



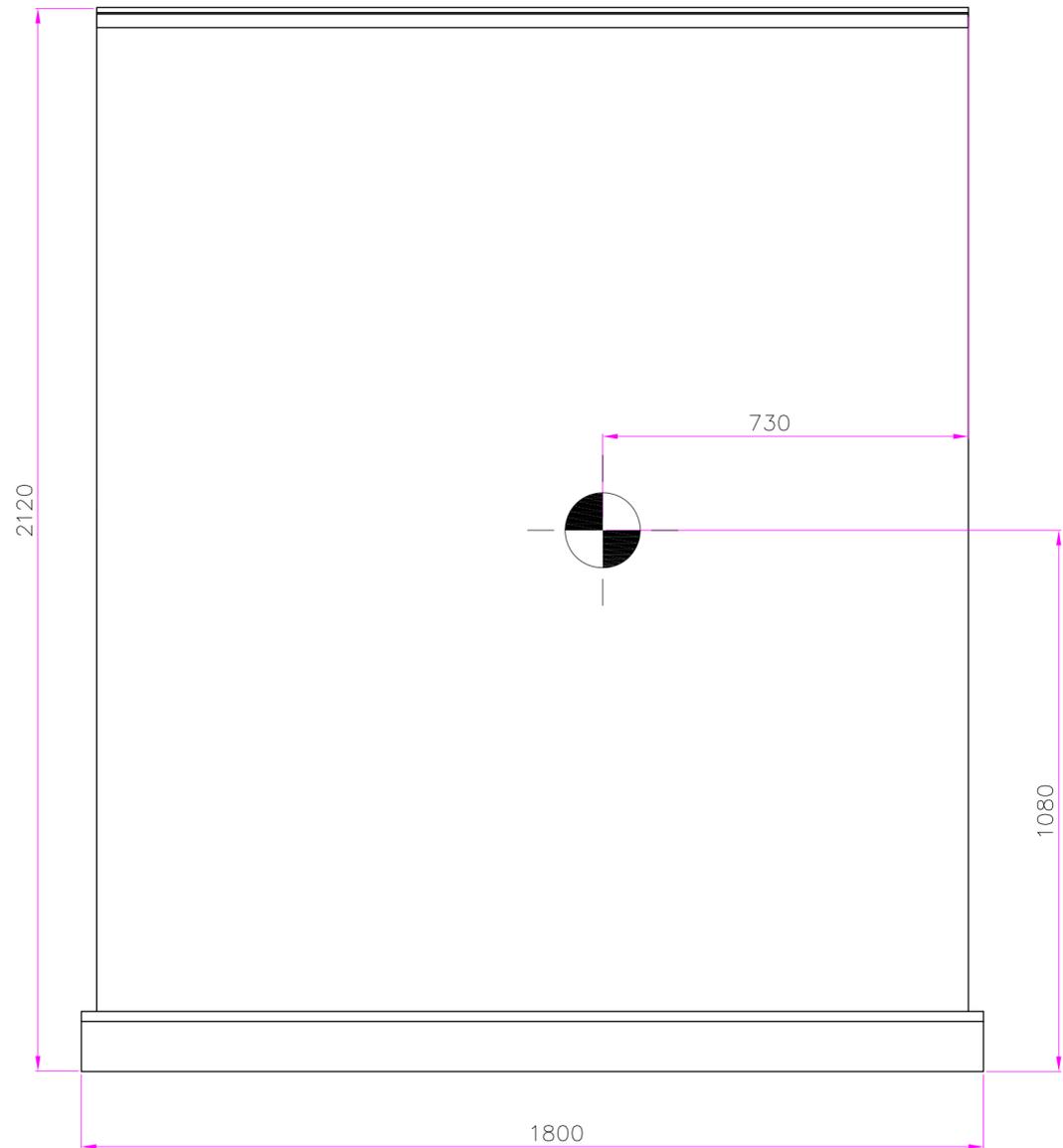
Powering Business Worldwide

# SITE PLANNING DATA EATON 93PM 100-400 kW UPS

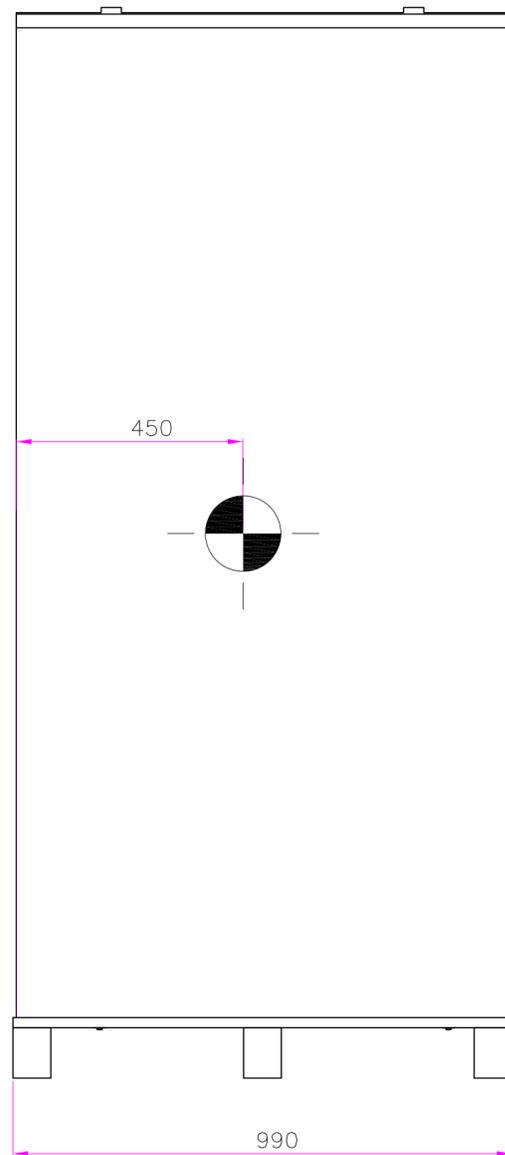
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METRIC		THIRD ANGLE PROJECTION		EATON CORPORATION			
DIMENSIONS ARE IN MILLIMETERS AFTER PLATING, DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5M-1994. SEE NOTES FOR TOLERANCES.							
DESCRIPTION: EATON 93PM 100-400 kW UPS							
ORIGINATED: E_Kostilainen	18.04.2017	ECO:	ECO-116278	NAME:	P-110000547	REVISION:	04
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FRONT VIEW



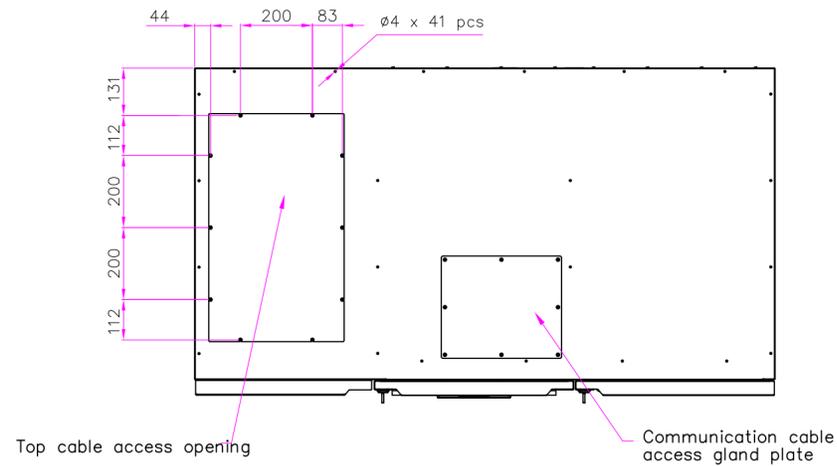
RIGHT VIEW

**Product Specifications**

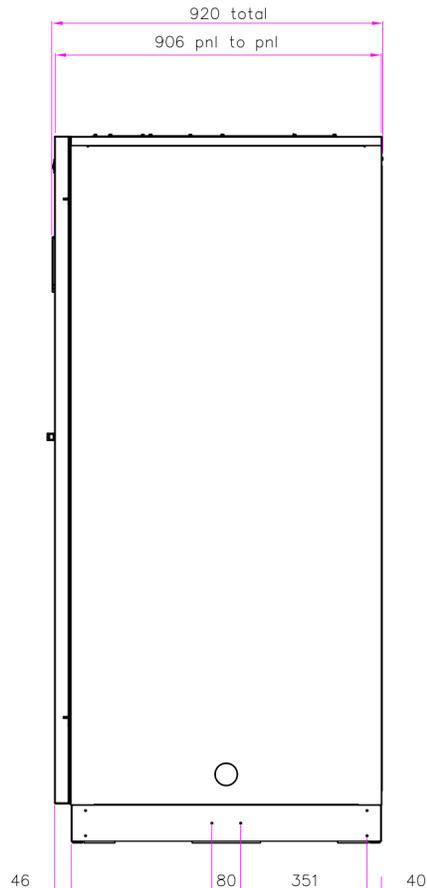
UPS Rating		Shipping Dimensions WXDXH	Approx. Weight <sup>6</sup> Shipping
kVA	kW	mm	kg
100	100	1800 x 990 x 2120	720
150	150	1800 x 990 x 2120	785
200	200	1800 x 990 x 2120	850
250	250	1800 x 990 x 2120	915
300	300	1800 x 990 x 2120	980
350	350	1800 x 990 x 2120	1045
400	400	1800 x 990 x 2120	1110

METRIC		EATON CORPORATION		
DIMENSIONS ARE IN MILLIMETERS AFTER PLATING, DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5M-1994. SEE NOTES FOR TOLERANCES.				
DESCRIPTION: EATON 93PM 100-400 kW UPS Packaging Dimensions				
ORIGINATED: E_Kostilainen	18.04.2017	ECO:	NAME:	REVISION: 04
MODIFIED: Atif.R	02.01.2018	ECO-116278	P-110000547	SCALE: 1:10
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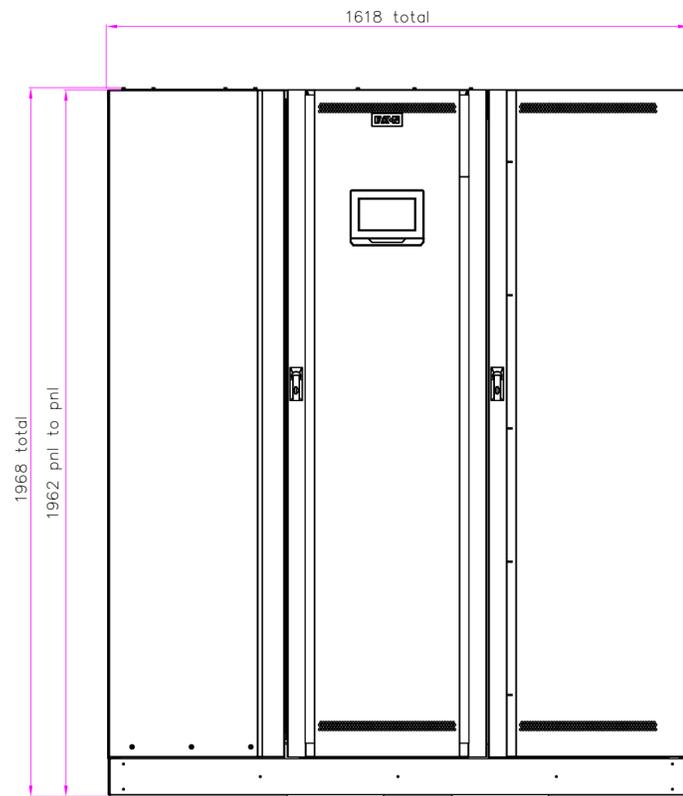
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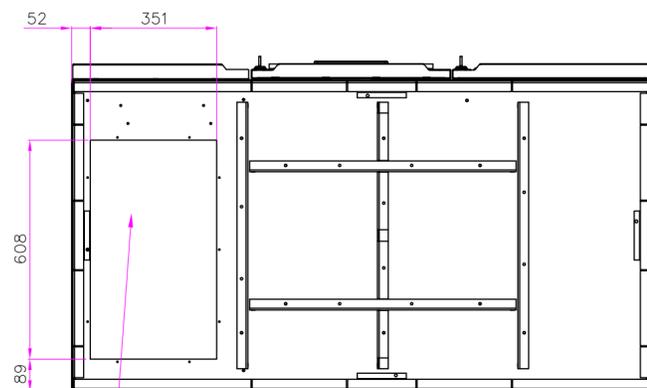
TOP VIEW



SIDE VIEW

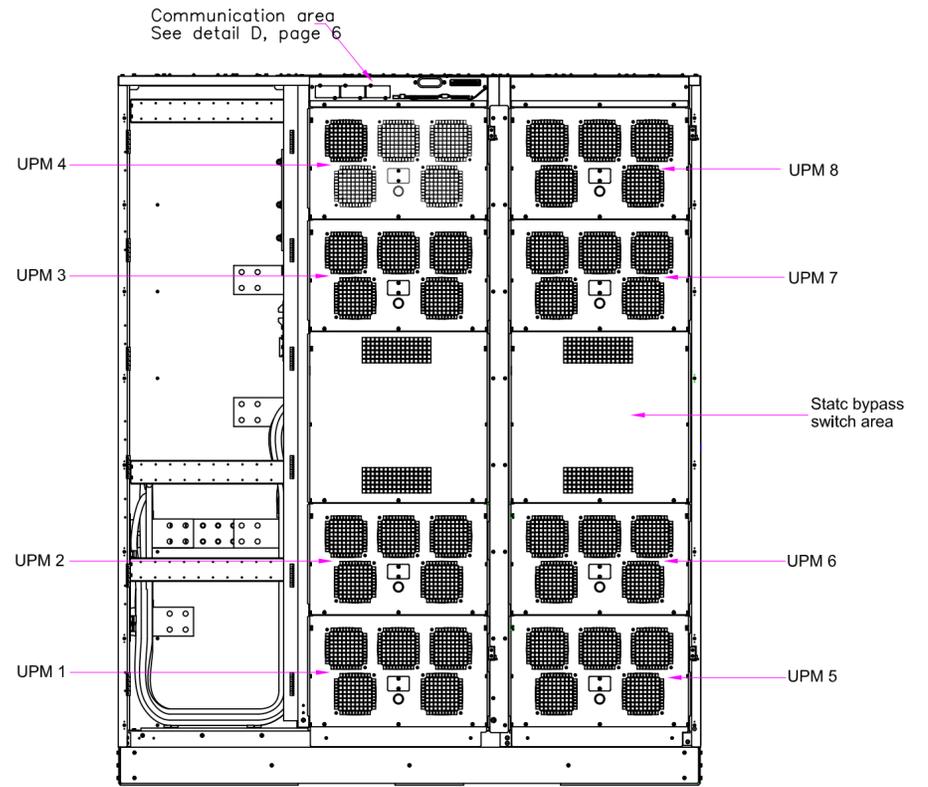


FRONT VIEW



BOTTOM VIEW

Bottom cable access opening



FRONT VIEW  
(Door Removed)

Notes:

1. The system must be installed in a temperature and humidity controlled indoor area free of conductive contaminants.
2. Continuous ambient temperature range: 0-40 °C ; Maximum relative humidity: 95 % non-condensing.
3. Minimum overhead clearance for ventilation above the UPS cabinet is 500 mm.
4. Minimum 900 mm clearance in front of the UPS cabinet is required for cooling air intake and servicing space.
5. Minimum 450 mm of clearance required in the back of the UPS cabinet for normal system.If using top air exhaust kit with the unit then no clearance required from the back.
6. When using Top air exhaust kit add 55 kg to the total weight.

Product Specifications

UPS Rating		Max Heat Dissipation at 100% Load	Dimensions W x D x H	Approx. Weight <sup>6</sup> Installed	Floor Loading <sup>6</sup>	Cooling Air
kVA	kW	kW	mm	kg	kg/m <sup>2</sup>	l/s
100	100	3,7	1618 x 920 x 1968	680	493	334
150	150	5,6	1618 x 920 x 1968	745	540	501
200	200	7,5	1618 x 920 x 1968	810	587	668
250	250	9,3	1618 x 920 x 1968	875	635	835
300	300	11,2	1618 x 920 x 1968	940	682	1002
350	350	13,1	1618 x 920 x 1968	1005	729	1169
400	400	14,9	1618 x 920 x 1968	1070	776	1336

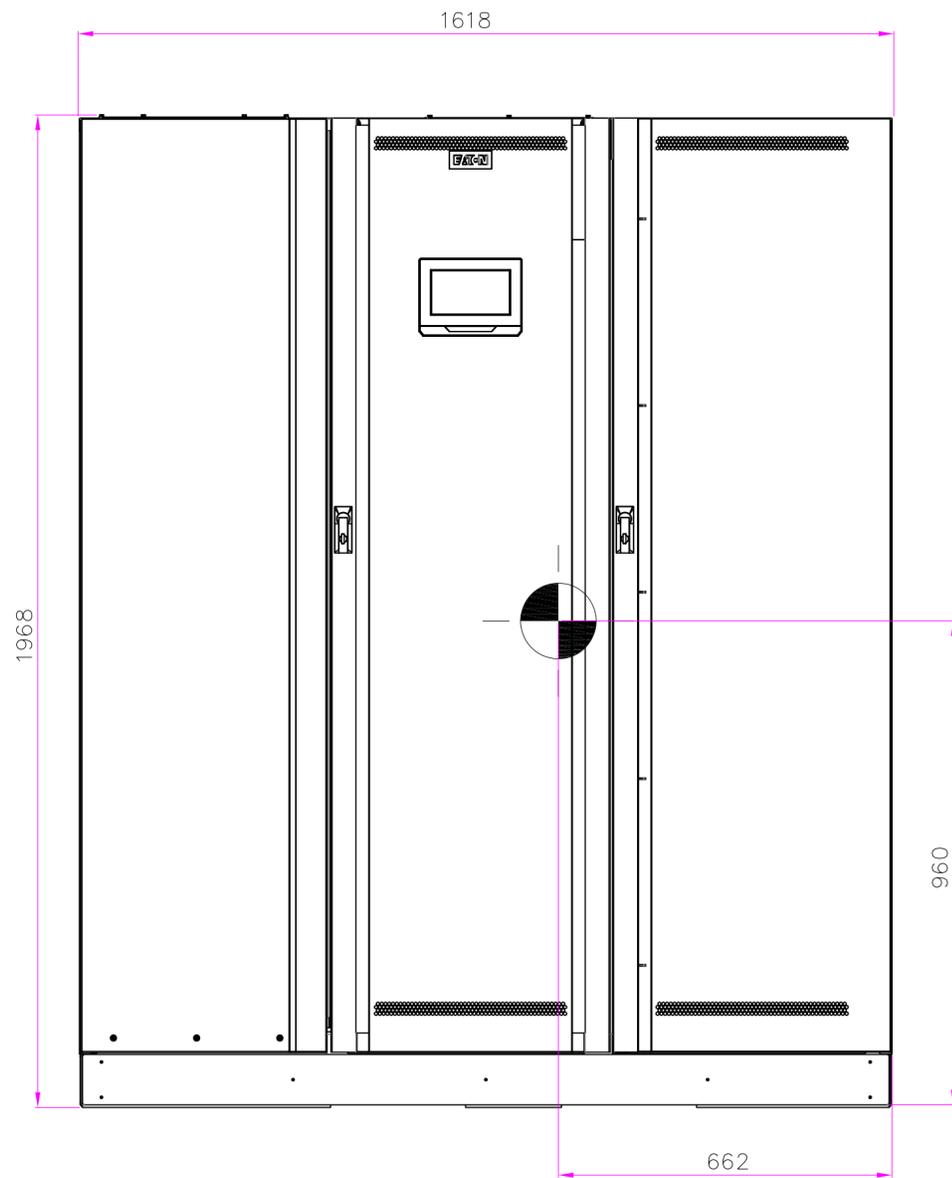
METRIC THIRD ANGLE PROJECTION

EATON CORPORATION

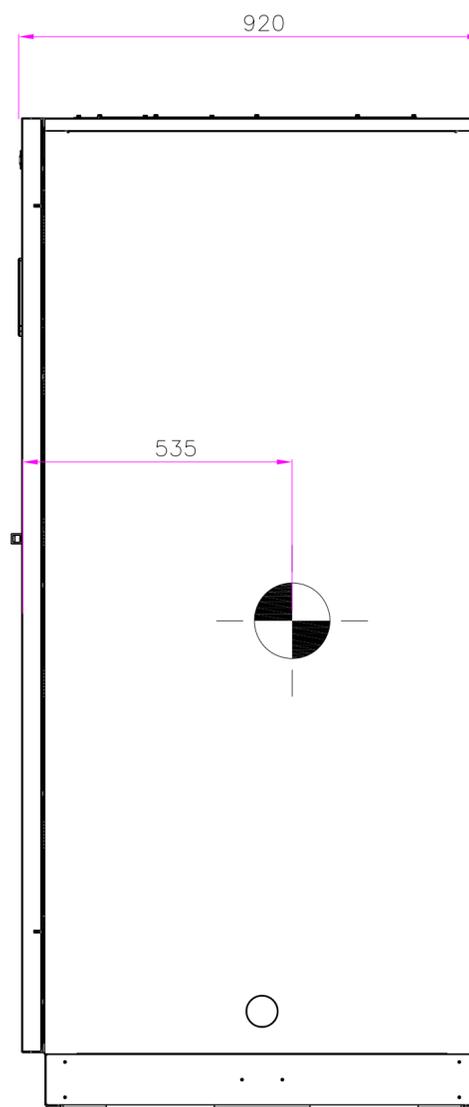
DESCRIPTION: EATON 93PM 100-400 kW UPS Dimensional drawings

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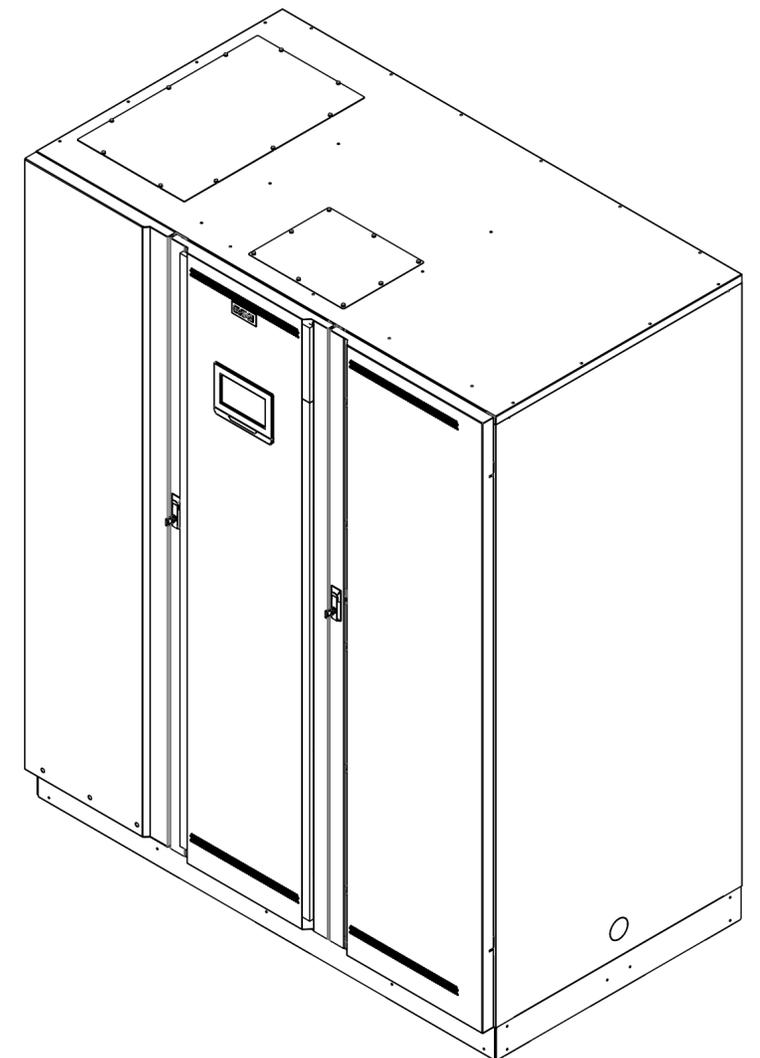
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FRONT VIEW



RIGHT VIEW



Notes:

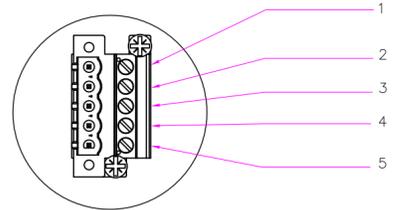
1. The COG dimensions for the cabinet are approximated values without batteries and air exhaust kit installation.

Cabinet Installation Clearances	
From Top of cabinet	500 mm
From Front of cabinet	900 mm
From Back of cabinet	450 mm (0, if top air exhaust kit installed)

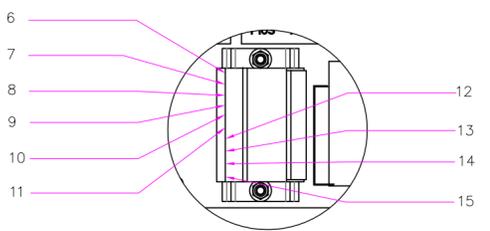
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DIMENSIONS ARE IN MILLIMETERS AFTER PLATING, DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5M-1994. SEE NOTES FOR TOLERANCES.				
DESCRIPTION: EATON 93PM 100-400 kW UPS COG And Clearance Dimensions				
ORIGINATED: E_Kostilainen	18.04.2017	ECO: ECO-116278	NAME: P-110000547	REVISION: 04
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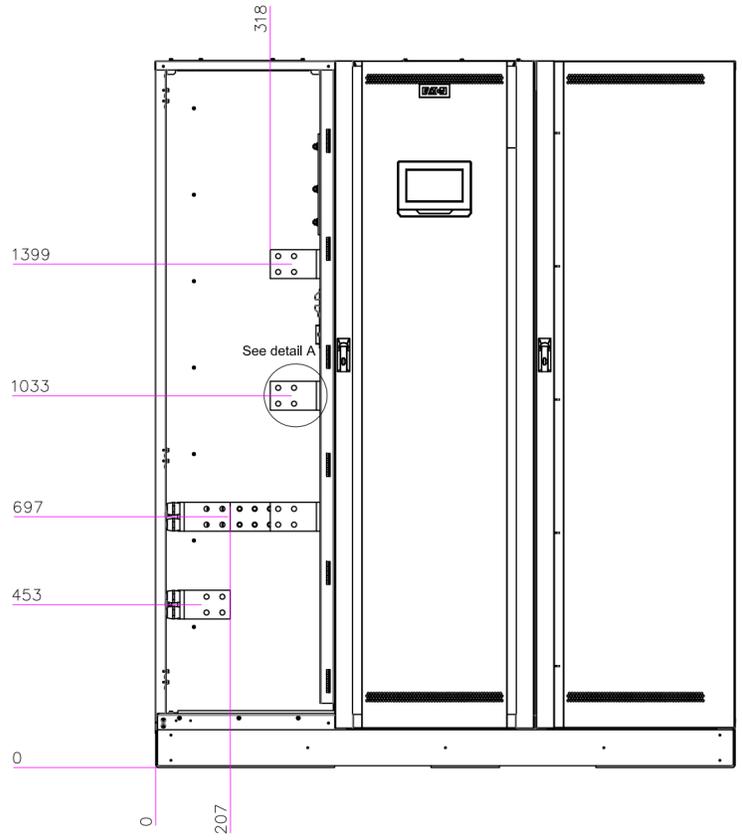
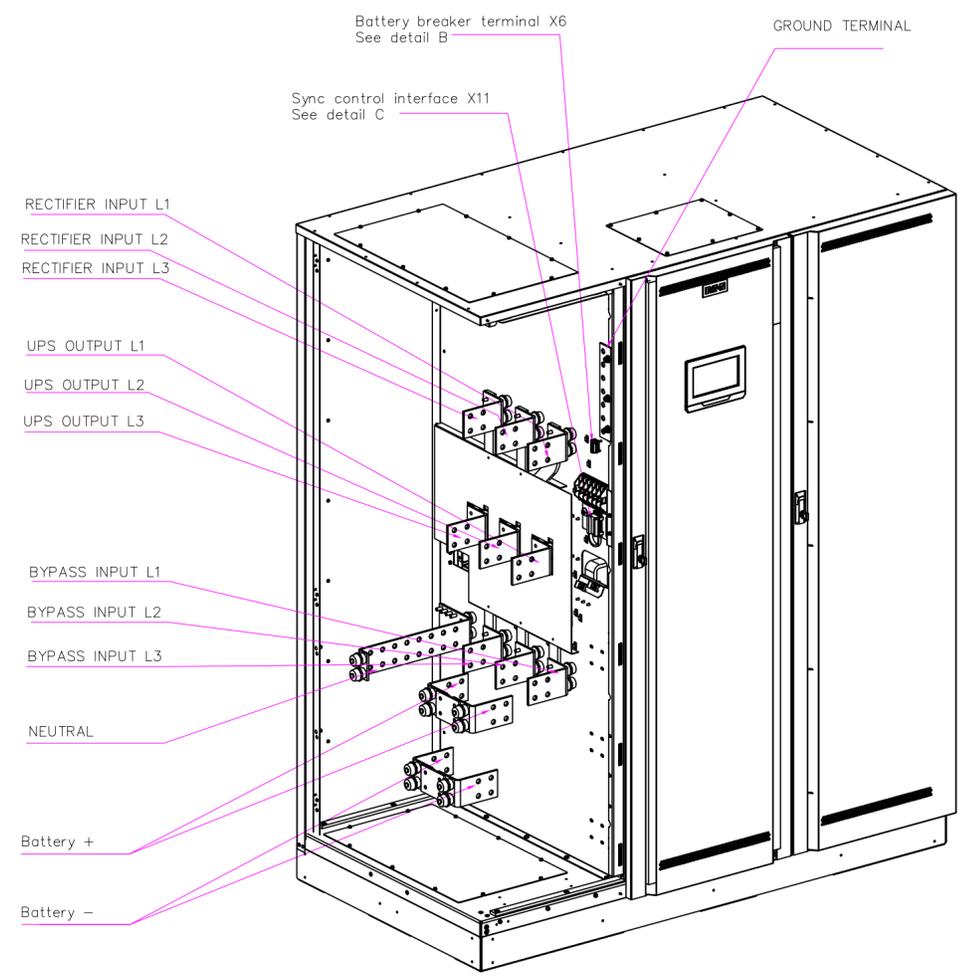
X6 Battery breaker terminal (detail B)	
1.	Shunt trip
2.	Shunt trip return
3.	Not used
4.	Status signal
5.	Status signal return
X11 Sync Control interface (detail C)	
6.	BYPASS L1
7.	BYPASS L2
8.	BYPASS L3
9.	OUT L1
10.	OUT L2
11.	OUT L3
12.	Not used
13.	SYNC L1
14.	SYNC L2
15.	SYNC L3



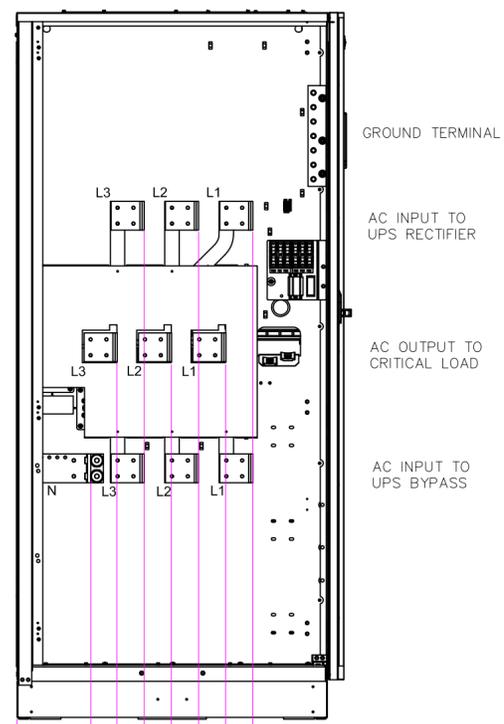
DETAIL B



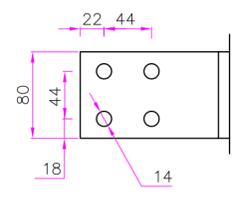
DETAIL C



FRONT VIEW



SIDE VIEW



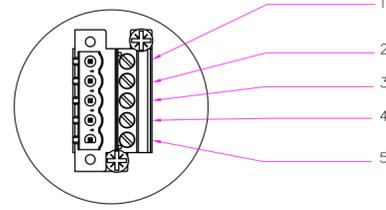
DETAIL A

- Notes:
- The bus bars are Sn coated and suitable for both Cu and Al connections.
  - M12 size power cable bolts are used for UPS input and output phase connections (L1, L2, L3). They require 80 Nm of tightening torque.
  - M10 size power cable bolts are used for PE and neutral connections and it requires 47 Nm of tightening torque.

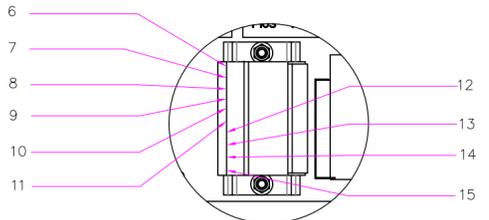
METRIC		EATON CORPORATION		<b>EATON</b>	
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DESCRIPTION: EATON 93PM 100-400 kW UPS Customer Connections					
ORIGINATED: E_Kostilainen	18.04.2017	ECO:	ECO-116278	NAME:	P-110000547
MODIFIED: Atif.R	02.01.2018	DOCUMENT TYPE:	AUTOCAD DRAWING		
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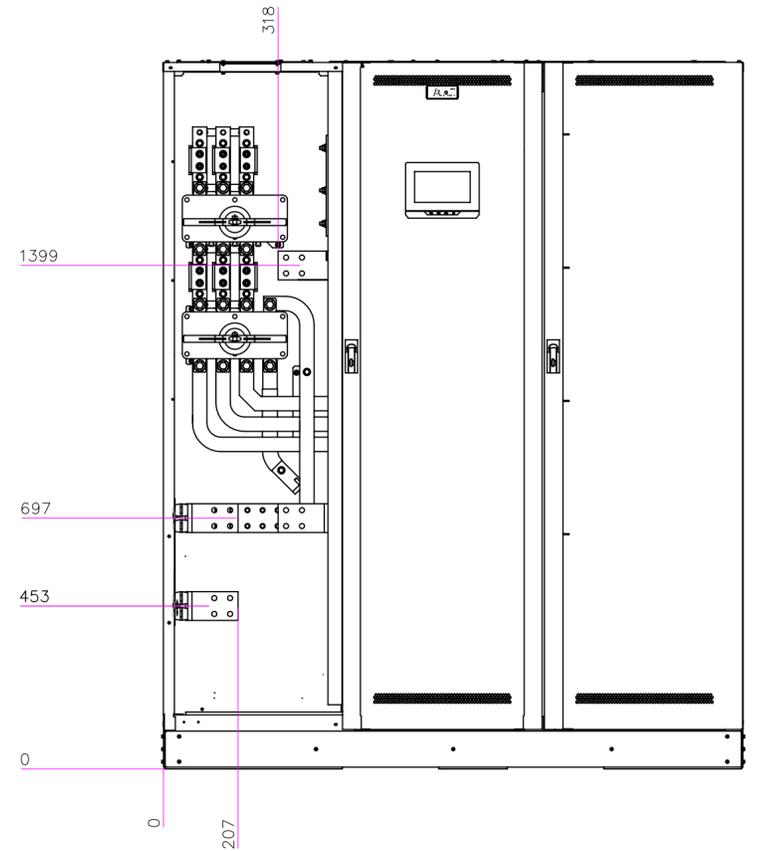
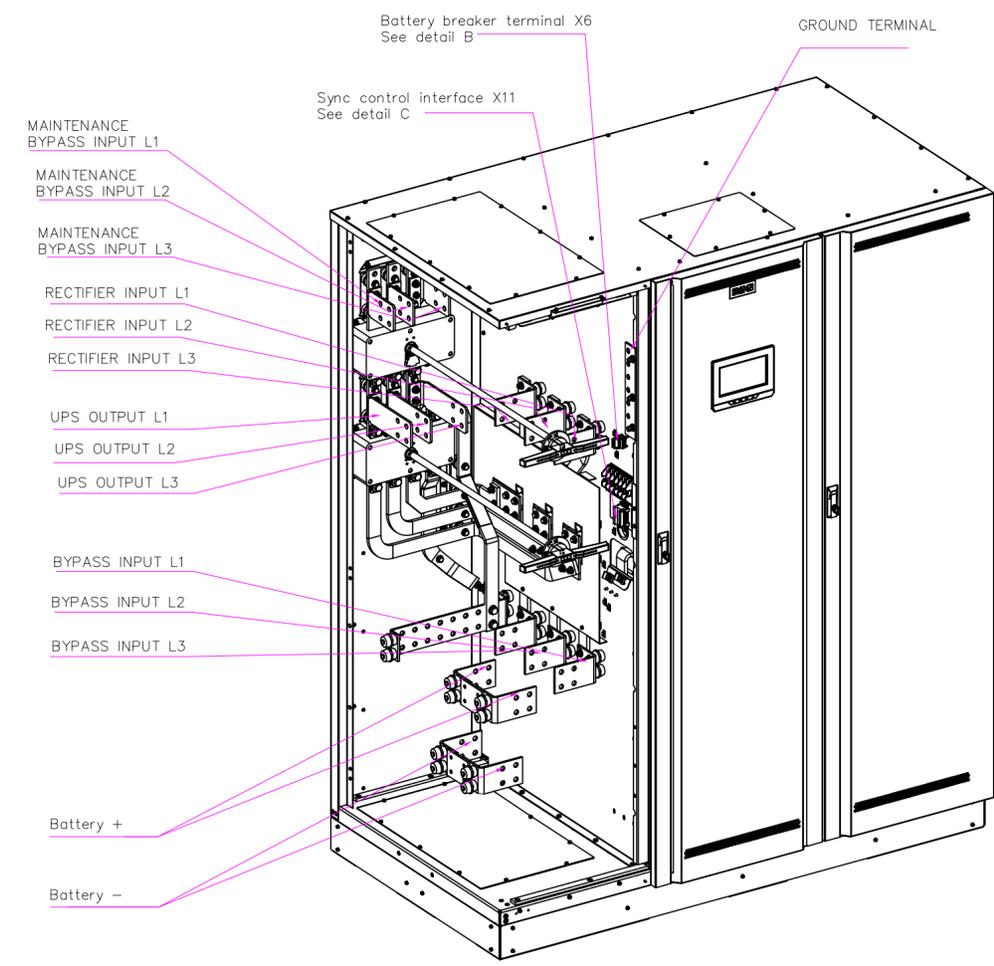
X6 Battery breaker terminal (detail B)	
1.	Shunt trip
2.	Shunt trip return
3.	Not used
4.	Status signal
5.	Status signal return
X11 Sync Control interface (detail C)	
6.	BYPASS L1
7.	BYPASS L2
8.	BYPASS L3
9.	OUT L1
10.	OUT L2
11.	OUT L3
12.	Not used
13.	SYNC L1
14.	SYNC L2
15.	SYNC L3



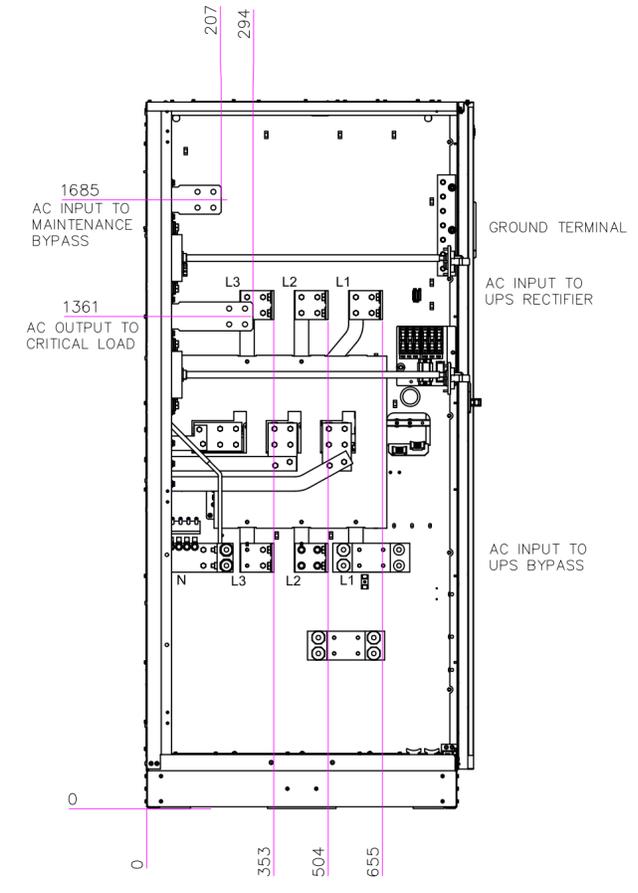
DETAIL B



DETAIL C



FRONT VIEW



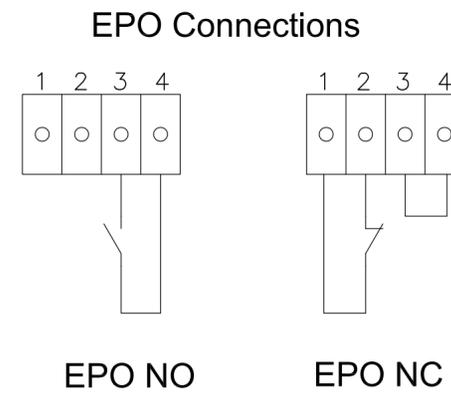
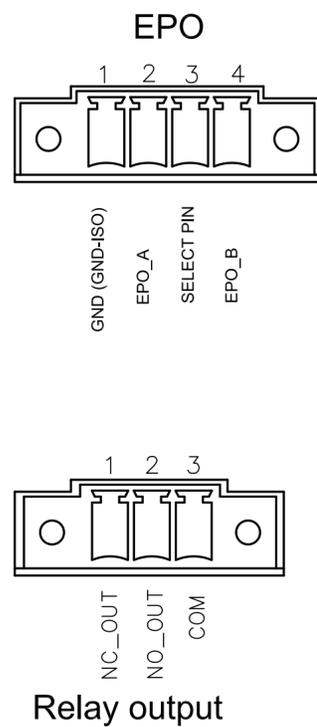
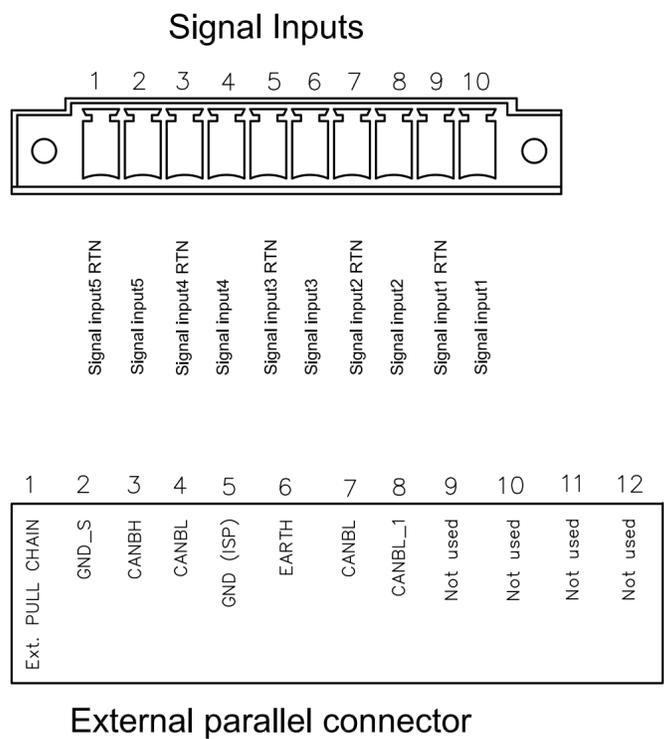
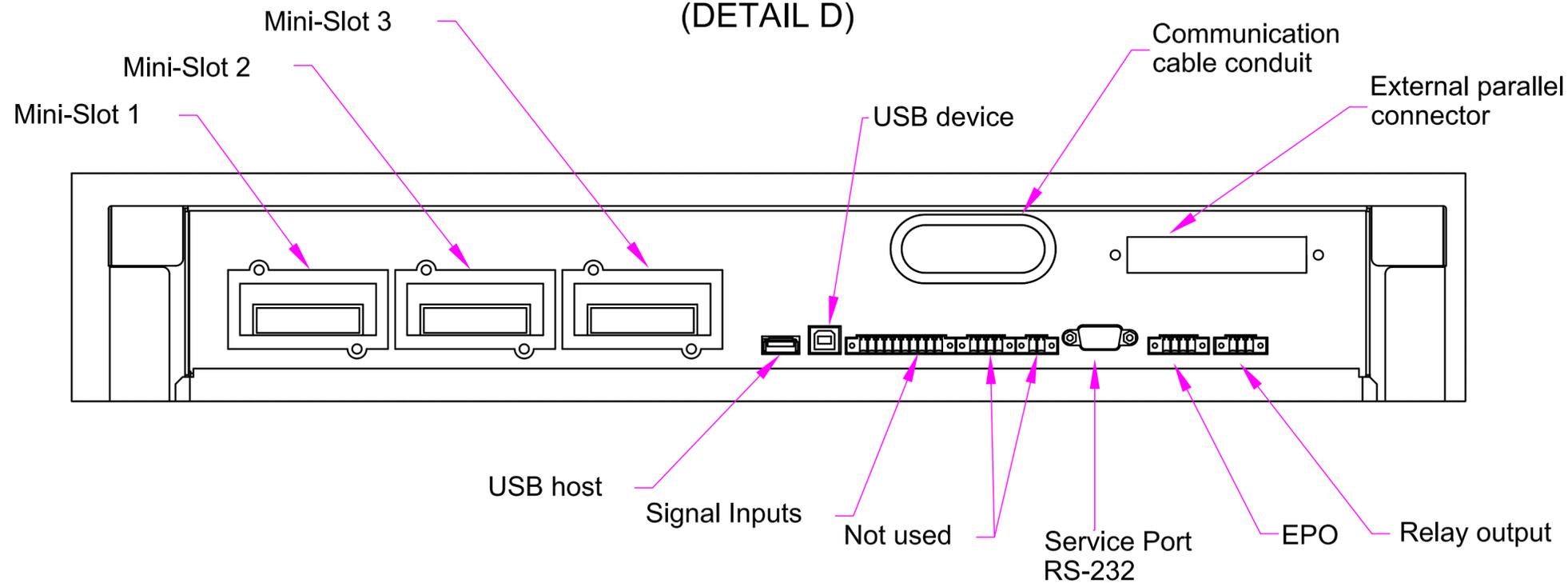
SIDE VIEW

- Notes:
- The bus bars are Sn coated and suitable for both Cu and Al connections.
  - M12 size power cable bolts are used for UPS input and output phase connections (L1, L2, L3). They require 80 Nm of tightening torque.
  - M10 size power cable bolts are used for PE and neutral connections and it requires 47 Nm of tightening torque.

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MODIFIED: Meron, G	18.05.2018	ECO-116278		SCALE: 1:14
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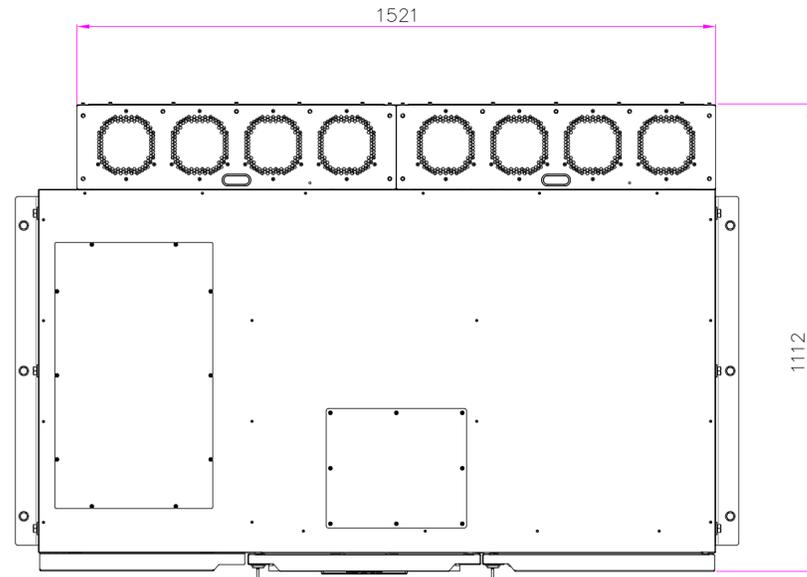
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# COMMUNICATION AREA (DETAIL D)

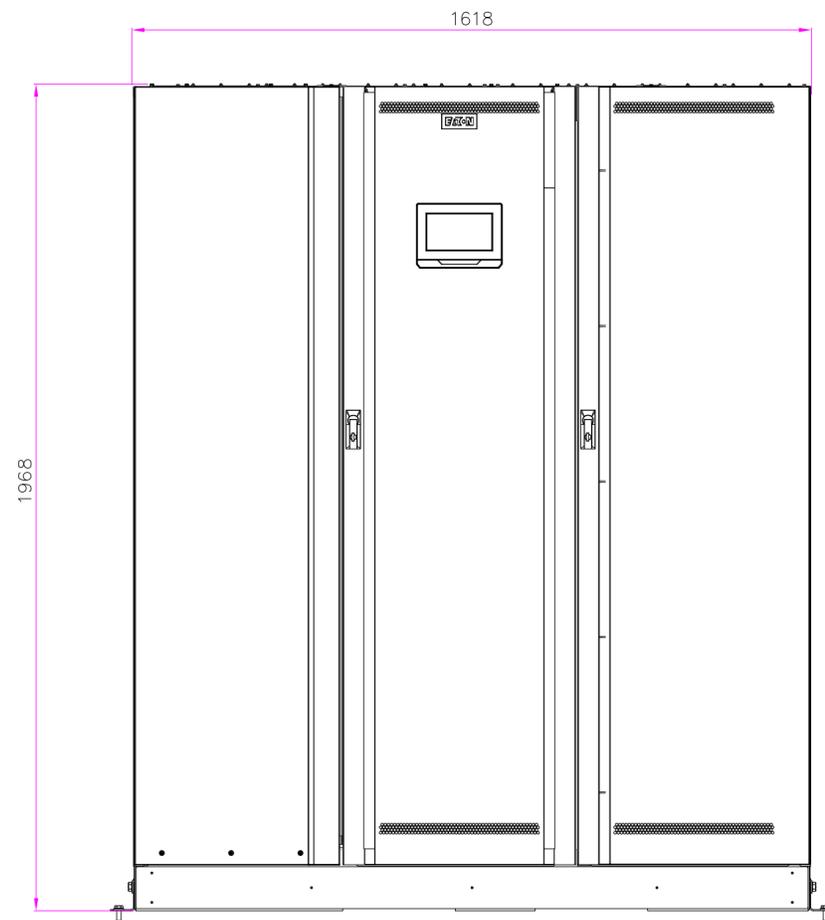


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DIMENSIONS ARE IN MILLIMETERS AFTER PLATING, DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5M-1994. SEE NOTES FOR TOLERANCES.				
DESCRIPTION: EATON 93PM 100-400 kW UPS Customer Connections Detail				
ORIGINATED: Atif Roasheed	18.04.2017	ECO:	NAME:	REVISION: 04
MODIFIED: Atif.R	02.01.2018	ECO-116278		SCALE: N/A
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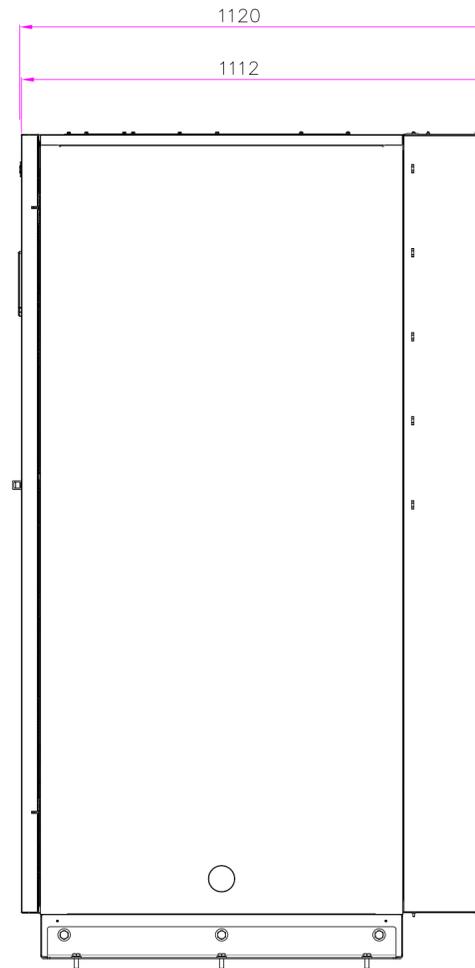
# OPTIONAL TOP AIR EXHAUST KIT(FACTORY CONFIGURED)



TOP VIEW



FRONT VIEW



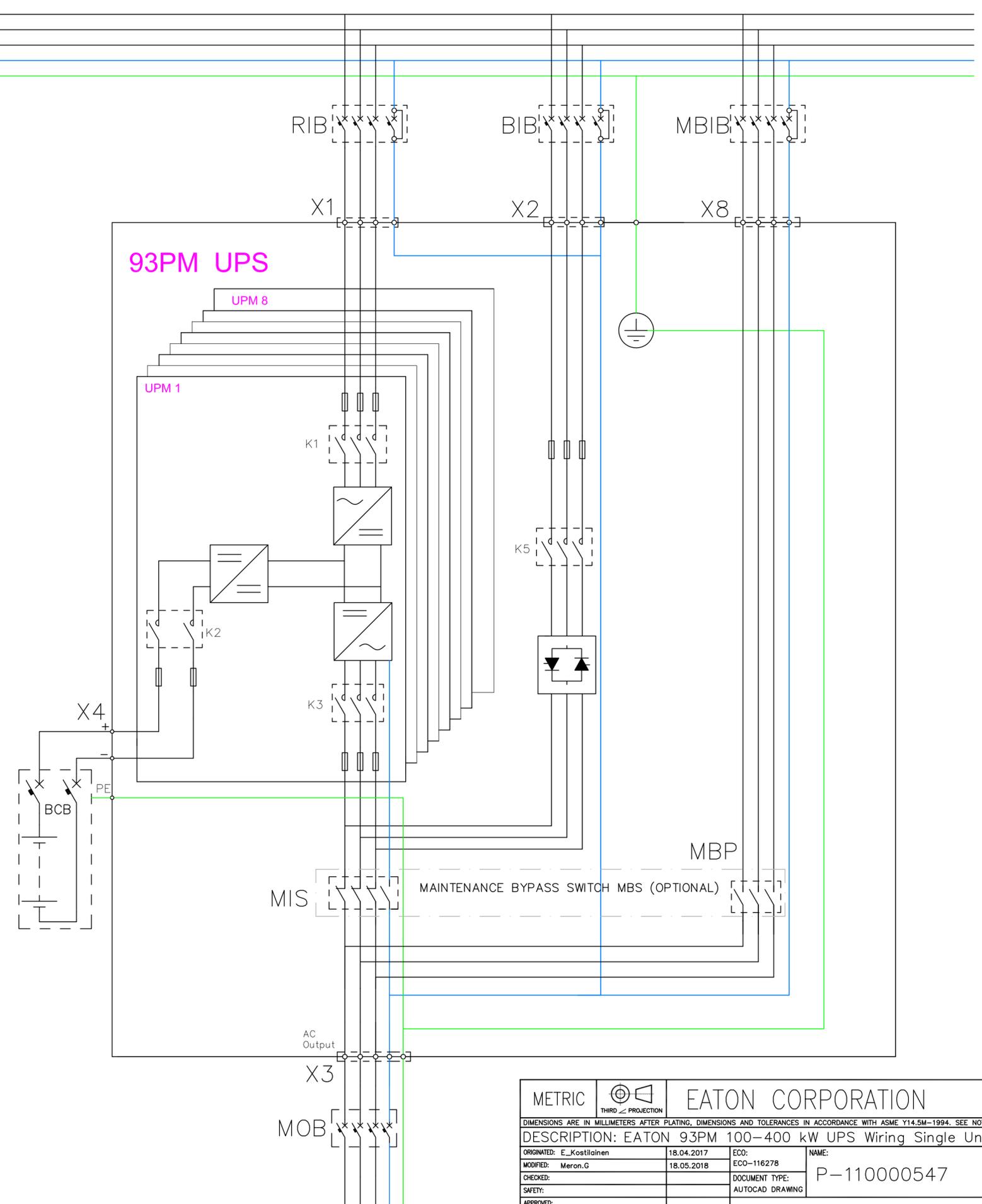
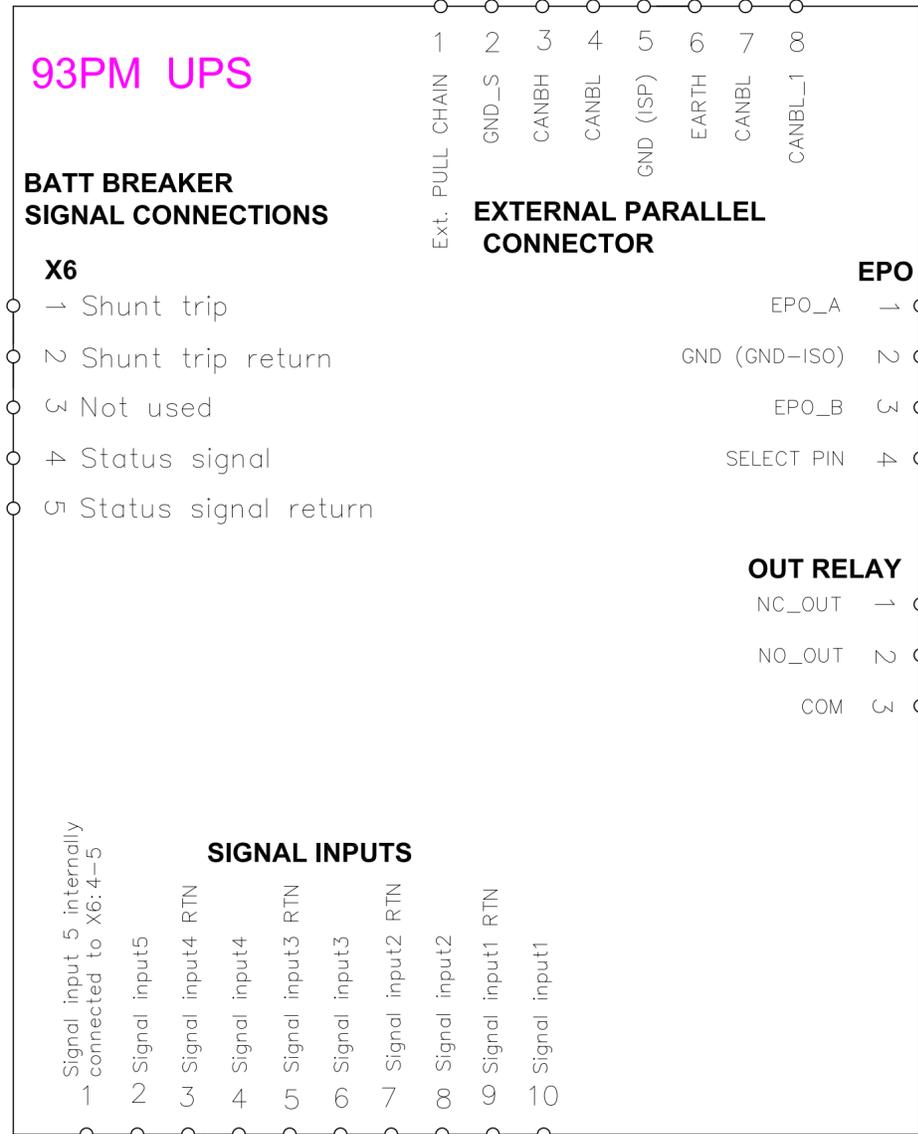
RIGHT VIEW

**Notes:**

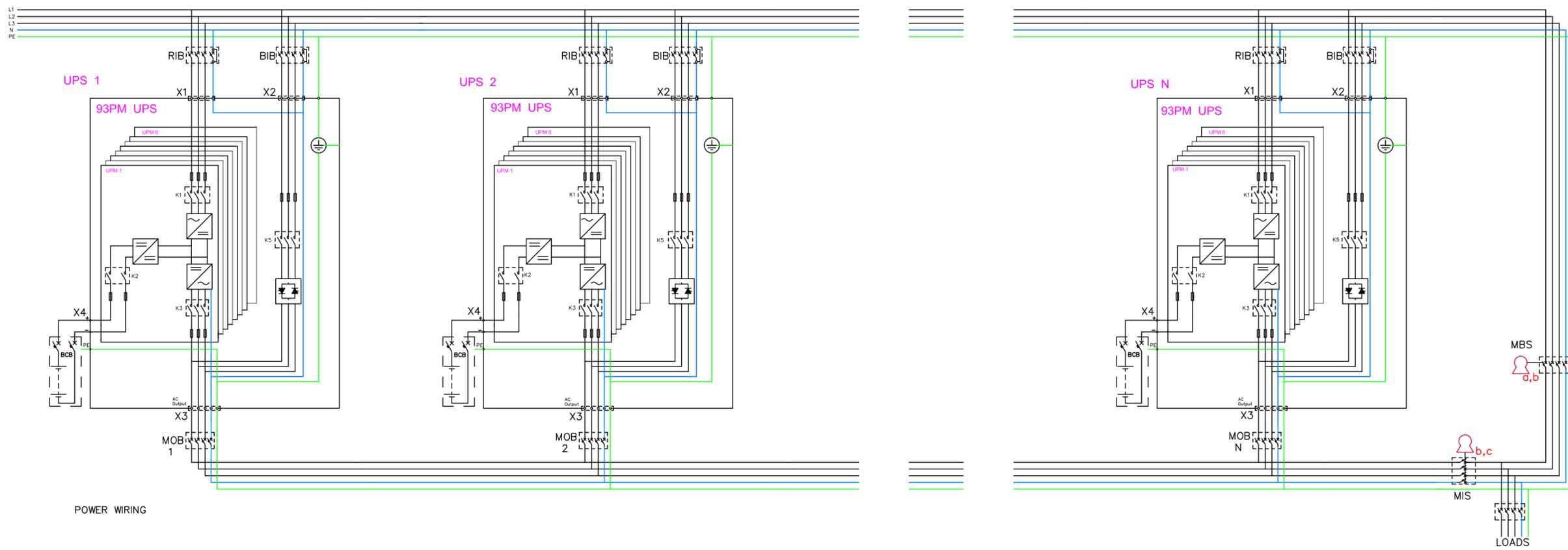
1. Must be ordered together with the UPS.  
Cannot be retrofitted.
2. Assembled on site.

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DESCRIPTION: EATON 93PM 100-400 kW UPS Top exhaust air kit							
ORIGINATED: E_Kostilainen	18.04.2017	ECO:	ECO-116278	NAME:	P-110000547		REVISION: 04
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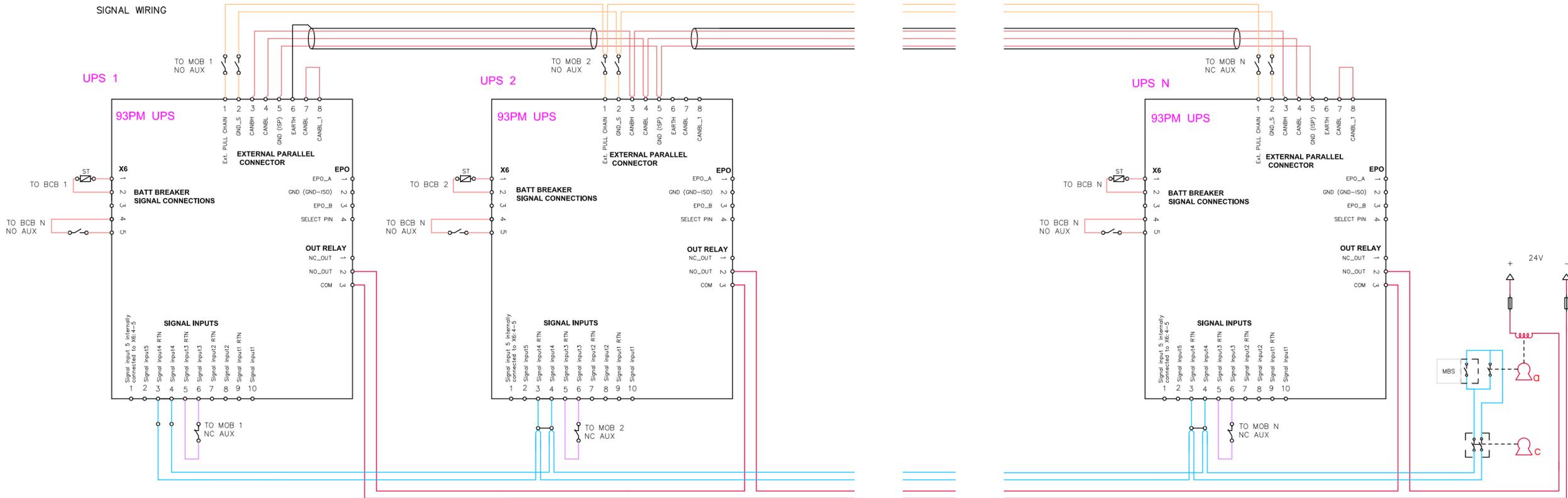


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POWER WIRING

SIGNAL WIRING



- MBS STATUS (Provided by others, Installed by others)  
Twisted pair (if possible, else shielded)  
No earth needed
- MOB STATUS (Provided by others, Installed by others)  
Twisted pair (if possible, else shielded)  
No earth needed
- PCAN (DUAL AS OPTION)  
Provided by Eaton, Installed by Eaton

- PULL CHAIN (REDUNDANT ON BYP STATUS)  
Provided by Eaton, Installed by Eaton
- ON BYPASS STATUS (NO INVERTORS ONLINE)  
Provided by others, Installed by others

- Mechanical bypass interlocking sequence
1. Place UPS system to bypass. On bypass status (K3) will energize Key A solenoid to release it
  2. Removing key A will switch on "force bypass" to the UPS system
  3. Place key A to MBS breaker and close breaker. Key B will be released.
  4. Aux contact of MBS will keep "force bypass" on UPS system
  5. Place key B to MIS breaker and open MIS to isolate UPS system from load. Key C will be released
  6. Place key C to it's dedicated keyhole to release "force bypass" command to allow UPS system testing

METRIC	THIRD ANGLE PROJECTION	EATON CORPORATION	EATON
DIMENSIONS ARE IN MILLIMETERS AFTER PLATING, DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5M-1994. SEE NOTES FOR TOLERANCES.			
DESCRIPTION: EATON 93PM 100-400 kW UPS Wiring Parallel Units			
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# Eaton 93PM 100-400 kW UPS Site Planning Data

Product Specifications																					
UPS Rating		AC Input		3P+Bolted N Rectifier Input Breaker (RIB)		3P+Bolted N Bypass Input Breaker (BIB)		AC Output			4P Inverter AC output Breaker MOB					Battery Breaker (BCB) (Maximum ratings at the end of discharge, 1.67VPC)			Maintenance Bypass Input Breaker (MBIB)	For Parallel Units Common Maintenance Bypass Switch (MBS)	
				Nominal Current	Maximum Current	Nominal Current at 400 V Input	Integrated Bypass Fuse				Output Current	Inverter Short Circuit Current	Auxiliary Switches	Voltage Rating	Rated current	Maximum Current	Trip Device (Shunt Trip)	Auxiliary Switches	Rating	Rating	Auxiliary Switches
kVA	kW	V	A	A	A	Type	V	A	A / 400ms	Qty	VDC	A	A	VDC	Qty	A	A	Qty			
100	100	400	175	190	144	Bussman 1400A 170M6417	400	144	340	2	600	230	292	24	1	144	144 x N	1			
150	150	400	262	285	217	Bussman 1400A 170M6417	400	217	510	2	600	340	439	24	1	217	217 x N	1			
200	200	400	350	380	289	Bussman 1400A 170M6417	400	289	680	2	600	450	585	24	1	289	289 x N	1			
250	250	400	437	475	361	Bussman 1400A 170M6417	400	361	850	2	600	560	731	24	1	361	361 x N	1			
300	300	400	524	570	433	Bussman 1400A 170M6417	400	433	1020	2	600	670	877	24	1	433	433 x N	1			
350	350	400	612	665	505	Bussman 1400A 170M6417	400	505	1190	2	600	780	1023	24	1	505	505 x N	1			
400	400	400	699	760	577	Bussman 1400A 170M6417	400	577	1340	2	600	890	1170	24	1	577	577 x N	1			

**Notes:**

1. Rectifier AC input current calculations: Nominal - 100% load with charging; Maximum - 100% load with low input voltage (Rectifier current limit).
2. Inverter AC output current calculation: At 100% rated output load.
3. The system must be installed on a level floor suitable for computer or electronic equipment.
4. All wiring and installations must be in accordance with applicable National and Local Electric Regulations.
5. AC input to UPS: (3) phases, (1) neutral, (1) ground.  
AC output to load: (3) phases, (1) neutral, (1) ground.  
DC input from battery to UPS: (1) positive, (1) negative, (1) ground.
6. All breakers should be adjusted according to the specified Ampere values to protect the UPS and installation.
7. For UPS installation that utilizes single feed input, The input breaker should be configured according to the rated rectifier input current.
8. Cable sizing is based on the standard IEC 60364-5-52 and IEC 60364-5-54. The sizing is for 70°C rated copper cables.
9. Shunt trip voltage can be changed to 48Vdc.
10. The battery current calculations are based on 40 blocks. The unit can be configured with 36-40 battery blocks.
11. Specifications are subject to change.

METRIC		EATON CORPORATION		
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