

Life Is On

Schneider
Electric

Galaxy VM

Three-phase power protection



schneider-electric.com

Galaxy VM — trusted partner for your business continuity

Highly efficient, easy-to-deploy, three-phase power protection that seamlessly integrates into the electrical, physical, and monitoring environments of customers' medium data centers, industrial, or facilities applications.

- Highly efficient EConVersion mode
- Flexible battery solutions
- OSHPD and IBC® seismic certified
- Large color touch-screen display
- Industry-leading footprint
- Full front access
- 65 kAIC rating
- ENERGY STAR® qualified



Features and benefits

Highly efficient, easy-to-deploy, three-phase power protection that seamlessly integrates into electrical, physical, and monitoring environments.

The Galaxy™ VM is a key component of the fully integrated and comprehensive Schneider Electric™ energy management solution for data centers and industrial applications. Deploying the latest in technology, it lowers energy costs through high efficiency and an EConversion mode. State-of-the-art electrical performance options, such as wide input voltage range, high overload and short-circuit capacities, and integrated back-feed protection, allow the Galaxy VM to seamlessly integrate into your electrical network to provide excellent power quality. Highly compact, the Galaxy VM also integrates well with facility monitoring systems and smart grid requirements, offering energy storage flexibility that tailors the solution to your specific needs. It features top and bottom cable entry, full front service access, back-to-the-wall installation, and includes start-up services, making the Galaxy VM one of the easiest UPS units in its class to deploy, install, and maintain.

Integration

- Schneider Electric StruxureWare™ software applications and suites
- Electrical network earthing systems
- Facilities infrastructure
- Seismic certified
- Monitoring systems — BMS, modbus, etc.

Ease of installation

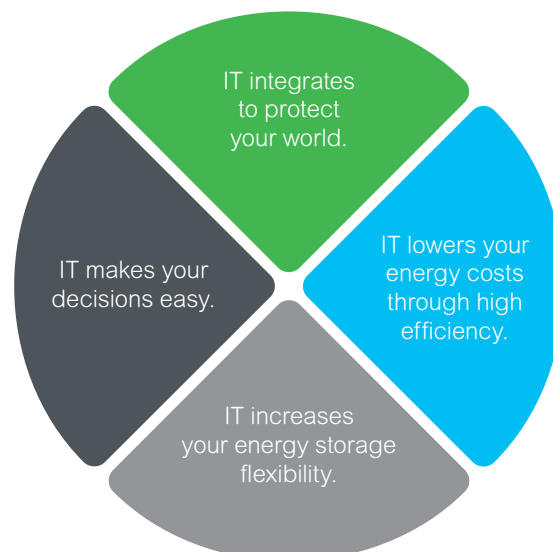
- System designed for ease of cabling in confined installation spaces
- Single cabinet top and bottom cable entry
- Integrated casters for ease of mobility on UPS and modular battery cabinets

Energy and cost savings

- High-efficiency double conversion mode
- ECO mode
- EConversion mode

Energy and storage flexibility

- Traditional (VRLA) and modular battery offer
- Short and long backup times
- Selectable charging modes



Galaxy VM features

IT integrates to protect your world.

Integration into your electrical network

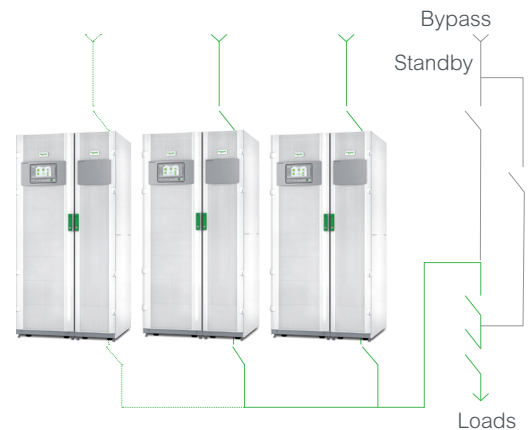
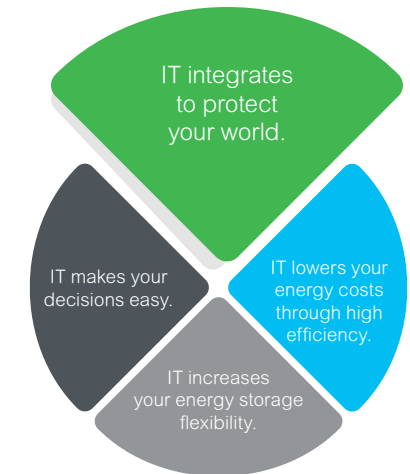
- Wide input voltage and frequency ranges
- Genset compliant with adaptive ramp-in
- Integrated parallel capability up to four UPS units
- Built-in integrated and tested back-feed protection

Full integration with Schneider Electric solutions

- Fully integrates into the comprehensive Schneider Electric energy management solution for data centers and industrial applications

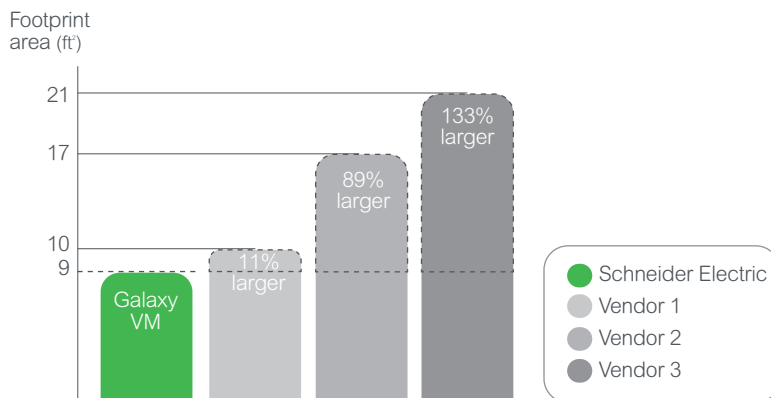
Integration into your facility infrastructure

- Compact footprints
- Back-to-the-wall installation
- Operates at 40 °C without derating
- Embedded seismic to OSHPD, IBC2012, and CBC2013 to Sds=2.02g
- Low audible noise levels
- Replaceable dust filter for harsh environments
- Configurable input/output relays

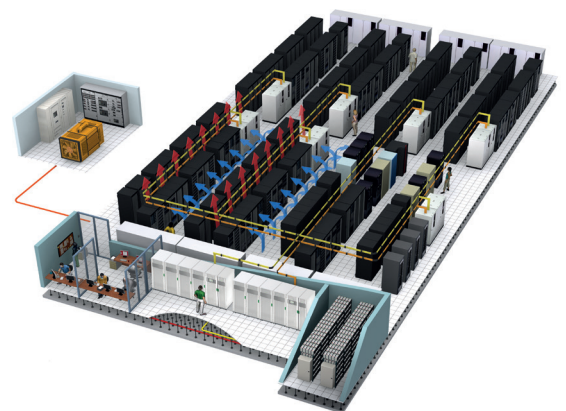


Paralleling capability of up to five UPS units for redundancy and up to four for capacity

Galaxy VM — the industry's most compact footprint



UPS with bypass.



Galaxy VM features

IT lowers your energy costs through high efficiency.

High-efficiency operating modes:

ECONversion mode

- Ultrahigh efficiency up to 99%
- Keeps excellent load protection
- Continuously charged batteries
- Compliant with IEC 62040-3 class 1 output definition of UPS standard
- Harmonics and input power factor correction

Double conversion mode

- Up to 96.5% efficiency in double conversion online mode even at low load levels
- Less energy losses = cost savings
- Less heat dissipation = lower cooling costs

ECO mode

- Up to 99% efficiency
- Compliant with IEC 62040-3 class 3 output definition of UPS standard

Cost savings by using Galaxy VM:

Very high efficiency for small to medium data centers, buildings, and facilities.

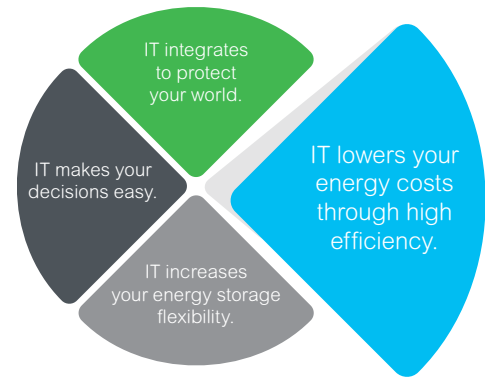
	Alternate UPS	Alternate UPS	Alternate UPS
Efficiency	95%	94%	93%
Savings by using Galaxy VM/year (in ECONversion mode)	\$28,567	\$38,089	\$47,611
Five-year savings by using Galaxy VM (in ECONversion mode)	\$142,835	\$190,445	\$238,055

Considering a total UPS load of 810 kW (4 x 225 kVA running at 100% load).

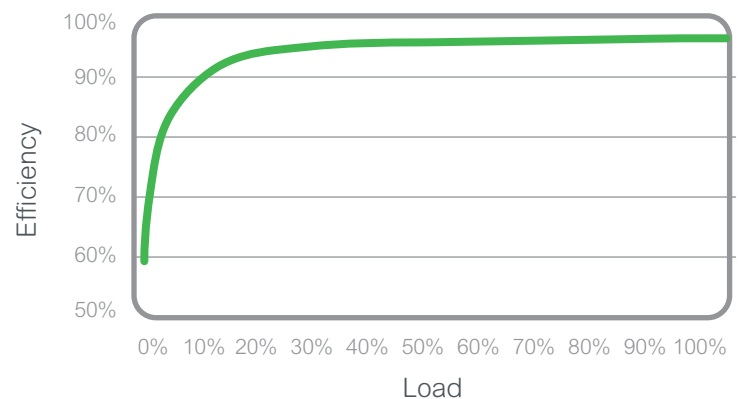
At the national average rate of \$0.10/kWh, an 810 kW Galaxy VM installation running in ECONversion mode (99% efficiency) can save \$190,445 for five years compared to an 810 kW UPS with 94% efficiency.*

In the same scenario, a Galaxy VM operating in double conversion mode (> 96% efficiency) has cost savings equal to \$104,745 over five years compared to an 810 kW UPS with 94% efficiency.

*Figures calculated using APC™ by Schneider Electric UPS efficiency comparison calculator are estimates. Individual savings could vary.



Galaxy VM efficiency curve



Galaxy VM features

IT increases your energy storage flexibility.

Energy storage options

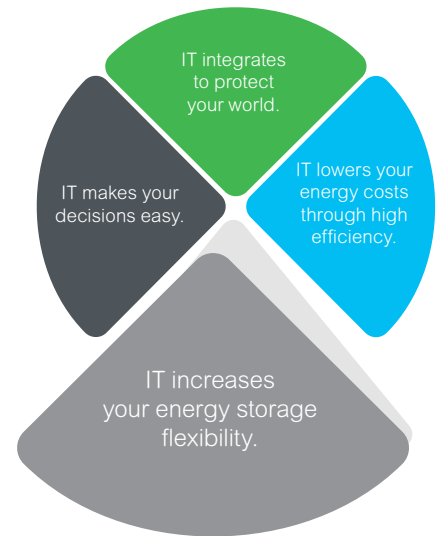
- Traditional (VRLA) battery offer
- Modular battery offer (battery redundancy when load is less than 100%)
- Short and extended backup times

Different charging modes

- New modular battery offer allows the replacement of batteries without the need to go to bypass, increasing availability. The loads are still protected by the UPS during maintenance.
- Traditional battery offers allow you to choose multiple runtime options and charging modes.

Galaxy VM options

- UPS with 480 – 208 transformer in 160 to 225 kVA
- Management cards
- Battery cabinets
- Fuse kit
- Wall-mounted battery breaker boxes
- Parallel system bypass cabinets
- Dust filter kit



Battery cabinets



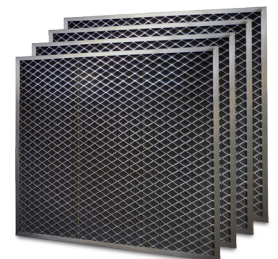
Modular battery cartridge



Management cards



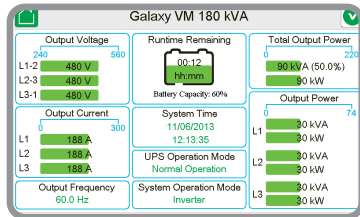
Wall-mounted battery breaker box



Dust filter kit

Galaxy VM features

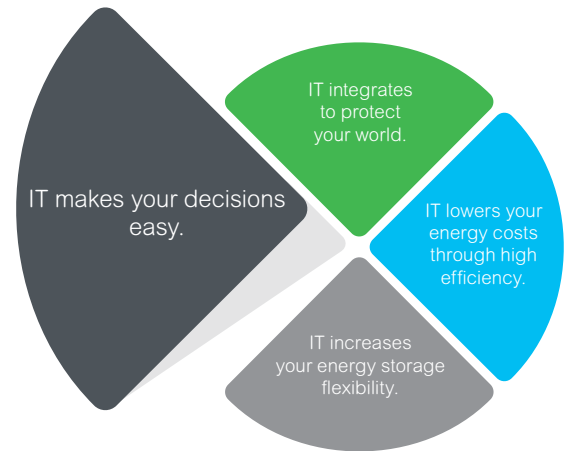
IT makes your decisions easy.



LCD display



UPS with input/output cabinet



From ordering to installation, the Galaxy VM makes your solution choice easy.

Start-up

- 5 x 8 start-up services are included, allowing for full coverage of factory warranty

Installation

- Casters allow UPS configurations to be moved easily and installed up against the wall
- Separate cabinet for input and output cabling ensures quick and easy installation
- Top and bottom entry standard provides great flexibility to the installer

Monitoring

- 7-inch touch-screen color display
- Integrated network management capability for easy access to the network
- Integrated battery monitoring capability included for modular battery offer
- Modbus (SCADA and ION-E) capability
- Customizable dry contacts and relays



Dry contact I/O accessory (AP9810)



UPS network management card (AP9631)

StruxureWare for Data Centers software suite

In the data center environment, our Galaxy VM is fully managed through StruxureWare for Data Centers software, an integrated suite of data center infrastructure management (DCIM) applications. It enables businesses to prosper by managing their data centers across multiple domains, providing actionable intelligence for an ideal balance of high availability and peak efficiency throughout the entire data center life cycle. StruxureWare software applications and suites are key elements of Schneider Electric EcoStruxure™ integrated hardware and software system architecture — a system designed for intelligent energy management.



A comprehensive portfolio of services

Schneider Electric Critical Power & Cooling Services (CPCS) provides the expertise, services, and support you need for your building, industry, power, or data center infrastructure. Our world-class life cycle services offer a smart way to install and maintain your critical applications, ensuring your systems are always running at peak performance.

Assembly and Start-Up Service by a certified Field Service Engineer (FSE) allows full factory warranty coverage. A Schneider Electric certified installation makes certain your equipment is properly configured for optimal performance. This service features a standard eight-hour, five-day response time, with upgrades available for off-business hours.



On-site warranty extension service

In the case of a system event, an FSE will arrive by the next business day (or faster with upgrades) to isolate, diagnose, and correct in as little time as possible, minimizing downtime.

Advantage plans

Flexible service packages offer hassle-free system maintenance to improve uptime at a predictable cost. The Advantage Plus, Prime, Ultra, and Max are full-service packages that include technical support, preventive maintenance, quick on-site response, and remote monitoring. Response time upgrades are available.

Remote monitoring service

Remote monitoring service is an economical and easy-to-use Web-based service that lets you quickly respond to environmental or system changes. Trained technicians provide secure 24-hour monitoring of your physical infrastructure to diagnose and resolve events before they become critical.

Preventive maintenance

Preventive maintenance on-site examinations keep your critical systems running at maximum efficiency.

Technical specifications

Rated power (kVA/kW)	160/144	180/162	225/202.5
Normal AC supply input			
Input voltage (V)	360 – 576 (480 V three-phase)		
Normal and bypass AC inputs	Single input standard, dual input optional		
Frequency (Hz)	40 – 70 Hz		
Input power factor	0.99 at greater than 40% load		
THDI	< 3% full load		
Bypass AC input			
Input voltage range	432 – 528 V		
Frequency	50 Hz or 60 Hz		
Output			
Phase-to-phase output voltage (V)	480 V (208 V & 600 V with transformer)		
Load power factor	0.9		
Output frequency	50/60 Hz +/- 0.1% (free-running)		
Overload capacity utility operation at 40 °C	150% for 1 minute and 125% for 10 minute		
Output voltage regulation	+/- 1%		
Total harmonic distortion (THDU)	< 2% at 100% linear load; < 3% at 100% non-linear load		
Output voltage tolerance	Symmetric load (0 – 100%): +/- 1% static; asymmetric load: +/- 3% static		
Overall efficiency			
Efficiency at full load (AC-AC) at 100% load	Up to 96.5%		
ECONversion mode	Up to 99%		
Standard ECO mode	Up to 99%		
Communication and management			
Control panel	Multifunction 7” touch-screen color LCD display with built-in NMC, Modbus (SCADA and ION-E), two empty NMC card slots		
Dimensions and weights			
UPS (H x W x D)	77.56 x 39.45 x 33.62 in.		
Weight in lbs. (UPS)	1,494	1,494	1,549
450 kVA system bypass cabinet (H x W x D), weight	77.56 x 59.25 x 32.95 in. 1,069 lb		
675 kVA system bypass cabinet (H x W x D), weight	77.56 x 59.25 x 32.95 in. 1,113 lb.		
Regulatory			
Safety	UL 1778 Fourth Edition		
EMC/EMI/RFI	FCC 47 Part 15		
Markings	UL 1778		
Transportation	ISTA® 2B		
Seismic zone	OSHPD, IBC2012 and CBC2013 to Sds=2.02g		
Environmental			
Operating temperature	0 °C – 40 °C (32 °F – 104 °F)		
Storage temperature	-25 °C to 55 °C (-77 °F to 131 °F) — without batteries -15 °C to 40 °C (5 °F to 104 °F) — with batteries		
Relative humidity	0% – 95% noncondensing 3,280 ft. at 100% load		
Operating elevation	3,280 ft. at 100% load		
Storage elevation	0 – 49,212 ft.		
Max. audible noise at 1 m from unit	55 dB at 70% load, 65 dB at 100% load		



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January 2021

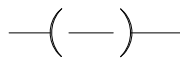
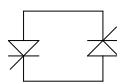
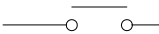
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GALAXY VM 160 kVA 1 module UPS with Modular Battery Cabinets

Sheet No.	Component /Detail	Description
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3-5	Solution General Arrangement	Galaxy VM 160 kVA 1 Module UPS w ith Modular Battery Cabinets- Solution General Arrangements
6	Solution Anchoring Details	Galaxy VM 160 kVA 1 Module UPS w ith Modular Battery Cabinets- Solution Anchoring Details
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12-13	Wide-Battery Cabinet Internal View s & Details	Galaxy VM 160 kVA 1 Module UPS w ith Modular Battery Cabinets- Wide Battery Cabinet Internal Details
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16-18	System One Line Diagram	Galaxy VM 160 kVA 1 Module UPS w ith Modular Battery Cabinets- System One Line Diagram

LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EARTH		CONVERTER
	CIRCUIT BREAKER		INVERTER
	BATTERY		DC-DC CONVERTER
	BUSBAR LINK		BYPASS SSW
	NORMALLY OPEN CONTACT		TERMINATION POINT

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TITLE: Galaxy VM
Input: 480V AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160KVA
1 MODULE UPS WITH MODULAR BATTERY CABINETS
DRAWING GUIDE

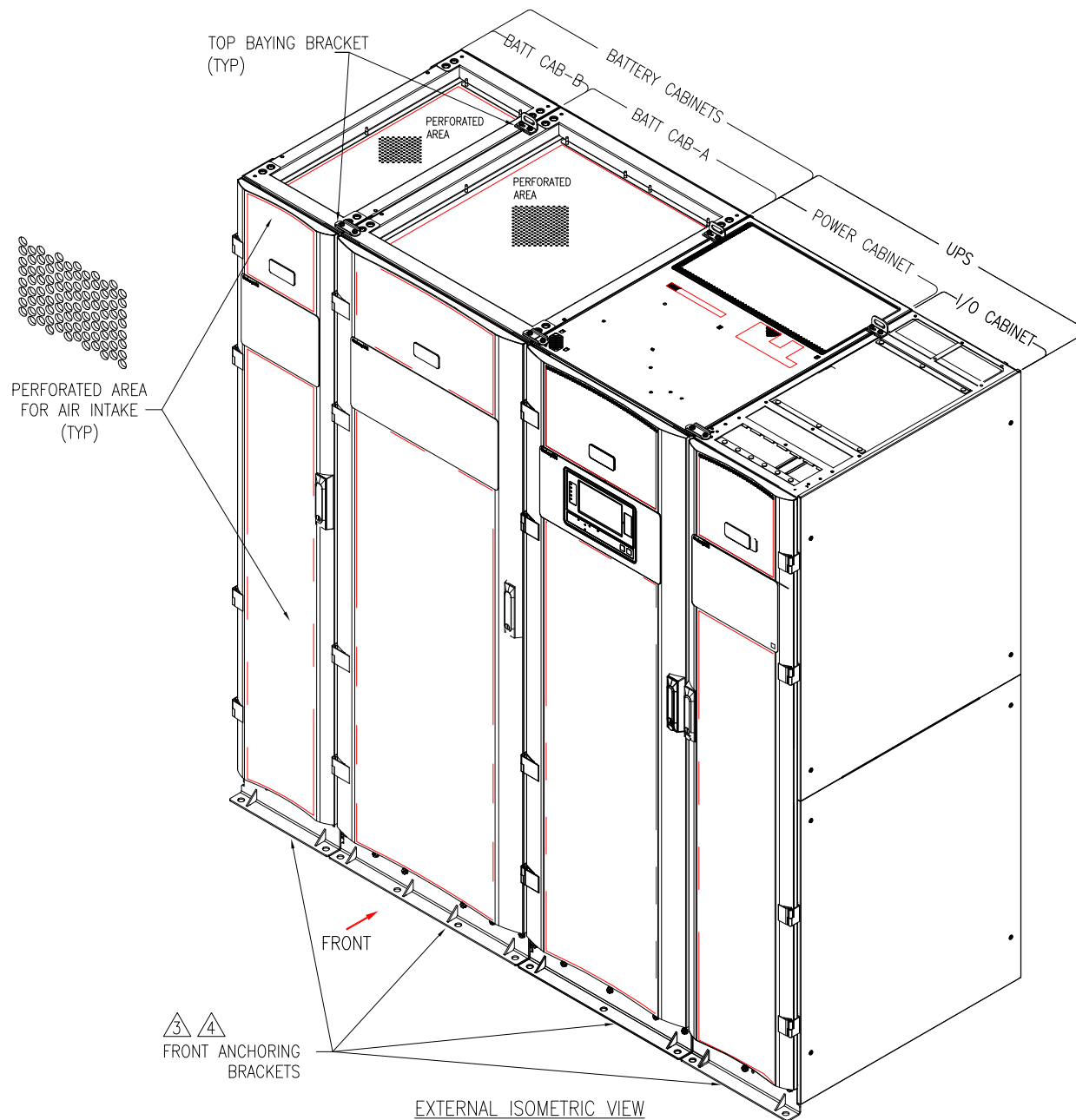
PROJECT: DRAWINGS **SHEET** 1 OF 18

DWG NO: GVM160KG65MODB10C1 **REV.** 0

DRAWN BY: K.NAGENDRA 20-AUG-15 **ANGLE**

ENGINEER: C ANDERSEN/Y DU 20-AUG-15 **PROJECTION**

APPROVED BY: M PAULSEN 20-AUG-15 **N.A**



RUNTIME CHART

Runtime in Minutes	Number of Battery Cartridges (GVMMBTU)	Quantity & Type of Cabinet
6.7	10	1W
7.8	11	1W
8.8	12	1W
9.9	13	1W+1N
11	14	1W+1N
12	15	1W+1N
13	16	1W+1N
14.5	17	1W+1N
15.5	18	1W+1N
22.5	24	2W
30	30	2W+1N
38	36	3W
46	42	3W+1N
54	48	4W
62.5	54	4W+1N
71	60	5W
79.5	66	5W+1N
88.5	72	6W
97.5	78	6W+1N
105	84	7W
115	90	7W+1N
125	96	8W

LEGEND

1N = 1 Narrow Battery Cabinet: SKU No. GVMMODBCNS
1W = 1 Wide Battery Cabinet: SKU No. GVMMODBCWS

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. IN AREAS WHERE SEISMIC PROTECTION IS REQUIRED, FOLLOW THE INSTRUCTIONS IN GVM65KANCHORING-SA DRAWING.
- △ 4. FOR INSTALLATION ON RAISED FLOOR, FOLLOW THE INSTRUCTIONS IN GVM65KANCHORING-RF DRAWING.
5. BATTERY RUNTIMES ARE THEORETICAL AND CALCULATED BASED ON DATA PROVIDED BY BATTERY MANUFACTURER, ASSUMING OPTIMUM ENVIRONMENT AND LOAD CONDITIONS.
6. FOR INTERMEDIARY RUNTIME DETAILS, CONTACT SCHNEIDER ELECTRIC.

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TITLE: Galaxy VM
Input: 480V AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160KVA
1 MODULE UPS WITH MODULAR BATTERY CABINETS
SOLUTION-ISOMETRIC VIEW

PROJECT: DRAWINGS SHEET 2 OF 18

DWG NO: GVM160KG65MODB10C1

REV. 0

DRAWN BY: K.NAGENDRA 20-AUG-15

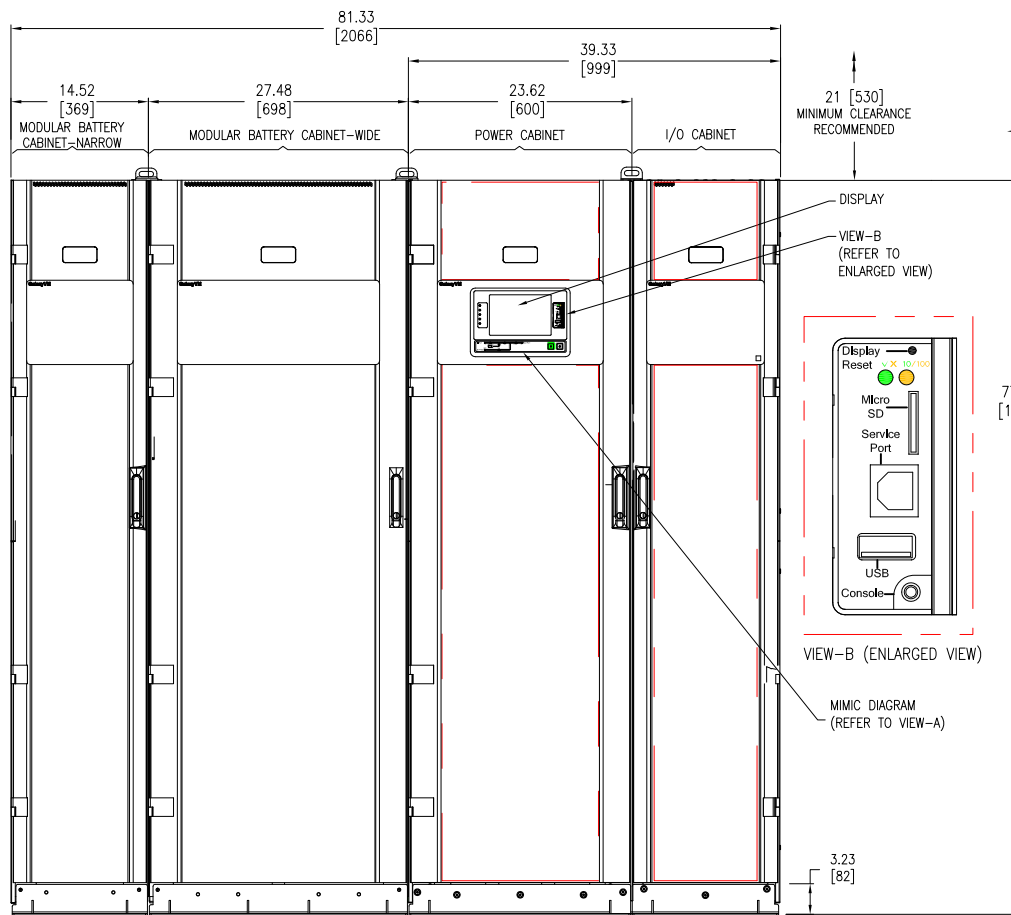
THIRD

ENGINEER: C ANDERSEN/Y DU 20-AUG-15

ANGLE

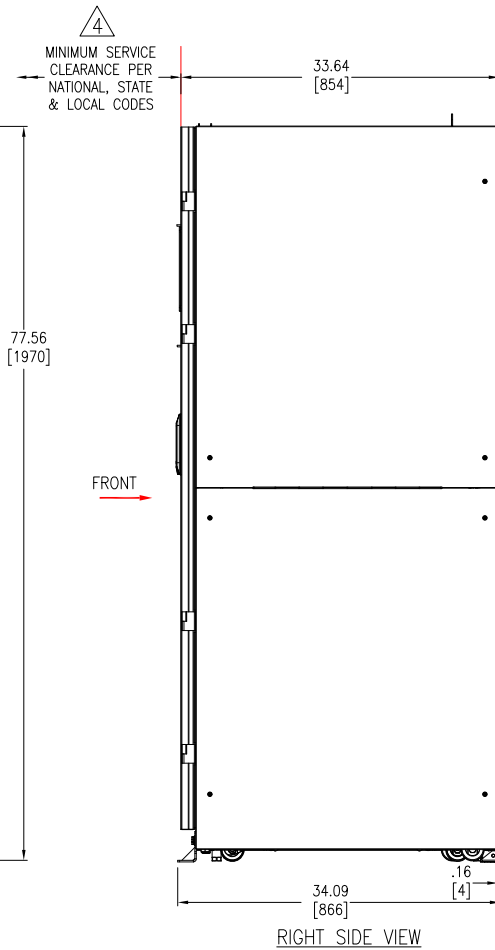
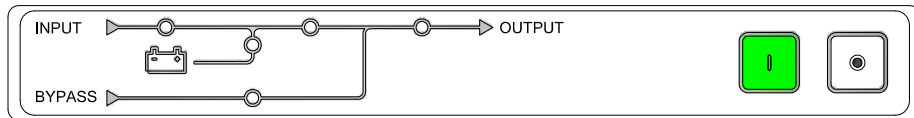
APPROVED BY: M PAULSEN 20-AUG-15

PROJECTION

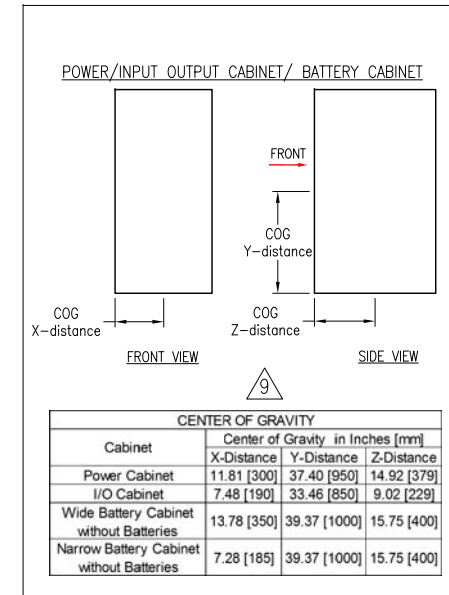


FRONT VIEW

VIEW-A (MIMIC DIAGRAM)



RIGHT SIDE VIEW



- NOTES:**
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 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
 4. FRONT ACCESS REQUIRED FOR SERVICE.
 5. UPS: INPUT POWER CABLE ENTRY IS FROM TOP OR BOTTOM OF THE UNIT.
BATTERY CABINET: CABLE ENTRY IS FROM SIDE OF THE UNIT.
 6. OPERATING TEMPERATURE: 32°F TO 104°F [0°C TO 40°C].
TO OPTIMIZE THE LIFE OF BATTERY IT IS RECOMMENDED TO MAINTAIN 77°F [25°C].
 7. PROTECTION CLASS: IP20 (IP32 OPTIONAL).
 8. COLOR: RAL 9003 WHITE.
 9. THIS INFORMATION PROVIDES CONSERVATIVE CENTER OF GRAVITY CALCULATION.
 10. DOOR SWING: FREELY ROTATES BY 180°.
 11. ALL DIMENSIONS EXCLUDES SCREW PROJECTION OUTSIDE THE ENCLOSURE.
 12. AS THE MODULAR BATTERY CABINET IS BAYED WITH POWER FRAME, LEFT SIDE PANELS (COVERS) OF THE POWER FRAME WILL BE TAKEN OUT AND MOUNTED ON LEFT SIDE OF THE NARROW BATTERY CABINET.

Floor Loading Data			
SKU #	Dimensions HxWxD in Inches [mm]	Weight in lb [kg]	Floor Loading in lb/ft² [kg/m²]
0G-GVMPB160KG (Power Cabinet)	77.56x23.62x33.62 [1970x600x854]	1032 [439]	187 [915]
0G-GVMI225KG65K (I/O Cabinet)	77.56x15.83x33.62 [1970x400x854]	463 [210]	125 [615]
GVMSB160KG65S (UPS)	77.56x39.45x33.62 [1970x1002x854]	1495 [679]	162 [793]
GVMMODBCWS (Wide Battery Cabinet-without Batteries)	77.56x27.56x33.62 [1970x700x854]	462 [210]	72 [351]
GVMMODBCNS (Narrow Battery Cabinet-without Batteries)	77.56x14.57x33.62 [1970x370x854]	306 [139]	90 [440]
GVMMODBCWS+12 GVMMBTU	77.56x27.56x33.62 [1970x700x854]	3630 [1650]	564 [2760]
GVMMODBCNS+2 GVMMBTU	77.56x14.57x33.62 [1970x370x854]	834 [379]	245 [1199]

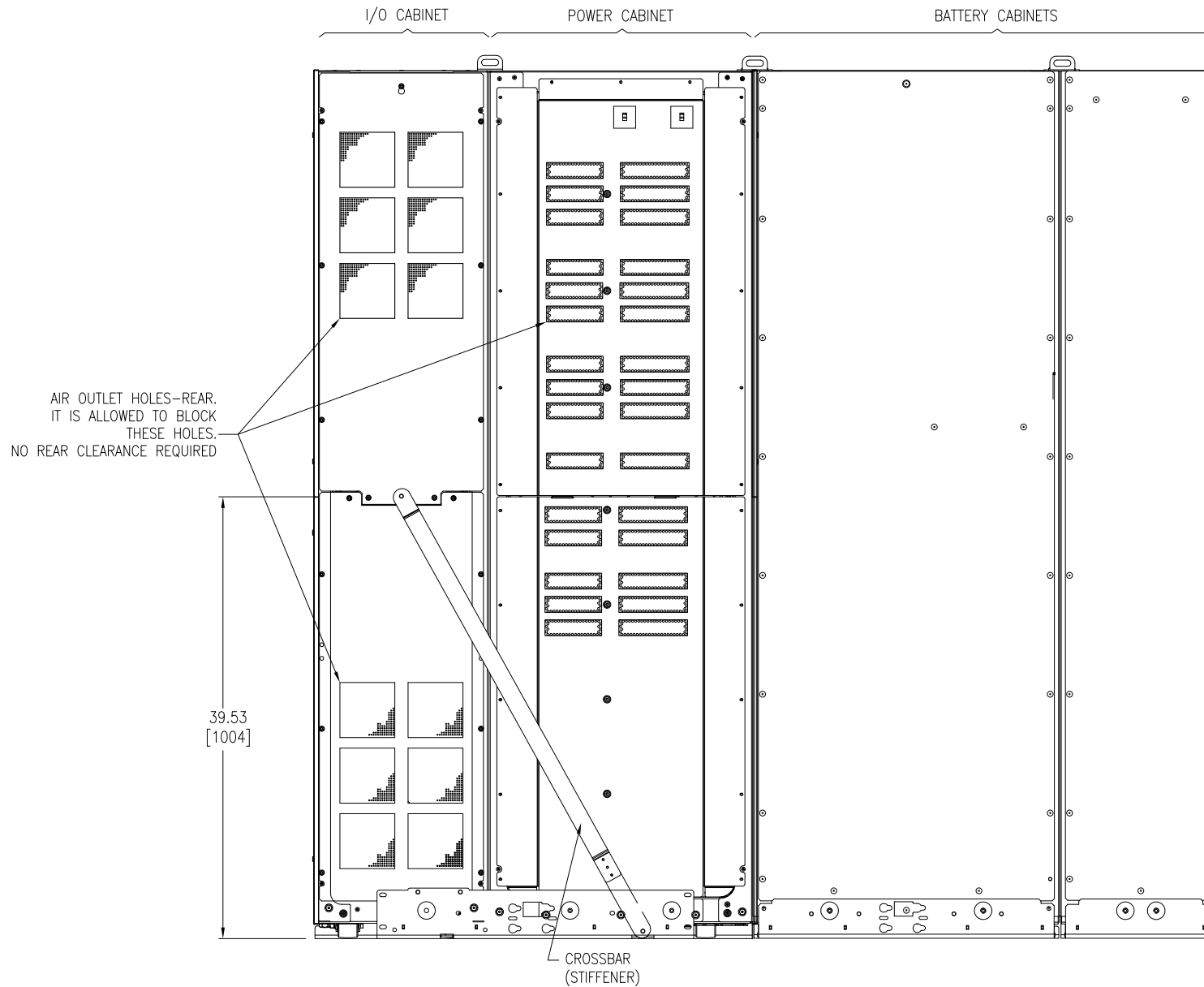
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TITLE: Galaxy VM
Input: 480V AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160KVA
1 MODULE UPS WITH MODULAR BATTERY CABINETS
SOLUTION-GENERAL ARRANGEMENT

PROJECT: DRAWINGS **SHEET** 3 OF 18

DWG NO: GVM160KG65MODB10C1 **REV.** 0
DRAWN BY: K.NAGENDRA 20-AUG-15 **THIRD**
ENGINEER: C ANDERSEN/Y DU 20-AUG-15 **ANGLE**
APPROVED BY: M PAULSEN 20-AUG-15 **PROJECTION**



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TITLE: Galaxy VM
Input: 480V AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160KVA
1 MODULE UPS WITH MODULAR BATTERY CABINETS
SOLUTION-REAR VIEW

PROJECT: DRAWINGS **SHEET** 4 OF 18

DWG NO: GVM160KG65MODB10C1

DRAWN BY: K.NAGENDRA 20-AUG-15

ENGINEER: C. ANDERSEN/Y DU 20-AUG-15

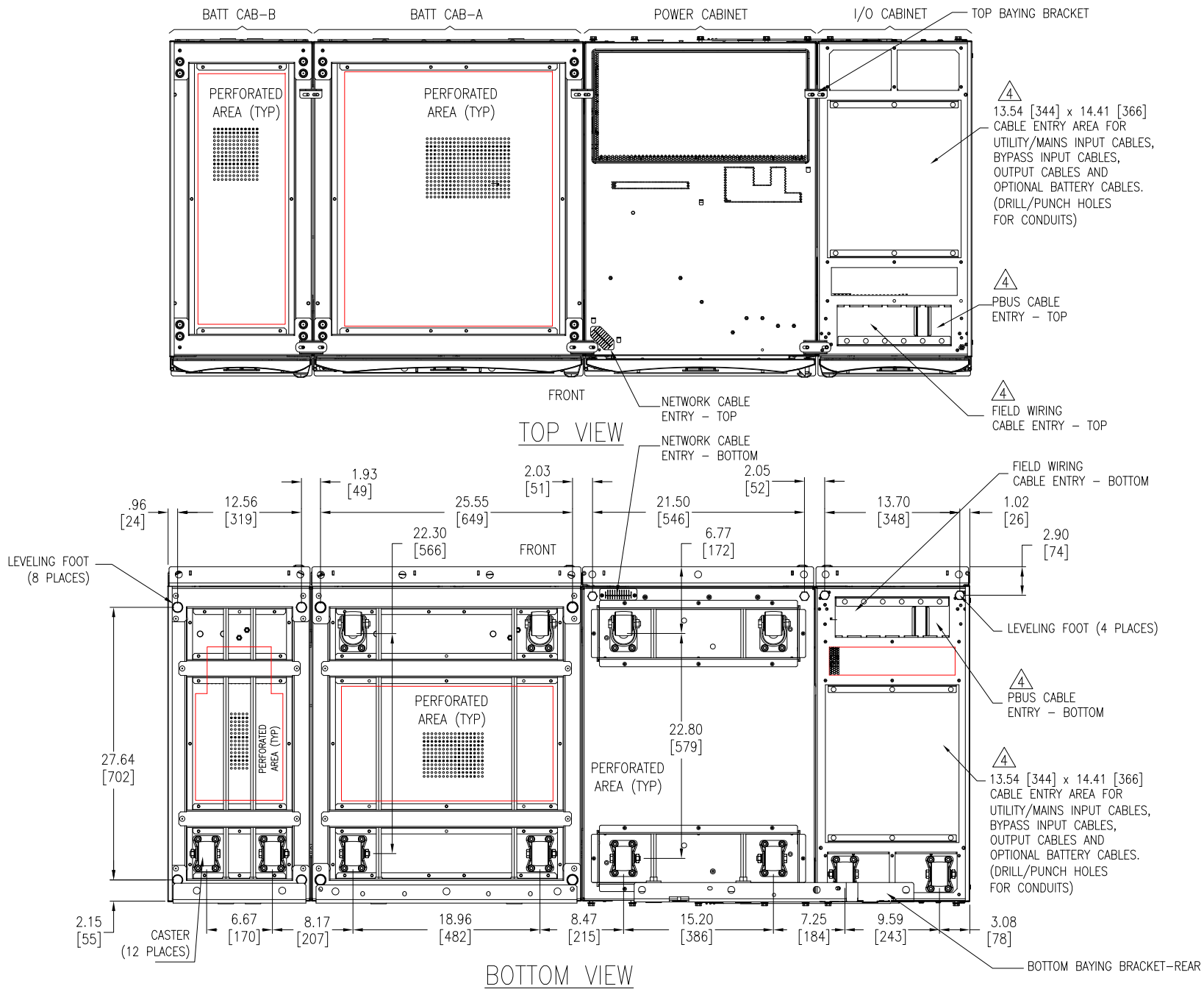
APPROVED BY: M. PAULSEN 20-AUG-15

REV. 0

THIRD

ANGLE

PROJECTION



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 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
- △4. DRILL/PUNCH HOLES IN PLATE. REMOVE PLATE FROM CABINET BEFORE DRILLING/PUNCHING.
- INPUT POWER/COMMUNICATION CABLE ENTRY IS FROM TOP OR BOTTOM OF THE UNIT.

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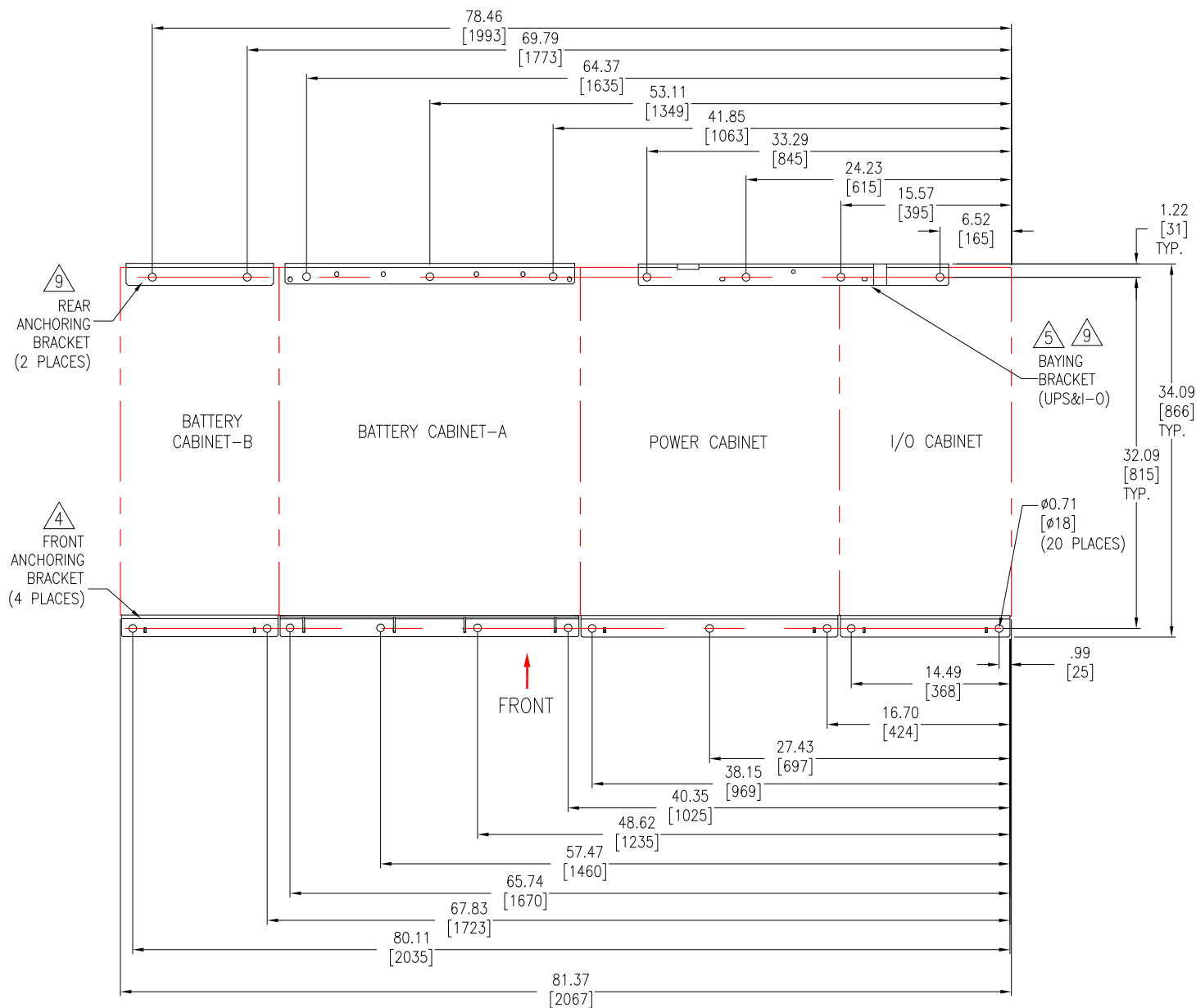
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TITLE: Galaxy VM
Input: 480V AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160KVA
1 MODULE UPS WITH MODULAR BATTERY CABINETS
SOLUTION-TOP AND BOTTOM VIEWS

PROJECT: DRAWINGS **SHEET** 5 OF 18

DWG NO: GVM160KG65MODB10C1 **REV.** 0
DRAWN BY: K.NAGENDRA 20-AUG-15 **THIRD**
ENGINEER: C ANDERSEN/Y DU 20-AUG-15 **ANGLE**

APPROVED BY: M PAULSEN 20-AUG-15 **PROJECTION**



TOP VIEW
MOUNTING HOLE LOCATIONS
FOR ANCHORING BRACKETS

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. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
- △4. FIXATION OF ANCHORING BRACKETS IN FRONT IS OPTIONAL IN NON-SEISMIC LOCATIONS. FOR SEISMIC COMPLIANCE USE CODE COMPLIANT FASTENERS TO SECURE UNIT TO THE FLOOR.
- △5. USE THE BAYING BRACKET THAT WAS ATTACHED TO THE REAR PALLET OF I/O CABINET FOR ANCHORING THE UNIT.
6. IN AREAS WHERE SEISMIC PROTECTION IS REQUIRED, FOLLOW THE INSTRUCTIONS IN GVM65KANCHORING-SA DRAWING.
7. FOR INSTALLATION ON RAISED FLOOR, FOLLOW THE INSTRUCTIONS IN GVM65KANCHORING-RF DRAWING.
8. FLOOR ANCHORING BOLTS ARE NOT SUPPLIED.
- △9. REAR BAYING BRACKET MUST BE BOLTED TO THE FLOOR.

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Schneider Electric

TITLE: Galaxy VM
Input: 480V AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160KVA
1 MODULE UPS WITH MODULAR BATTERY CABINETS
SOLUTION-ANCHORING DETAILS

PROJECT: DRAWINGS **SHEET** 6 OF 18

DWG NO: GVM160KG65MODB10C1

DRAWN BY: K.NAGENDRA 20-AUG-15

ENGINEER: C ANDERSEN/Y DU 20-AUG-15

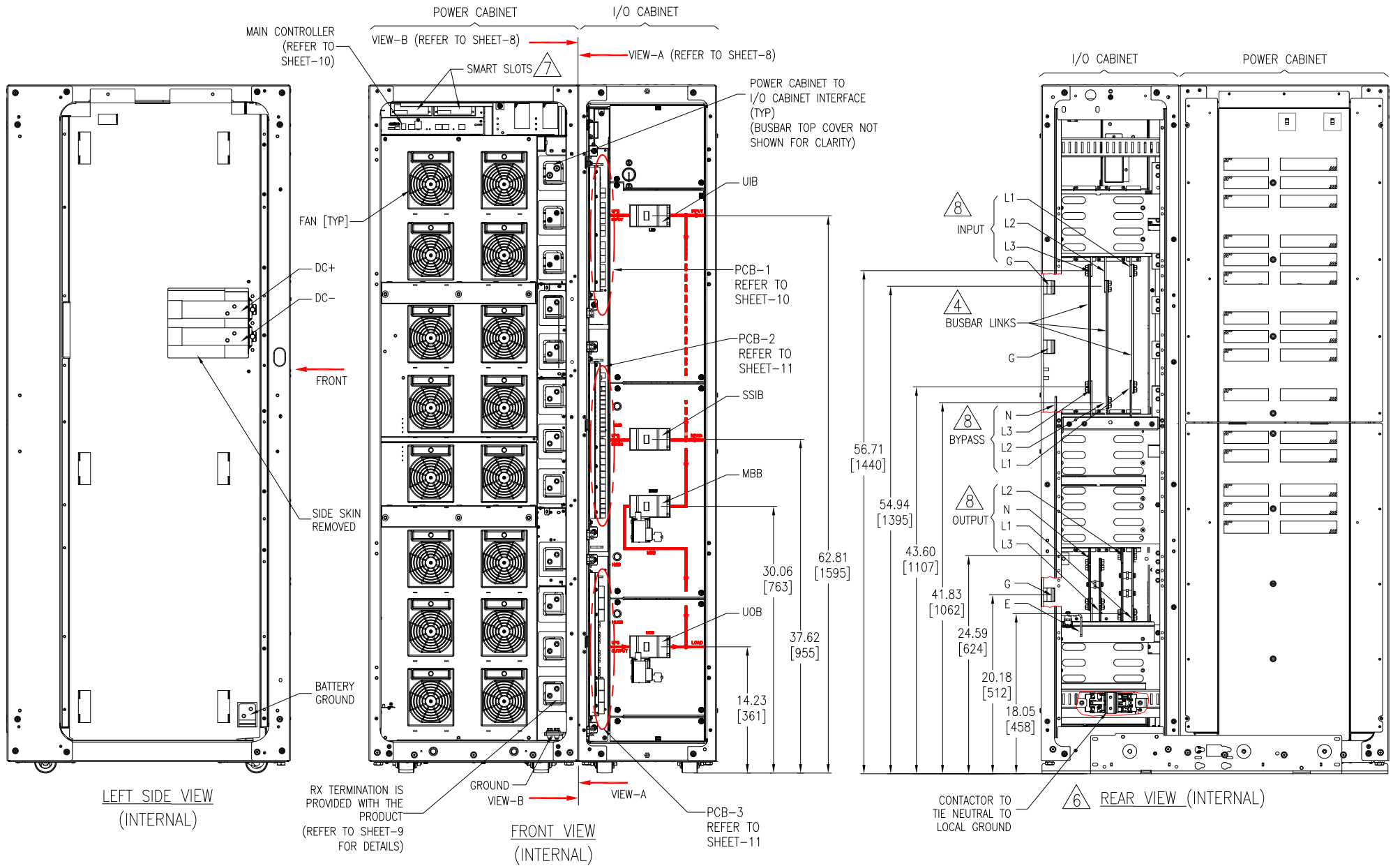
APPROVED BY: M PAULSEN 20-AUG-15

REV. 0

THIRD

ANGLE

PROJECTION



- 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. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
 - △4. BUSBAR LINKS ARE APPLICABLE FOR SINGLE MAINS SYSTEM ONLY. (REMOVE FOR DUAL MAINS)
 5. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.
 - △6. FRONT SERVICE ACCESS ONLY.
NO REAR ACCESS REQUIRED FOR SERVICE.
 - △7. NETWORK MANAGEMENT CARD IS OPTIONAL AND TO BE ORDERED SEPARATELY. THE RECOMMENDED NETWORK MANAGEMENT CARDS ARE: AP9630/AP9631/AP9635.
 - △8. FOR BUSBAR DETAILS REFER TO SHEET-9.
 9. THE TOGGLE LOCK FOR THE BREAKERS (I/O CABINET) CAN BE OPENED OR CLOSED AND CAN NOT BE REMOVED.

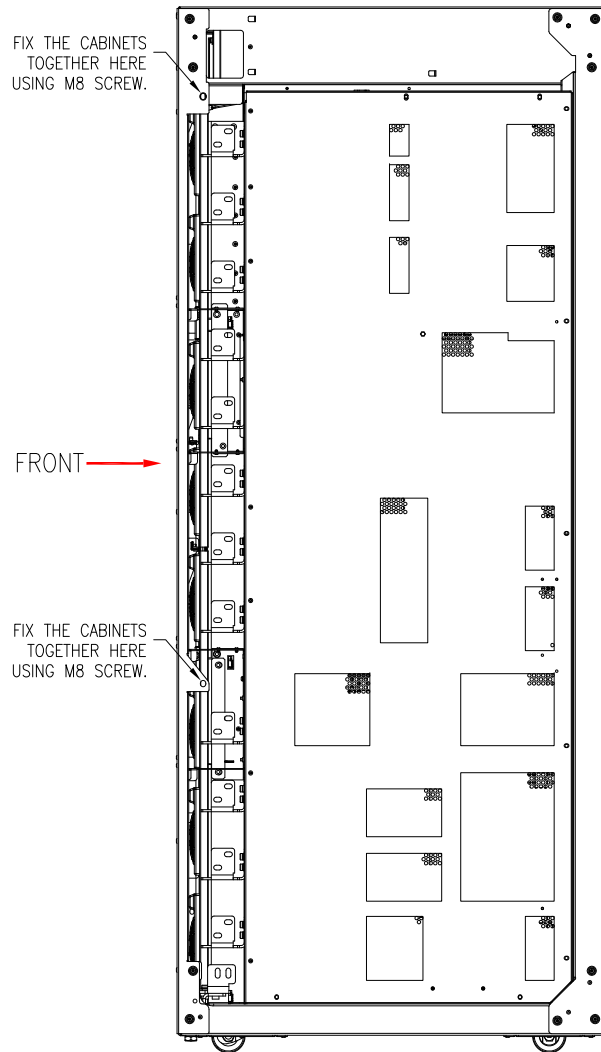
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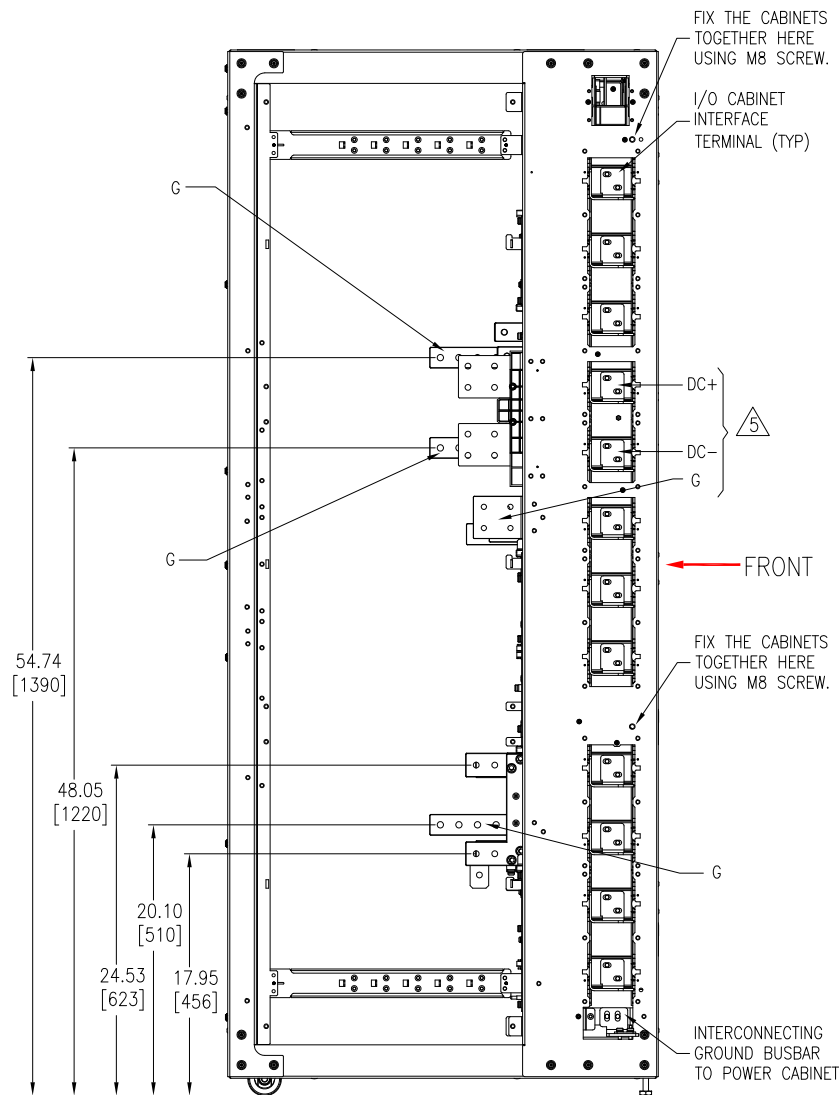
TITLE: Galaxy VM
Input: 480V AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160KVA
1 MODULE UPS WITH MODULAR BATTERY CABINETS
UPS INTERNAL VIEWS-1

PROJECT: DRAWINGS **SHEET** 7 OF 18

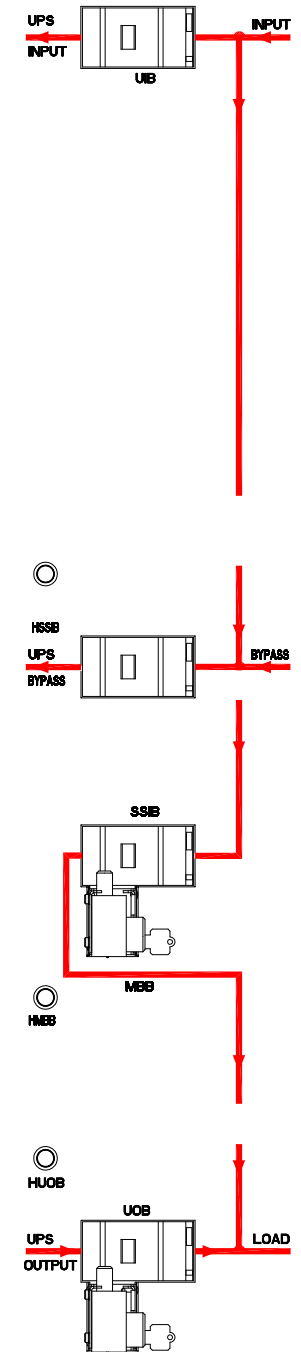
DWG NO: GVM160KG65MODB10C1	REV: 0
DRAWN BY: K.NAGENDRA	20-AUG-15
ENGINEER: C ANDERSEN/Y DU	20-AUG-15
APPROVED BY: M PAULSEN	20-AUG-15
THIRD ANGLE PROJECTION	



VIEW-A
POWER CABINET



VIEW-B
INPUT/OUTPUT FRAME



FLOW DIAGRAM

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. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.
- △5. USED FOR SYSTEMS WITH REMOTE BATTERIES OR BATTERY BREAKER ENCLOSURE ONLY.

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Schneider
Electric

TITLE: Galaxy VM
Input: 480V AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160KVA
1 MODULE UPS WITH MODULAR BATTERY CABINETS
UPS INTERNAL VIEWS-2

PROJECT: DRAWINGS SHEET 8 OF 18

DWG NO: GVM160KG65MODB10C1

DRAWN BY: K.NAGENDRA 20-AUG-15

ENGINEER: C ANDERSEN/Y DU 20-AUG-15

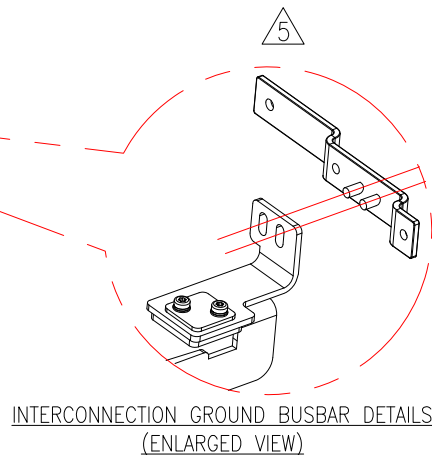
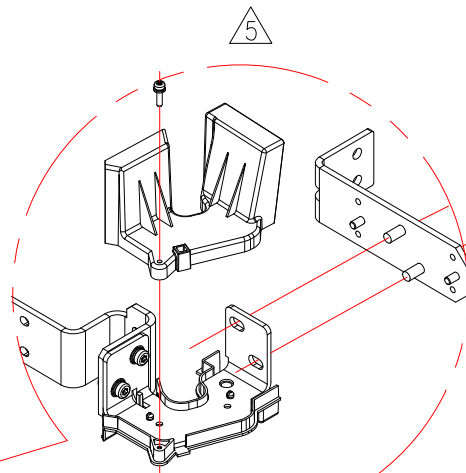
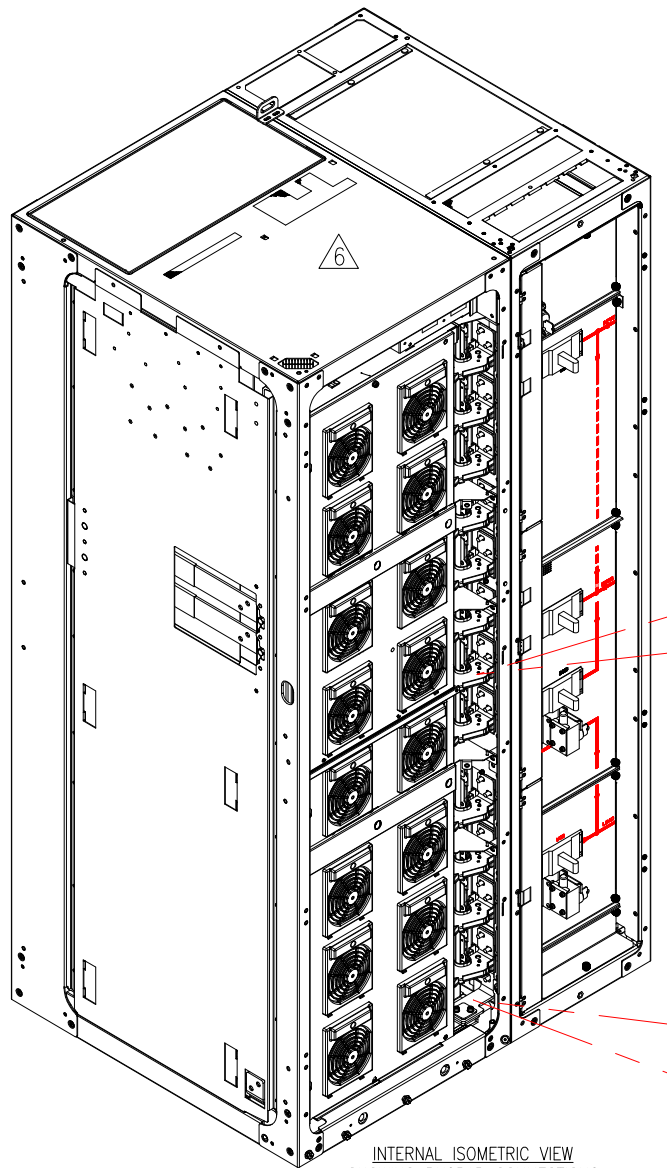
APPROVED BY: M PAULSEN 20-AUG-15

REV. 0

THIRD

ANGLE

PROJECTION



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. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.

△5. ALL THE INTERFACE PARTS ARE SUPPLIED WITH THE UNIT.

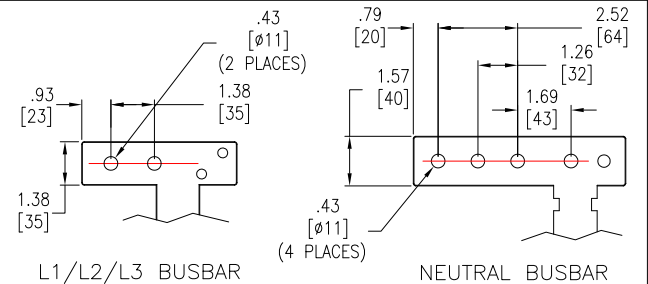
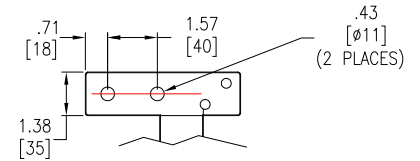
△6. SCHNEIDER ELECTRIC RECOMMENDS:

- THAT THE POWER CABINET IS TO BE INSTALLED AS LATE AS POSSIBLE TO AVOID CONSTRUCTION DEBRIS AND DUST ACCUMULATING INSIDE IT.
- THAT THE ROOM IS TO BE PROPERLY CLEANED AFTER THE COMPLETION OF CONSTRUCTION WORK AND BEFORE THE POWER CABINET IS INSTALLED.
- VACUUM CLEANING OF THE I/O CABINET AFTER CABLE INSTALLATION.

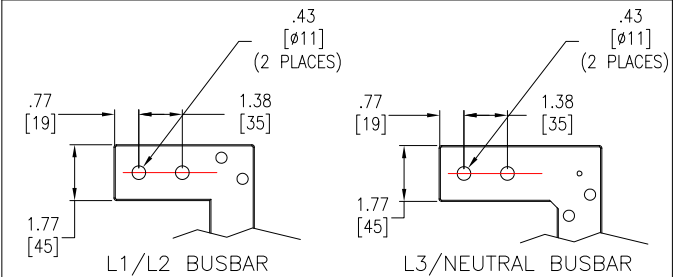
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Schneider
Electric

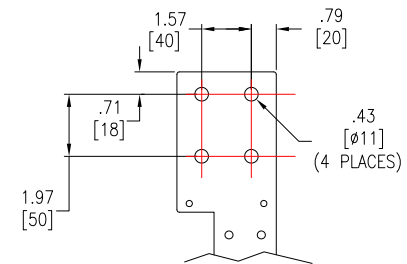
BUSBAR DETAILS



BYPASS INPUT/NEUTRAL CONNECTION BUSBAR— 5 [0.20] Thick



OUTPUT/LOAD CONNECTION BUSBAR— 5 [0.20] Thick

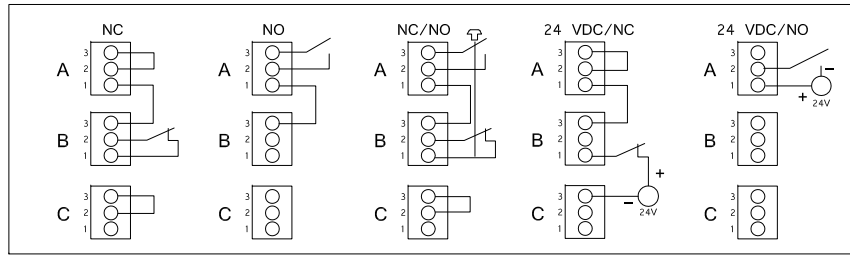


TITLE: Galaxy VM
Input: 480V AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160kVA
1 MODULE UPS WITH MODULAR BATTERY CABINETS
UPS INTERCONNECTION BUSBAR DETAILS
PROJECT: DRAWINGS SHEET 9 OF 18

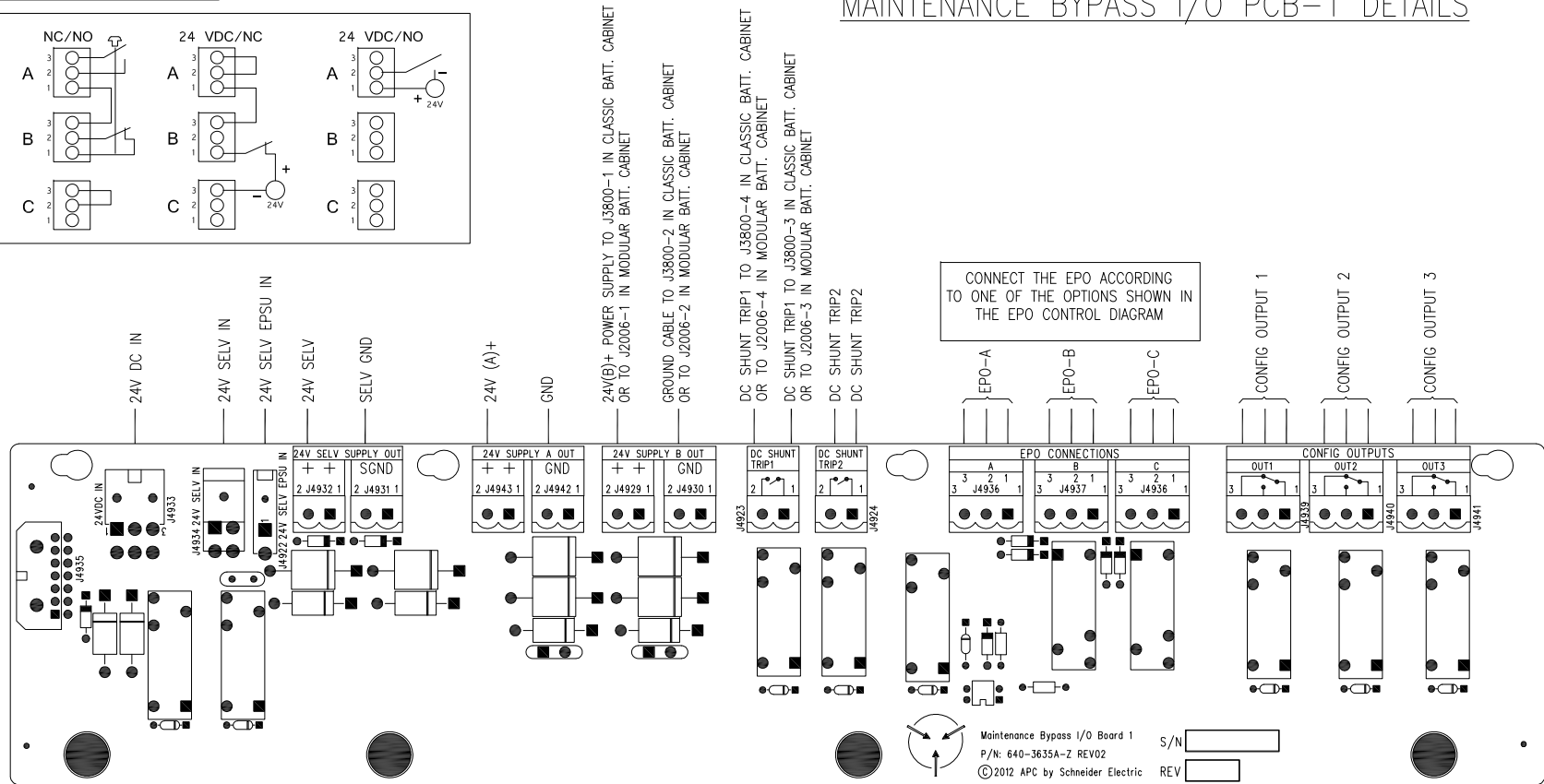
DWG NO: GVM160KG65MODB10C1
DRAWN BY: K.NAGENDRA
ENGINEER: C ANDERSEN/Y DU
APPROVED BY: M PAULSEN

REV. 0
20-AUG-15
20-AUG-15
THIRD
ANGLE
PROJECTION

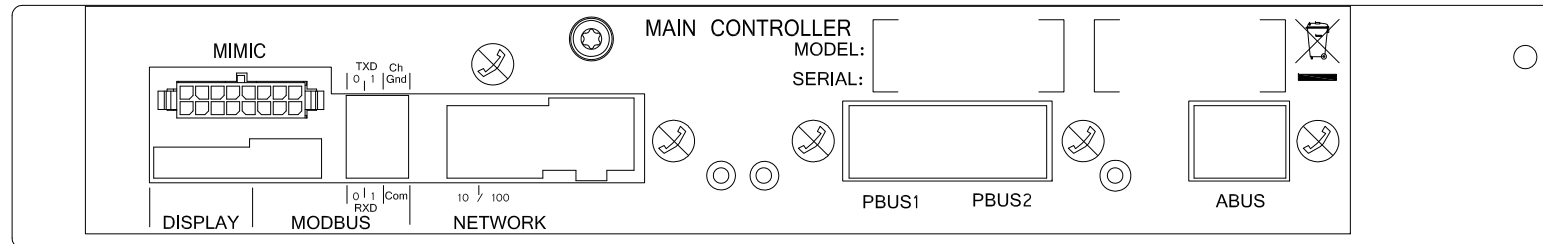
EPO CONTROL DIAGRAM



MAINTENANCE BYPASS I/O PCB-1 DETAILS



MAIN CONTROLLER



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
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Schneider Electric

TITLE: Galaxy VM
Input: 480V AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160KVA
1 MODULE UPS WITH MODULAR BATTERY CABINETS
UPS I/O PCB-1 & MAIN CONTROLLER

PROJECT: DRAWINGS SHEET 10 OF 18

DWG NO: GVM160KG65MODB10C1

DRAWN BY: K.NAGENDRA 20-AUG-15

ENGINEER: C ANDERSEN/Y DU 20-AUG-15

APPROVED BY: M PAULSEN 20-AUG-15

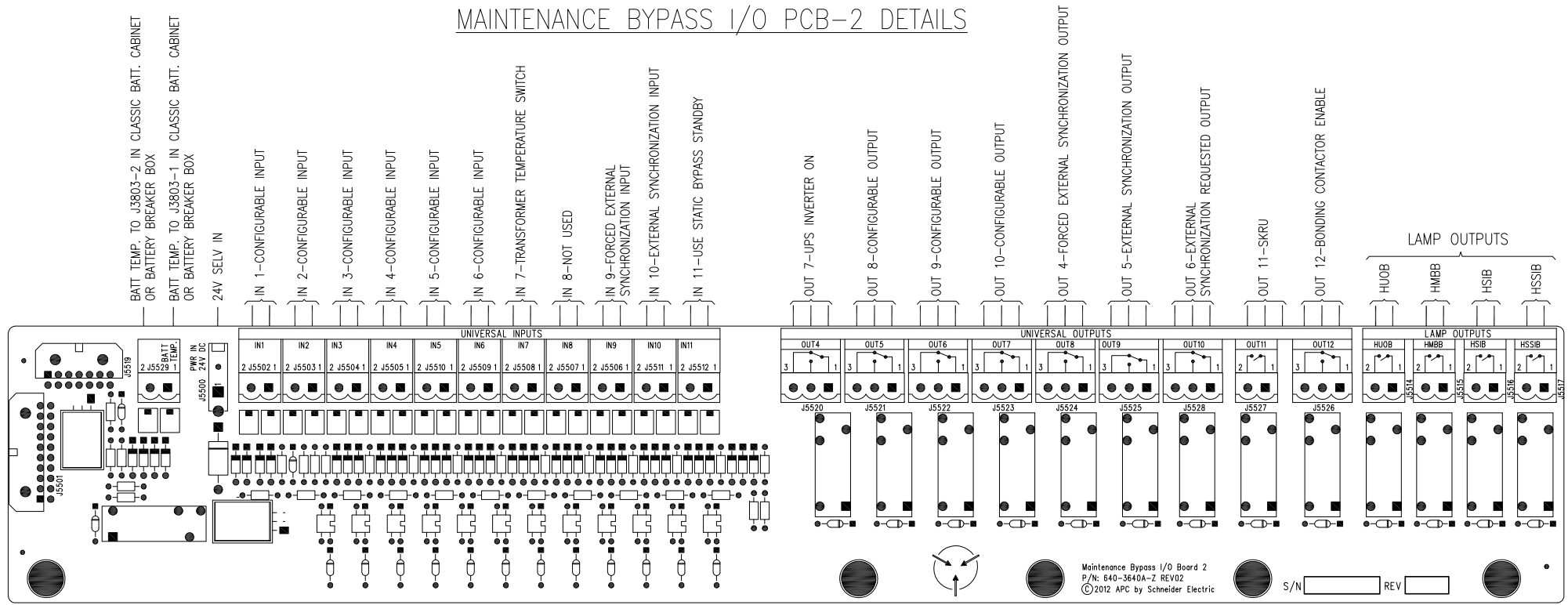
REV: 0

ANGLE

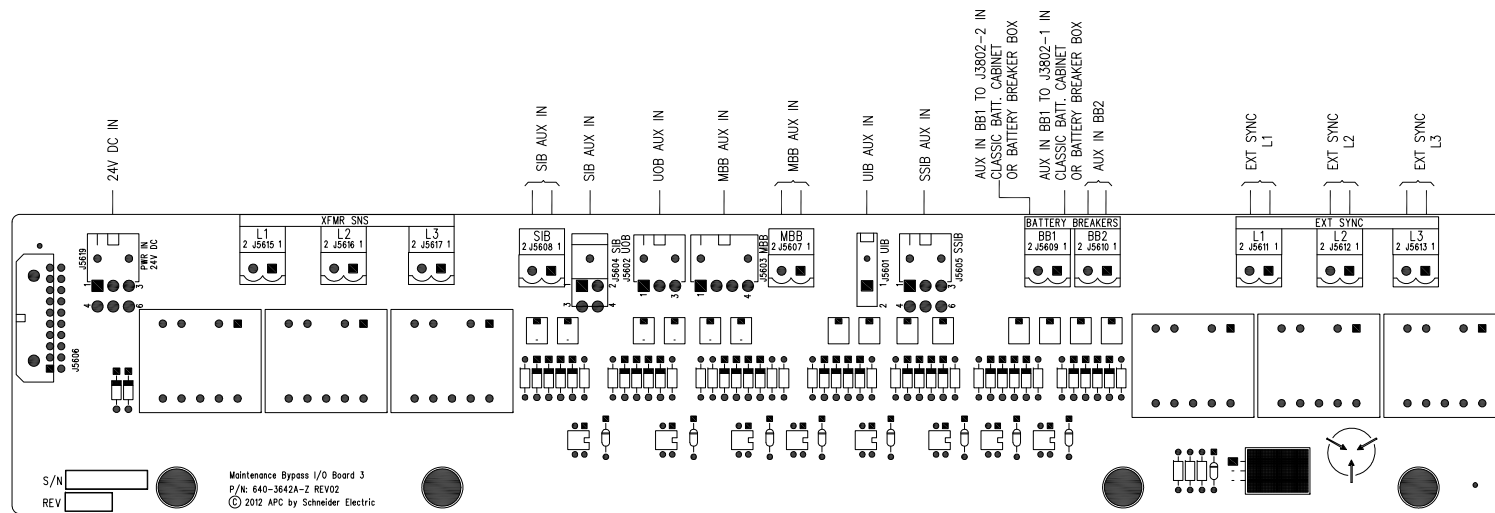
PROJECTION

N.A

MAINTENANCE BYPASS I/O PCB-2 DETAILS



MAINTENANCE BYPASS I/O PCB-3 DETAILS



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
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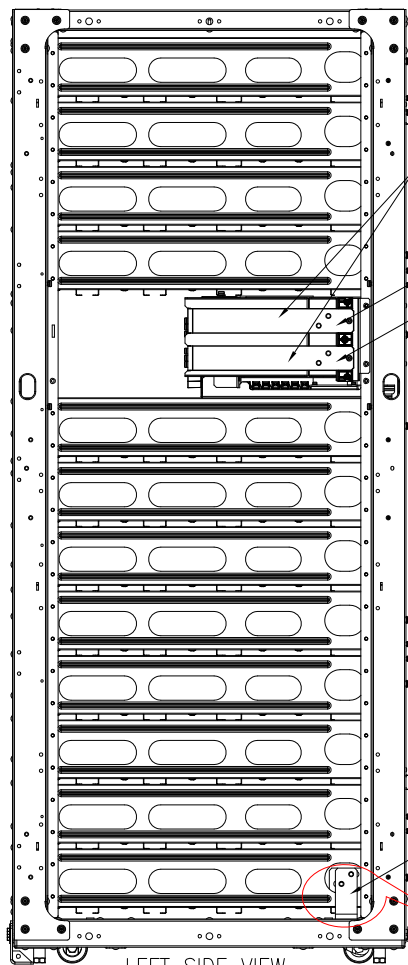
Schneider Electric

TITLE: Galaxy VM
Input: 480V AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160KVA
1 MODULE UPS WITH MODULAR BATTERY CABINETS
UPS MBP I/O BOARDS-2 & 3

PROJECT: DRAWINGS **SHEET:** 11 OF 18

DWG NO: GVM160KG65MODB10C1 **REV:** 0

DRAWN BY: K.NAGENDRA	20-AUG-15	ANGLE
ENGINEER: C ANDERSEN/Y DU	20-AUG-15	PROJECTION
APPROVED BY: M PAULSEN	20-AUG-15	N.A



LEFT SIDE VIEW
(WITHOUT DOORS)

INTERCONNECTION
BUSBARS FOR
ADJACENT MODULAR
BATTERY CABINETS

DC+

DC-

FRONT

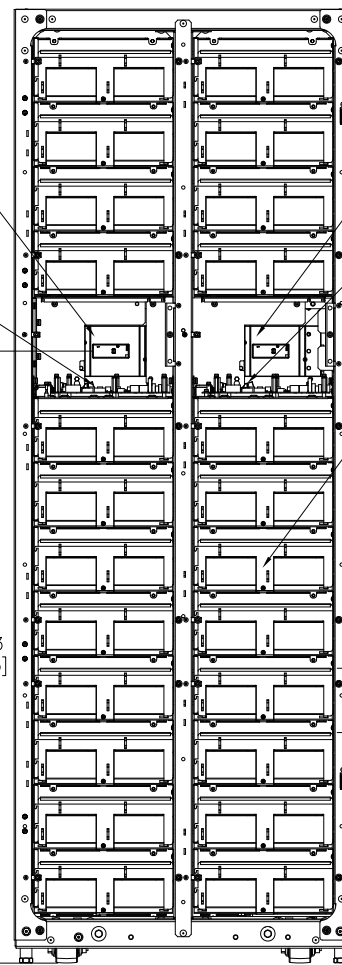
PE

REFER TO VIEW-A
(ENLARGED)

BATTERY MONITOR
CONTROLLER-1
(REFER TO SHEET-13)

BB
DC BREAKER
250A

49.73
[1263]



FRONT VIEW

BB
DC BREAKER
250A

BATTERY MONITOR
CONTROLLER-2
(REFER TO
SHEET-13)

4
TYPICAL BATTERY MTG.
AREA

5.24
[133]
TYP

INTERCONNECTION
BUSBARS

3.03
[77]

.79
[20]
TYP

FRONT

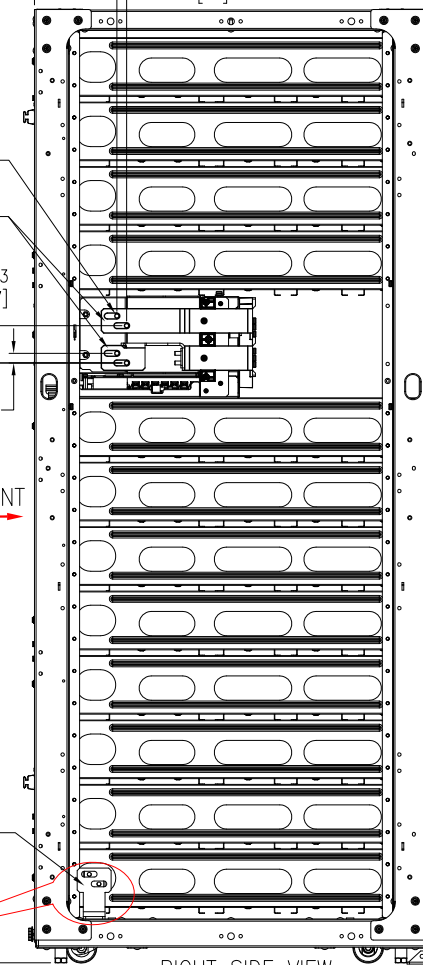
48.75
[1238]

PE

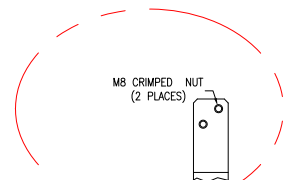
REFER TO VIEW-B
(ENLARGED)

6.69
[170]

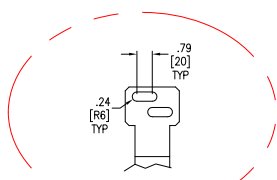
.79
[20]



RIGHT SIDE VIEW
(WITHOUT DOORS)



VIEW-A
(ENLARGED)

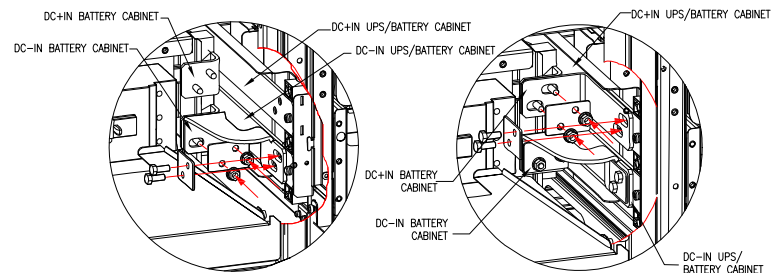


VIEW-B
(ENLARGED)

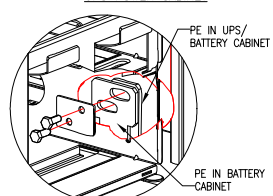
NOTES:

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2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. MODULAR BATTERY (GVMMBTU) NOT PART OF THE SKU (GVMMODBCWS), SHOWN FOR ILLUSTRATION PURPOSE ONLY.
5. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.

DC BUSBARS INTERCONNECTION BETWEEN TWO MODULAR BATTERY CABINETS/ BETWEEN MODULAR BATTERY CABINET AND UPS POWER CABINET



PE BUSBARS INTERCONNECTION BETWEEN TWO MODULAR BATTERY CABINETS/ BETWEEN MODULAR BATTERY CABINET AND UPS POWER CABINET

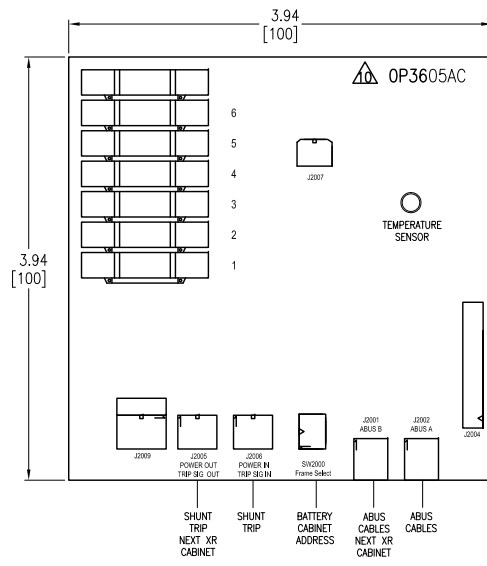


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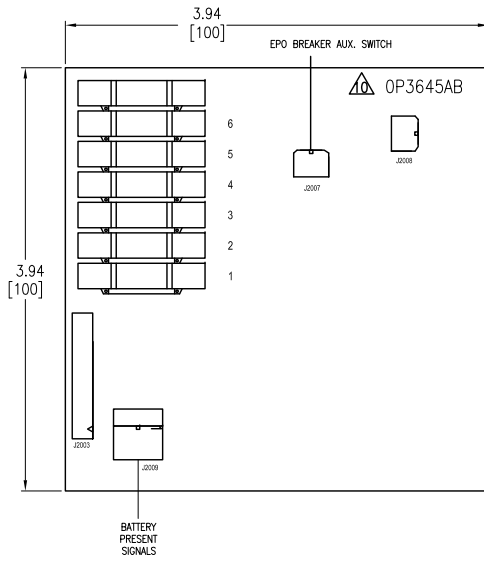
Schneider
Electric

TITLE: Galaxy VM
Input: 480V AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160KVA
1 MODULE UPS WITH MODULAR BATTERY CABINETS
WIDE BATTERY CABINET INTERNAL VIEW
PROJECT: DRAWINGS **SHEET** 12 OF 18

DWG NO: GVM160KG65MODB10C1 **REV.** 0
DRAWN BY: K.NAGENDRA 20-AUG-15 **THIRD**
ENGINEER: C ANDERSEN/Y DU 20-AUG-15 **ANGLE**
APPROVED BY: M PAULSEN 20-AUG-15 **PROJECTION**



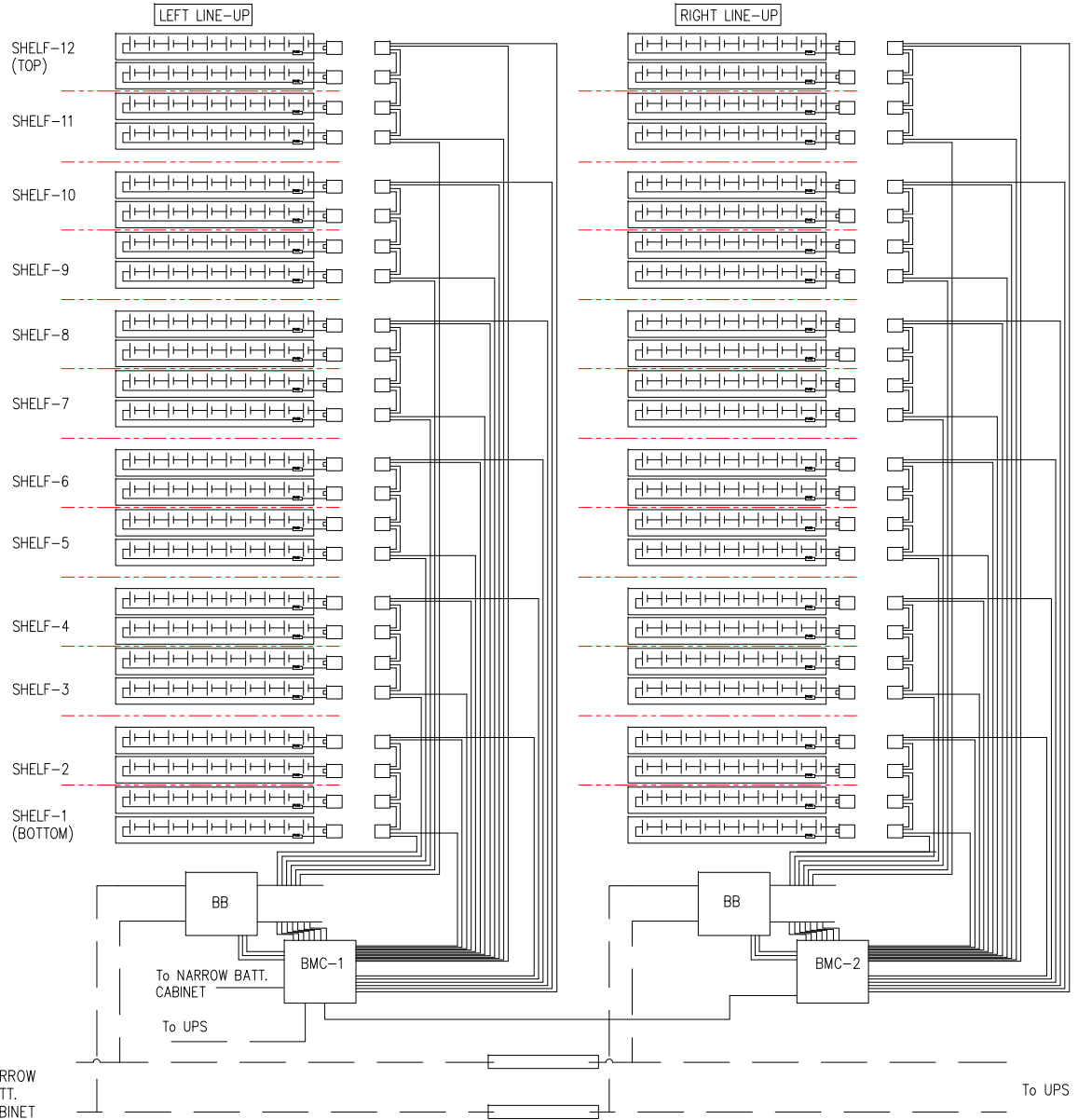
BATTERY MONITOR CONTROLLER-1



BATTERY MONITOR CONTROLLER-2

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. ALL DIMENSIONS ARE IN INCHES [MILLIMETER].
4. BATTERY CABLING DIAGRAM SHOWN IS TYPICAL.
5. CABLES ARE PROVIDED BY SCHNEIDER ELECTRIC.
6. CABLES IN CONTINUOUS LINE WILL BE CONNECTED IN FACTORY.
7. CABLES IN DASHED LINES (-----) WILL BE CONNECTED BY SERVICE ENGINEERS ON SITE.
8. EARTHING IS ESSENTIAL BEFORE STARTUP.
9. BATTERIES (GVMMBTU) SHOWN ARE OPTIONAL AND NOT PART OF SKU# GVMMODBCWS.
10. FOR LATEST VERSION OF THE BOARD/S CONTACT SCHNEIDER ELECTRIC.

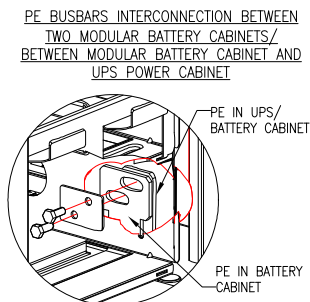
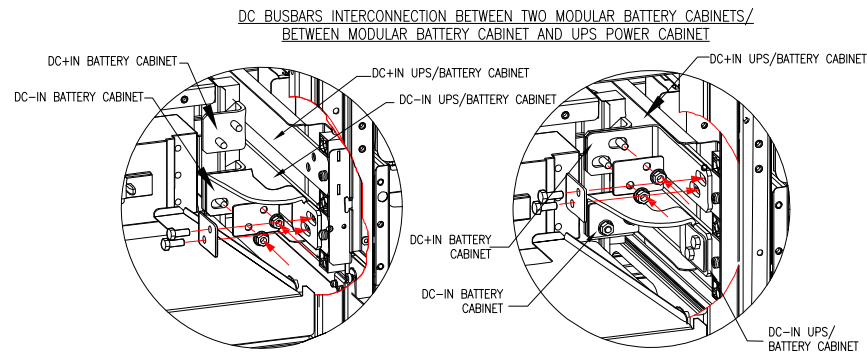
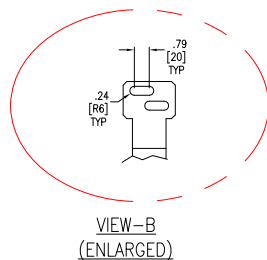
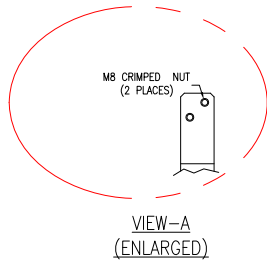
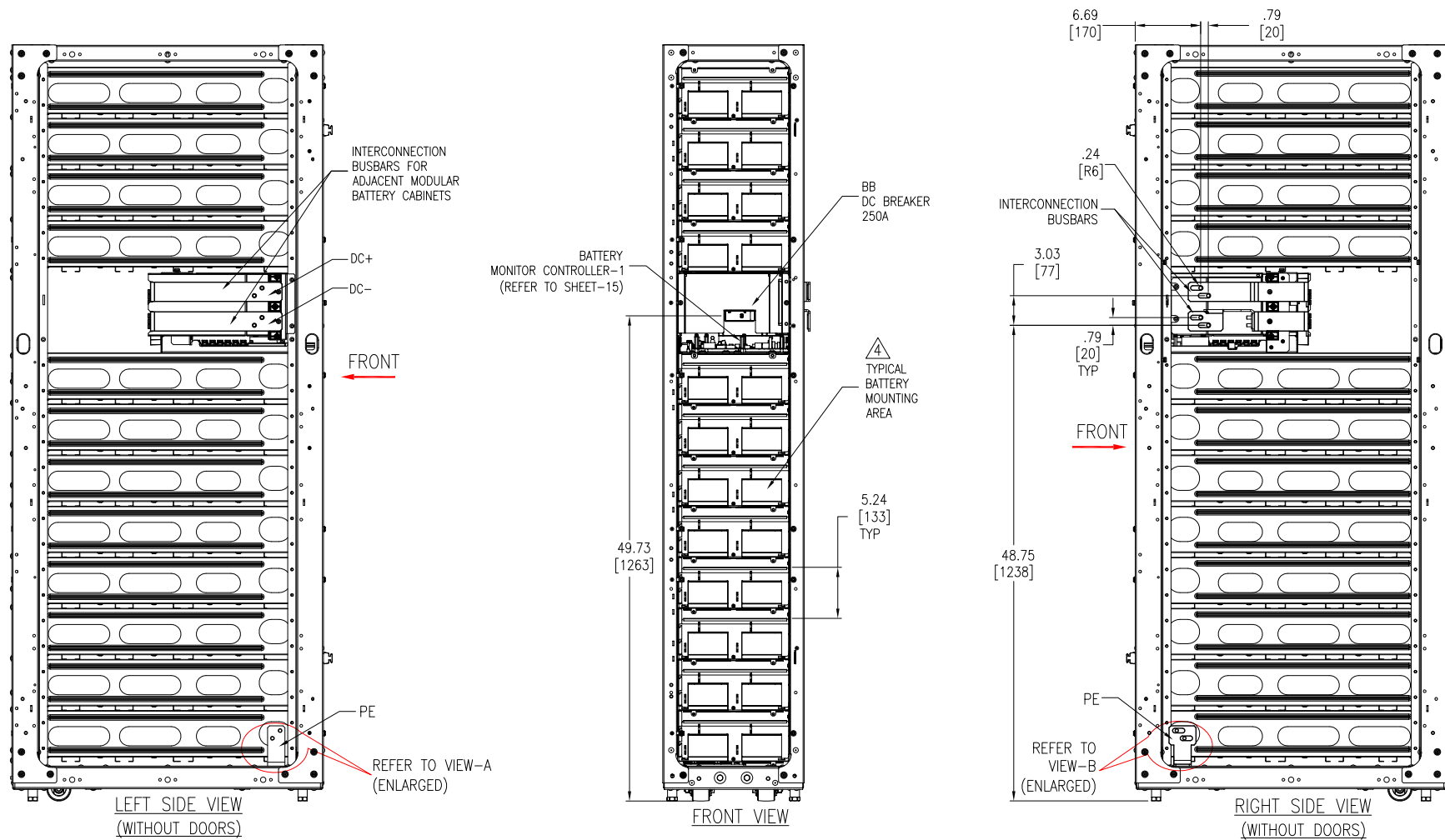


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Schneider Electric

TITLE: Galaxy VM
Input: 480V AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160KVA
1 MODULE UPS W/ 10min RUNTIME MOD RUNTIME BATT CAB
WIDE BATTERY CABINET-CABLING & PCB
PROJECT: DRAWINGS **SHEET** 13 OF 18

DWG NO: GVM160KG65MODB10C1 **REV.** 0
DRAWN BY: K.NAGENDRA 20-AUG-15 **ANGLE**
ENGINEER: C ANDERSEN/Y DU 20-AUG-15 **PROJECTION**
APPROVED BY: M PAULSEN 20-AUG-15 **N.A.**



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. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
- △ 4. MODULAR BATTERY (GVMMBTU) NOT PART OF THE SKU (GVMMDCNS), SHOWN FOR ILLUSTRATION PURPOSE ONLY.
5. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.

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.

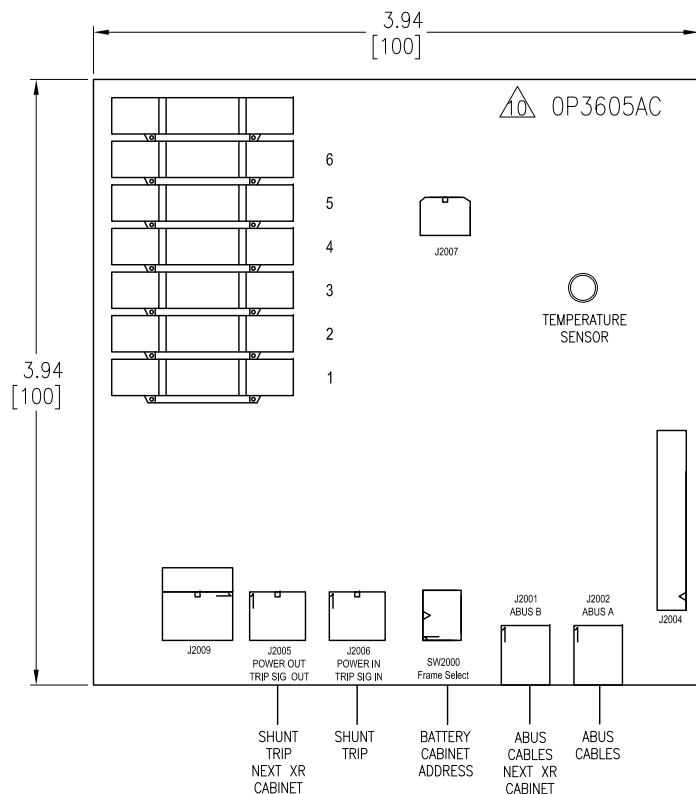
Schneider Electric

TITLE: Galaxy VM
Input: 480V AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160KVA
1 MODULE UPS w/ 10min RUNTIME MOD RUNTIME BATT CAB
NARROW BATTERY CABINET-INTERNAL VIEW

PROJECT: DRAWINGS **SHEET** 14 OF 18

DWG NO: GVM160KG65MODB10C1 **REV.** 0

DRAWN BY: K.NAGENDRA	20-AUG-15	THIRD
ENGINEER: C ANDERSEN/Y DU	20-AUG-15	ANGLE
APPROVED BY: M PAULSEN	20-AUG-15	PROJECTION

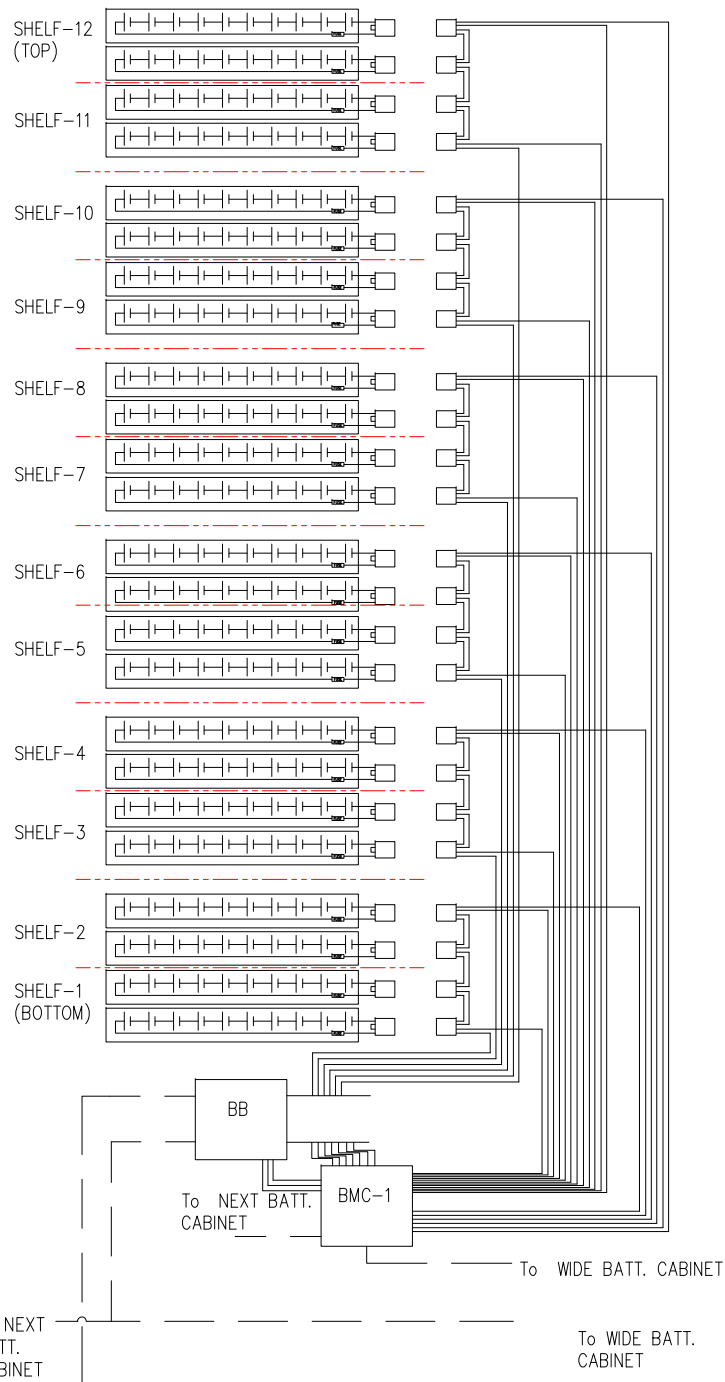


BATTERY MONITOR CONTROLLER

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. ALL DIMENSIONS ARE IN INCHES [MILLIMETER].
 4. BATTERY CABLING DIAGRAM SHOWN IS TYPICAL.
 5. CABLES ARE PROVIDED BY SCHNEIDER ELECTRIC.
 6. CABLES IN CONTINUOUS LINE WILL BE CONNECTED IN FACTORY.
 7. CABLES IN DASHED LINES (-----) WILL BE CONNECTED BY SERVICE ENGINEERS ON SITE.
 8. EARTHING IS ESSENTIAL BEFORE STARTUP.
 9. BATTERIES (GVMMBTU) SHOWN ARE OPTIONAL AND NOT PART OF SKU# GVMMODBCNS.
- Δ10. FOR LATEST VERSION OF THE BOARD/S CONTACT SCHNEIDER ELECTRIC

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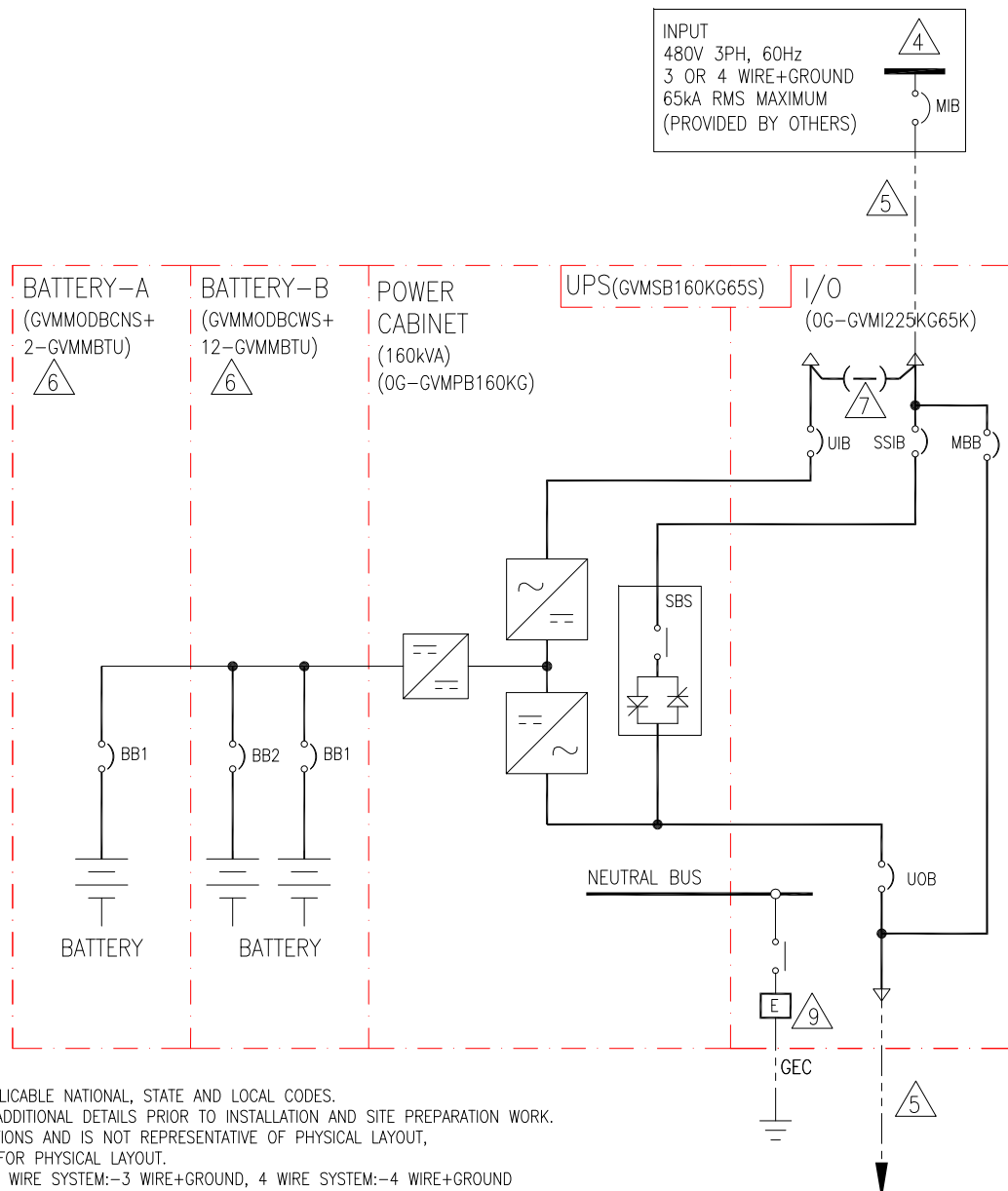


Schneider Electric

TITLE: Galaxy VM
Input: 480V AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160KVA
1 MODULE UPS W/ 10min RUNTIME MOD RUNTIME BATT CAB
NARROW BATTERY CABINET-CABLING & PCB
PROJECT: DRAWINGS **SHEET** 15 OF 18

DWG NO: GVM160KG65MODB10C1
DRAWN BY: K.NAGENDRA
ENGINEER: C ANDERSEN/Y DU
APPROVED BY: M PAULSEN

REV. 0
ANGLE PROJECTION
REV. N.A



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. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
- △4. INPUT AC SOURCE TO BE 480V AC 3PH, 3 WIRE SYSTEM:-3 WIRE+GROUND, 4 WIRE SYSTEM:-4 WIRE+GROUND
- △5. AC CABLING TO BE 600V RATED, 3 OR 4 WIRE+GROUND, PROVIDED BY OTHERS.
- △6. BATTERIES (GVMMBTU) ARE OPTIONAL AND NOT PART OF SKU GVMMODBCW/GVMMODBCN. BATTERY RUNTIME IS THEORETICAL AND CALCULATED BASED ON DATA PROVIDED BY BATTERY MANUFACTURER ASSUMING OPTIMUM ENVIRONMENT AND LOAD CONDITIONS.
- △7. BUSBAR LINKS APPLICABLE FOR SINGLE MAINS ONLY. SHOULD BE REMOVED FOR DUAL MAINS SYSTEMS.
8. LUGS ARE NOT PROVIDED. SEE MECHANICAL SUBMITTAL PACKAGE AND INSTALLATION MANUAL FOR ADDITIONAL TERMINATION DETAILS.
- △9. A GROUND BONDING JUMPER MUST BE CONNECTED TO THE "E" TERMINAL.
GEC IS REQUIRED FOR 3 WIRE INPUT/OUTPUT ONLY.
10. OUTPUT GROUND FAULT DETECTION IS NOT PROVIDED FOR UNDERGROUND OR HRG INSTALLATION. CONTACT Schneider Electric FOR ASSISTANCE.

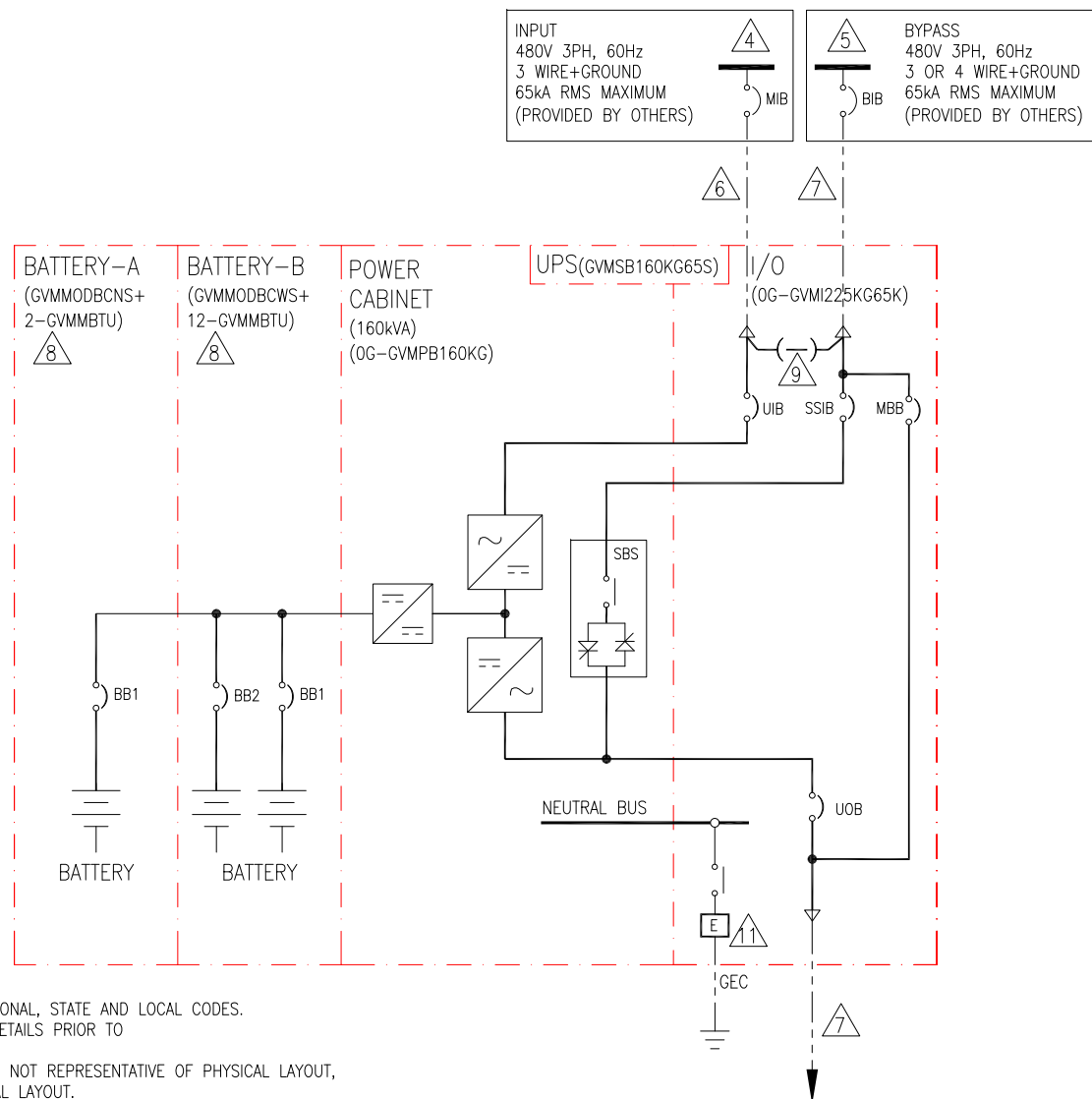
DEVICE RATING				
UPS - INPUT/OUTPUT CABINET				
DEVICE	RATING	TYPE	MAKE	MODEL
UIB/ SSIB/ MBB / UOB	400A, 600V AC	4 POLE MCCB	SCHNEIDER ELECTRIC	LJF46400CU31X
BATTERY CABINET				
BB1/ BB2	250A, 500V DC	3 POLE MCCB	SCHNEIDER ELECTRIC	JDF36250

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Schneider Electric

TITLE: GALAXY VM
Input: 480 AC 3PH SINGLE MAINS
Output: 480V AC 3PH 160kVA
1 MODULE UPS WITH MODULAR BATTERY CABINETS
SYSTEM ONE LINE DIAGRAM
PROJECT: DRAWINGS **SHEET** 16 OF 18

DWG NO: GVM160KG65MODB10C1 **REV.** 1
DRAWN BY: K.NAGENDRA/BALA 12-OCT-17 **ANGLE**
ENGINEER: M P/W Z/T A/A H 12-OCT-17 **PROJECTION**
APPROVED BY: N BOBBITT 12-OCT-17 **N.A**



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. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
- △4. INPUT AC SOURCE TO BE 480V AC 3PH, 3 WIRE+GROUND (CONTACT Schneider Electric IF OTHER).
- △5. BYPASS AC SOURCE TO BE COMMON 480V AC 3PH, 3 WIRE SYSTEM: 3 WIRE+GROUND, 4 WIRE SYSTEM: 4 WIRE+GROUND. THE BYPASS CONFIGURATION MUST MATCH OUTPUT CONFIGURATION.
- △6. AC CABLING TO BE 600V RATED, 3 WIRE+GROUND, PROVIDED BY OTHERS.
- △7. AC CABLING TO BE 600V RATED, 3 OR 4 WIRE+GROUND, PROVIDED BY OTHERS.
- △8. BATTERIES (GVMMBTU) ARE OPTIONAL AND NOT PART OF SKU GVMMODBCW/GVMMODBCN. BATTERY RUNTIME IS THEORETICAL AND CALCULATED BASED ON DATA PROVIDED BY BATTERY MANUFACTURER ASSUMING OPTIMUM ENVIRONMENT AND LOAD CONDITIONS.
- △9. BUSBAR LINKS APPLICABLE FOR SINGLE MAINS ONLY. SHOULD BE REMOVED FOR DUAL MAINS SYSTEMS.
10. LUGS ARE NOT PROVIDED. SEE MECHANICAL SUBMITTAL PACKAGE AND INSTALLATION MANUAL FOR ADDITIONAL TERMINATION DETAILS.
- △11. A GROUND BONDING JUMPER MUST BE CONNECTED TO THE "E" TERMINAL.
GEC IS REQUIRED FOR 3 WIRE INPUT/OUTPUT ONLY.
12. OUTPUT GROUND FAULT DETECTION IS NOT PROVIDED FOR UNDERGROUND OR HRG INSTALLATION. CONTACT Schneider Electric FOR ASSISTANCE.

DEVICE RATING				
UPS - INPUT/OUTPUT CABINET				
DEVICE	RATING	TYPE	MAKE	MODEL
UIB/ SSIB/ MBB / UOB	400A, 600V AC	4 POLE MCCB	SCHNEIDER ELECTRIC	LJF46400CU31X
BATTERY CABINET				
BB1/ BB2	250A, 500V DC	3 POLE MCCB	SCHNEIDER ELECTRIC	JDF36250

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Schneider Electric

TITLE: GALAXY VM
Input: 480 AC 3PH DUAL MAINS
Output: 480V AC 3PH 160kVA
1 MODULE UPS WITH MODULAR BATTERY CABINETS
SYSTEM ONE LINE DIAGRAM
PROJECT: DRAWINGS **SHEET** 17 OF 18

DWG NO: GVM160KG65MODB10C1 **REV.** 1
DRAWN BY: K.NAGENDRA/BALA 12-OCT-17 **ANGLE**
ENGINEER: M P/W Z/T A/A H 12-OCT-17 **PROJECTION**
APPROVED BY: N BOBBITT 12-OCT-17 **N.A.**

ELECTRICAL DATA SHEET-DUAL MAINS	
RATED POWER (kVA/kW)	160kVA / 144 kW
NOMINAL INPUT VOLTAGE (FREQUENCY) / BYPASS VOLTAGE (FREQUENCY)	480V (60Hz) / 480V (60Hz)
NOMINAL OUTPUT VOLTAGE (FREQUENCY)	480V (60Hz)
INPUT WIRING	WIRING : 3 WIRE-3PH+G
BYPASS WIRING	WIRING : 3WIRE-3PH+G OR 4WIRE- 3PH+N+G
UPS INPUT NOMINAL INPUT CURRENT (A)	181
MAXIMUM INPUT CURRENT (A)	218
INPUT CURRENT LIMITATION (A)	247
UPS BYPASS NOMINAL CURRENT (A)	192
OUTPUT WIRING	WIRING : 3WIRE-3PH+G OR 4WIRE- 3PH+N+G
NOMINAL OUTPUT CURRENT (FULL LOAD) (A)	192
MAXIMUM SHORT CIRCUIT WITHSTAND (kA) INPUT / BYPASS	lcw = 65 / lcw = 65
RECOMMENDED UPSTREAM INPUT BREAKERS 80% RATED / 100%RATED	400AF, 250AT / 400AF, 250AT
RECOMMENDED UPSTREAM BYPASS BREAKERS 80% RATED / 100%RATED	400AF, 200AT / 400AF, 200AT
RECOMMENDED DOWNSTREAM OUTPUT BREAKER 80% RATED / 100%RATED	400AF, 200AT / 400AF, 200AT
RECOMMENDED INPUT CABLE SIZE	(1) 250 kcmil
RECOMMENDED BYPASS CABLE SIZE	(1) 3/0 AWG
RECOMMENDED OUTPUT CABLE SIZE	(1) 3/0 AWG

ELECTRICAL DATA SHEET-SINGLE MAINS	
RATED POWER (kVA/kW)	160kVA / 144 kW
NOMINAL INPUT VOLTAGE (FREQUENCY)	480V (60Hz)
NOMINAL OUTPUT VOLTAGE (FREQUENCY)	480V (60Hz)
INPUT WIRING	WIRING : 3WIRE-3PH+G OR 4WIRE- 3PH+N+G
UPS INPUT NOMINAL INPUT CURRENT (A)	181
MAXIMUM INPUT CURRENT (A)	218
INPUT CURRENT LIMITATION (A)	247
OUTPUT WIRING	WIRING : 3WIRE-3PH+G OR 4WIRE- 3PH+N+G
NOMINAL OUTPUT CURRENT (FULL LOAD) (A)	192
MAXIMUM SHORT CIRCUIT WITHSTAND (kA) INPUT / BYPASS	lcw = 65 / lcw = 65
RECOMMENDED UPSTREAM INPUT BREAKER 80% RATED / 100%RATED	400AF, 250AT / 400AF, 250AT
RECOMMENDED DOWNSTREAM OUTPUT BREAKER 80% RATED / 100%RATED	400AF, 200AT / 400AF, 200AT
RECOMMENDED INPUT CABLE SIZE	(1) 250 kcmil
RECOMMENDED OUTPUT CABLE SIZE	(1) 3/0 AWG

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. CABLE AMPACITY IS BASED ON 75C TERMINATIONS @ 30C AMBIENT WITH 3 CURRENT CARRYING COPPER CONDUCTORS PER NFPA 70-2014 ART. 310.15 TABLE 310.15(B).
3. RECOMMENDED OCPDs' ARE ELECTRONIC TRIP. OCPD AND CABLING ARE PROVIDED BY OTHERS. SEE NOTE-4.
4. FINAL SELECTIONS ARE RESPONSIBILITY OF ENGINEER OF RECORD BASED ON INSTALLED CONDITIONS AND SCC/SELECTIVE CO-ORDINATION/ARC-FLASH ANALYSIS.

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TITLE: GALAXY VM
Input: 480 AC 3PH SINGLE/DUAL MAINS
Output: 480V AC 3PH 160kVA
1 MODULE UPS WITH MOD BATTERY CABINETS
ELECTRICAL DATA SHEET

PROJECT: DRAWINGS SHEET 18 OF 18

DWG NO: GVM160KG65MODB10C1

DRAWN BY: K.NAGENDRA/BALA 03-DEC-18

ENGINEER: W Z/TA 03-DEC-18

APPROVED BY: N.BOBBITT/ M W 03-DEC-18

REV. 2

ANGLE

PROJECTION

N.A