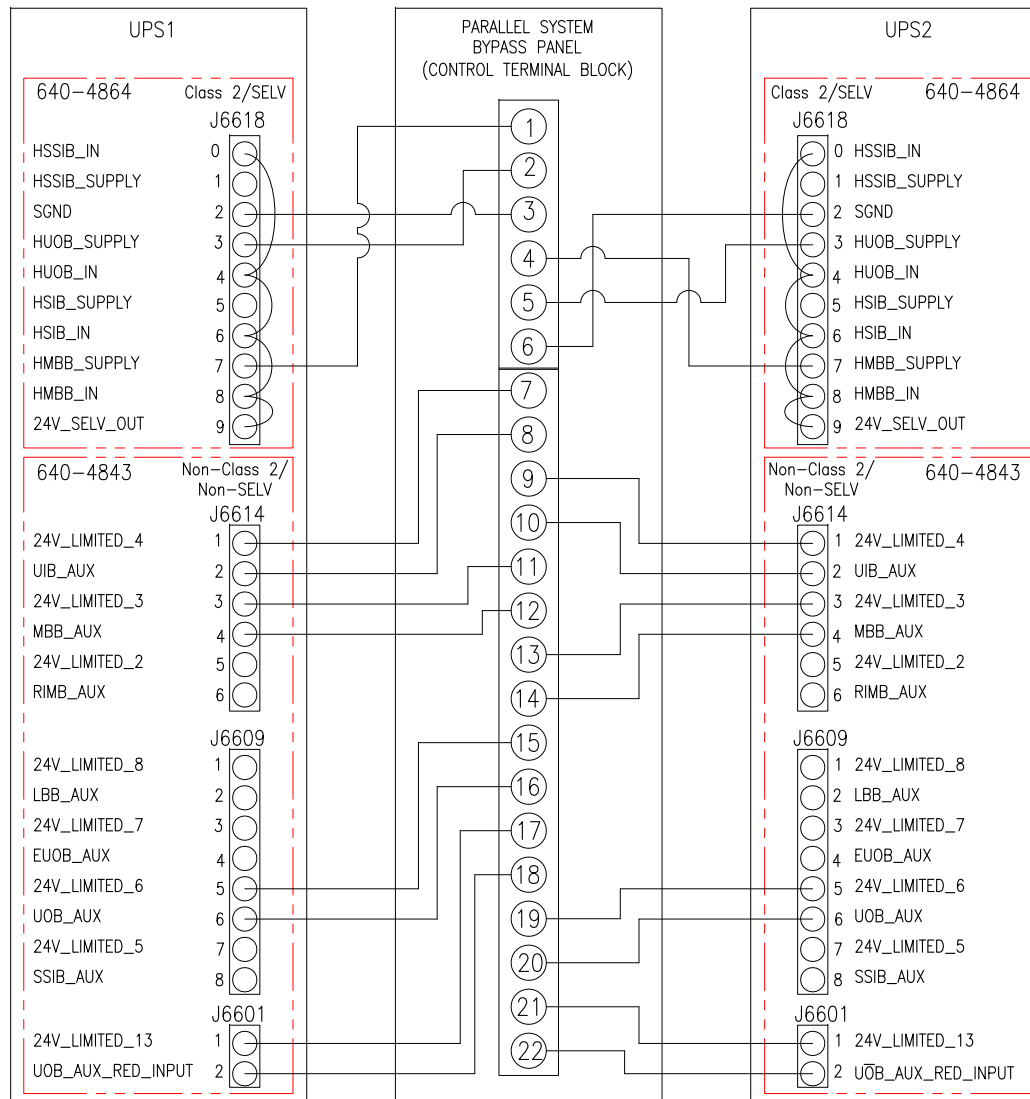


INTERFACE WIRING BETWEEN UPSs' AND PARALLEL SYSTEM BYPASS PANEL
(GVSBP10K30H/GVSBP40K50H/GVSBP60K120H)



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. PLEASE REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. CABLES BETWEEN UPSs AND SYSTEM BYPASS PANEL 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 VS
Input: 380/400/415V 3PH 50Hz
Output: 380/400/415V 3PH 50Hz 20-100kW
UPS TO PARALLEL MBP INTERFACE DETAILS
SYSTEM WIRING DIAGRAM

DWG NO: GVS10K50HSA10-WD

REV: 0

DRAWN BY: BALA 3-FEB-20

ANGLE

ENGINEER: ChenLei BAO 18-FEB-20

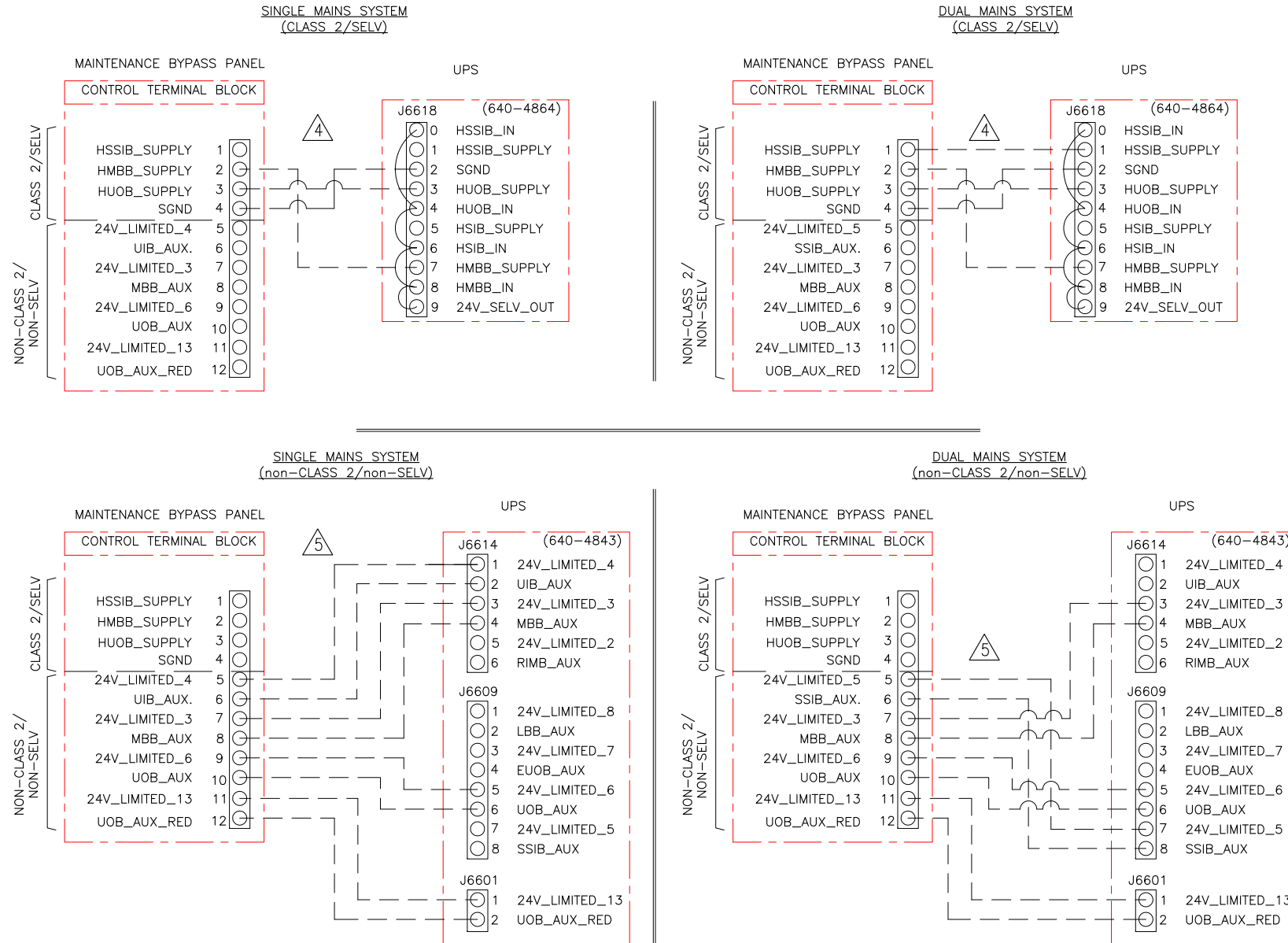
PROJECTION

APPROVED BY: ChenLei BAO 18-FEB-20

IN .A

PROJECT: DRAWINGS **SHEET:** 1 OF 5

INTERFACE BETWEEN SINGLE UPS AND SINGLE UNIT MAINTENANCE BYPASS PANEL (GVSBPSU10K20H/GVSBPSU20K60H/GVSBPSU80K120H)



- NOTES:
- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 - REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
 - CABLES PROVIDED BY OTHERS.
- △4. CABLES ARE CLASSIFIED AS CLASS2/SELV, TO BE ORDERED SEPARATELY, FOR VARIOUS LENGTH AVAILABILITY CONTACT SCHNEIDER ELECTRIC.
- △5. CABLES ARE CLASSIFIED AS NON-CLASS2/NON-SELV, TO BE ORDERED SEPARATELY, FOR VARIOUS LENGTH AVAILABILITY CONTACT SCHNEIDER ELECTRIC.

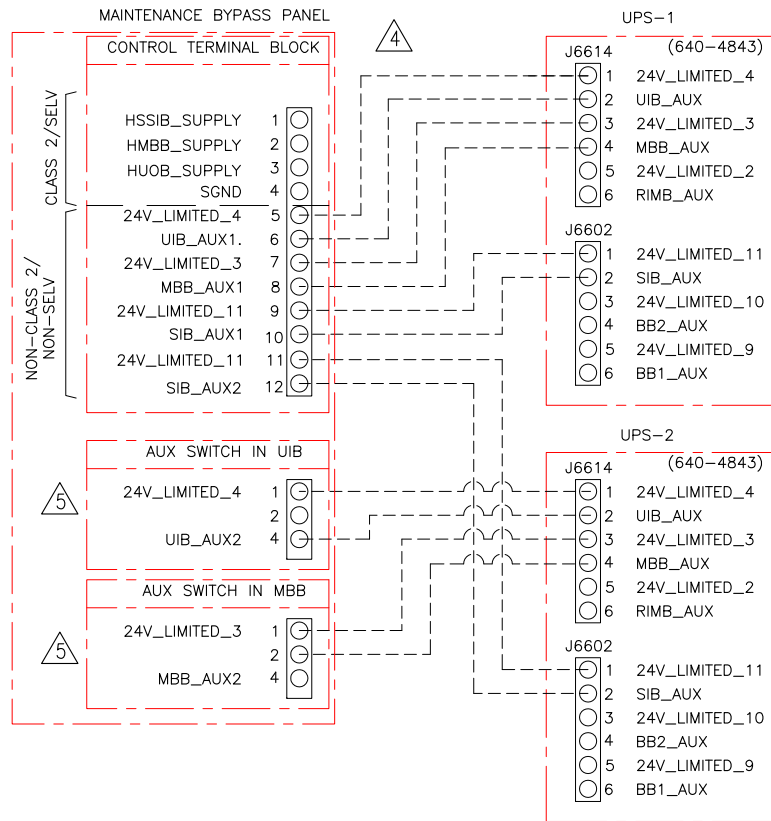
THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC. THIS DRAWING IS BASED UPON LATEST AVAILABLE INFORMATION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



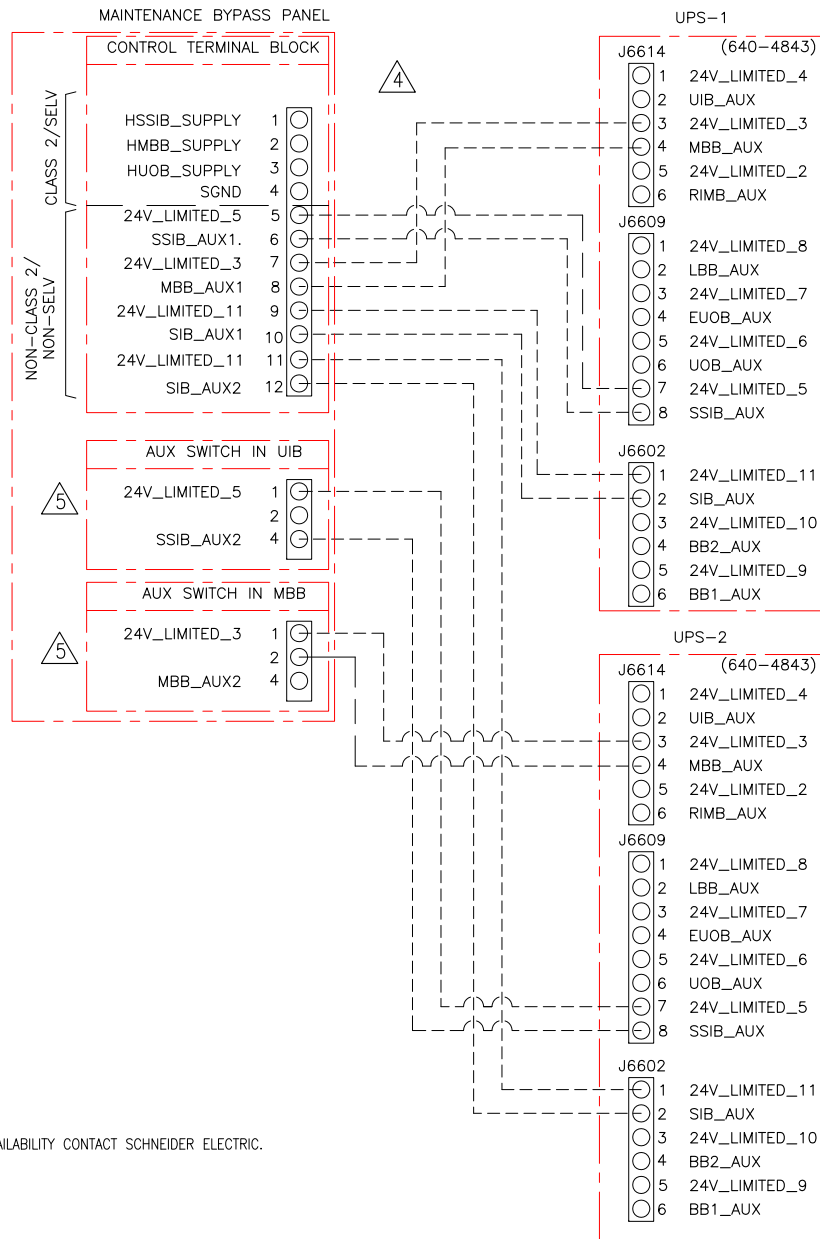
TITLE: GALAXY VS Input: 380/400/415V 3PH 50Hz Output: 380/400/415V 3PH 50Hz 20-100kW 1 MOD UPS TO SINGLE UNIT MBP INTERFACE DETAILS SYSTEM WIRING DIAGRAM		DWG NO: GVS10K50HSA10-WD	REV: 0
PROJECT: DRAWINGS	SHEET 2 OF 5	DRAWN BY: BALA	3-FEB-20
		ENGINEER: ChenLei BAO	18-FEB-20
		APPROVED BY: ChenLei BAO	18-FEB-20
			PROJECTION
			IN. A

INTERFACE BETWEEN 1+1 SIMPLIFIED PARALLEL UPS AND SINGLE UNIT MAINTENANCE BYPASS PANEL (GVSBPSU10K20H/GVSBPSU20K60H/GVSBPSU80K120H)

SINGLE MAINS SYSTEM (non-CLASS 2/non-SELV)



DUAL MAINS SYSTEM (non-CLASS 2/non-SELV)



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. ——— CABLES PROVIDED BY CUSTOMER.
- △4. CABLES ARE CLASSIFIED AS NON-CLASS2/NON-SELV, TO BE ORDERED SEPARATELY, FOR VARIOUS LENGTH AVAILABILITY CONTACT SCHNEIDER ELECTRIC.
- △5. AUX SWITCH PART OF KIT GVSPT006.

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 VS
 Input: 380/400/415V 3PH 50Hz
 Output: 380/400/415V 3PH 50Hz 20-100kW
 1+1 MOD UPS-SINGLE UNIT MBP INTERFACE DETAILS
 SYSTEM WIRING DIAGRAM
 PROJECT: DRAWINGS SHEET 3 OF 5

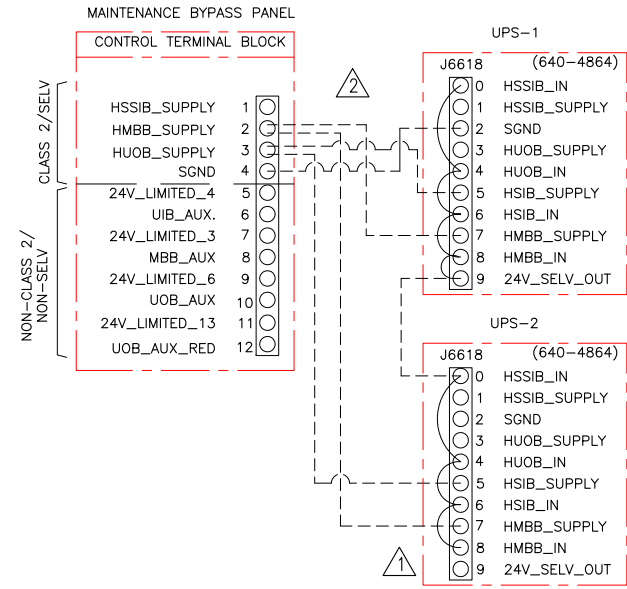
DWG NO: GVS10K50HSA10-WD
 DRAWN BY: BALA 3-FEB-20
 ENGINEER: ChenLei BAO 18-FEB-20
 APPROVED BY: ChenLei BAO 18-FEB-20

REV. 0
 ANGLE
 PROJECTION
 IN .A

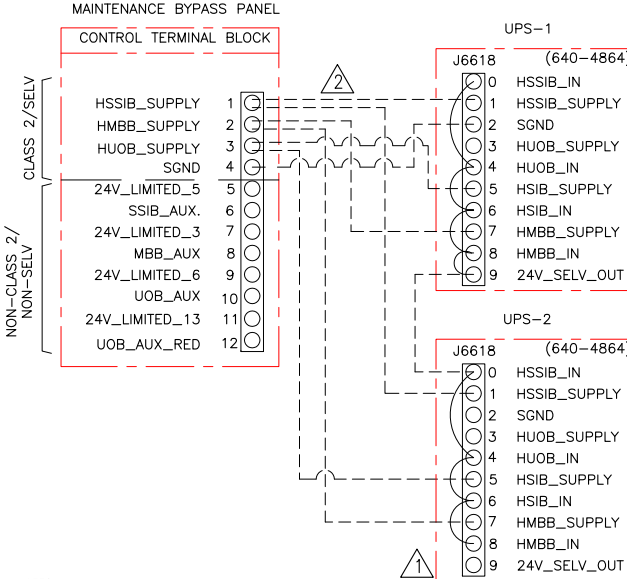
INTERFACE BETWEEN 1+1 SIMPLIFIED PARALLEL UPS AND SINGLE UNIT MAINTENANCE BYPASS PANEL

(GVSBU10K20H/GVSBPSU20K60H/GVSBPSU80K120H)

SINGLE MAINS SYSTEM (CLASS 2/SELV)



DUAL MAINS SYSTEM (CLASS 2/SELV)

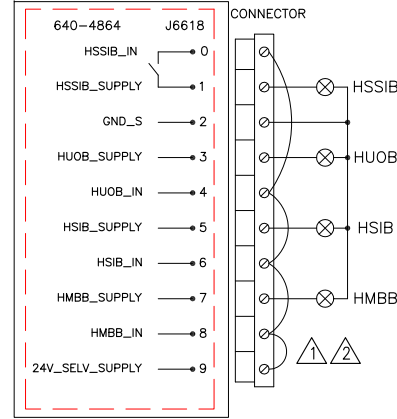


- NOTES:-
- ON UPS2: CUT THE PRE-INSTALLED JUMPER BETWEEN PINS 8 AND 9 ON THE TERMINAL CONNECTOR FOR J6618 ON BOARD 640-4864.
 - CABLES ARE CLASSIFIED AS CLASS2/SELV, TO BE ORDERED SEPARATELY, FOR VARIOUS LENGTH AVAILABILITY CONTACT SCHNEIDER ELECTRIC.

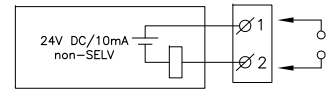
- COMMON NOTES:
- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 - REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.

INTERFACE BETWEEN UPS AND THIRD-PARTY AUXILIARY PRODUCTS GALAXY VS UPS

Class2/SELV INTERFACE 640-4864



Non-Class2/Non-SELV INTERFACE 640-4843



J6601 (UOB)

- 1 24V_LIMITED_13
- 2 UOB_AUX_RED

J6602 (SIB)

- 1 24V_LIMITED_11
- 2 SIB_AUX
- 3 24V_LIMITED_10
- 4 BB2_AUX
- 5 24V_LIMITED_9
- 6 BB1_AUX

J6614 (UIB)

- 1 24V_LIMITED_4
- 2 UIB_AUX
- 3 24V_LIMITED_3
- 4 MBB_AUX
- 5 24V_LIMITED_2
- 6 RIMB_AUX

J6609 (UOB/SSIB)

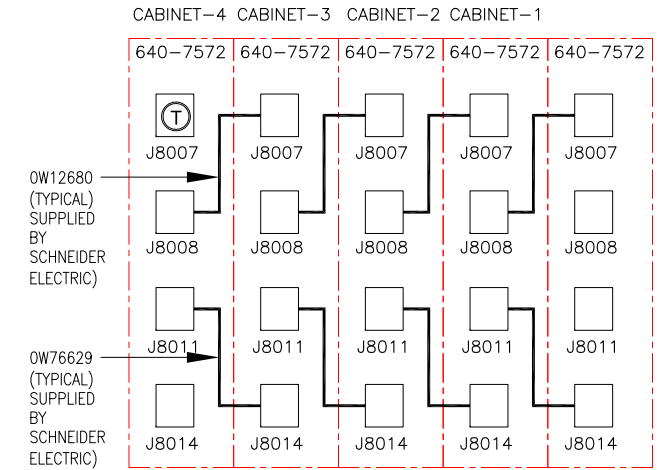
- 1 24V_LIMITED_8
- 2 LBB_AUX
- 3 24V_LIMITED_7
- 4 EUOB_AUX
- 5 24V_LIMITED_6
- 6 UOB_AUX
- 7 24V_LIMITED_5
- 8 SSIB_AUX

NOTES:

- CONNECT SIGNAL CABLES FROM THE BREAKER INDICATOR LIGHTS IN YOUR SWITCHGEAR TO BOARD 640-4864 TERMINAL J6618 IN THE TOP OF THE UPS. IF AN EXTERNAL SUPPLY IS USED, REMOVE JUMPER FROM J6618 BETWEEN PIN 8 AND 9 AND DON'T RETURN TO PIN2.
- THE BREAKER INDICATOR LIGHT CIRCUIT IS CONSIDERED CLASS 2/ SELV. THIS CIRCUIT MUST BE ISOLATED FROM PRIMARY CIRCUITRY. DO NOT CONNECT ANY CIRCUIT TO THE BREAKER INDICATOR LIGHT TERMINALS UNLESS IT CAN BE CONFIRMED THAT THE CIRCUIT IS CLASS 2/SELV.

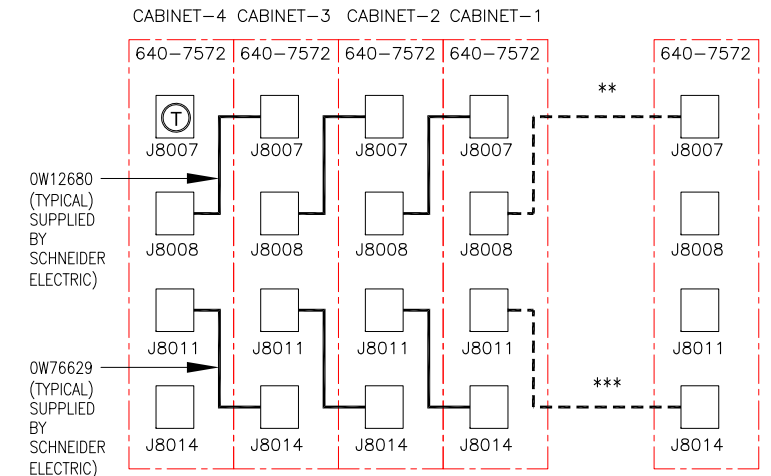
UPS WITH ADJACENT MODULAR BATTERY CABINETS

MODULAR BATTERY CABINETS UPS



UPS WITH REMOTE MODULAR BATTERY CABINETS

MODULAR BATTERY CABINETS UPS



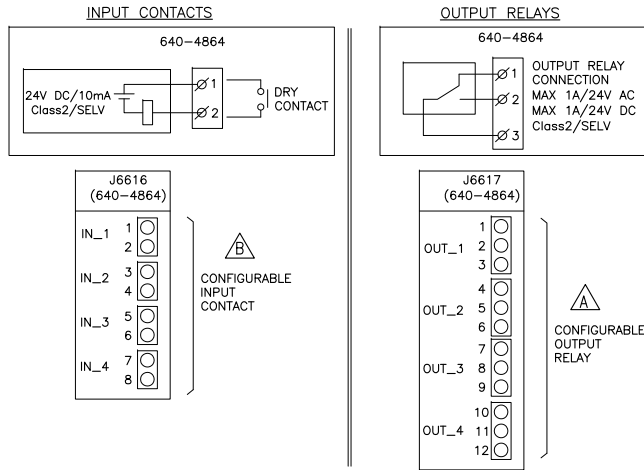
- ** THIS CABLE IS CLASSIFIED AS CLASS2/SELV, TO BE ORDERED SEPARATELY, FOR VARIOUS LENGTH AVAILABILITY CONTACT SCHNEIDER ELECTRIC.
- *** THIS CABLE IS CLASSIFIED AS NON-CLASS2/NON-SELV, THE PROVIDED SIGNAL CABLE OW76629 IS NOT LONG ENOUGH FOR A REMOTE INSTALLATION. REUSE THE CONNECTIONS FROM THE PROVIDED SIGNAL CABLE OW76629 TO MAKE A NEW SIGNAL CABLES IN THE CORRECT LENGTH.

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.



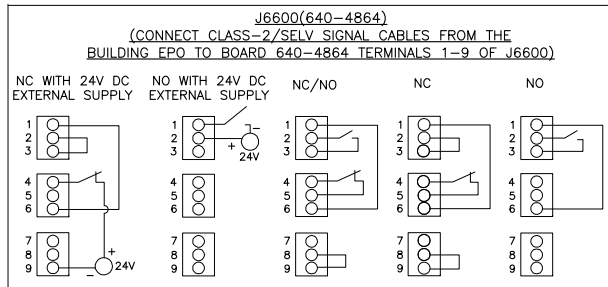
TITLE:	GALAXY VS Input: 380/400/415V 3PH 50Hz Output: 380/400/415V 3PH 50Hz 20-100kW UPS- MBC w/FMR , 3RD PARTY MBC BATT CABLING SYSTEM WIRING DIAGRAM	DWG NO:	GVS10K50HSA10-WD	REV.	0
PROJECT: DRAWINGS	SHEET 4 OF 5	DRAWN BY:	BALA	3-FEB-20	ANGLE
		ENGINEER:	ChenLei BAO	18-FEB-20	PROJECTION
		APPROVED BY:	ChenLei BAO	18-FEB-20	N.A.

EQUIPMENT TO INPUT CONTACTS AND OUTPUT RELAYS (IN UPS)



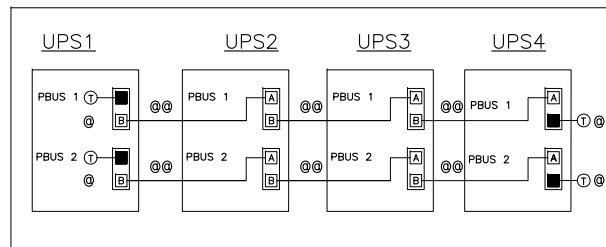
- △A. MAX 24V AC/ 24V DC 1A MUST BE CONNECTED TO THE OUTPUT RELAYS. ALL EXTERNAL CIRCUITRY MUST BE FUSED WITH MAXIMUM 1 A FAST ACTING FUSES.
- △B. DO NOT CONNECT ANY CIRCUIT TO THE INPUT CONTACTS UNLESS IT CAN BE CONFIRMED THAT THE CIRCUIT IS CLASS 2. ALL CIRCUITS CONNECTED MUST HAVE THE SAME 0V REFERENCE.

EMERGENCY POWER OFF (EPO) CONFIGURATIONS (IN UPS)



THE EPO CIRCUIT IS CONSIDERED CLASS2/SELV. CLASS2/SELV CIRCUITS MUST BE ISOLATED FROM THE PRIMARY CIRCUITRY. DO NOT CONNECT ANY CIRCUIT TO THE EPO TERMINAL BLOCK UNLESS IT CAN BE CONFIRMED THAT THE CIRCUIT IS CLASS2/SELV.

PBUS CONNECTIONS (GVSOPT006)

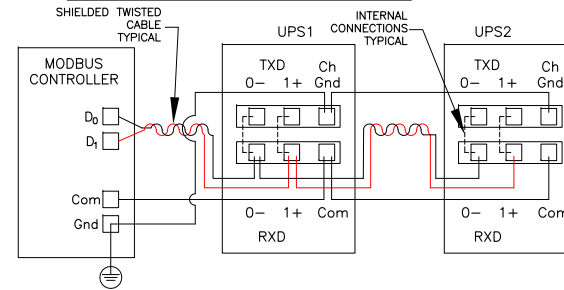


- ⊙ TERMINATORS MUST BE INSTALLED & POSITIONED AS PER INSTALLATION MANUAL FOR PARALLEL OPERATION.
- ⊙⊙ PBUS1 CABLES ARE WHITE AND PBUS2 ARE RED, WITH A LENGTH OF 25 METERS EACH. CABLES TO BE ORDERED BY OPTIONAL SKU GVSOPT006 (PARALLEL COMMUNICATION KIT).

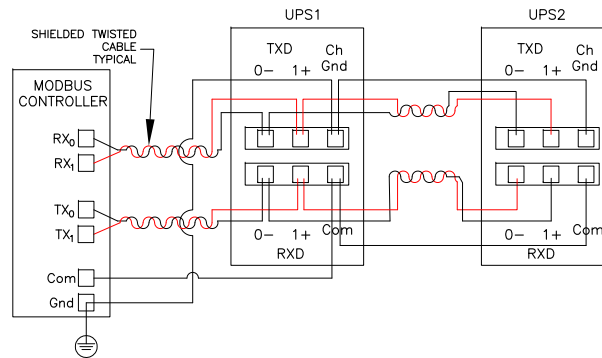
- COMMON NOTES:
- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 - REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.

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.

2-WIRE CONNECTION WITH TWO UPSs

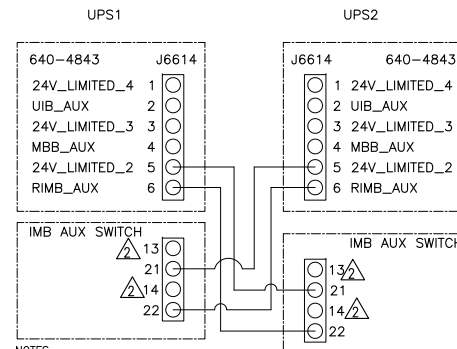


4-WIRE CONNECTION WITH TWO UPSs



- NOTES:
- THE SHIELD CONNECTION TO THE GROUND MUST BE AS SHORT AS POSSIBLE (IDEALLY BELOW 1CM). THE SHIELD MUST BE CONNECTED TO EACH DEVICE.
 - ROUTE SIGNAL CABLES SEPARATELY FROM POWER CABLES TO ENSURE SUFFICIENT ISOLATION.
 - THE MODBUS PORT IS OPTICALLY ISOLATED. THE GROUND OF THE MODBUS PORT IS NOT CONNECTED TO ANY OTHER GROUND.
 - INSTALL 150 OHM TERMINATION RESISTORS AT EACH END OF EACH BUS IF THE BUSES ARE VERY LONG AND OPERATE AT HIGH DATA RATES. BUSES UNDER 610 METERS (2000 FEET) AT 9600 BAUD OR UNDER 305 METERS (1000 FEET) AT 19.2 BAUD SHOULD NOT REQUIRE TERMINATION RESISTORS.
 - INSTALL 400-650 OHM BIAS RESISTORS AT OR INSIDE THE SYSTEM CONTROLLER, ONE FROM D0 TO GROUND AND ONE FROM D1 TO +5V DC.

SIMPLIFIED 1+1 PARALLEL SYSTEM INTERFACE (non-CLASS2/non-SELV)



- NOTES:
- INTERFACE CABLES (LENGTH: 25 METERS) BETWEEN MAINTENANCE UPSs CAN BE ORDERED FROM THE OPTION SKU GVSOPT006 (1 KIT REQUIRED FOR 2 UPSs).
 - SECOND AUXILIARY CONTACT OF IMB FOR PARALLEL.

Schneider Electric

TITLE: GALAXY VS
 Input: 380/400/415V 3PH 50Hz
 Output: 380/400/415V 3PH 50Hz 20-100kW
 UPS IN/OUT RELAY, EPO, PBUS
 SYSTEM WIRING DIAGRAM

DWG NO: GVS10K50HSA10-WD REV. 0

DRAWN BY: BALA 3-FEB-20 ANGLE

ENGINEER: ChenLei BAO 18-FEB-20 PROJECTION

PROJECT: DRAWINGS SHEET 5 OF 5

APPROVED BY: ChenLei BAO 18-FEB-20