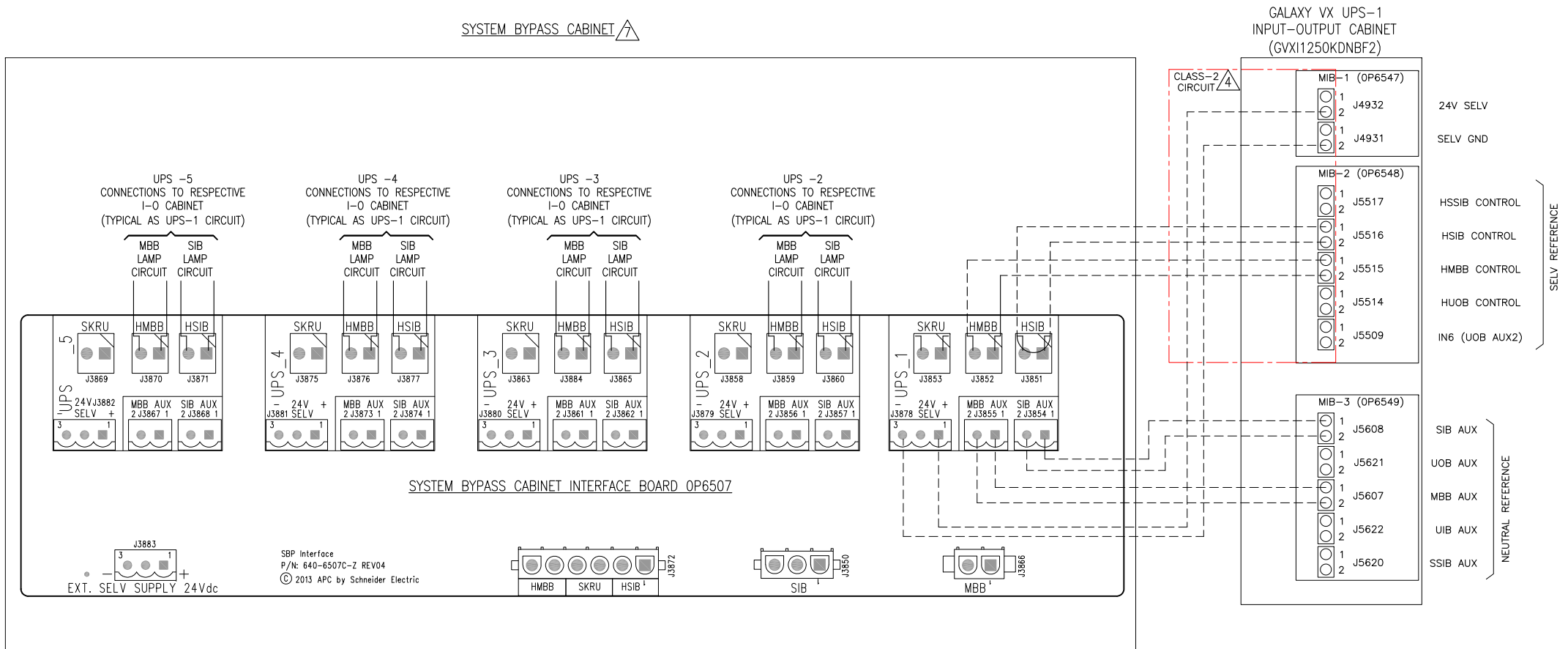


SYSTEM BYPASS CABINET



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. CLASS 2 CIRCUI MUST BE SEPARATED FROM OTHER CABLES.
5. ALL CIRCUITS CONNECTED MUST HAVE THE SAME 0 V REFERENCE.
6. - - - - = CABLES PROVIDED BY OTHERS.
7. ETO = ENGINEER TO ORDER ITEM. FOR DETAILS CONTACT SCHNEIDER ELECTRIC.

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Schneider Electric

TITLE: GALAXY VX
UPS Input-Output Cabinet Without Backfeed
Input: 380/400/415V 3PH 50Hz, SINGLE/DUAL MAINS
Output: 380/400/415V 3PH 50Hz, 500-1250KVA N+1
SYSTEM WIRING DIAGRAM (SBC TO UPS)

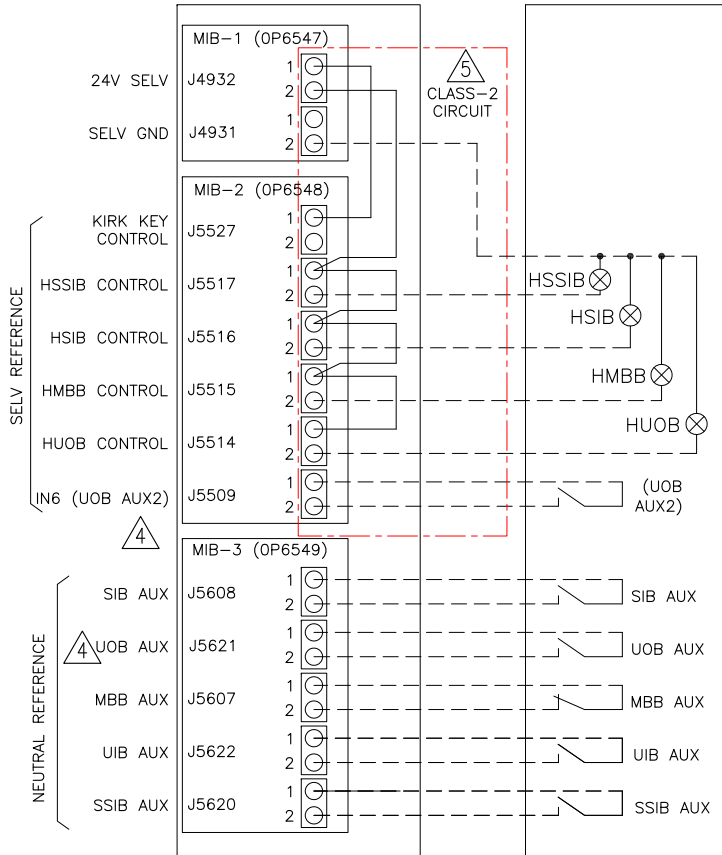
PROJECT: DRAWINGS SHEET 1 OF 6

DWG NO: GVX11250KDNBF2NHS-WD
DRAWN: RANJITHA 12-DEC-22
ENGINEER: LARS LINDHOLM 12-DEC-22
APPROVED: SOEREN ANDERSEN 12-DEC-22

REV. 0
ANGLE PROJECTION: N/A

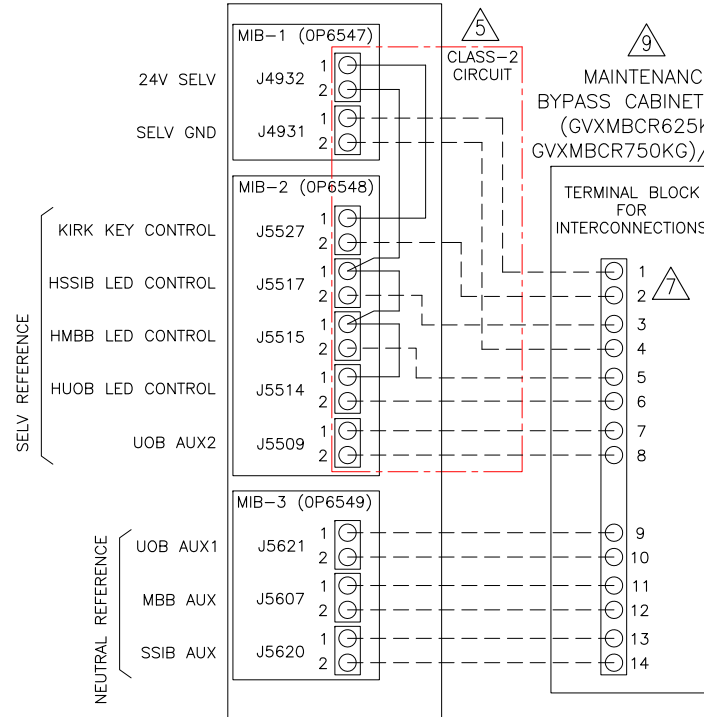
SIGNAL INTERFACE BETWEEN UPS INPUT-OUTPUT CABINET AND THIRD PARTY SYSTEM BYPASS SWITCHGEAR UNIT

Galaxy VX UPS INPUT-OUTPUT CABINET (GVXI1250KDNBF2) THIRD PARTY SYSTEM BYPASS SWITCHGEAR UNIT



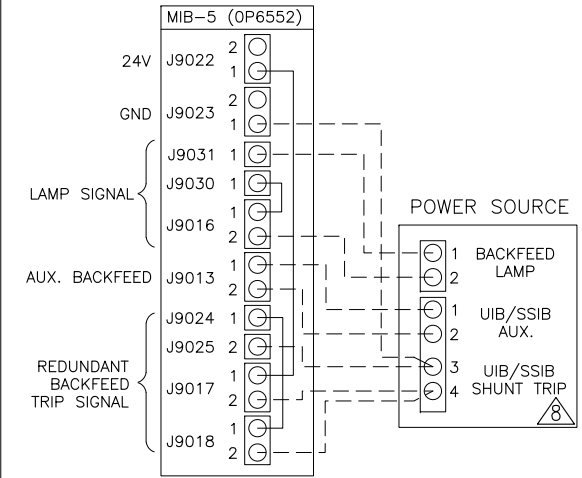
SIGNAL INTERFACE BETWEEN UPS INPUT-OUTPUT CABINET AND MAINTENANCE BYPASS CABINET (MBC)

Galaxy VX UPS INPUT-OUTPUT CABINET (GVXI1250KDNBF2) MAINTENANCE BYPASS CABINET(MBC) (GVXMBCR625KG/ GVXMBCR750KG)/ ETO)



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

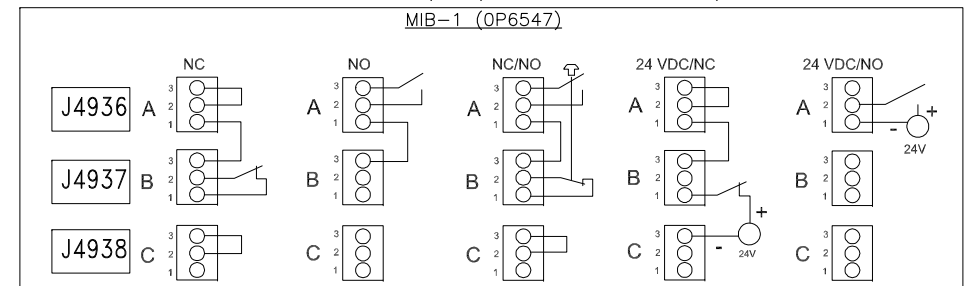
Galaxy VX UPS INPUT-OUTPUT CABINET (GVXI1250KDNBF2)



- 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.

EMERGENCY POWER OFF (EPO) CONFIGURATIONS (IN GVXI1250KDNBF2)

- INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
- 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.
- MBC IS AN ETO (ENGINEER TO ORDER) ITEM. FOR DETAILS CONTACT SCHNEIDER ELECTRIC. FOR MBC WITHOUT SSIB CONFIGURATIONS PINS 1, 2, 3, 13 & 14 NOT USED, FOR MBC WITH SSIB CONFIGURATIONS PINS 1 & 2 NOT USED.
- 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.
- ETO = ENGINEER TO ORDER ITEM. FOR DETAILS CONTACT SCHNEIDER ELECTRIC.
- GVXMBCR625KG IS APPLICABLE FOR 500KW/625KW ONLY.
- GVXMBCR750KG IS APPLICABLE FOR 500KW/750KW ONLY.



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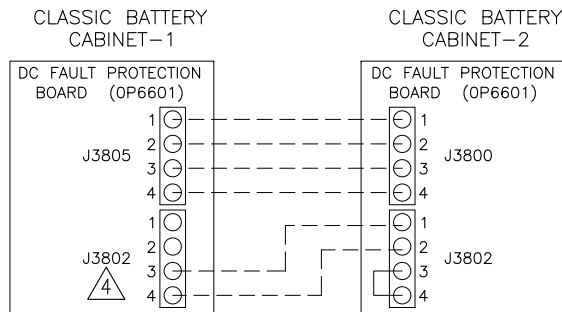
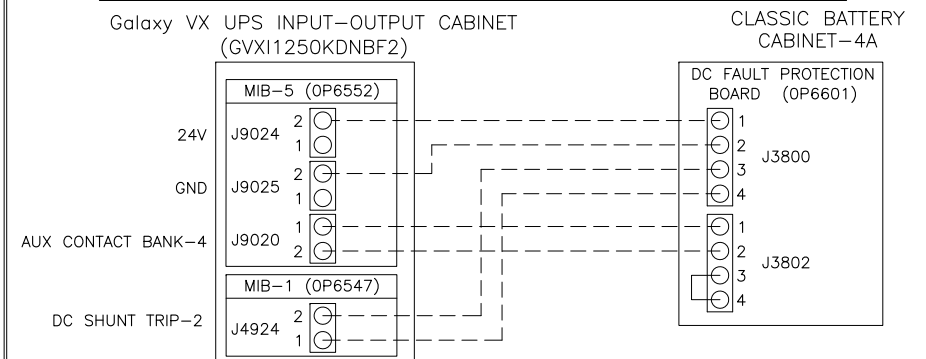
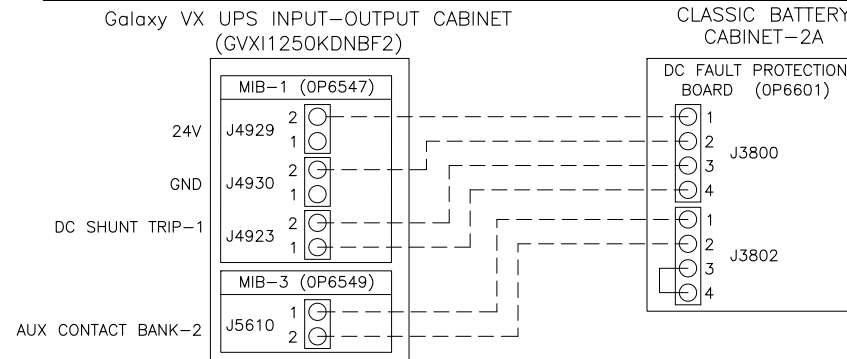
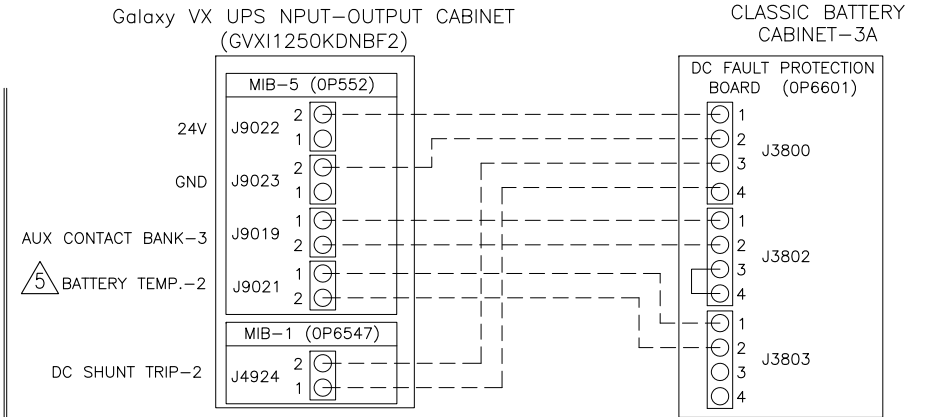
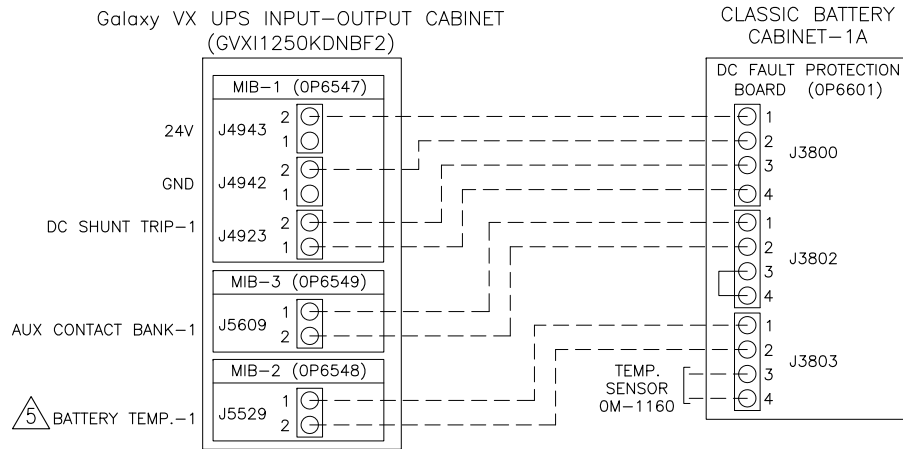
Schneider Electric

TITLE: GALAXY VX UPS Input-Output Cabinet Without Backfeed
Input: 380/400/415V 3PH 50Hz, SINGLE/DUAL MAINS
Output: 380/400/415V 3PH 50Hz, 500-1250KVA N+1
SYSTEM WIRING DIAGRAM (MBC, EPO&3RD PARTY MBC)
PROJECT: DRAWINGS SHEET 2 OF 6

DWG NO: GVXI1250KDNBF2NHS-WD
DRAWN: RANJITHA
ENGINEER: LARS LINDHOLM
APPROVED: SOEREN ANDERSEN

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

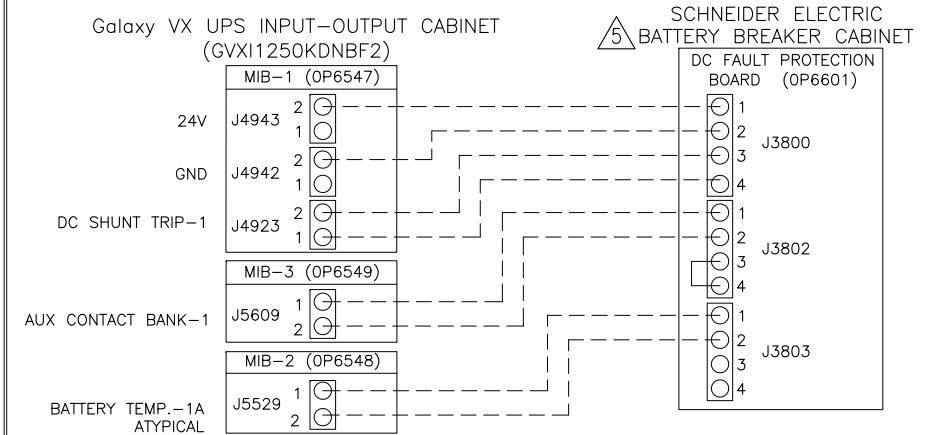
SIGNAL INTERFACE BETWEEN UPS INPUT-OUTPUT CABINET AND CLASSIC BATTERY CABINETS 5 8



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

6 6



- 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.
 - ETO = ENGINEER TO ORDER ITEM. FOR DETAILS CONTACT SCHNEIDER ELECTRIC.
 - 8 FOR Li-Ion BATTERY SOLUTION REFER TO DRAWING NO:- "LIBATTSMGGIEC - LI-Ion BATTERY RACK TYPE G-IEC".

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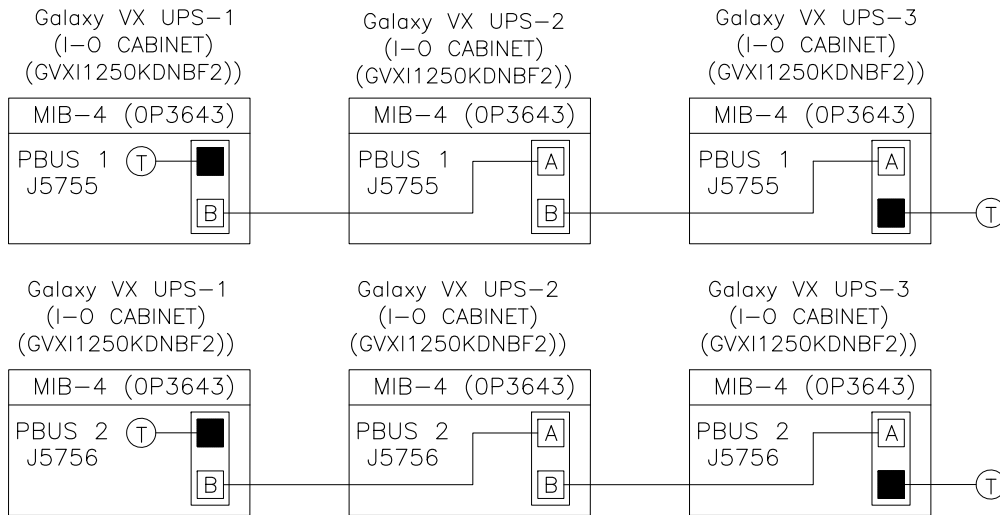
Schneider Electric

TITLE: GALAXY VX
UPS Input-Output Cabinet Without Backfeed
Input: 380/400/415V 3PH 50Hz, SINGLE/DUAL MAINS
Output: 380/400/415V 3PH 50Hz, 500-1250KVA N+1
PROJECT: DRAWINGS SHEET 3 OF 6

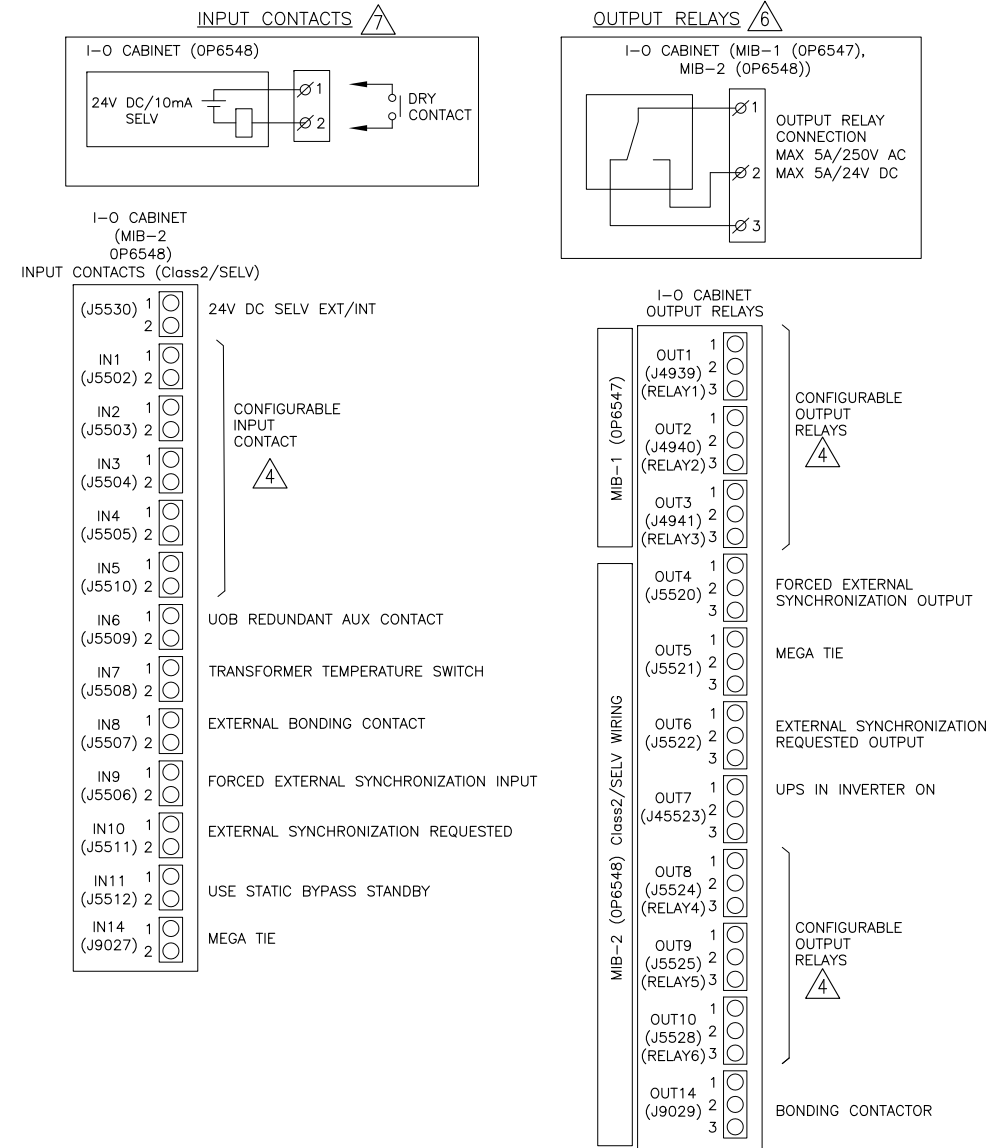
DWG NO: GVXI1250KDNBF2NHS-WD
DRAWN: RANJITHA
ENGINEER: LARS LINDHOLM
APPROVED: SOEREN ANDERSEN

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

5 PBUS CABLES BETWEEN PARALLEL UPS UNITS (EXAMPLE SHOWN FOR 3 UNITS)



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.
- PBUS1 CABLES ARE WHITE AND PBUS ARE RED, THE TOTAL LENGTH OF PBUS CABLES MUST NOT EXCEED 60 METERS
- 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 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 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: 380/400/415V 3PH 50Hz, SINGLE/DUAL MAINS
Output: 380/400/415V 3PH 50Hz, 500-1250kVA N+1
SYSTEM WIRING DIAGRAM (IN-OUT/SYNC/PBUS)

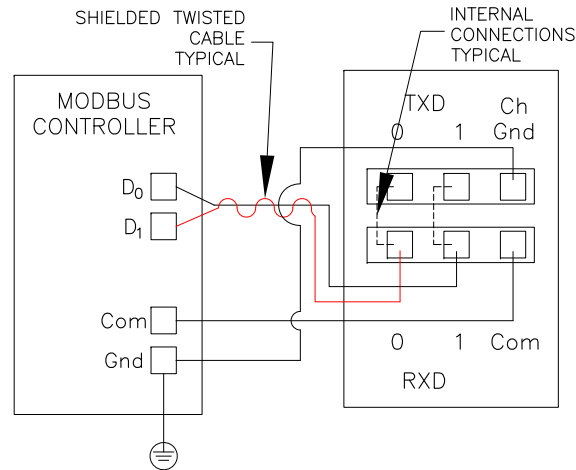
PROJECT: DRAWINGS SHEET 4 OF 6

DWG NO: GVXI1250KDNBF2NHS-WD
DRAWN: RANJITHA 12-DEC-22
ENGINEER: LARS LINDHOLM 12-DEC-22
APPROVED: SOEREN ANDERSEN 12-DEC-22

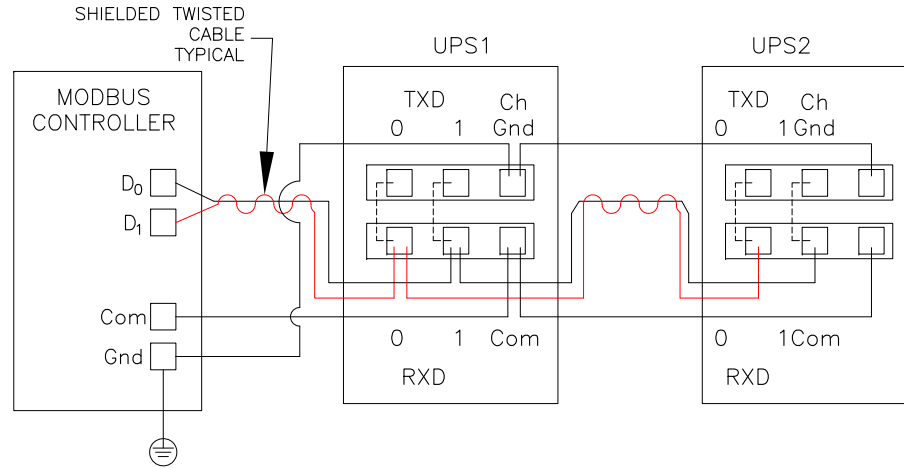
REV. 0
ANGLE PROJECTION: N/A

TYPICAL MODBUS CONNECTION (BOARD 0P6502)

2-WIRE CONNECTION WITH SINGLE UPS

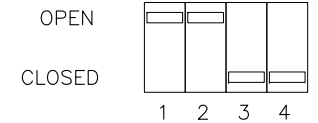


2-WIRE CONNECTION WITH TWO UPSs

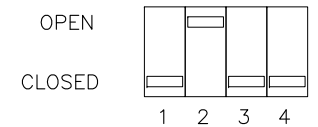


MODBUS DIP SWITCHES SETTING

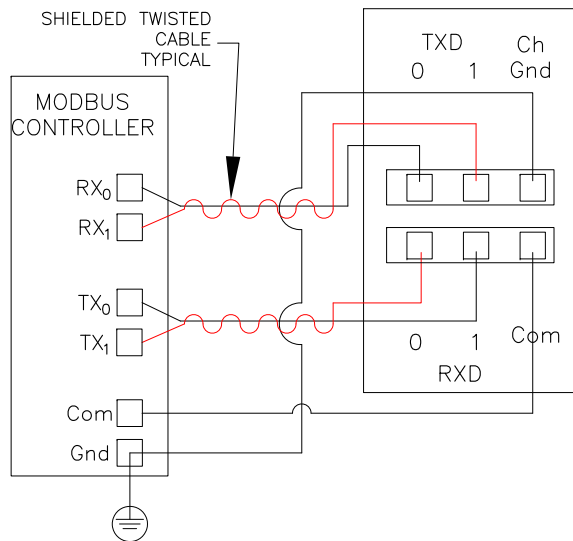
2-WIRE WITHOUT TERMINATION



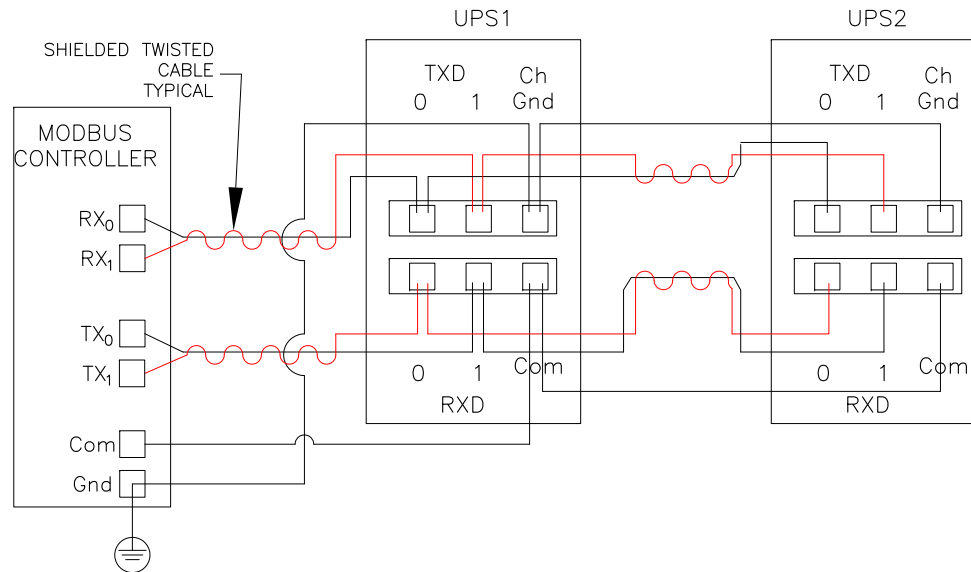
2-WIRE WITH TERMINATION



4-WIRE CONNECTION WITH SINGLE UPS

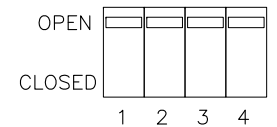


4-WIRE CONNECTION WITH TWO UPSs

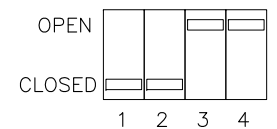


MODBUS DIP SWITCHES SETTING

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).

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Schneider Electric

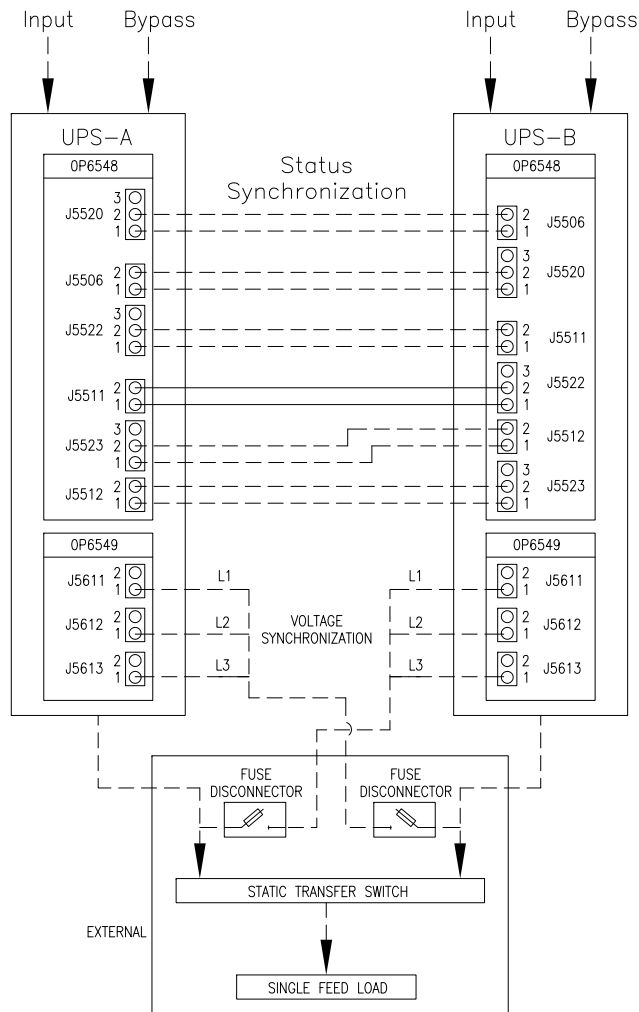
TITLE: GALAXY VX
UPS Input-Output Cabinet Without Backfeed
Input: 380/400/415V 3PH 50Hz, SINGLE/DUAL MAINS
Output: 380/400/415V 3PH 50Hz, 500-1250kVA N+1
SYSTEM WIRING DIAGRAM (MODBUS)

PROJECT: DRAWINGS SHEET 5 OF 6

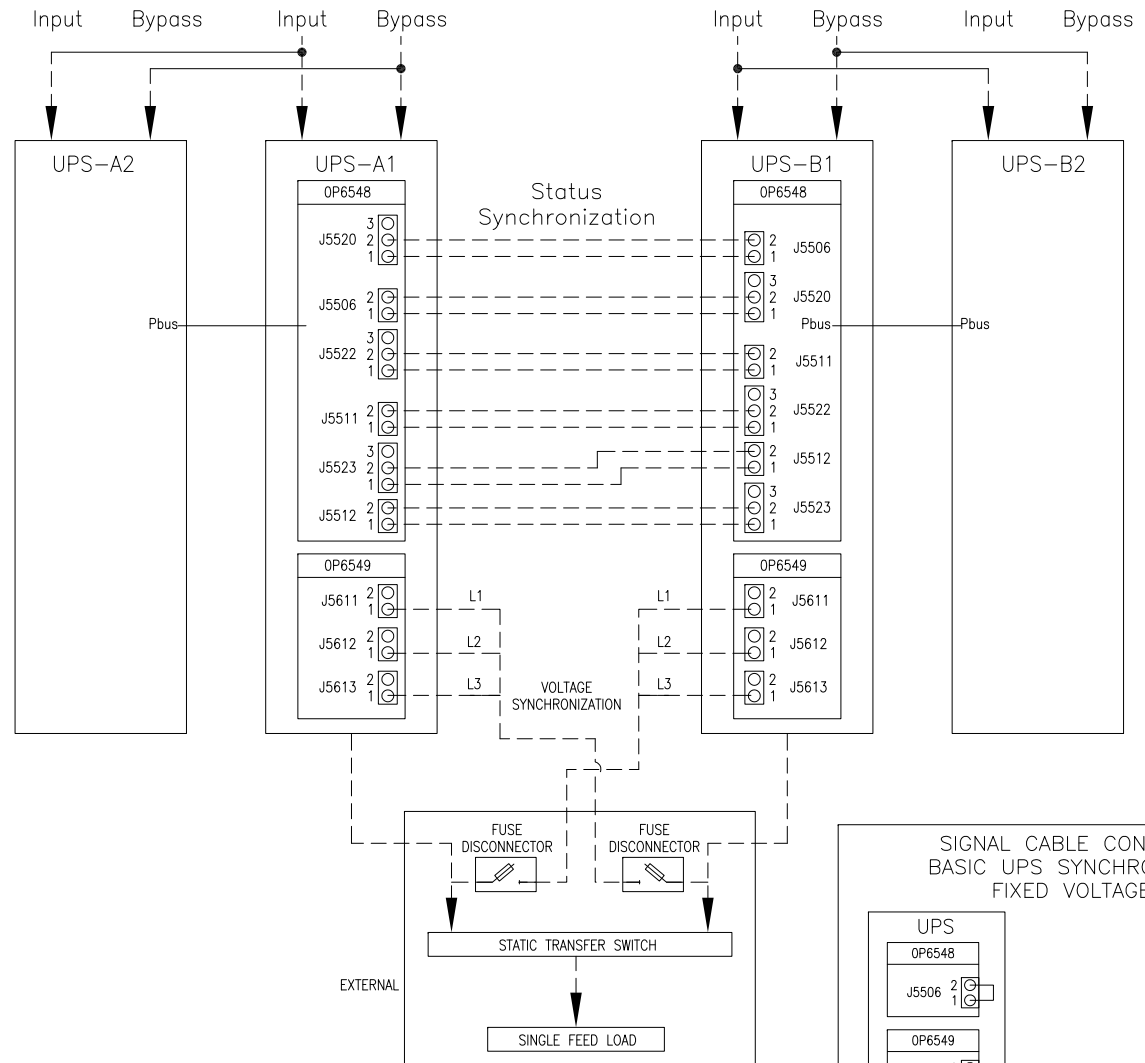
DWG NO: GVX11250KDNBF2NHS-WD
DRAWN: RANJITHA 12-DEC-22
ENGINEER: LARS LINDHOLM 12-DEC-22
APPROVED: SOEREN ANDERSEN 12-DEC-22

REV. 0
ANGLE PROJECTION: N/A

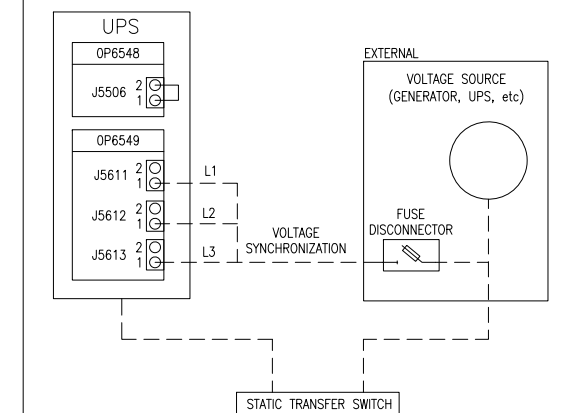
SIGNAL CABLE CONNECTIONS FOR DUAL UPS SYNCHRONIZATION WITH A FLOATING SYNCHRONIZATION MASTER



SIGNAL CABLE CONNECTIONS FOR FIXED PARALLEL SYNCHRONIZATION MASTER



SIGNAL CABLE CONNECTIONS FOR BASIC UPS SYNCHRONIZATION TO A FIXED VOLTAGE SOURCE



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: 380/400/415V 3PH 50Hz, SINGLE/DUAL MAINS
Output: 380/400/415V 3PH 50Hz, 500-1250KVA N+1
SYSTEM WIRING DIAGRAM (MODBUS)

PROJECT: DRAWINGS SHEET 6 OF 6

DWG NO: GVX11250KDNBF2NHS-WD
DRAWN: RANJITHA 12-DEC-22
ENGINEER: LARS LINDHOLM 12-DEC-22
APPROVED: SOEREN ANDERSEN 12-DEC-22

REV: 0
ANGLE PROJECTION: N/A