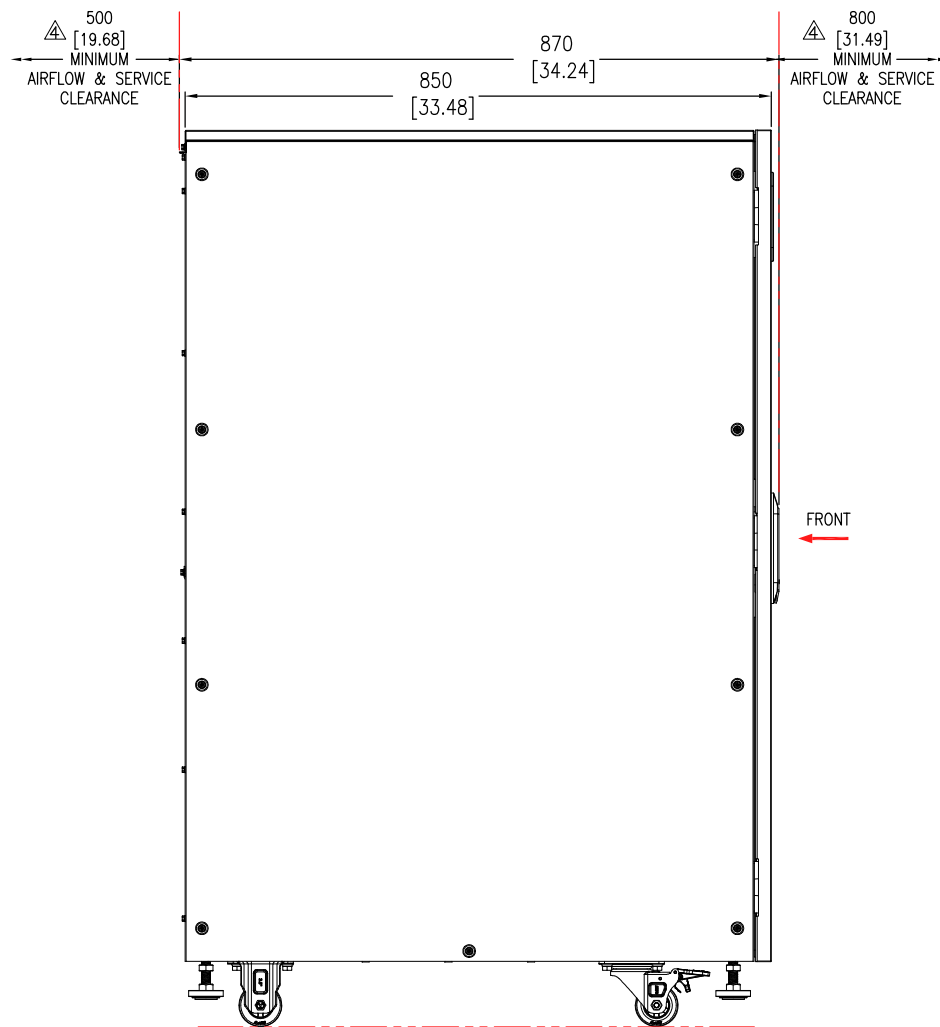


FRONT VIEW

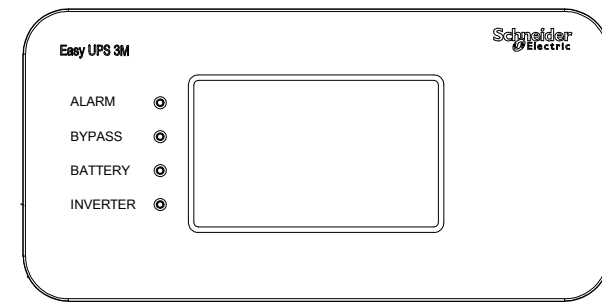


SIDE VIEW

NOTES:

- 1.INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL REGULATIONS.
- 2.REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- 3.ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
- 4.FRONT AND REAR CLEARANCE ARE FOR AIRFLOW AND SERVICE ACCESS, TOP CLEARANCE IS FOR SERVICE ACCESS ONLY.
CONSULT WITH THE LOCAL SAFETY CODES AND STANDARDS FOR ANY ADDITIONAL REQUIREMENTS OF LOCAL AREA.
- 5.COLOR: RAL 9003.
- 6.PROTECTION CLASS: IP20.
- 7.OPERATING TEMPERATURE: 0°C TO 40°C [32°F TO 104°F].

SKU Number	Net Weight in kg [lb]
E3MUPS120KH	193 [425.5]
E3MUPS160KH	227 [500.5]



USER INTERFACE (ENLARGED VIEW)

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Schneider
Electric

TITLE:
Schneider Electric Easy UPS 3M
120kVA/160kVA, 400V, 3PH
WITHOUT BATTERY MODULES
GENERAL ARRANGEMENT

PROJECT: SUBMITTAL DRAWINGS SHEET 1 OF 7

DWG NO: E3MUPS120K160H

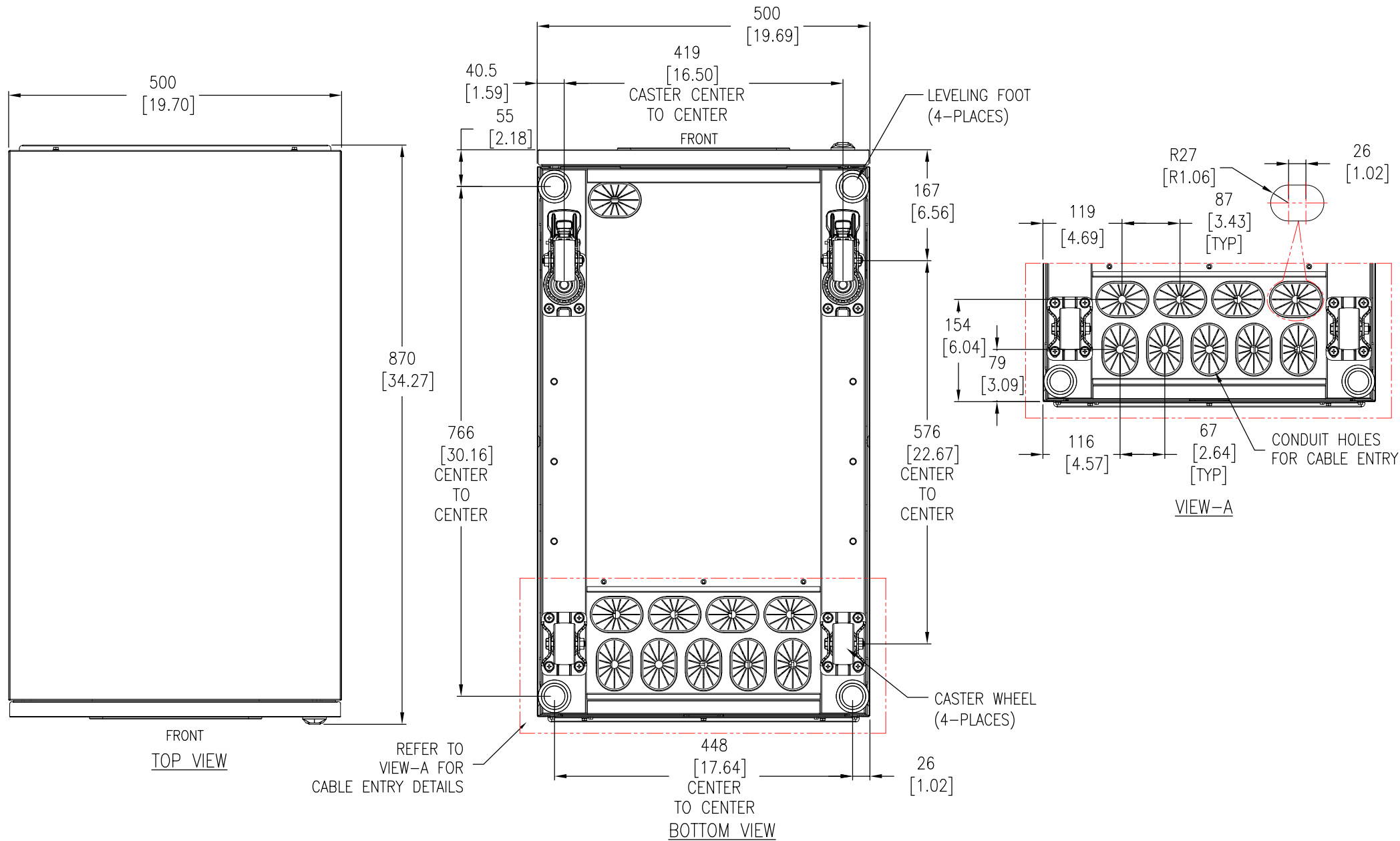
DRAWN: DIBYA/JAYAPRAKASH 10-JUN-24

ENGINEER: Compbell Bai 10-JUN-24

APPROVED: YaPing YANG 10-JUN-24

REV. 1

FIRST
ANGLE
PROJECTION



- NOTES:**
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL REGULATIONS.
 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
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Schneider Electric

TITLE:
Schneider Electric Easy UPS 3M
120kVA/160kVA, 400V, 3PH
WITHOUT BATTERY MODULES
TOP & BOTTOM VIEW

PROJECT: SUBMITTAL DRAWINGS SHEET 2 OF 7

DWG NO: E3MUPS120K160H

DRAWN: DIBYA/JAYAPRAKASH 10-JUN-24

ENGINEER: Campbell Bai 10-JUN-24

APPROVED: YaPing YANG 10-JUN-24

REV. 1

FIRST

ANGLE

PROJECTION

REFER TO VIEW-A
SHEET-4
FOR DETAILS

POWER
MODULES

POWER
MODULES

MAINTENANCE
BYPASS SWITCH

INPUT
STATIC SWITCH

UNIT OUTPUT
SWITCH

UNIT INPUT
SWITCH

520
[20.47]

320
[12.60]

129
[5.06]

210
[8.26]

FRONT VIEW - INTERNAL (120kVA)

FRONT VIEW - INTERNAL (160kVA)

REAR VIEW - 120/160kVA
(TERMINAL PROTECTIVE COVER REMOVED)

CONNECTION TERMINALS
REFER TO VIEW-C,
SHEET-4
(PROTECTIVE COVER
REMOVED)

586
[23.05]

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].

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**Schneider
Electric**

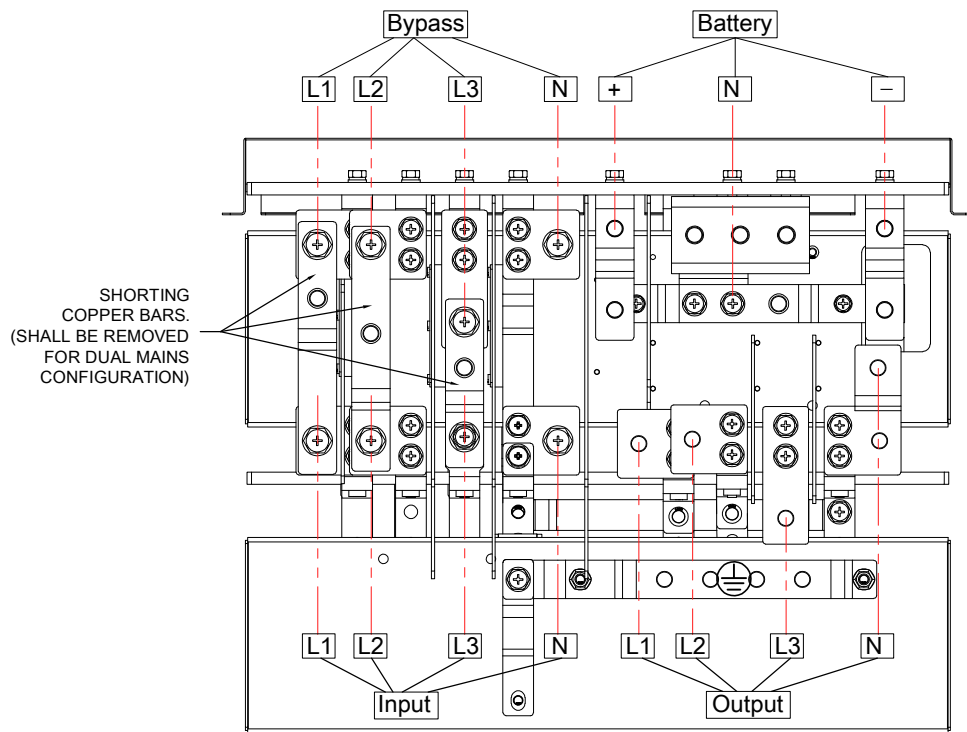
TITLE:
Schneider Electric Easy UPS 3M
120kVA/160kVA, 400V, 3PH
WITHOUT BATTERY MODULES
INTERNAL FRONT AND REAR VIEW

PROJECT: SUBMITTAL DRAWINGS SHEET 3 OF 7

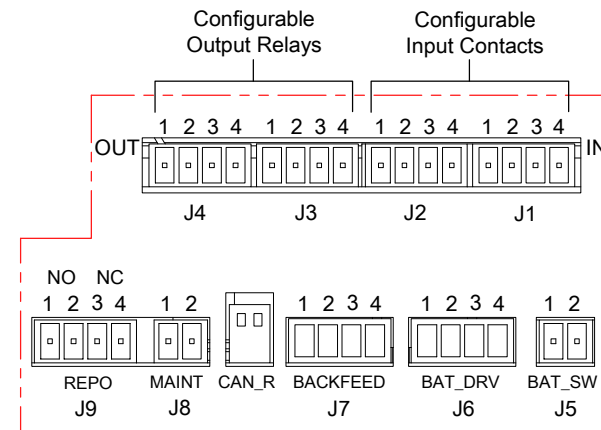
DWG NO: E3MUPS120K160H

DRAWN: DIBYA/JAYAPRAKASH	10-JUN-24
ENGINEER: Compbell Bai	10-JUN-24
APPROVED: YaPing YANG	10-JUN-24

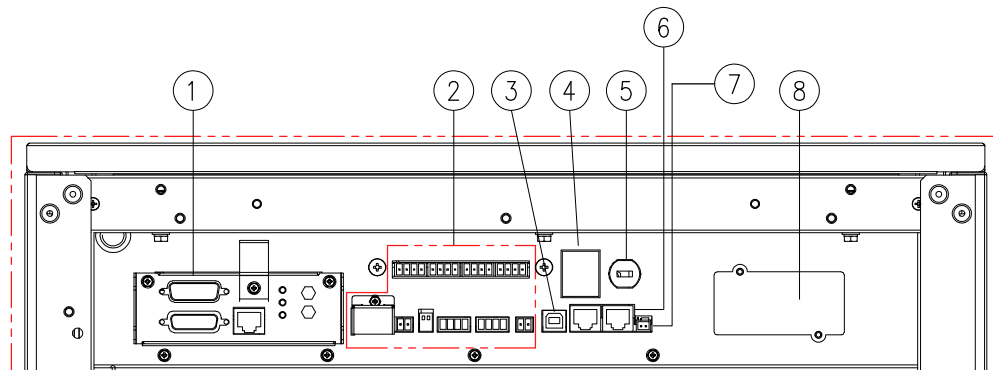
REV. 1
FIRST
ANGLE
PROJECTION



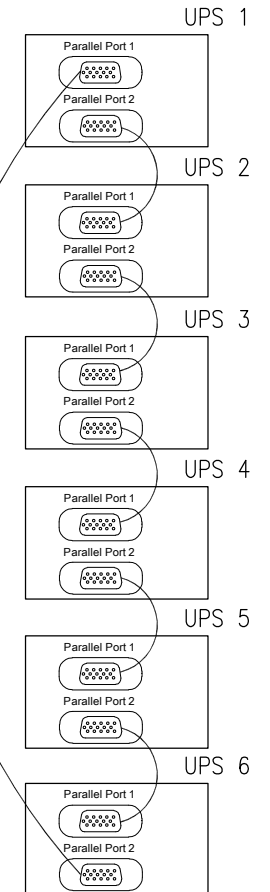
DETAIL-C, ENLARGED
CONNECTION TERMINALS



VIEW-B (ENLARGED)
INPUT CONTACTS AND OUTPUT RELAYS



VIEW-A (ENLARGED)



PARALLEL CONNECTION

VERIFY THE SETTINGS OF CAN_R
- FOR PARALLEL SYSTEMS WITH LESS THAN 4 PARALLEL UPSs, CAN_R OF ALL UPSs MUST BE IN ON POSITION.
- FOR PARALLEL SYSTEMS WITH MORE THAN 5 PARALLEL UPSs, CAN_R OF ALL UPSs MUST BE IN OFF POSITION.

- ① PARALLEL PORT
- ② INPUT CONTACTS AND OUTPUT RELAYS
REFER TO VIEW-B FOR DETAILS
- ③ USB PORT (FOR SERVICE)
- ④ EPO
- ⑤ SLOT FOR BATTERY COLD START BUTTON (OPTIONAL)
- ⑥ RS485
- ⑦ BATTERY TEMP. SENSOR TERMINAL
- ⑧ SLOT FOR SNMP

- NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL REGULATIONS.
 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 3. ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
 4. UP TO 6 NUMBERS OF UPS CAN BE CONNECTED IN PARALLEL.
MAXIMUM PARALLEL COMMUNICATION CABLE LENGTH IS 5.0METERS.

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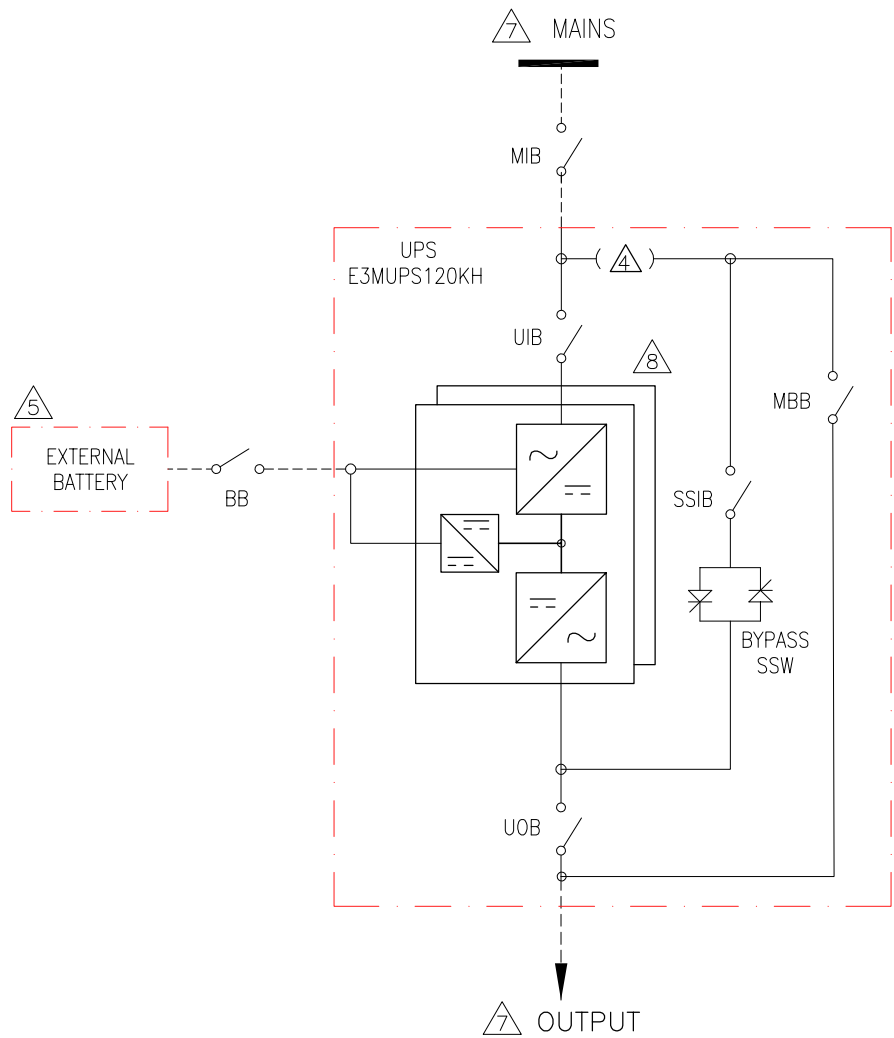
Schneider Electric

TITLE:
Schneider Electric Easy UPS 3M
120kVA/160kVA, 400V, 3PH
WITHOUT BATTERY MODULES
ENLARGED VIEWS AND DETAILS

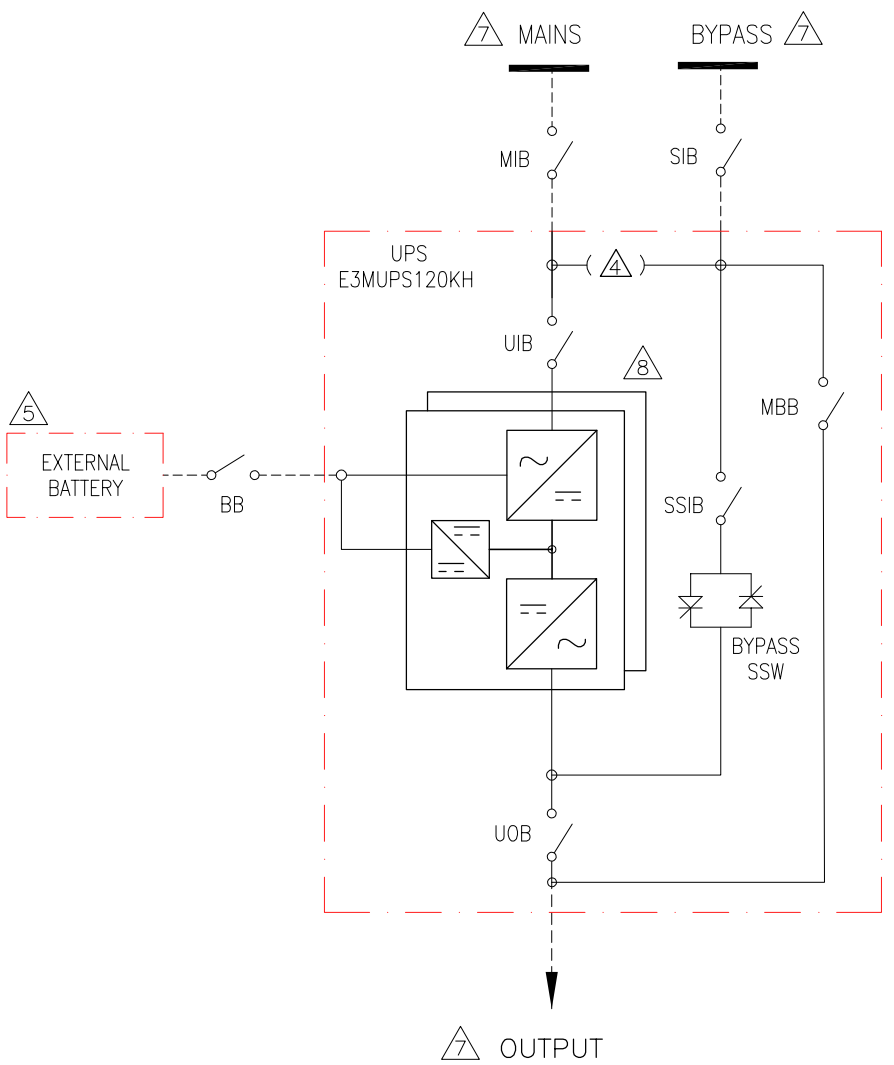
PROJECT: SUBMITTAL DRAWINGS SHEET 4 OF 7

DWG NO:	E3MUPS120K160H	REV:	1
DRAWN:	DIBYA/JAYAPRAKASH	10-JUN-24	FIRST ANGLE PROJECTION
ENGINEER:	Compbell Bai	10-JUN-24	
APPROVED:	YoPing YANG	10-JUN-24	

SINGLE MAINS CONFIGURATION



DUAL MAINS CONFIGURATION



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IT IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT.
4. SINGLE MAINS CONFIGURATION IS DEFAULT.
FOR DUAL MAINS CONFIGURATION REMOVE THE 3 SHORTING COPPER BARS.
5. BATTERIES CAN BE CONNECTED IN SERIES DEPENDING UPON THE RUNTIME REQUIREMENTS.
6. UP TO 6 UPS CAN BE CONNECTED IN PARALLEL.
7. REFER TO SHEET-7 FOR ELECTRICAL DATA.
8. 2xPOWER MODULES RATED AT 60KVA. NOT SCALABLE BUT INTERNAL REDUNDANCY IS POSSIBLE DEPENDING UPON THE LOAD REQUIREMENT.
9. CABLE LUGS ARE PROVIDED BY OTHERS.

LEGEND:

----- CABLE PROVIDED BY OTHERS

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Schneider Electric

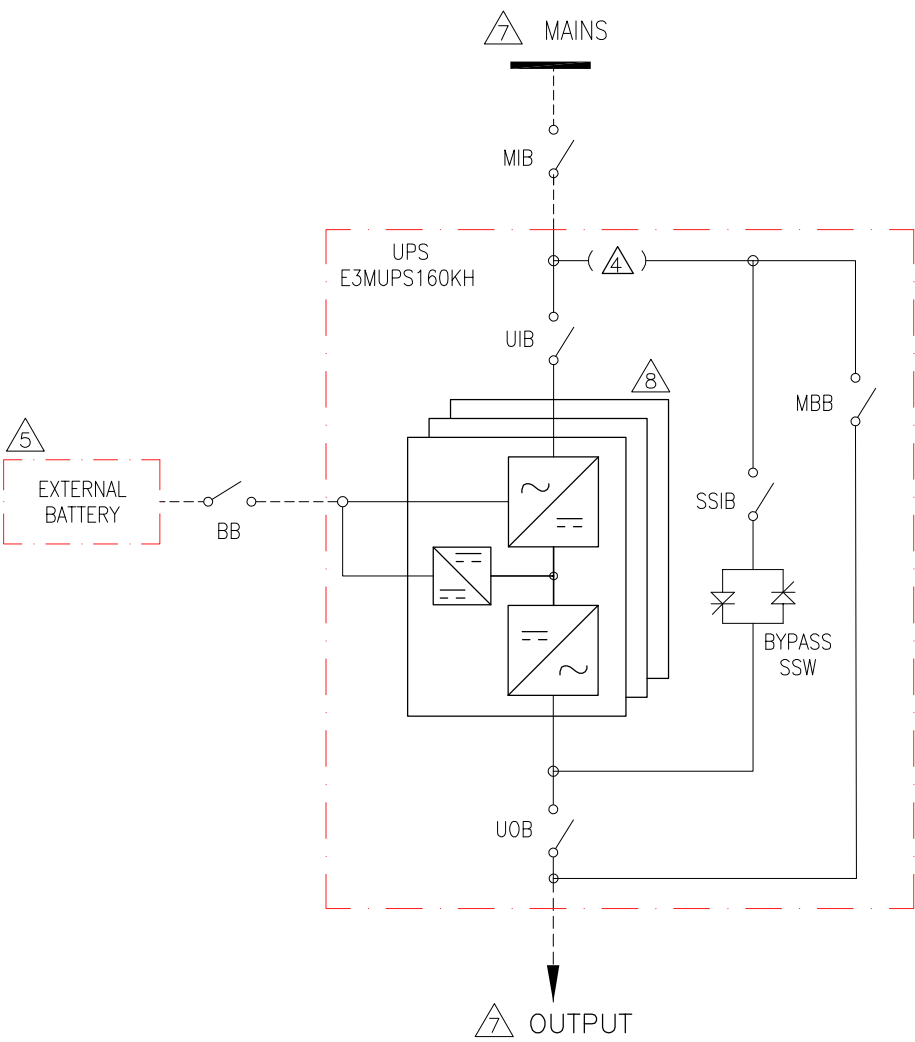
TITLE:
Schneider Electric Easy UPS 3M
120kVA, 400V, 3PH
WITHOUT BATTERY MODULES
SYSTEM ONLINE DIAGRAM

PROJECT: SUBMITTAL DRAWINGS SHEET 5 OF 7

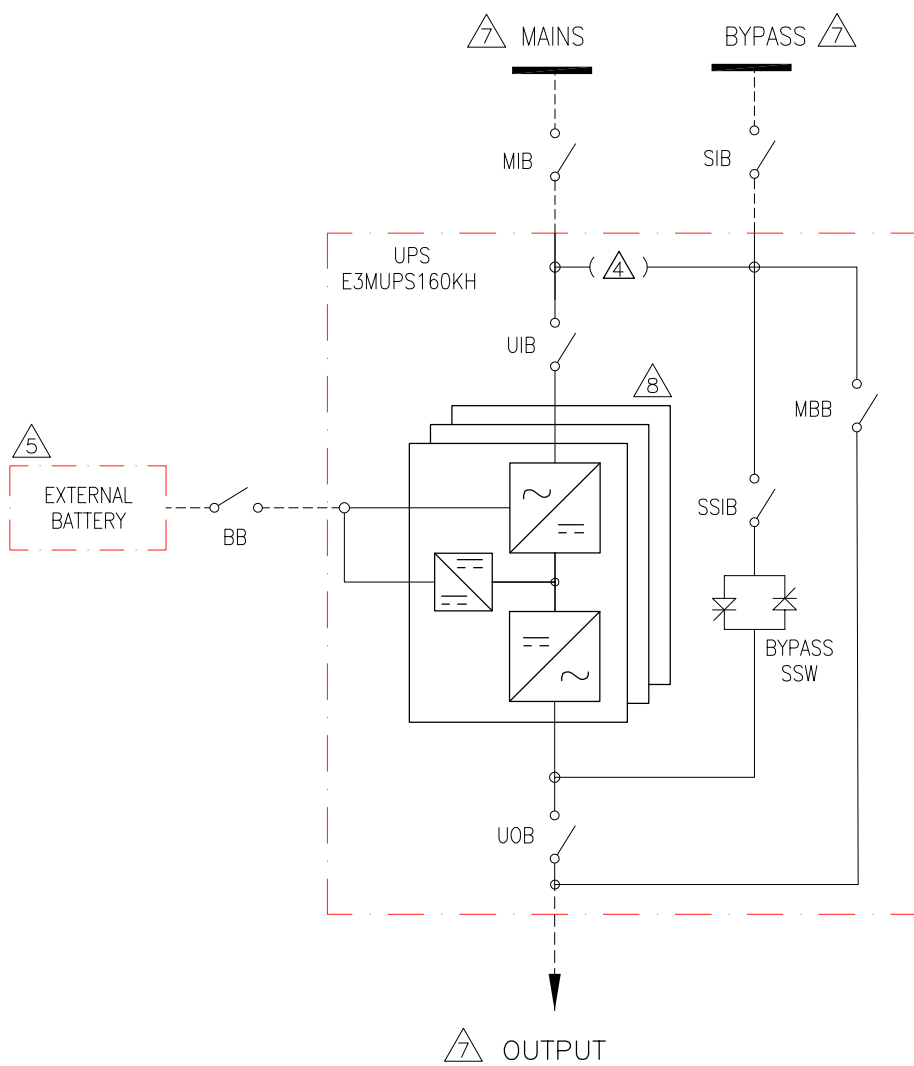
DWG NO: E3MUPS120K160H
DRAWN: JAYAPRAKASH
ENGINEER: Compbell Bai
APPROVED: YaPing YANG

REV. 1
09-NOV-21
09-NOV-21
FIRST ANGLE PROJECTION

SINGLE MAINS CONFIGURATION



DUAL MAINS CONFIGURATION



- NOTES:
- 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL REGULATIONS.
 - 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK
 - 3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IT IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT.
 - 4. SINGLE MAINS CONFIGURATION IS DEFAULT.
FOR DUAL MAINS CONFIGURATION REMOVE THE 3 SHORTING COPPER BARS.
 - 5. BATTERIES CAN BE CONNECTED IN SERIES DEPENDING UPON THE RUNTIME REQUIREMENTS.
 - 6. UP TO 6 UPS CAN BE CONNECTED IN PARALLEL.
 - 7. REFER TO SHEET-7 FOR ELECTRICAL DATA.
 - 8. 3xPOWER MODULES RATED AT 54kVA. NOT SCALABLE BUT INTERNAL REDUNDANCY IS POSSIBLE DEPENDING UPON THE LOAD REQUIREMENT.
 - 9. CABLE LUGS ARE PROVIDED BY OTHERS.

LEGEND:
----- CABLE PROVIDED BY OTHERS

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TITLE:
Schneider Electric Easy UPS 3M
160kVA, 400V, 3PH
WITHOUT BATTERY MODULES
SYSTEM ONLINE DIAGRAM

PROJECT: SUBMITTAL DRAWINGS SHEET 6 OF 7

DWG NO: E3MUPS120K160H
DRAWN: JAYAPRAKASH 09-NOV-21
ENGINEER: Compbell Bai 09-NOV-21
APPROVED: YaPing YANG 09-NOV-21

REV. 1
FIRST ANGLE PROJECTION

ELECTRICAL DATA SHEET		
UPS RATING	120kVA	160kVA
INPUT SPECIFICATIONS		
INPUT WIRING	3W+N+PE	3W+N+PE
INPUT VOLTAGE (V)	380/400/415	380/400/415
NOMINAL INPUT CURRENT (A)	192/182/176	256/243/234
MAXIMUM INPUT CURRENT (A)	218/207/200	262/262/262
INPUT CURRENT LIMITATION (A)	309	412
INPUT FREQUENCY (Hz)	40 - 70	40 - 70
INPUT POWER FACTOR	>0.99	>0.99
MAXIMUM INPUT SHORTCIRCUIT WITHSTAND (kA)	Icw=10	Icw=10
PROTECTION	FUSE	FUSE
RAMP-IN (SECONDS)	7	7
INPUT THDI - LINEAR LOAD	< 3% OF LINEAR LOADS	< 3% OF LINEAR LOADS
BYPASS SPECIFICATIONS		
BYPASS WIRING	3W+N+PE	3W+N+PE
OVERLOAD CAPACITY	110% FOR 60 MINUTES	110% FOR 60 MINUTES
	130% FOR 10 MINUTES	130% FOR 10 MINUTES
	130-150% FOR 1 MINUTE	130-150% FOR 1 MINUTE
BYPASS VOLTAGE (V)	380/400/415	380/400/415
MINIMUM BYPASS VOLTAGE (V)	266/280/291	266/280/291
MAXIMUM BYPASS VOLTAGE (V)	475/480/477	475/480/477
NOMINAL BYPASS CURRENT (A)	184/175/169	246/233/225
BYPASS FREQUENCY (Hz)	50/60	50/60
MAXIMUM INPUT SHORTCIRCUIT WITHSTAND (kA)	Icw=10	Icw=10
OUTPUT SPECIFICATIONS		
OUTPUT WIRING	3W+N+PE	3W+N+PE
OVERLOAD CAPACITY AT 30°C	110% FOR 60 MINUTES	110% FOR 60 MINUTES
	125% FOR 10 MINUTES	125% FOR 10 MINUTES
	150% FOR 1 MINUTE	150% FOR 1 MINUTE
OUTPUT VOLTAGE (V)	380/400/415 (±1%)	380/400/415 (±1%)
NOMINAL OUTPUT CURRENT (A)	182/173/167	243/231/223
OUTPUT FREQUENCY (Hz)	50/60	50/60
OUTPUT POWER FACTOR	1	1
OUTPUT THDU	<3%@ 100% LINEAR LOAD, < 5%@ 100% NON-LINEAR LOAD	<3%@ 100% LINEAR LOAD, < 5%@ 100% NON-LINEAR LOAD
BATTERY SPECIFICATIONS		
CHARGING POWER IN % OF OUTPUT POWER	1-20%	1-22.5%
MAXIMUM CHARGING POWER (W)	24000	36000
NOMINAL BATTERY VOLTAGE (32-50 Blocks) (VDC)	±192 to ±300	±192 to ±300
NOMINAL FLOAT VOLTAGE (32-50 Blocks) (VDC)	±215.5 to ±337.5	±215.5 to ±337.5
END OF DISCHARGE VOLTAGE (32-50 Blocks) (VDC)	±153.6 to ±240	±153.6 to ±240
BATTERY CURRENT AT FULL LOAD AND NOMINAL BATTERY VOLTAGE (36-50 Blocks) (A)	294-211	392-281
BATTERY CURRENT AT FULL LOAD AND MINIMUM BATTERY VOLTAGE (36-50 Blocks) (A)	369-265	493-353
TEMPERATURE COMPENSATION (PER CELL) IF THE TEMPERATURE IS ABOVE 28°C	PROGRAMMABLE FROM 0-7mV. DEFAULT IS 3mV	PROGRAMMABLE FROM 0-7mV. DEFAULT IS 3mV
RIPPLE CURRENT	<5% C10	<5% C10

RECOMMENDED CABLE SIZES 120kVA UPS			
	CABLE SIZE PER PHASE (mm²)	NEUTRAL CABLE SIZE (mm²)	PE CABLE SIZE (mm²)
INPUT	95	120	50
BYPASS	95	120	50
OUTPUT	95	120	50
BATTERY	2x70	2X70	70

RECOMMENDED CABLE SIZES 160kVA UPS			
	CABLE SIZE PER PHASE (mm²)	NEUTRAL CABLE SIZE (mm²)	PE CABLE SIZE (mm²)
INPUT	120	120	70
BYPASS	120	120	70
OUTPUT	120	120	70
BATTERY	2x95	2X70	95

NOTES:

1.INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL REGULATIONS.

2.REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.

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TITLE:
Schneider Electric Easy UPS 3M
120kVA/160kVA, 400V, 3PH
WITHOUT BATTERY MODULES
ELECTRICAL DATA

PROJECT: SUBMITTAL DRAWINGS | SHEET 7 OF 7

DWG NO: E3MUPS120K160H

DRAWN: JAYAPRAKASH | 03-JUN-19

ENGINEER: Compbell Bai | 06-JUN-19

APPROVED: YaPing YANG | 06-JUN-19

REV. 0

FIRST

PROJECTION

N.A