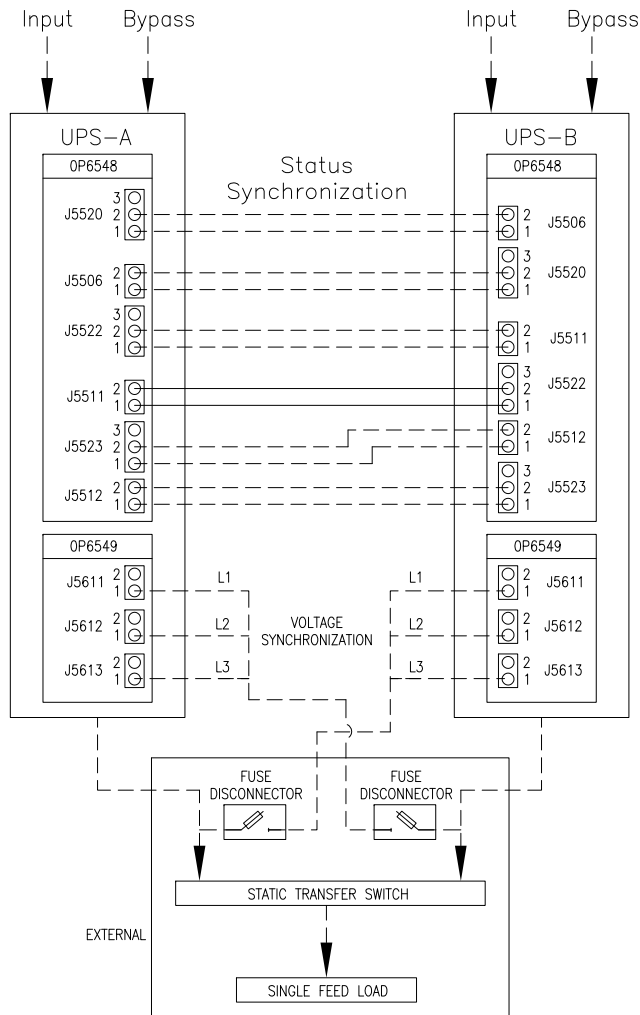
TITLE: GALAXY VX
UPS Input-Output Cabinet Without Backfeed
Input: 480V AC 3PH 60Hz, Single/Dual Mains
Output: 480V AC 3PH 60Hz 500-1250kVA N+1
SYSTEM WIRING DIAGRAM (MODBUS-2 WIRE)

PROJECT: DRAWINGS SHEET 6 OF 7

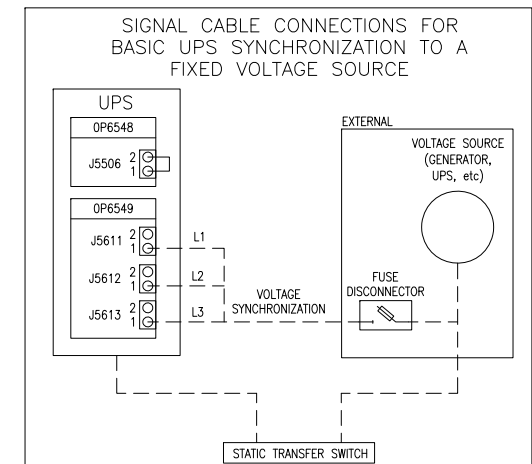
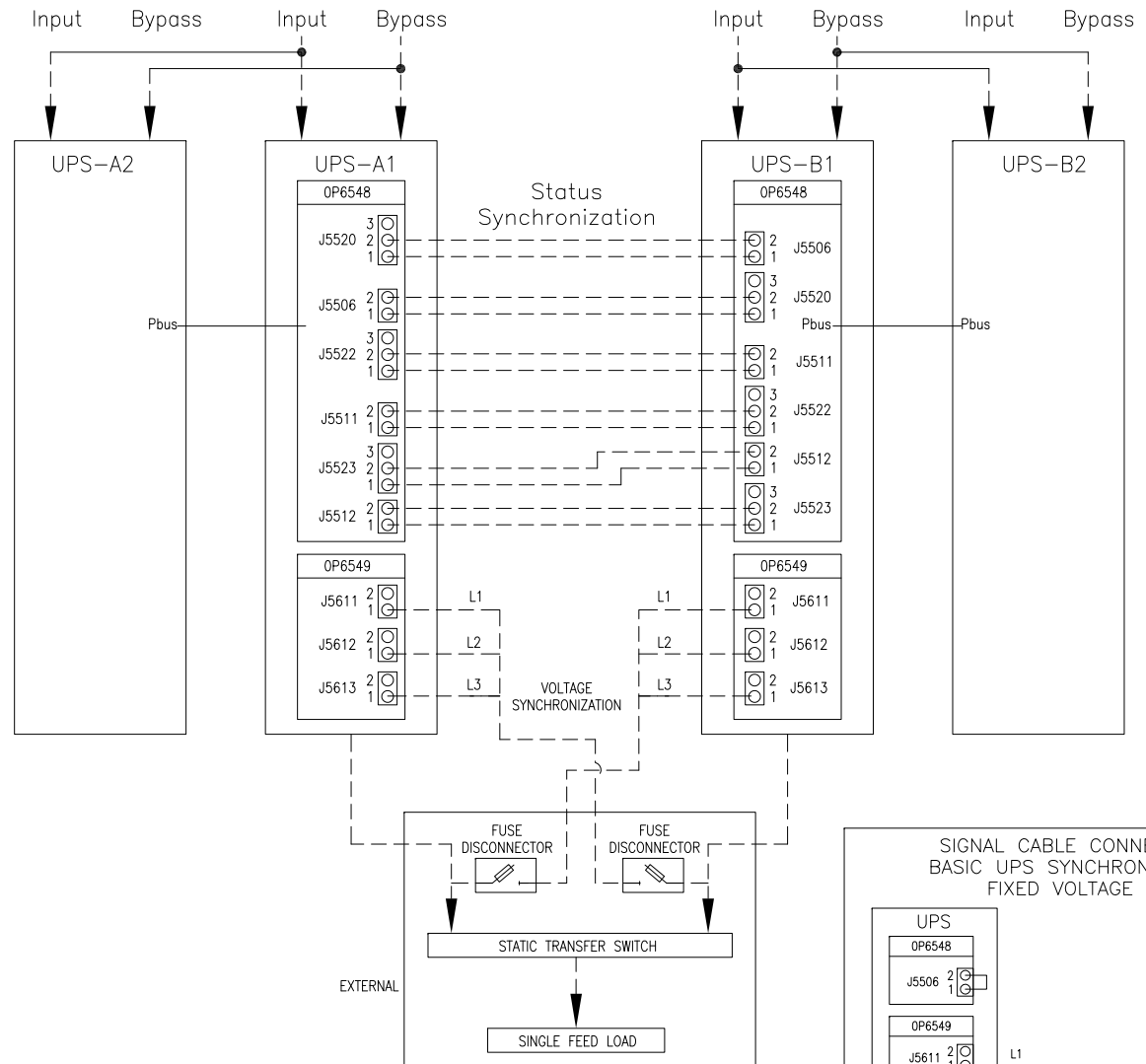
DWG NO: GVX11250KDNBF2NGS-WD
DRAWN: RANJITHA 30-NOV-22
ENGINEER: LARS LINDHOLM 12-DEC-22
APPROVED: SOEREN ANDERSEN 12-DEC-22

REV: 0
ANGLE
PROJECTION: N/A

SIGNAL CABLE CONNECTIONS FOR DUAL UPS SYNCHRONIZATION WITH A FLOATING SYNCHRONIZATION MASTER



SIGNAL CABLE CONNECTIONS FOR FIXED PARALLEL SYNCHRONIZATION MASTER



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. ----- = INTERFACE CABLES PROVIDED BY OTHERS.

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Schneider Electric

TITLE: GALAXY VX
UPS Input-Output Cabinet Without Backfeed
Input: 480V AC 3PH 60Hz, Single/Dual Mains
Output: 480V AC 3PH 60Hz 500-1250kVA N+1
SYSTEM WIRING DIAGRAM (SYNCHRONIZATION)
PROJECT: DRAWINGS SHEET 7 OF 7

DWG NO: GVX11250KDNBF2NGS-WD
DRAWN: RANJITHA
ENGINEER: LARS LINDHOLM
APPROVED: SOEREN ANDERSEN

REV: 0
30-NOV-22
12-DEC-22
12-DEC-22
ANGLE PROJECTION: N/A