

LEGEND:

---	AC CABLE - PROVIDED BY OTHERS
—	AC PATH - INSIDE UPS
—	DC PATH - INSIDE UPS/BATTERY CABINET

DEVICE RATING (UPS)						
DEVICE	CURRENT RATING	RATED OPERATIONAL VOLTAGE	TYPE	MAKE	MODEL	ACCESSORIES
UIS	400A	690V AC	3P LOAD SWITCH	Schneider Electric	INS400MG	1-Aux. Switch
SSIB/MBB/UOB	400A	690V AC	4P LOAD SWITCH	Schneider Electric	INS400MG	1-Aux. Switch
DEVICE RATING (MODULAR BATTERY CABINET)						
BB	250A	500V DC	3P MCCB	SCHNEIDER ELECTRIC	JDF36250	1-Aux. Switch, 24V DC Shunt trip

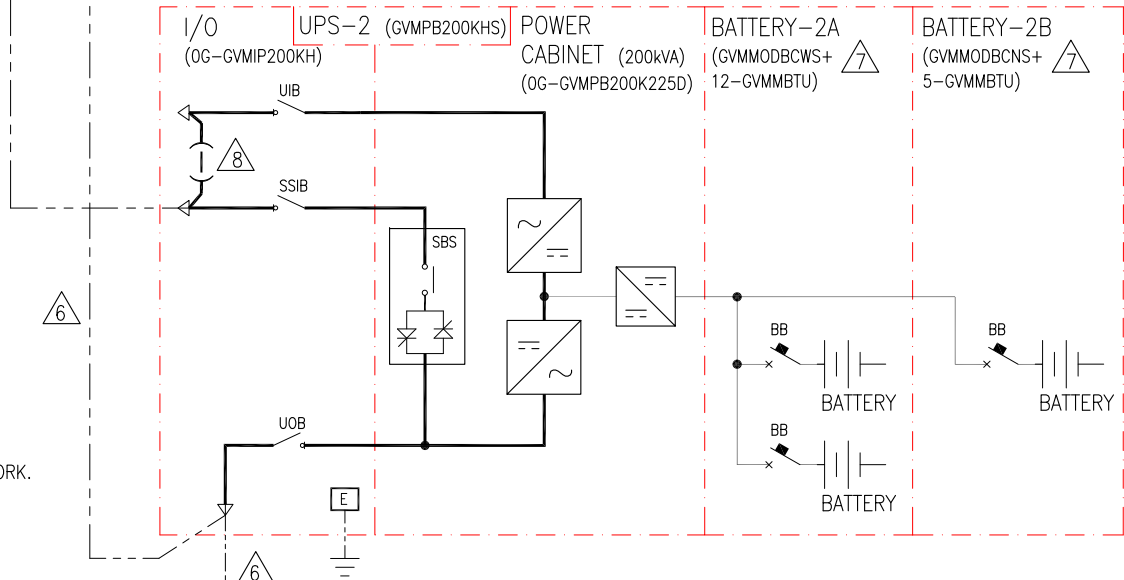
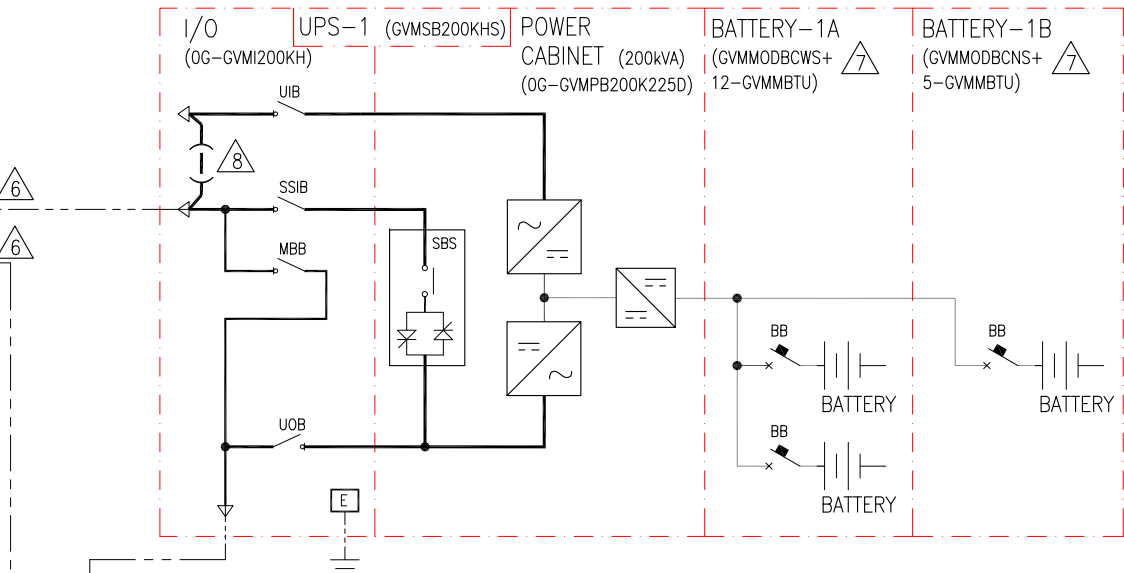
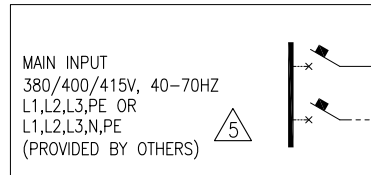
- NOTES:**
- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 - REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
 - REFER TO SHEET 3 FOR ELECTRICAL SPECIFICATIONS.
 - RECTIFIER AC SOURCE TO BE 3 WIRE + PE. TN-S, TN-C, TT & IT SUPPORTED.
 - BYPASS SOURCE TO BE IDENTICAL TO OUTPUT CONFIGURATION, 3 WIRE+PE OR 4 WIRE + PE. TN-S, TN-C, TT & IT SUPPORTED.
 - AC CABLING TO BE MINIMUM 600V RATED(NOT COMMON IN ALL COUNTRIES), 3 WIRE + PE, PROVIDED BY OTHERS.
 - AC CABLING TO BE MINIMUM 600V RATED(NOT COMMON IN ALL COUNTRIES), 3 WIRE + PE OR 4 WIRE + PE, PROVIDED BY OTHERS. SEE NOTE-6.
 - BATTERY RUNTIME IS THEORETICAL AND CALCULATED BASED ON DATA PROVIDED BY BATTERY MANUFACTURER ASSUMING OPTIMUM ENVIRONMENT AND LOAD CONDITIONS.
 - BUSBAR LINKS ARE APPLICABLE TO SINGLE MAINS ONLY AND SHALL BE REMOVED FOR DUAL MAINS INSTALLATIONS.
 - CABLE LUGS ARE NOT PROVIDED FOR EXTERNAL CABLES, PROVIDED BY OTHERS.
 - INPUT AND BYPASS MUST REFER TO THE SAME GROUNDING SYSTEM.

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TITLE: GALAXY VM
 Input: 380/400/415V AC 40-70HZ 3PH DUAL MAINS
 Output: 380/400/415V AC 50/60HZ 3PH 200KVA
 1+1 UPS WITH MODULAR BATTERY CABINETS
 SYSTEM ONE LINE DIAGRAM
PROJECT: DRAWINGS **SHEET** 1 OF 3

DWG NO: GVM200KHMODBC10R2-SD
DRAWN: BALAMURUGAN 02-MAY-14
ENGINEER: LS/M.G/M.W/H.D/C.G/S.M 13-MAY-14
APPROVED: N.R/B.H/W.Z/M.P/C.A/T.A 13-MAY-14
REV: 0
ANGLE PROJECTION: N/A



OUTPUT
200kVA 1+1
380/400/415V,
3PH 50/60Hz

LEGEND:

---	AC CABLE - PROVIDED BY OTHERS
—	AC PATH - INSIDE UPS
—	DC PATH - INSIDE UPS/BATTERY CABINET

DEVICE RATING (UPS)						
DEVICE	CURRENT RATING	RATED OPERATIONAL VOLTAGE	TYPE	MAKE	MODEL	ACCESSORIES
UIB	400A	690V AC	3P LOAD SWITCH	Schneider Electric	INS400MG	1-Aux. Switch
SSIB/MBB/UOB	400A	690V AC	4P LOAD SWITCH	Schneider Electric	INS400MG	1-Aux. Switch
DEVICE RATING (MODULAR BATTERY CABINET)						
BB	250A	500V DC	3P MCCB	SCHNEIDER ELECTRIC	JDF36250	1-Aux. Switch, 24V DC Shunt trip

- NOTES:**
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 - REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
 - REFER TO SHEET 3 FOR ELECTRICAL SPECIFICATIONS.
 - INPUT AC SOURCE TO BE 3PH 3 WIRE + PE OR 4 WIRE + PE. TN-S, TN-C, TT & IT SUPPORTED.
 - AC CABLING TO BE MINIMUM 600V RATED(NOT COMMON IN ALL COUNTRIES), 3-WIRE + PE OR 4 WIRE + PE, PROVIDED BY OTHERS.
 - BATTERY RUNTIME IS THEORETICAL AND CALCULATED BASED ON DATA PROVIDED BY BATTERY MANUFACTURER ASSUMING OPTIMUM ENVIRONMENT AND LOAD CONDITIONS.
 - BUSBAR LINKS ARE APPLICABLE TO SINGLE MAINS ONLY AND SHALL BE REMOVED FOR DUAL MAINS INSTALLATIONS.
 - CABLE LUGS ARE NOT PROVIDED FOR EXTERNAL CABLES, PROVIDED BY OTHERS.

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







TITLE: GALAXY VM
Input: 380/400/415V AC 40-70HZ 3PH SINGLE MAINS
Output: 380/400/415V AC 50/60HZ 3PH 200KVA
1+1 UPS WITH MODULAR BATTERY CABINETS
SYSTEM ONE LINE DIAGRAM

DWG NO: GVM200KHMODBC10R2-SD
DRAWN: BALAMURUGAN 02-MAY-14
ENGINEER: L.S./M.G./M.W./H.D./C.G./S.M 13-MAY-14
APPROVED: N.R./B.H./W.Z./M.P./C.A./T.A 13-MAY-14

REV: 0
ANGLE PROJECTION: N/A

PROJECT: DRAWINGS **SHEET 2 OF 3**

ELECTRICAL DATA SHEET-DUAL MAINS			
UPS RATING / POWER FACTOR	200kVA / 0.9		
INPUT VOLTAGE / BYPASS VOLTAGE	380V	400V	415V
OUTPUT VOLTAGE	380V	400V	415V
INPUT FREQUENCY / WIRING	40-70HZ / WIRING : 3 PH, 3 WIRE -3PH+PE		
BYPASS FREQUENCY / WIRING	50/60HZ / WIRING : 3 PH, 3 WIRE -3PH+PE, 4WIRE- 3PH+N+PE		
UPS INPUT NOMINAL INPUT CURRENT (A)	288	273	263
MAXIMUM INPUT CURRENT (A)	345	328	316
INPUT CURRENT LIMITATION (A)	347		
UPS BYPASS NOMINAL CURRENT (A)	304	289	278
OUTPUT FREQUENCY / WIRING	50/60HZ / WIRING : 3 PH, 3 WIRE -3PH+PE, 4WIRE- 3PH+N+PE		
NOMINAL OUTPUT CURRENT (FULL LOAD) (A)	304	289	278
NOMINAL BATTERY VOLTAGE (VDC)	480		
END OF DISCHARGE VOLTAGE (FULL LOAD) (VDC)	384		
BATTERY CURRENT AT FULL LOAD AND NOMINAL BATTERY VOLTAGE (A)	393		
BATTERY CURRENT AT FULL LOAD AND MINIMUM BATTERY VOLTAGE (A)	491		
THDI	< 3%@ 100% LOAD, <4% @ 50% LOAD, <6% @ 25% LOAD		
THDV	< 2%@ 100% LINEAR LOAD, < 3%@ 100% NON-LINEAR LOAD		
MAXIMUM SHORT CIRCUIT WITHSTAND	65kA @ REQUIRED BREAKER SIZE		
REQUIRED UPSTREAM INPUT BREAKER/RATING/SETTING	NSX400H Mic2.3 / 400A / I _o -360A, I _r (X I _o)-1, I _{sd} (X I _r)-1.5-10		
REQUIRED UPSTREAM BYPASS BREAKERS/RATING/SETTING	NSX400H Mic2.3 / 400A / I _o -320A, I _r (X I _o)-1, I _{sd} (X I _r)-8		
RECOMMENDED INPUT CABLE SIZE FOR INSTALLATION METHODS B1 / B2 / C -Sqmm	(2) 95 / (2) 120 / (2) 70  		
RECOMMENDED BYPASS CABLE SIZE FOR INSTALLATION METHODS B1 / B2 / C -Sqmm	(2) 70 / (2) 95 / (1) 120  		
RECOMMENDED OUTPUT CABLE SIZE FOR INSTALLATION METHODS B1 / B2 / C -Sqmm	(2) 70 / (2) 95 / (1) 120  		
HEAT DISSIPATION-NORMAL OPERATION in kW [BTU/Hr]	7.2 [24570]		
HEAT DISSIPATION-ECO MODE in kW [BTU/Hr]	1.8 [6140]		

ELECTRICAL DATA SHEET-SINGLE MAINS			
UPS RATING / POWER FACTOR	200kVA / 0.9		
INPUT VOLTAGE	380V	400V	415V
OUTPUT VOLTAGE	380V	400V	415V
INPUT FREQUENCY / WIRING	40-70HZ / WIRING : 3 PH, 3 WIRE -3PH+PE, 4WIRE- 3PH+N+PE		
UPS INPUT NOMINAL INPUT CURRENT (A)	288	273	263
MAXIMUM INPUT CURRENT (A)	345	328	316
INPUT CURRENT LIMITATION (A)	347		
OUTPUT FREQUENCY / WIRING	50/60HZ / WIRING : 3 PH, 3 WIRE -3PH+PE, 4WIRE- 3PH+N+PE		
NOMINAL OUTPUT CURRENT (FULL LOAD) (A)	304	289	278
NOMINAL BATTERY VOLTAGE (VDC)	480		
END OF DISCHARGE VOLTAGE (FULL LOAD) (VDC)	384		
BATTERY CURRENT AT FULL LOAD AND NOMINAL BATTERY VOLTAGE (A)	393		
BATTERY CURRENT AT FULL LOAD AND MINIMUM BATTERY VOLTAGE (A)	491		
THDI	< 3%@ 100% LOAD, <4% @ 50% LOAD, <6% @ 25% LOAD		
THDV	< 2%@ 100% LINEAR LOAD, < 3%@ 100% NON-LINEAR LOAD		
MAXIMUM SHORT CIRCUIT WITHSTAND	65kA @ REQUIRED BREAKER SIZE		
REQUIRED UPSTREAM INPUT BREAKER/RATING/SETTING	NSX400H Mic2.3 / 400A / I _o -360A, I _r (X I _o)-1, I _{sd} (X I _r)-7		
RECOMMENDED INPUT CABLE SIZE FOR INSTALLATION METHODS B1 / B2 / C -Sqmm	(2) 95 / (2) 120 / (2) 70  		
RECOMMENDED OUTPUT CABLE SIZE FOR INSTALLATION METHODS B1 / B2 / C -Sqmm	(2) 70 / (2) 95 / (1) 120  		
HEAT DISSIPATION-NORMAL OPERATION in kW [BTU/Hr]	7.2 [24570]		
HEAT DISSIPATION-ECO MODE in kW [BTU/Hr]	1.8 [6140]		

NOTES:

1. INSTALLATION SHALL 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. CABLE SIZES IN THIS MANUAL ARE BASED ON TABLE 52-C2 OF IEC STANDARD 60364-5-52 WITH THE FOLLOWING ASSERTIONS:
 - 90°C CONDUCTORS.
 - AN AMBIENT TEMPERATURE OF 30°C
 - USE OF COPPER CONDUCTORS
- △4. IF THE AMBIENT ROOM TEMPERATURE IS GREATER THAN 30°C, LARGER CONDUCTORS ARE TO BE SELECTED IN ACCORDANCE WITH THE CORRECTION FACTORS OF THE IEC.

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TITLE: GALAXY VM
Input: 380/400/415V AC 40-70HZ 3PH SINGLE/DUAL MAINS
Output: 380/400/415V AC 50/60HZ 3PH 200KVA
1+1 UPS WITH MODULAR BATTERY CABINETS
ELECTRICAL SPECIFICATIONS
PROJECT: DRAWINGS SHEET 3 OF 3

DWG NO: GVM200KHMODBC10R2-SD
DRAWN: BALAMURUGAN 02-MAY-14
ENGINEER: L.S/M.G/M.W/H.D/C.G/S.M 13-MAY-14
APPROVED: N.R/B.H/W.Z/M.P/C.A/T.A 13-MAY-14

REV: 0
ANGLE PROJECTION
N/A