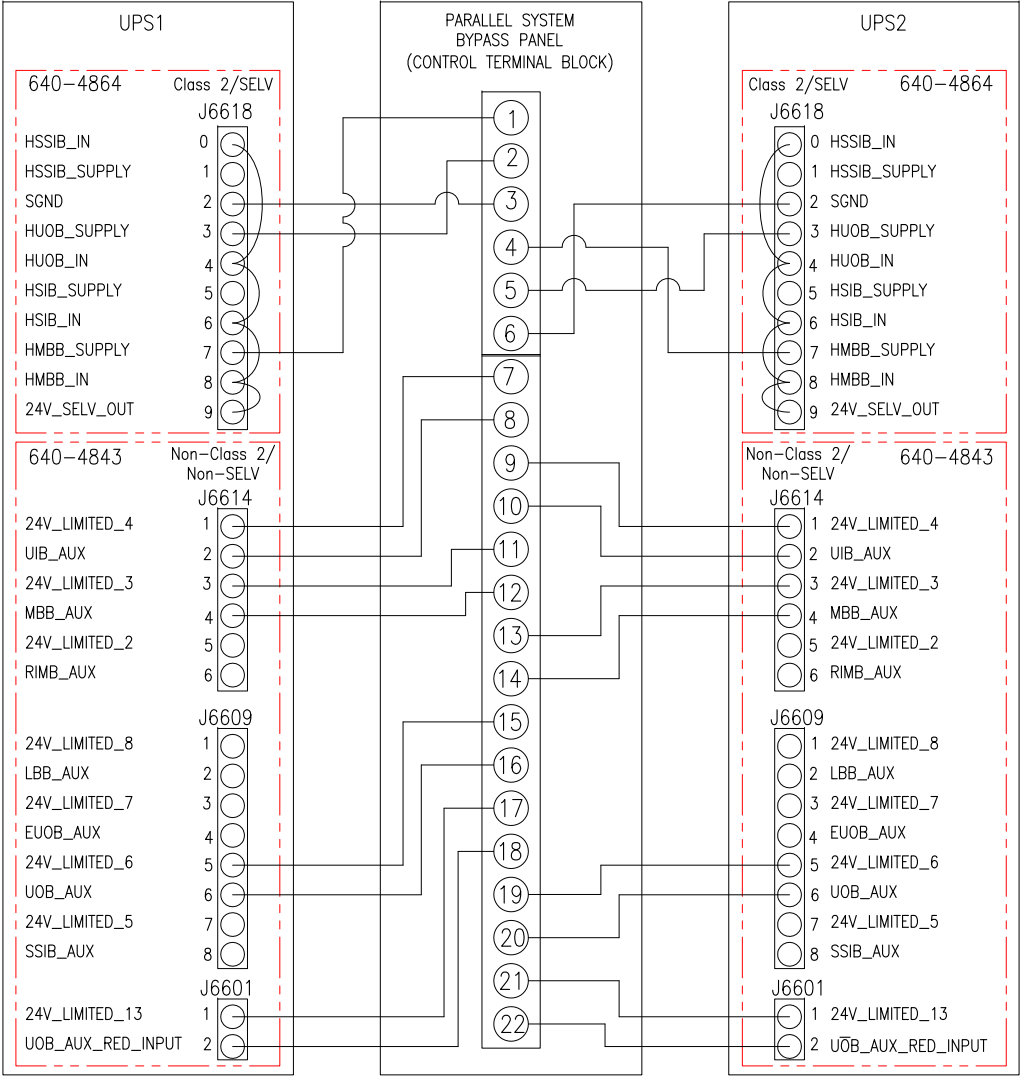


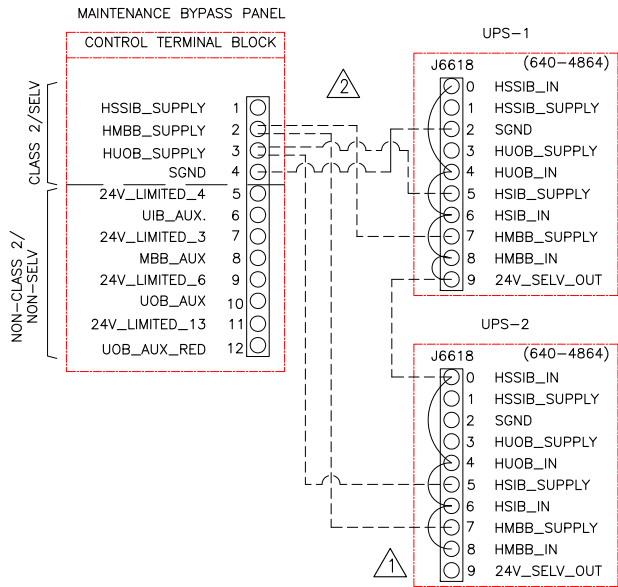
INTERFACE WRING BETWEEN UPSs' AND PARALLEL SYSTEM BYPASS PANEL
(GVSBPAR10K30H/GVSBPAR40K50H/GVSBPAR60K120H)



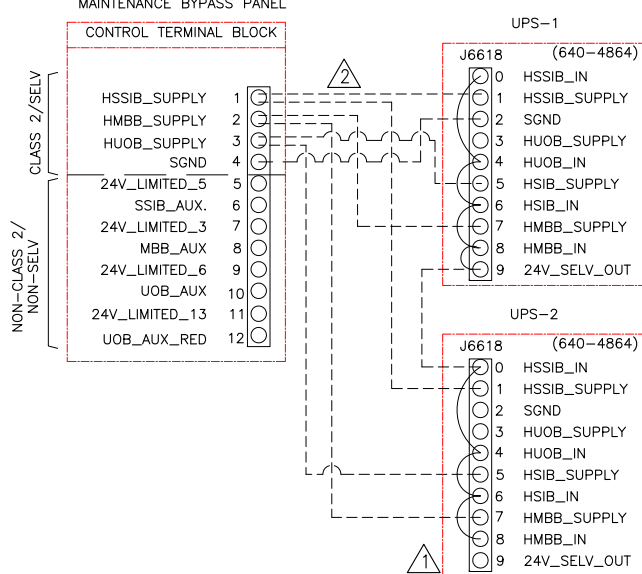
- NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
 2. PLEASE REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 3. CABLES BETWEEN UPSs AND SYSTEM BYPASS PANEL PROVIDED BY OTHERS.
 4. FOR LATEST BOARD PART NUMBERS CONTACT SCHNEIDER ELECTRIC.

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

SINGLE MAINS SYSTEM (CLASS 2/SELV)

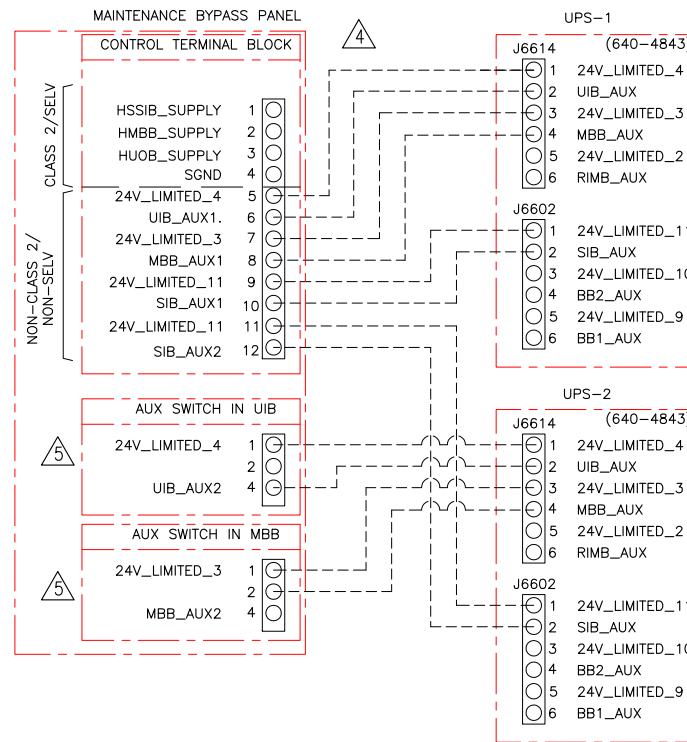


DUAL MAINS SYSTEM (CLASS 2/SELV)

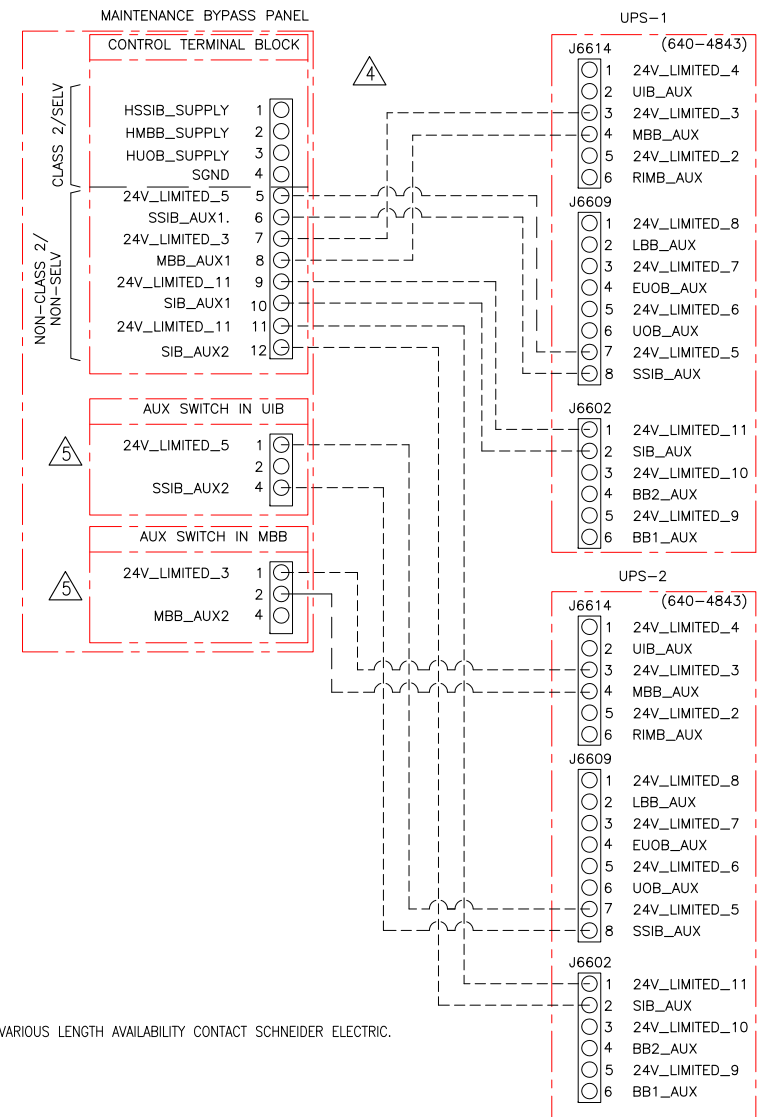


- NOTES:-
- ON UPS2: CUT THE PRE-INSTALLED JUMPER BETWEEN PINS 8 AND 9 ON THE TERMINAL CONNECTOR FOR J6618 ON BOARD 640-4864.
 - CABLES ARE CLASSIFIED AS CLASS2/SELV, TO BE ORDERED SEPARATELY, FOR VARIOUS LENGTH AVAILABILITY CONTACT SCHNEIDER ELECTRIC.
 - FOR LATEST BOARD PART NUMBERS CONTACT SCHNEIDER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

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



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



NOTES:

- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
- REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
- CABLES PROVIDED BY CUSTOMER.
- CABLES ARE CLASSIFIED AS NON-CLASS2/NON-SELV, TO BE ORDERED SEPARATELY, FOR VARIOUS LENGTH AVAILABILITY CONTACT SCHNEIDER ELECTRIC.
- AUX SWITCH PART OF KIT GVSOPT006.
- FOR LATEST BOARD PART NUMBERS CONTACT SCHNEIDER ELECTRIC.

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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 20-150kW
UPSs (1+1) - SINGLE UNIT MBP INTERFACE
SYSTEM WIRING DIAGRAM

PROJECT: DRAWINGS SHEET 2 OF 6

DWG NO: CVSUPS20K150HS-WD

DRAWN BY: BALA 14-MAY-20

ENGINEER: J L/ H N 10-JUN-20

APPROVED BY: J L/ H N 10-JUN-20

REV. 3

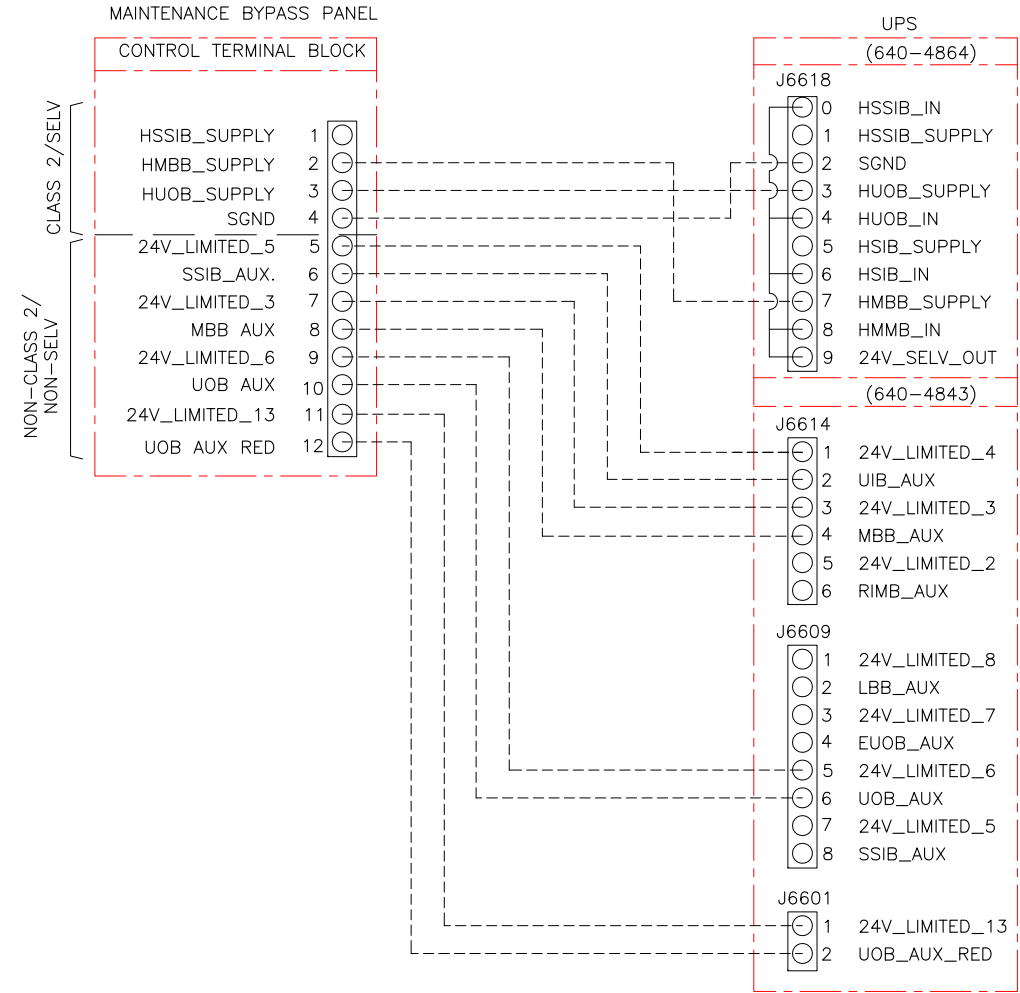
ANGLE

PROJECTION

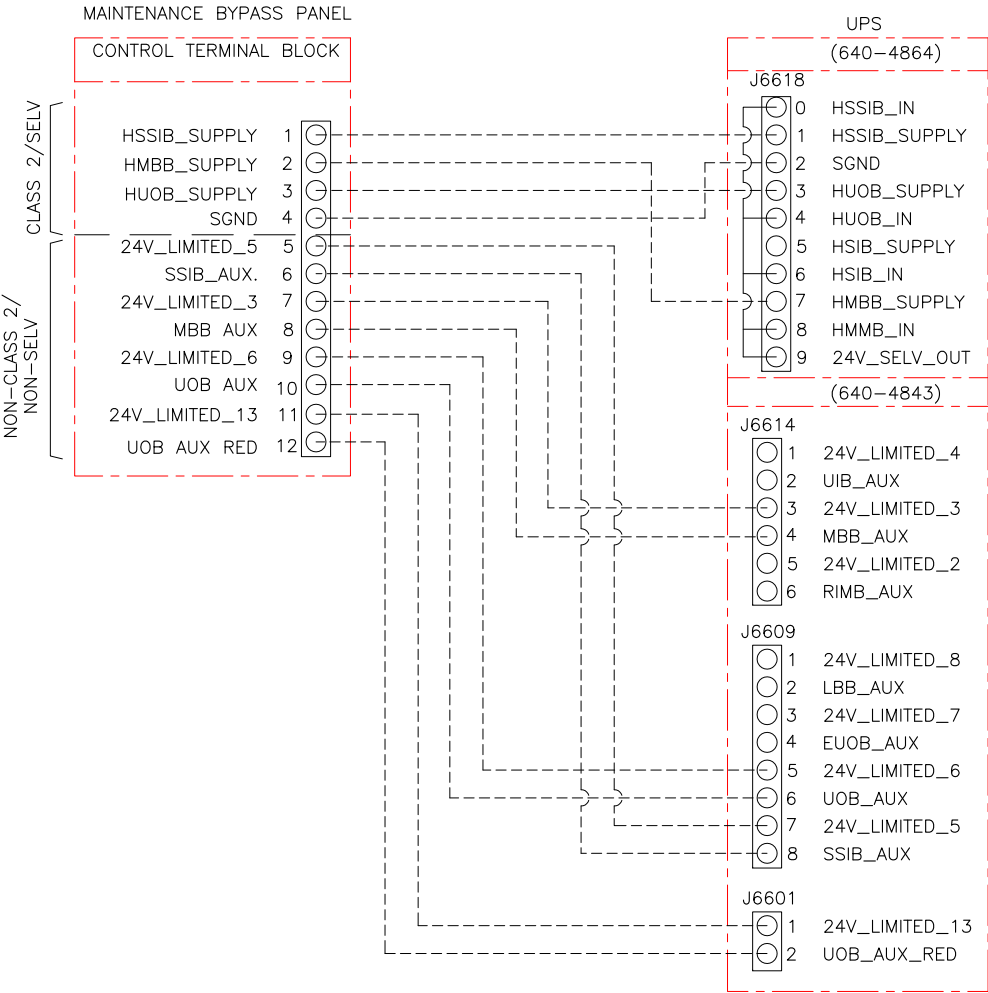
N.A

INTERFACE BETWEEN UPS (1MODULE) AND MBP
(GVSbpsu10k20H/Gvsbpsu20k60H/Gvsbpsu80k120H)

SINGLE MAINS



DUAL MAINS



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. FOR LATEST VERSION OF BOARD PART NUMBERS CONTACT SCHNEIDER ELECTRIC.
4. ALL CIRCUITS CONNECTED MUST HAVE THE SAME OV REFERENCE.
5. RUN THE Class2/SELV CABLES SEPARATELY FROM THE non-Class2/non-SELV CABLES.
6. ----- = 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.

Schneider Electric

TITLE: GALAXY VS
Input: 380/400/415V AC 3PH 50Hz SINGLE/DUAL FEED
Output: 380/400/415V AC 3PH 50Hz 20-150kW
UPS (1 MOD) - MBP INTERFACE
SYSTEM WIRING DIAGRAM

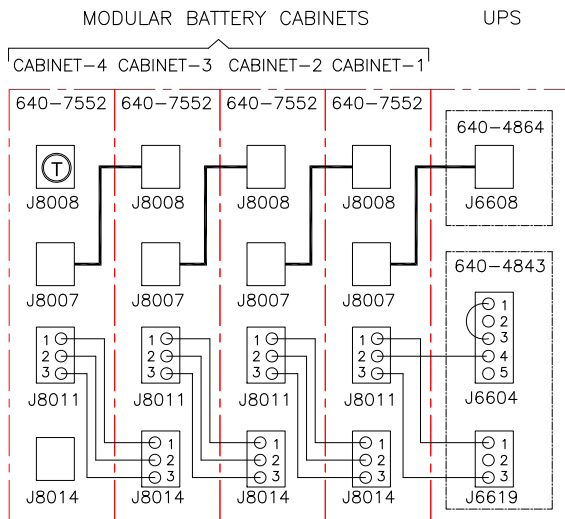
DWG NO: Cvsups20k150hs-wd

DRAWN BY: BALA 14-MAY-20
ENGINEER: J L/ H N 10-JUN-20

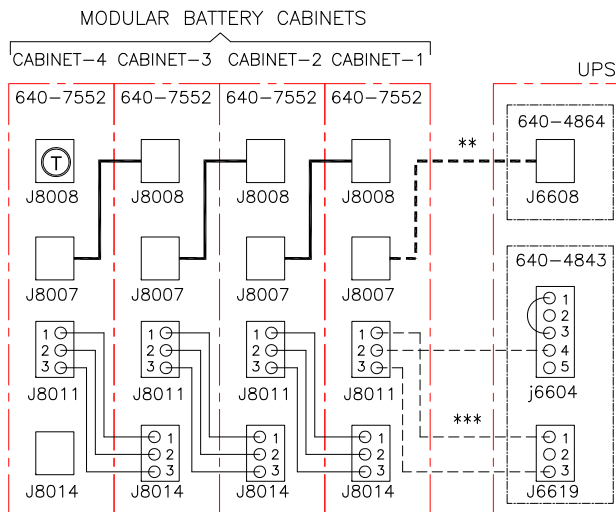
APPROVED BY: J L/ H N 10-JUN-20

REV. 3
ANGLE
PROJECTION
N.A.

UPS WITH ADJACENT MODULAR BATTERY CABINETS 4 5 8



UPS WITH REMOTE MODULAR BATTERY CABINETS 4



- ** 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.

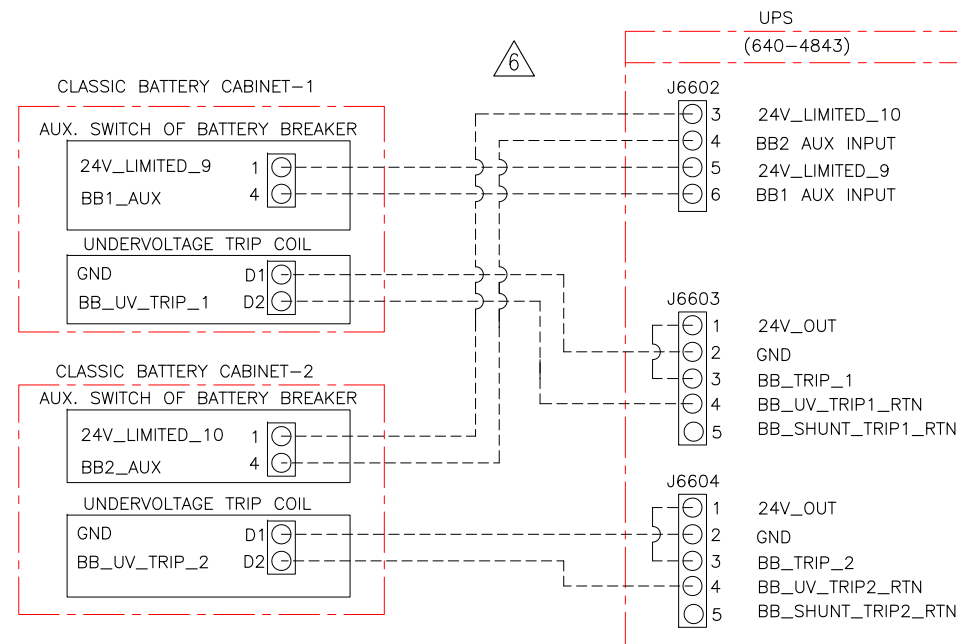
NOTE:-

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. FOR LATEST BOARD PART NUMBERS CONTACT SCHNEIDER ELECTRIC.
4. INTERFACE CABLES BETWEEN BATTERY CABINETS ARE PART OF BATTERY CABINET SKU.
5. INTERFACE CABLES BETWEEN BATTERY CABINET AND UPS IS PART OF OPTIONAL CABLE KIT GVSOPT030.
6. ----- = CABLES PROVIDED BY SCHNEIDER ELECTRIC FOR ADJACENT CONFIGURATION, PROVIDED BY OTHERS FOR REMOTE CONFIGURATION.
7. MAXIMUM ALLOWABLE DISTANCE BETWEEN UPS AND BATTERY IS 656 FEET [200 METERS].
8. FOR MORE DETAILS ON LI-LON BATTERY CABINET SKU#LIBATTSMGEIEC REFER TO DRAWING#LIBATTSMGEGVSIIEC-Li-Ion Battery Rack Type E-GVSIIEC

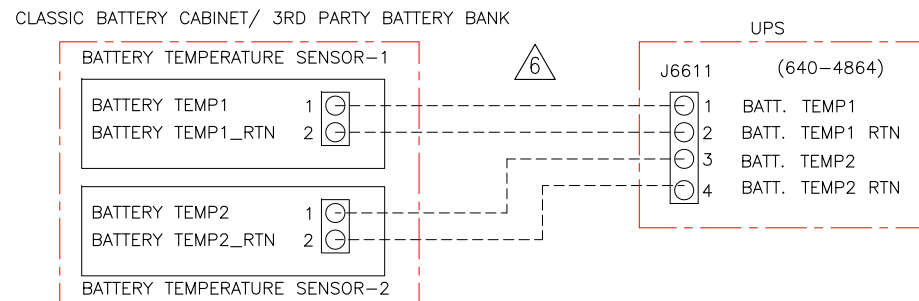
APPLICABLE NUMBER OF BATTERY CABINETS FOR VARIOUS UPS RATINGS		
UPS SKU NUMBER	UPS RATING (kW)	MINIMUM AND MAXIMUM NUMBER OF BATTERY CABINETS (GVSMODBC6)*
GVSUPS20KHS / GVSUPS20KHINS	20	1-4
GVSUPS30KHS / GVSUPS30KHINS	30	
GVSUPS40KHS / GVSUPS40KHINS	40	
GVSUPS50KHS / GVSUPS50KHINS	50	
GVSUPS60KHS / GVSUPS60KHINS	60	2-4
GVSUPS80KHS / GVSUPS80KHINS	80	
GVSUPS100KHS / GVSUPS100KHINS	100	
GVSUPS3120KHS / GVSUPS120KHINS	120	
GVSUPS150KHS / GVSUPS150KHINS	150	3-4
GVSUPS50K150HS	50kW EXPANDABLE TO 60/80/100/120/150kW. REFER TO RESPECTIVE ABOVE ROWS BASED ON EXPANSION	

* ONE BATTERY CABINET CAN SUPPORT A MAXIMUM OF 6 STRINGS

INTERFACE BETWEEN CLASSIC BATTERY CABINETS (GVSCBC7A/ GVSCBC7B/ GVSCBC7C/ GVSCBC10A2/GVSCBC10B2) AND UPS



BATTERY TEMPERATURE SENSOR INTERFACE



NOTE:-

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. FOR LATEST BOARD PART NUMBERS CONTACT SCHNEIDER ELECTRIC.
4. ALL CIRCUITS CONNECTED MUST HAVE THE SAME OV REFERENCE.
5. ----- = CABLES PROVIDED OTHERS.
6. MAXIMUM ALLOWABLE DISTANCE BETWEEN UPS AND BATTERY IS 200 METERS..
7. RUN THE Class2/SELV CABLES SEPARATELY FROM THE non-Class2/non-SELV CABLES.

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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 20-150kW
UPS - BATTERY INTERFACE-1
SYSTEM WIRING DIAGRAM

PROJECT: DRAWINGS SHEET 4 OF 6

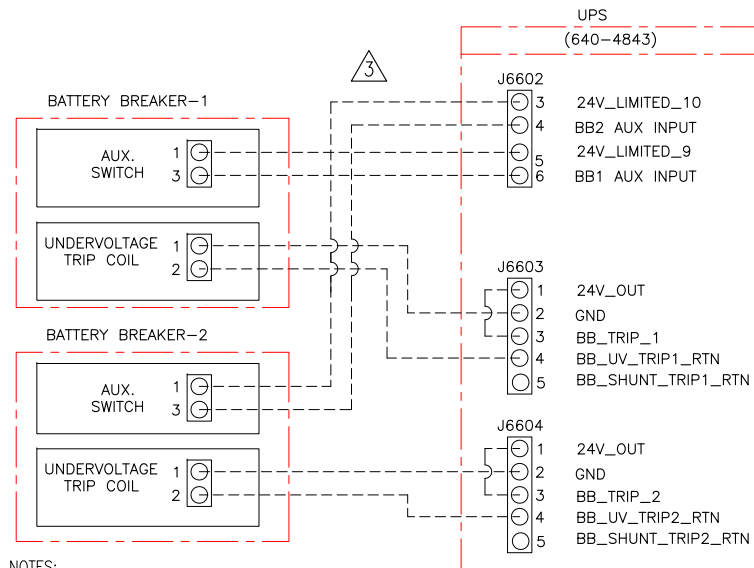
DWG NO: GVSUPS20K150HS-WD
DRAWN BY: BALA
ENGINEER: J L/ H N

APPROVED BY: J L/ H N

REV. 5
ANGLE
PROJECTION

9-OCT-20
9-OCT-20
9-OCT-20

INTERFACE BETWEEN BATTERY BREAKERS AND UPS

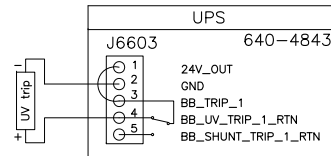


NOTES:

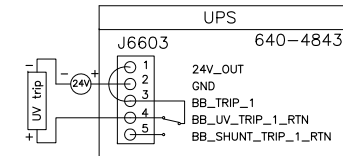
1. CURRENT, TIME AND TEMPERATURE DETAILS FOR VARIOUS SUPPORTED SHUNT REFER TO INSTALLATION MANUAL.
2. INTERFACE CABLES PROVIDED BY OTHERS.
- △ 3. MAXIMUM ALLOWABLE DISTANCE BETWEEN UPS AND BATTERY IS 200 METERS.

INTERFACE BETWEEN UPS AND THIRD PARTY BATTERY CABINETS

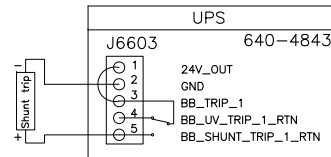
BATTERY BREAKER TRIP CONNECTION WITH INTERNAL 24VDC SUPPLY



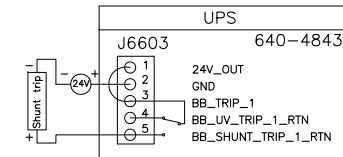
BATTERY BREAKER TRIP CONNECTION WITH INTERNAL 24VDC SUPPLY



BATTERY BREAKER TRIP CONNECTION WITH INTERNAL 24VDC SUPPLY



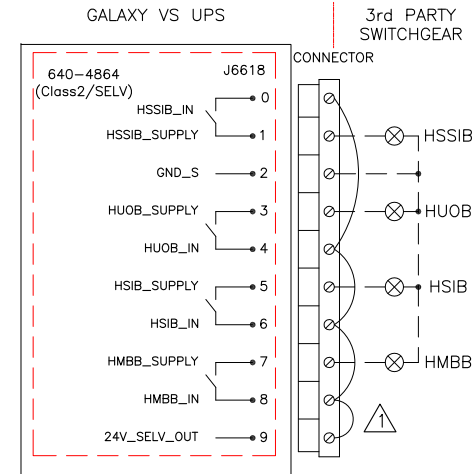
BATTERY BREAKER TRIP CONNECTION WITH INTERNAL 24VDC SUPPLY



NOTES:

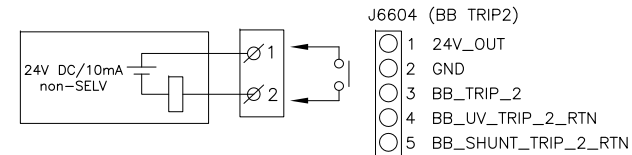
1. CURRENT, TIME AND TEMPERATURE DETAILS FOR VARIOUS SUPPORTED SHUNT REFER TO INSTALLATION MANUAL.
2. INTERFACE CABLES PROVIDED BY OTHERS.

INTERFACE BETWEEN UPS AND THIRD-PARTY AUXILIARY PRODUCTS



- △ 1. IF AN EXTERNAL SUPPLY IS USED, REMOVE JUMPER BETWEEN PIN 8 AND 9.

NON-SELV INTERFACE UPS(640-4843) TO THIRD PARTY SWITCHGEAR



J6601 (UOB)

- 1 24V_LIMITED_13
- 2 UOB_AUX_RED

J6602 (SIB & BB)

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

J6603 (BB_TRIP1)

- 1 24V_OUT
- 2 GND
- 3 BB_TRIP_1
- 4 BB_UV_TRIP_1_RTN
- 5 BB_SHUNT_TRIP_1_RTN

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

J6614 (UIB & MBB)

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

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. FOR LATEST BOARD PART NUMBERS CONTACT SCHNEIDER ELECTRIC.

COMMON NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. FOR LATEST VERSION OF BOARD PART NUMBERS CONTACT SCHNEIDER ELECTRIC.
4. RUN THE Class2/SELV CABLES SEPARATELY FROM THE non-Class2/non-SELV CABLES.

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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 20-150kW
UPS-BATT BREAKER/3RD PARTY SWITCHGEAR SOLUTION
SYSTEM WIRING DIAGRAM

PROJECT: DRAWINGS SHEET 5 OF 6

DWG NO: CVSUPS20K150HS-WD

ENGINEER: J L/ H N

APPROVED BY: J L/ H N

10-JUN-20

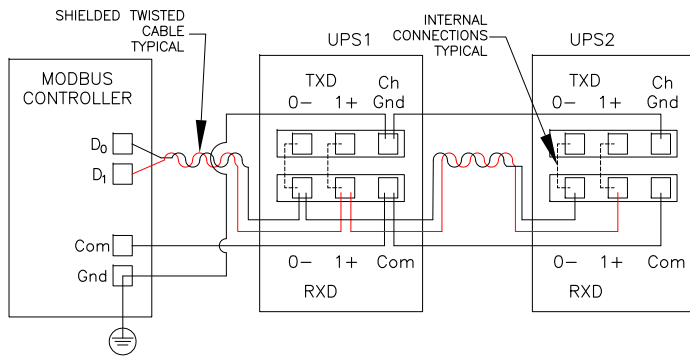
REV. 3

ANGLE

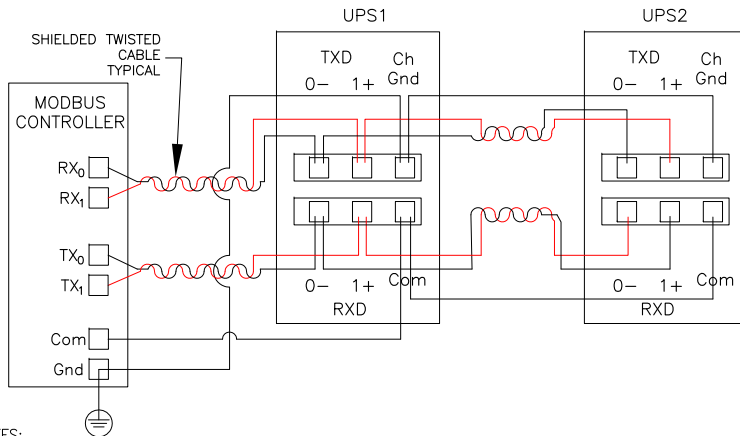
PROJECTION

N.A

2-WIRE CONNECTION WITH TWO UPSs



4-WIRE CONNECTION WITH TWO UPSs

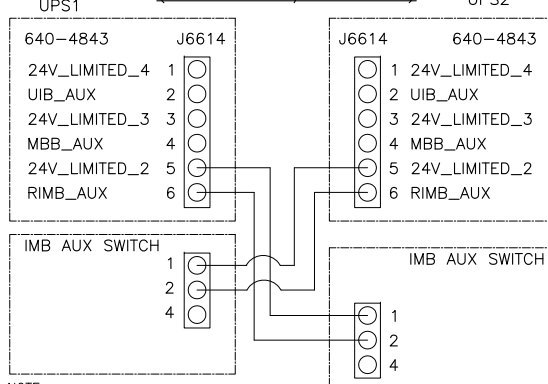


NOTES:

1. THE SHIELD CONNECTION TO THE GROUND MUST BE AS SHORT AS POSSIBLE (IDEALLY BELOW 1CM). THE SHIELD MUST BE CONNECTED TO EACH DEVICE.
2. ROUTE SIGNAL CABLES SEPARATELY FROM POWER CABLES TO ENSURE SUFFICIENT ISOLATION.
3. THE MODBUS PORT IS OPTICALLY ISOLATED. THE GROUND OF THE MODBUS PORT IS NOT CONNECTED TO ANY OTHER GROUND.
4. 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.
5. 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)



NOTE:

1. INTERFACE CABLES PROVIDED BY OTHERS.

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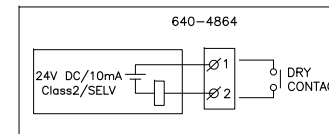
Schneider Electric

TITLE: GALAXY VS
Input: 380/400/415V AC 3PH 50Hz SINGLE/DUAL FEED
Output: 380/400/415V AC 3PH 50Hz 20-150kW
MOD BUS INTERFACE, UPS I-O & SIMPLIFIED 1+1 INTERFACE
SYSTEM WIRING DIAGRAM
PROJECT: DRAWINGS SHEET 6 OF 6

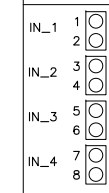
DWG NO: GVSUPS20K150HS-WD
ENGINEER: BALA
J L / H N
APPROVED BY: J L / H N
14-MAY-20
10-JUN-20
10-JUN-20
REV: 3
ANGLE
PROJECTION
N.A

EQUIPMENT TO INPUT CONTACTS AND OUTPUT RELAYS (IN UPS)

INPUT CONTACTS

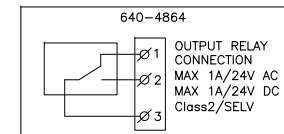


J6616
(640-4864)

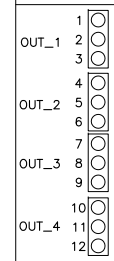


CONFIGURABLE
INPUT
CONTACT

OUTPUT RELAYS



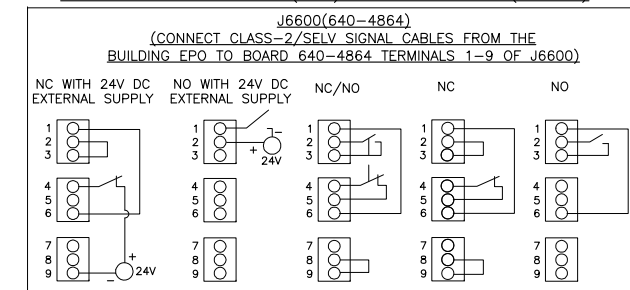
J6617
(640-4864)



CONFIGURABLE
OUTPUT
RELAY

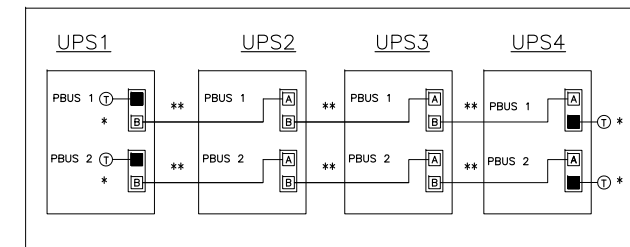
- △A. MAX 24V AC/ 24V DC 1A MUST BE CONNECTED TO THE OUTPUT RELAYS. ALL EXTERNAL CIRCUITRY MUST BE FUSED WITH MAXIMUM 1 A FAST ACTING FUSES. DO NOT CONNECT ANY CIRCUIT TO THE INPUT CONTACTS UNLESS IT CAN BE CONFIRMED THAT THE CIRCUIT IS CLASS 2. ALL CIRCUITS CONNECTED MUST HAVE THE SAME 0V REFERENCE.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

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).