



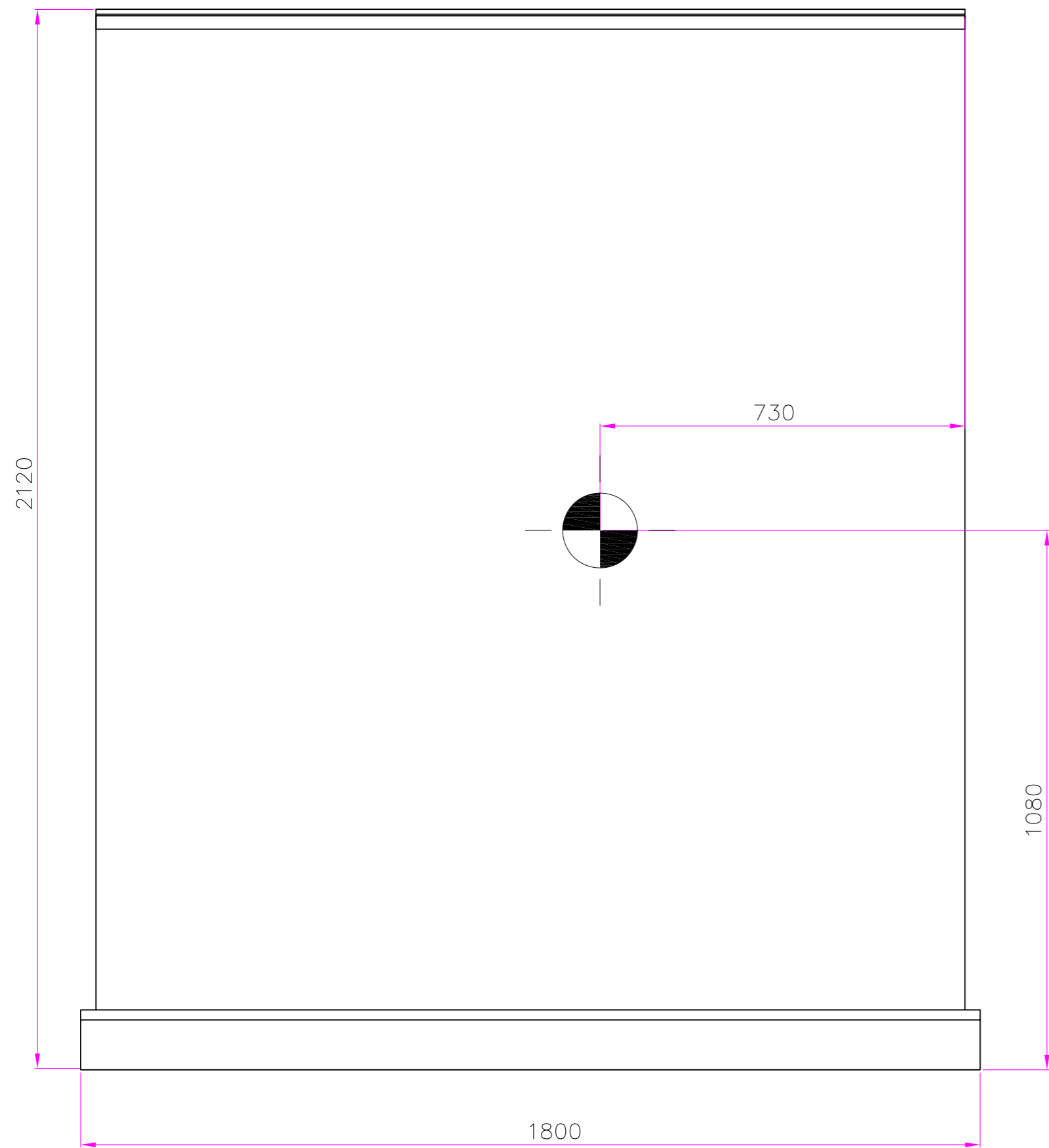
Powering Business Worldwide

SITE PLANNING DATA EATON 93PM 100-500 kVA UPS

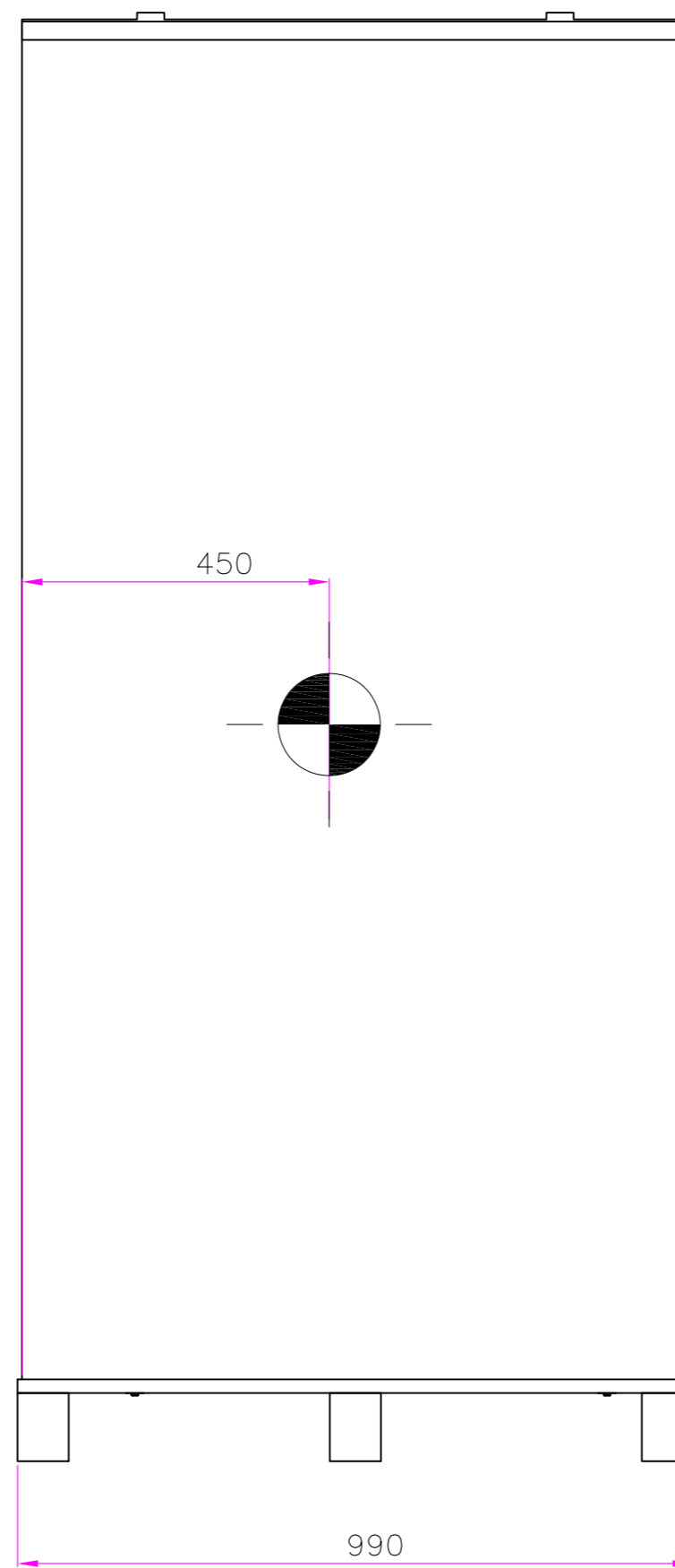
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Page 11	Product Specifications



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 100-500 kVA UPS							
ORIGINATED: E_Kostilainen	18.04.2017	ECO:	NAME:	REVISION:	SIZE: A2		
MODIFIED: Meron .G	30.05.2018	ECO-116278		04	SCALE: 1:1		
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FRONT VIEW



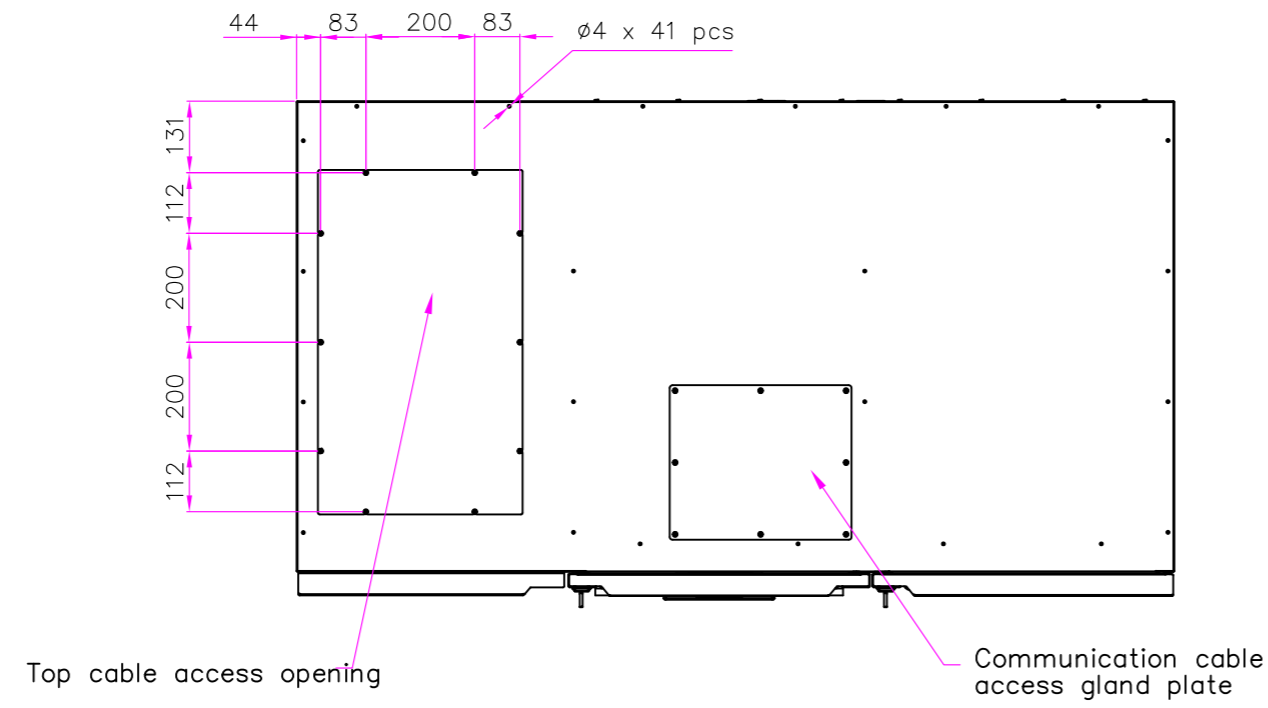
RIGHT VIEW

Product Specifications

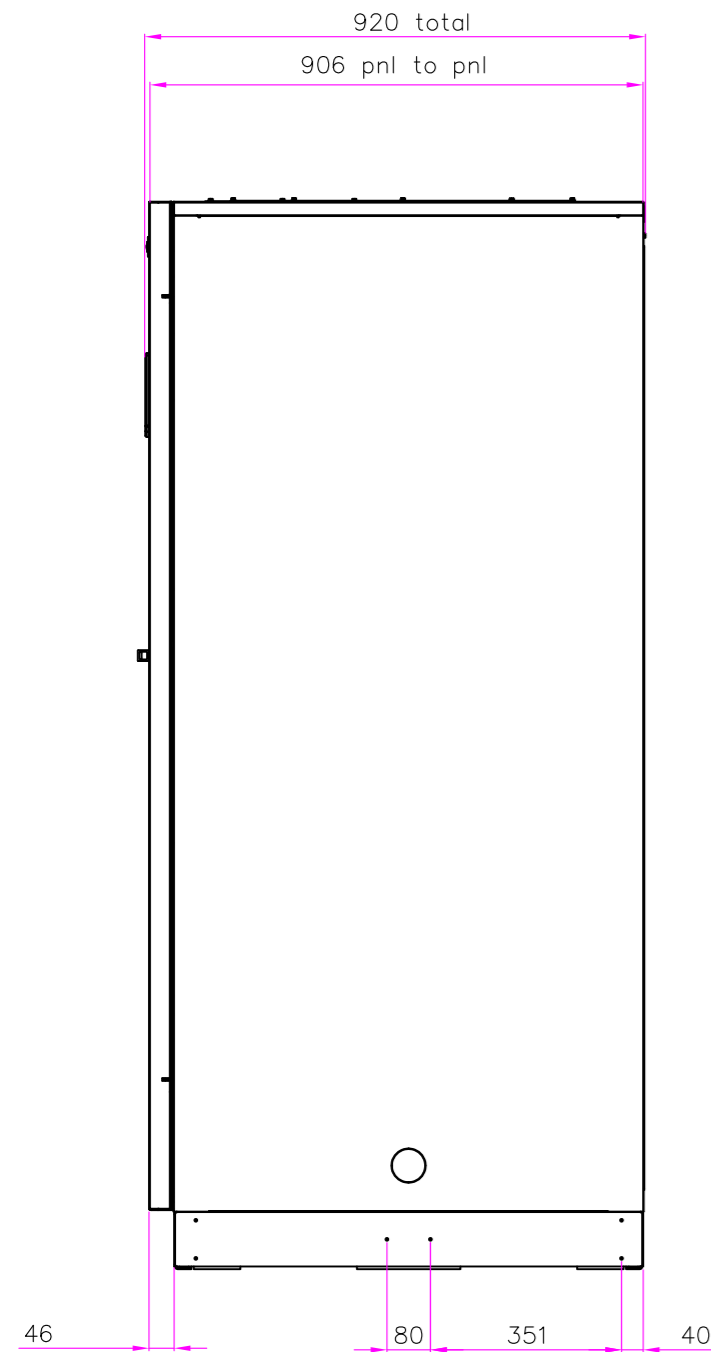
UPS Rating		Shipping Dimensions WXDXH	Approx. Weight ⁶ Shipping
kVA	kW	mm	kg
100	95	1800 x 990 x 2120	720
150	143	1800 x 990 x 2120	785
200	190	1800 x 990 x 2120	850
250	225	1800 x 990 x 2120	915
300	270	1800 x 990 x 2120	980
350	333	1800 x 990 x 2120	1045
400	380	1800 x 990 x 2120	1110
450	428	1800 x 990 x 2120	1045
500	450	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 100-500 kVA UPS Packaging Dimensions				
ORIGINATED: E_Kostilainen	18.04.2017	ECO: ECO-116278	NAME: P-110000546	REVISION: 04
MODIFIED: Atif .R	02.01.2018	DOCUMENT TYPE: AUTOCAD DRAWING	STATE: RELEASED	SCALE: 1:10
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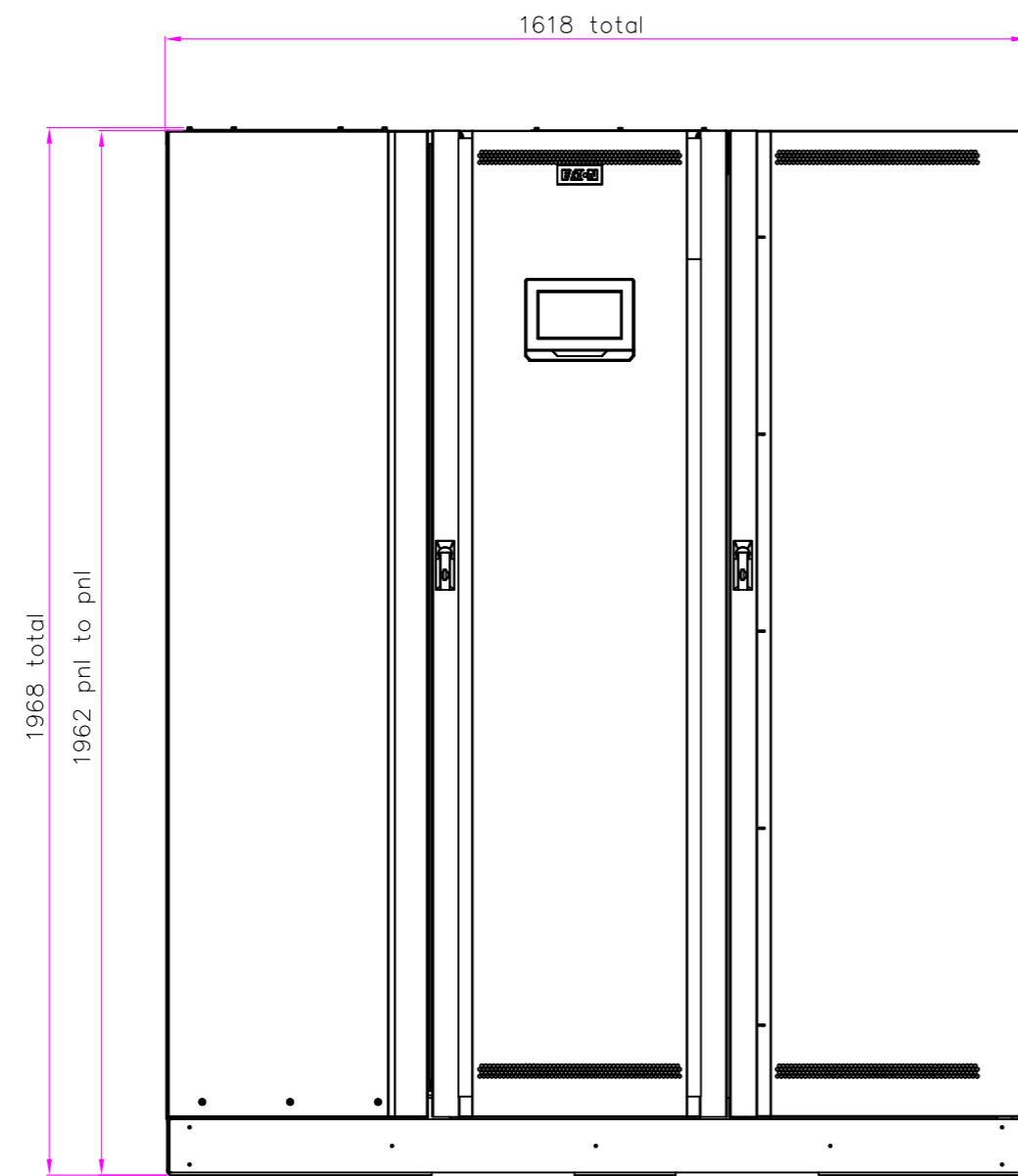
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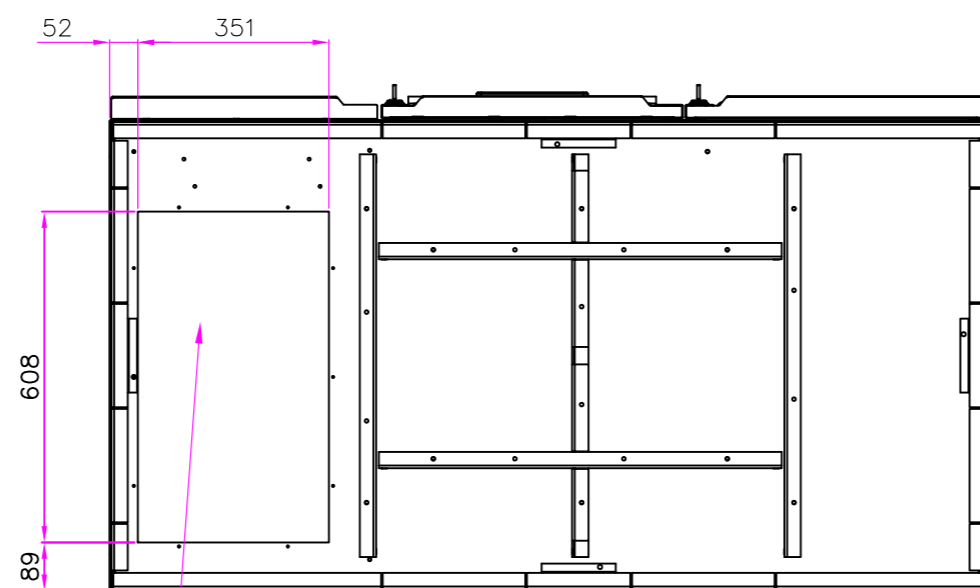
TOP VIEW



SIDE VIEW



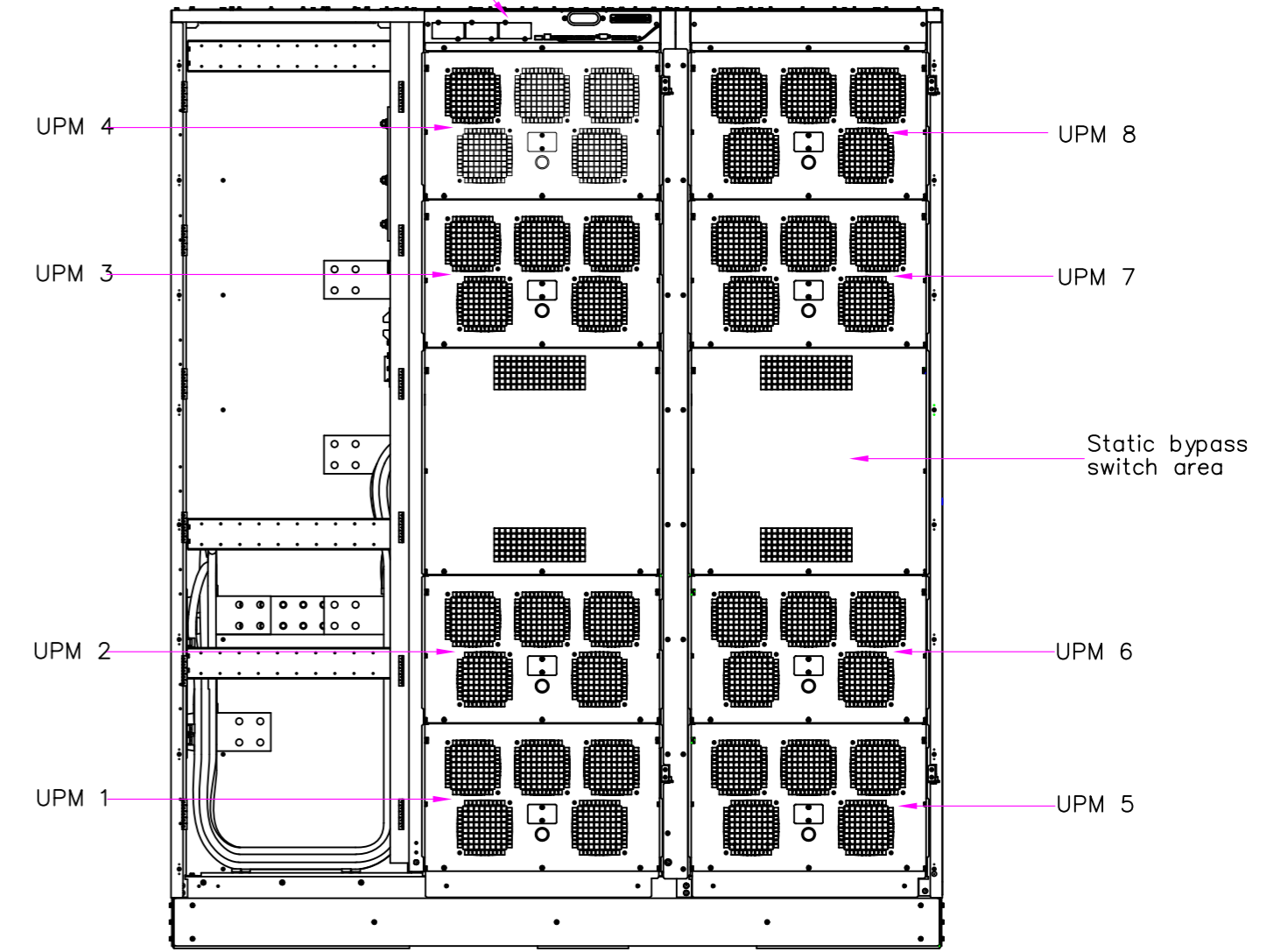
FRONT VIEW



BOTTOM VIEW

Bottom cable access opening

Communication area
See detail D, page 6



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: 0-35 °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 ⁶ Installed	Floor Loading ⁶	Cooling Air
kVA	kW	kW	mm	kg	kg/m ²	l/s
100	95	3,7	1618 x 920 x 1968	680	493	334
150	143	5,5	1618 x 920 x 1968	745	540	501
200	190	7,3	1618 x 920 x 1968	810	587	668
250	225	8,6	1618 x 920 x 1968	810	587	668
300	270	10,4	1618 x 920 x 1968	875	635	835
350	333	12,8	1618 x 920 x 1968	940	682	1002
400	380	14,6	1618 x 920 x 1968	1005	729	1169
450	428	16,4	1618 x 920 x 1968	1070	776	1336
500	450	17,3	1618 x 920 x 1968	1070	776	1336

METRIC THIRD ANGLE PROJECTION

EATON CORPORATION

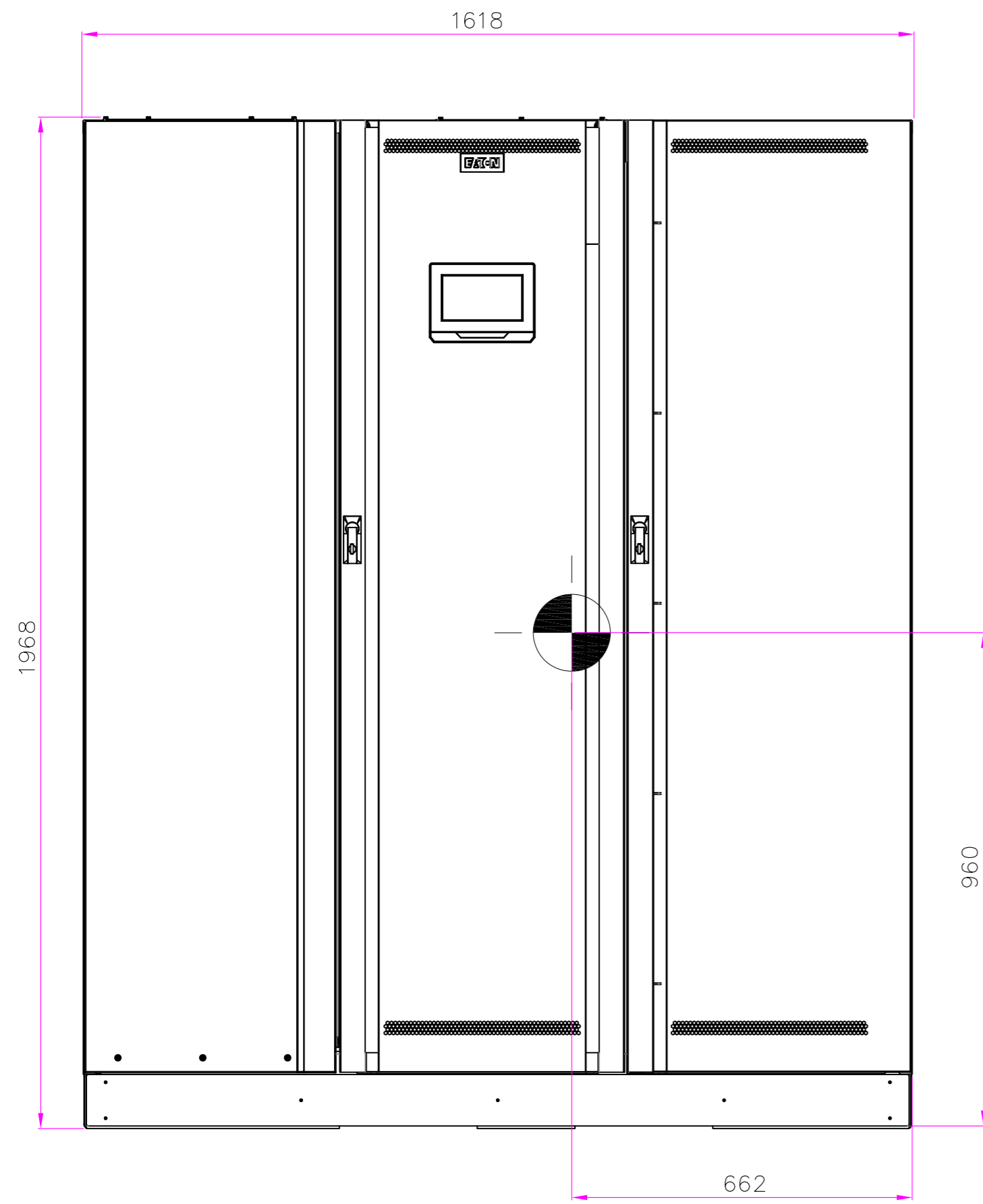


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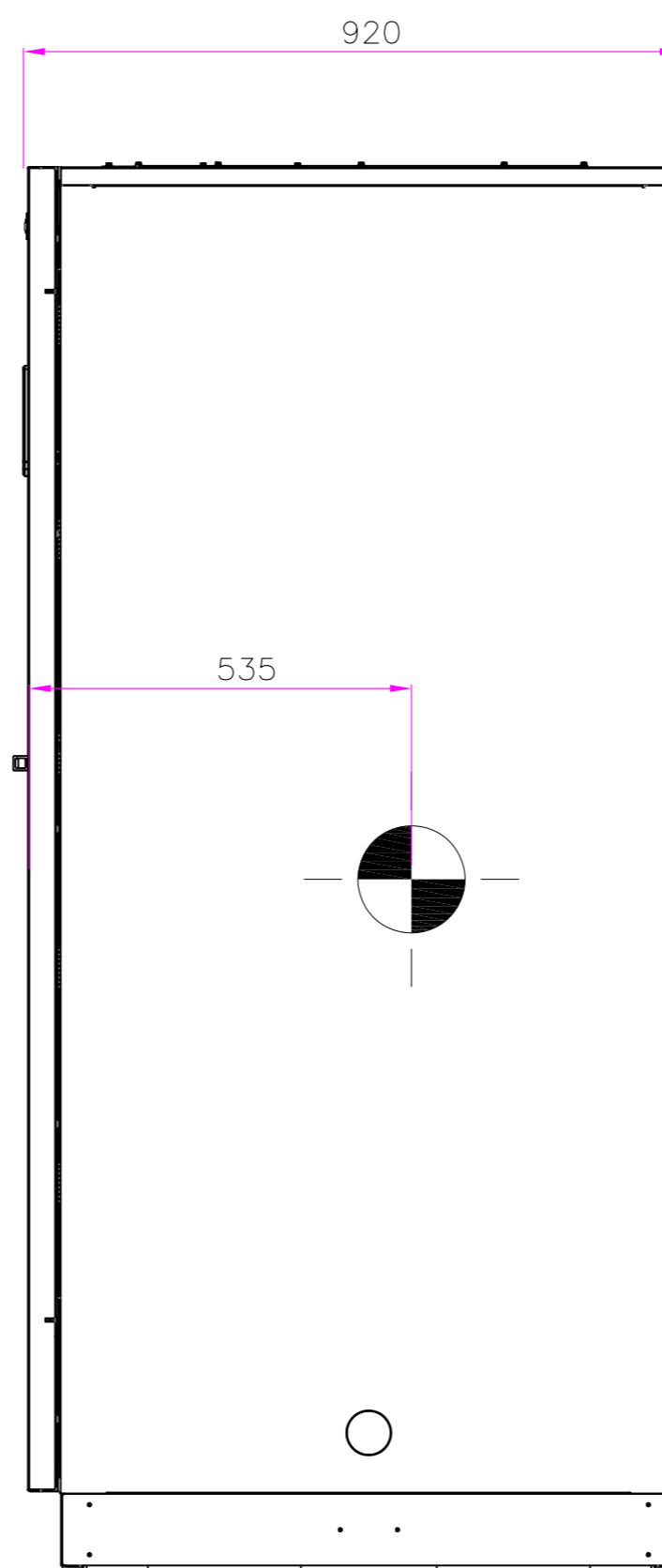
DESCRIPTION: Eaton 93PM 100-500 kVA UPS Dimensional drawings

ORIGINATED: E_Kostilainen	18.04.2017	ECO: ECO-116278	NAME: P-110000546	REVISION: 04	SIZE: A2
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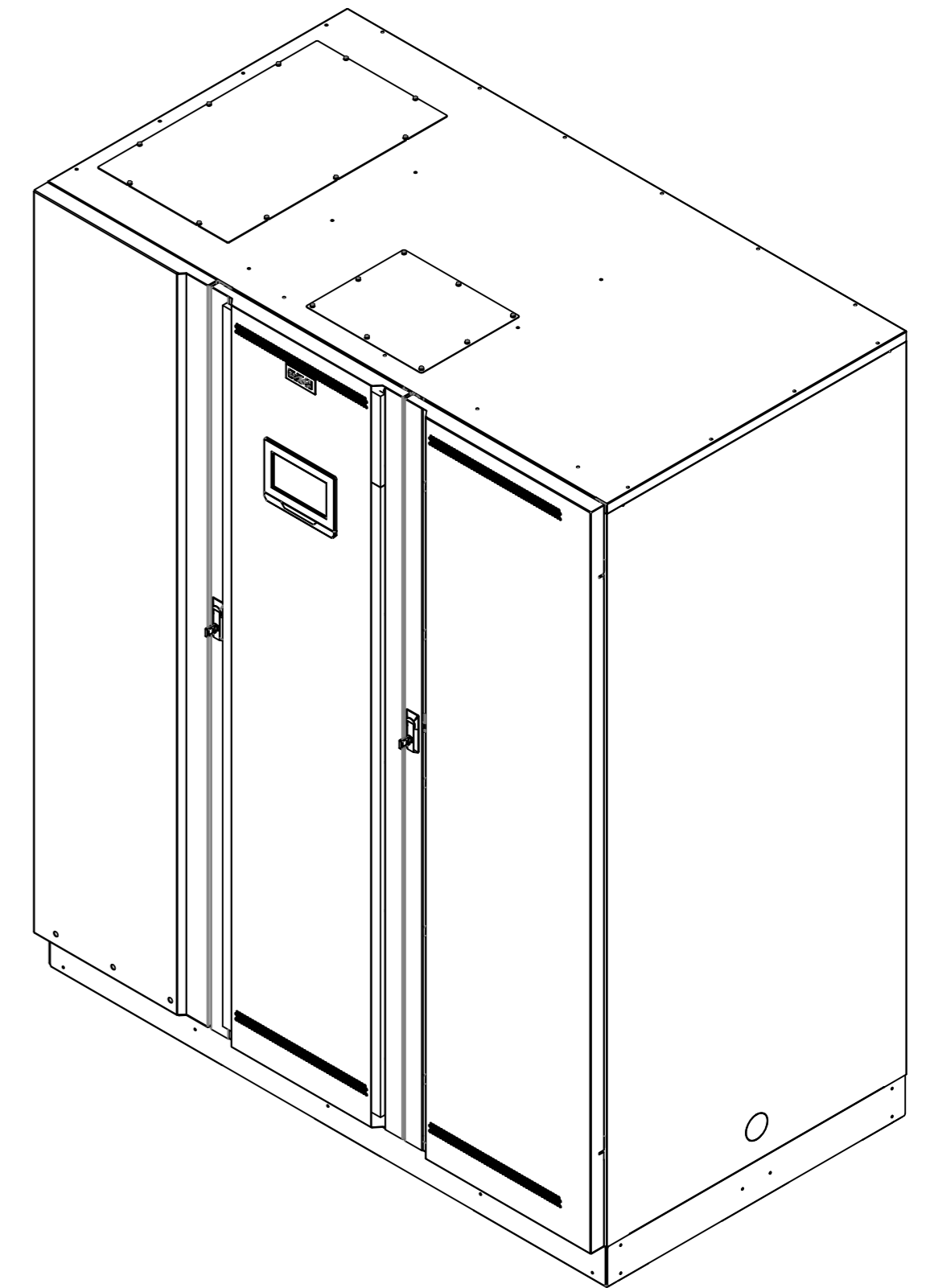
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FRONT VIEW



RIGHT VIEW



Notes:

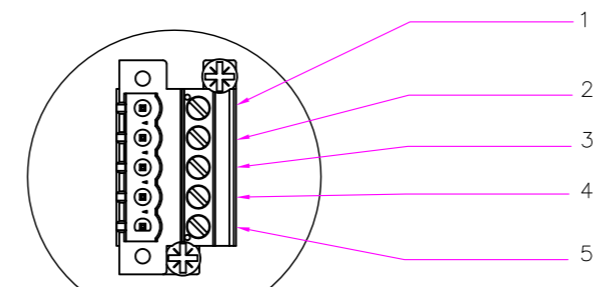
- The COG dimensions for the cabinet are approximated values without batteries and air exhaust kit installation.

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)

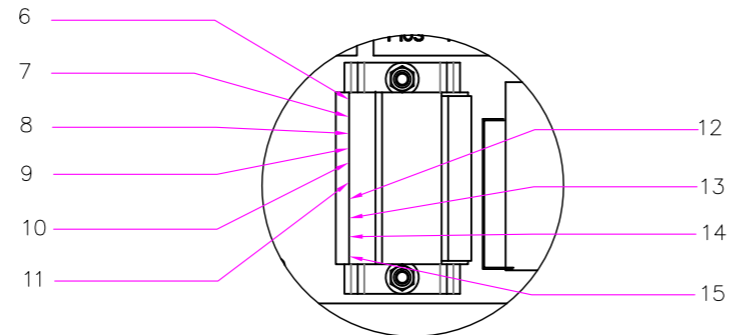
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DIMENSIONS ARE IN MILLIMETERS AFTER PLATING, DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5M-1994. SEE NOTES FOR TOLERANCES.							
DESCRIPTION: Eaton 93PM 100-500 kVA UPS COG And Clearance Dimensions							
ORIGINATED: E_Kostilainen	18.04.2017	ECO:	ECO-116278	NAME:	P-110000546	REVISION:	04
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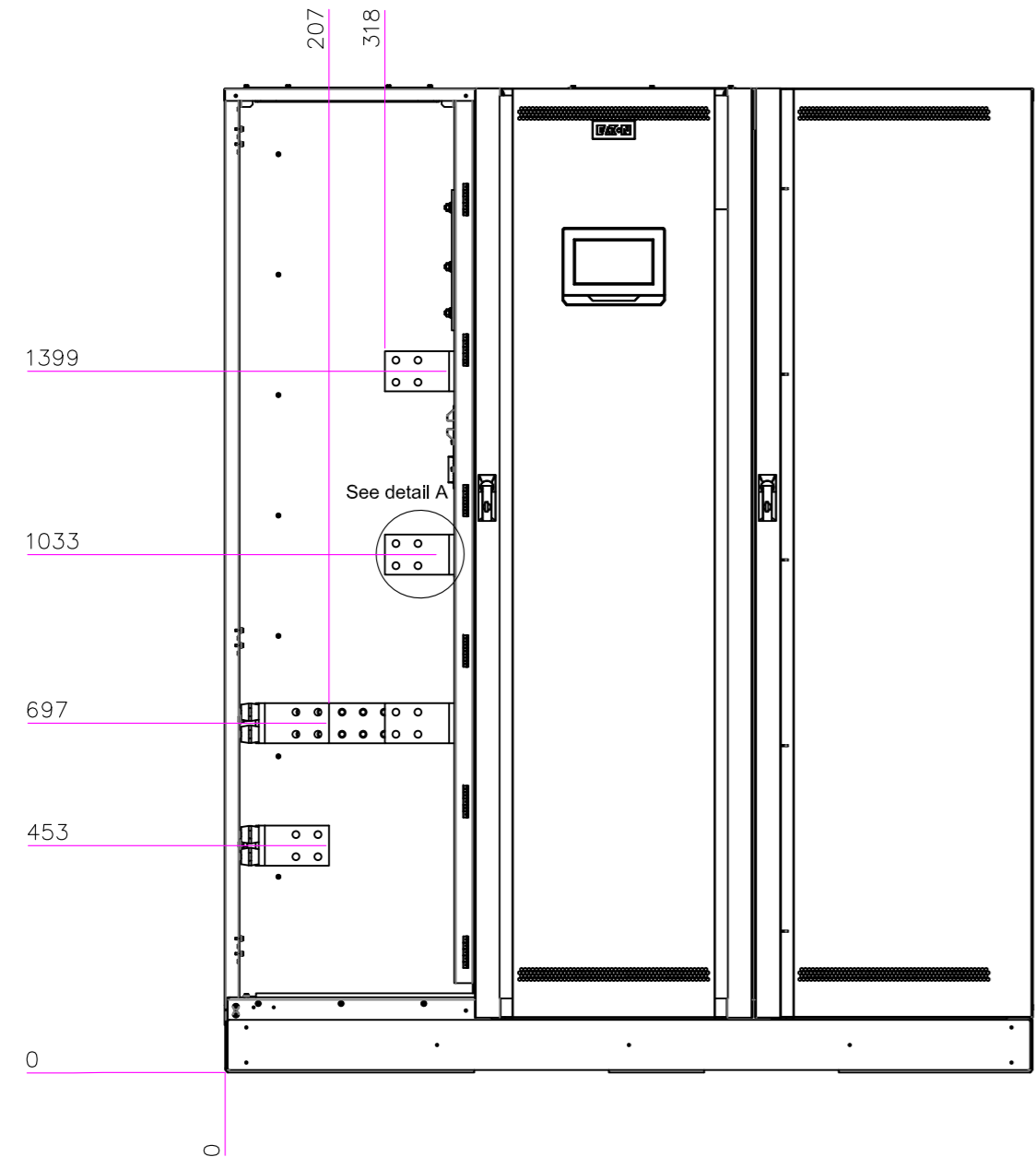
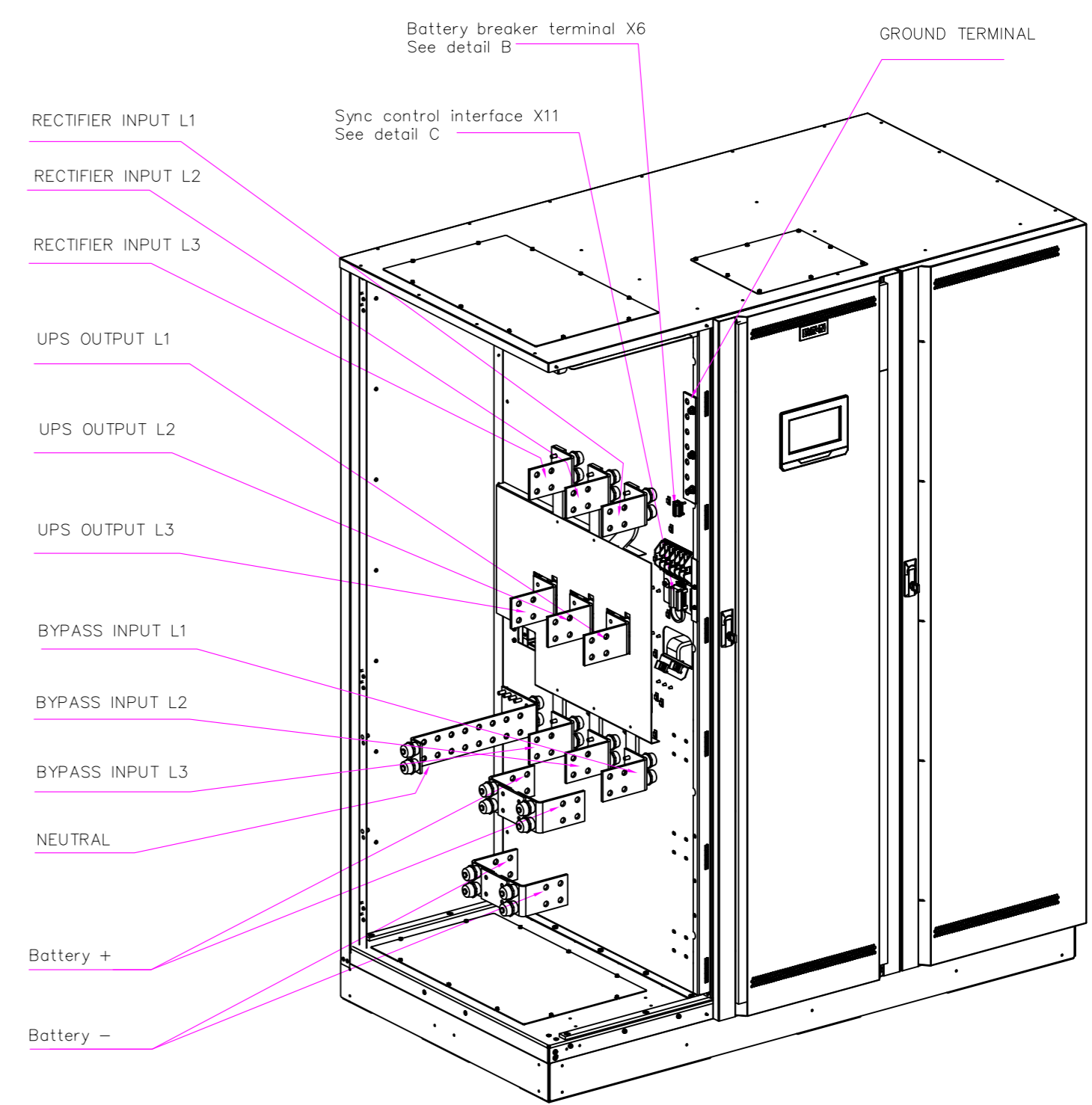
X6 Battery breaker terminal (detail B)	
1.	Shunt trip
2.	Shunt trip return
3.	Not used
4.	Status signal
5.	Status signal return
X11 Sync Control interface (detail C)	
6.	BYPASS L1
7.	BYPASS L2
8.	BYPASS L3
9.	OUT L1
10.	OUT L2
11.	OUT L3
12.	Not used
13.	SYNC L1
14.	SYNC L2
15.	SYNC L3



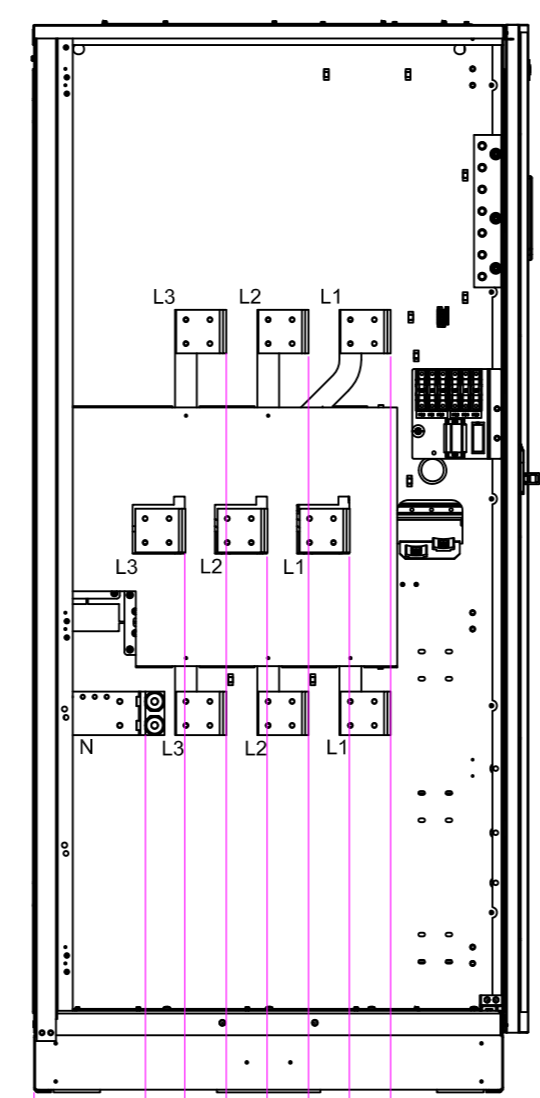
DETAIL B



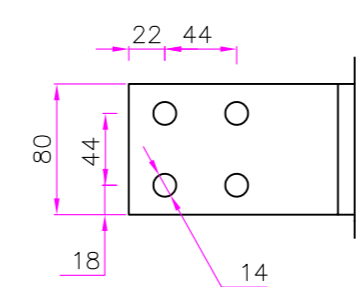
DETAIL C



FRONT VIEW



SIDE VIEW



DETAIL A

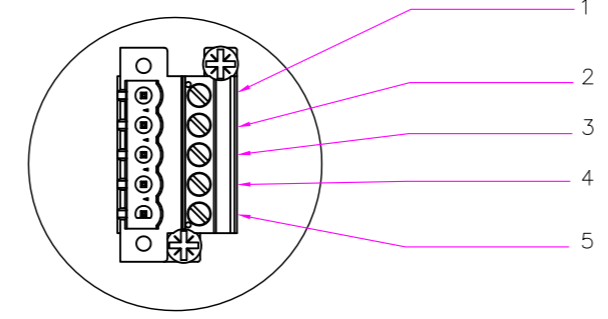
Notes:

- 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.

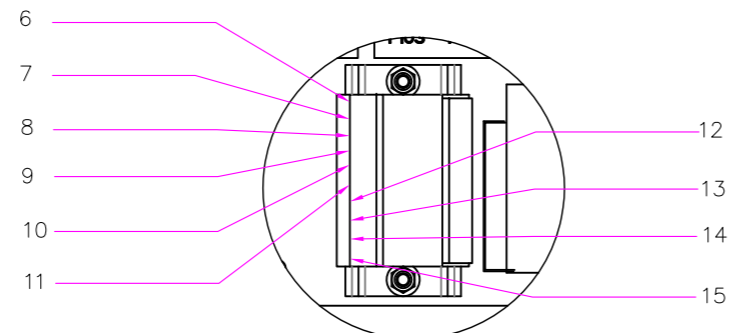
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ORIGINATED: E_Kostilainen	18.04.2017	ECO:	ECO-116278	NAME:	P-110000546
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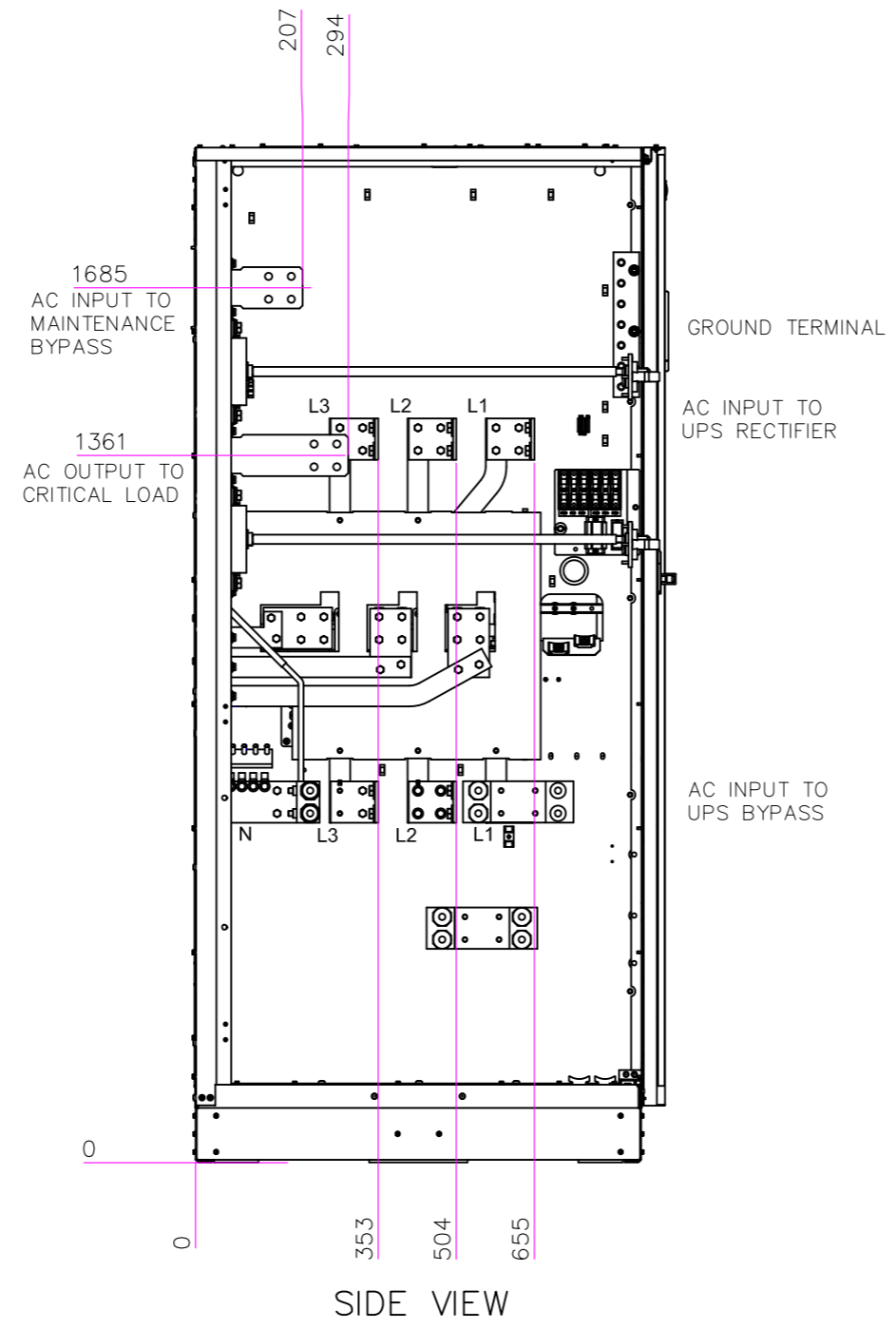
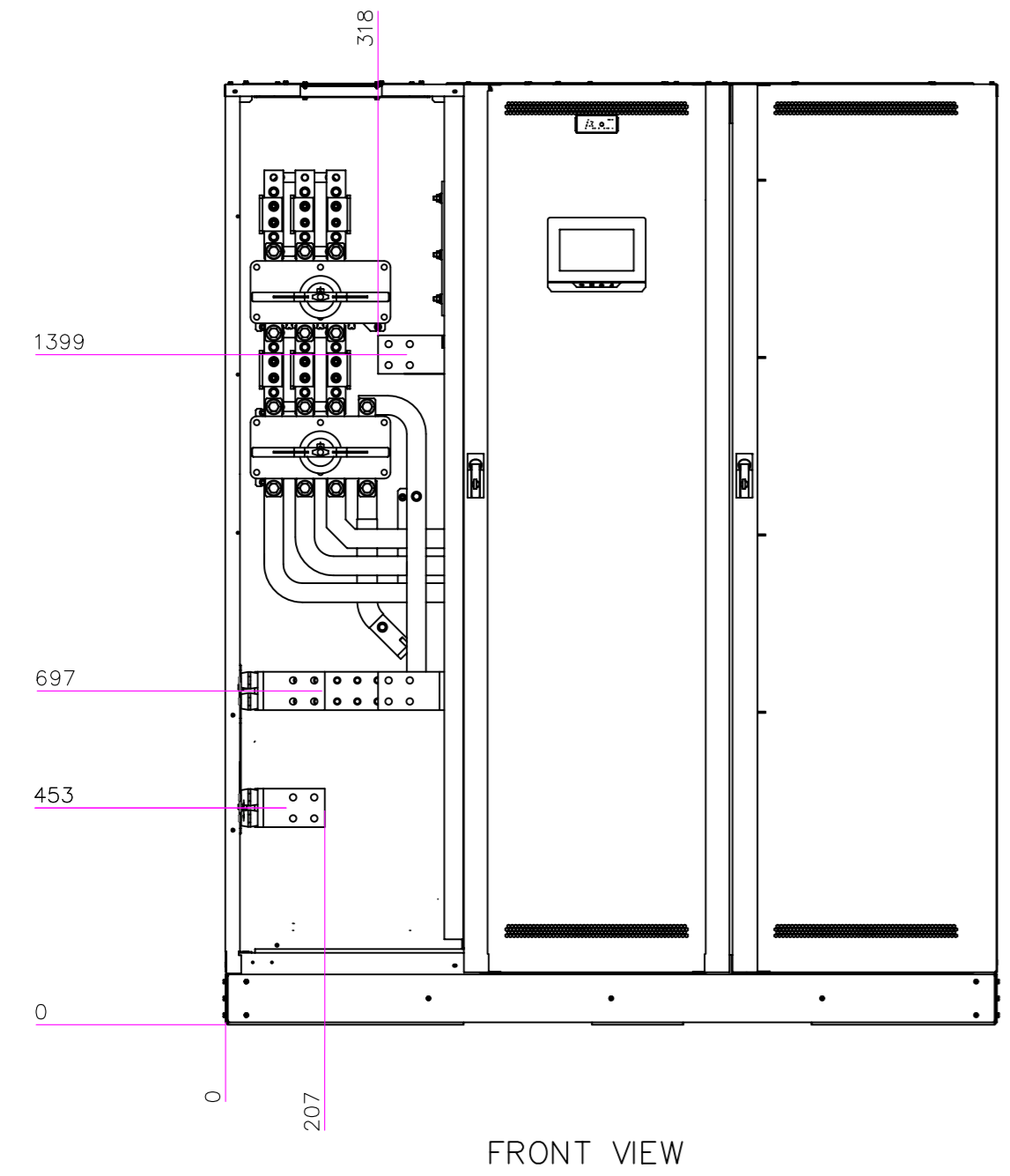
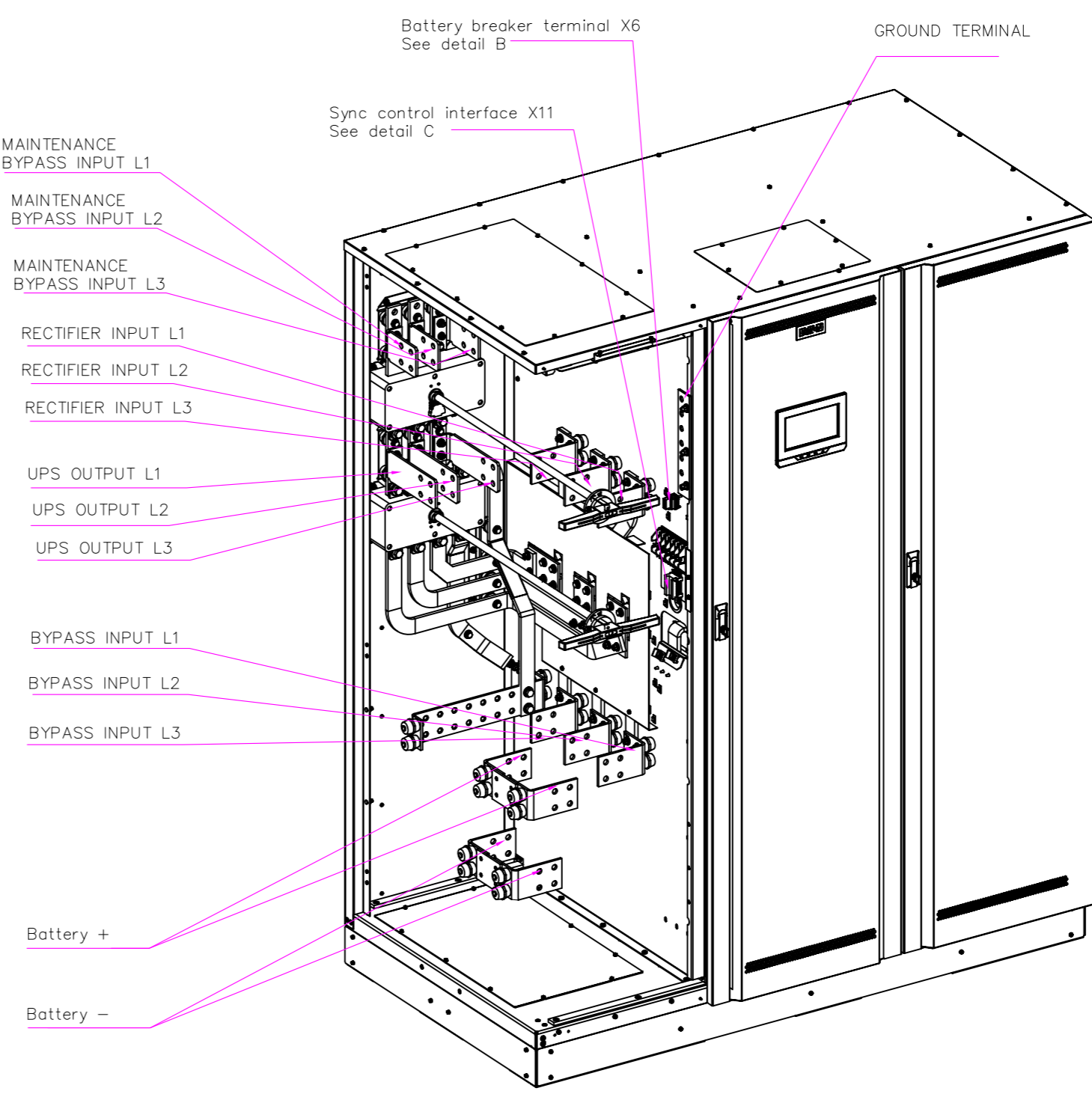
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3.	Not used
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7.	BYPASS L2
8.	BYPASS L3
9.	OUT L1
10.	OUT L2
11.	OUT L3
12.	Not used
13.	SYNC L1
14.	SYNC L2
15.	SYNC L3



DETAIL B



DETAIL C

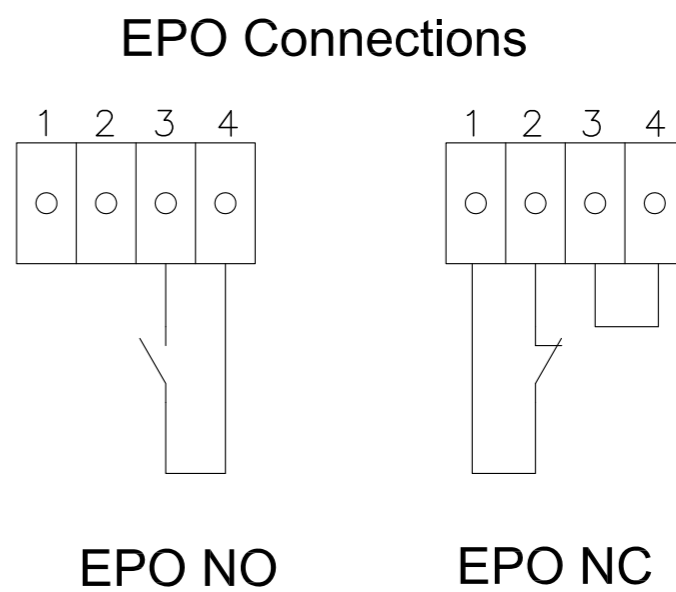
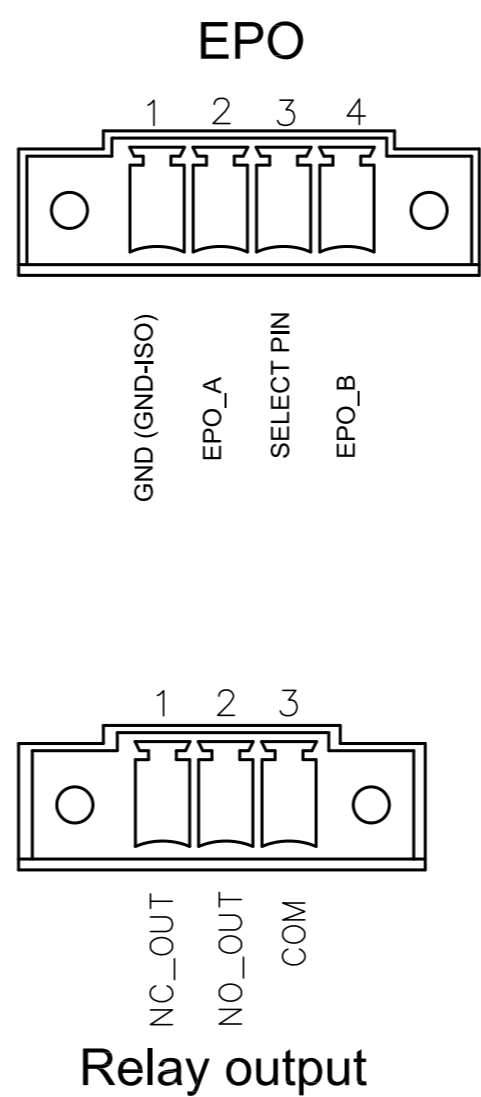
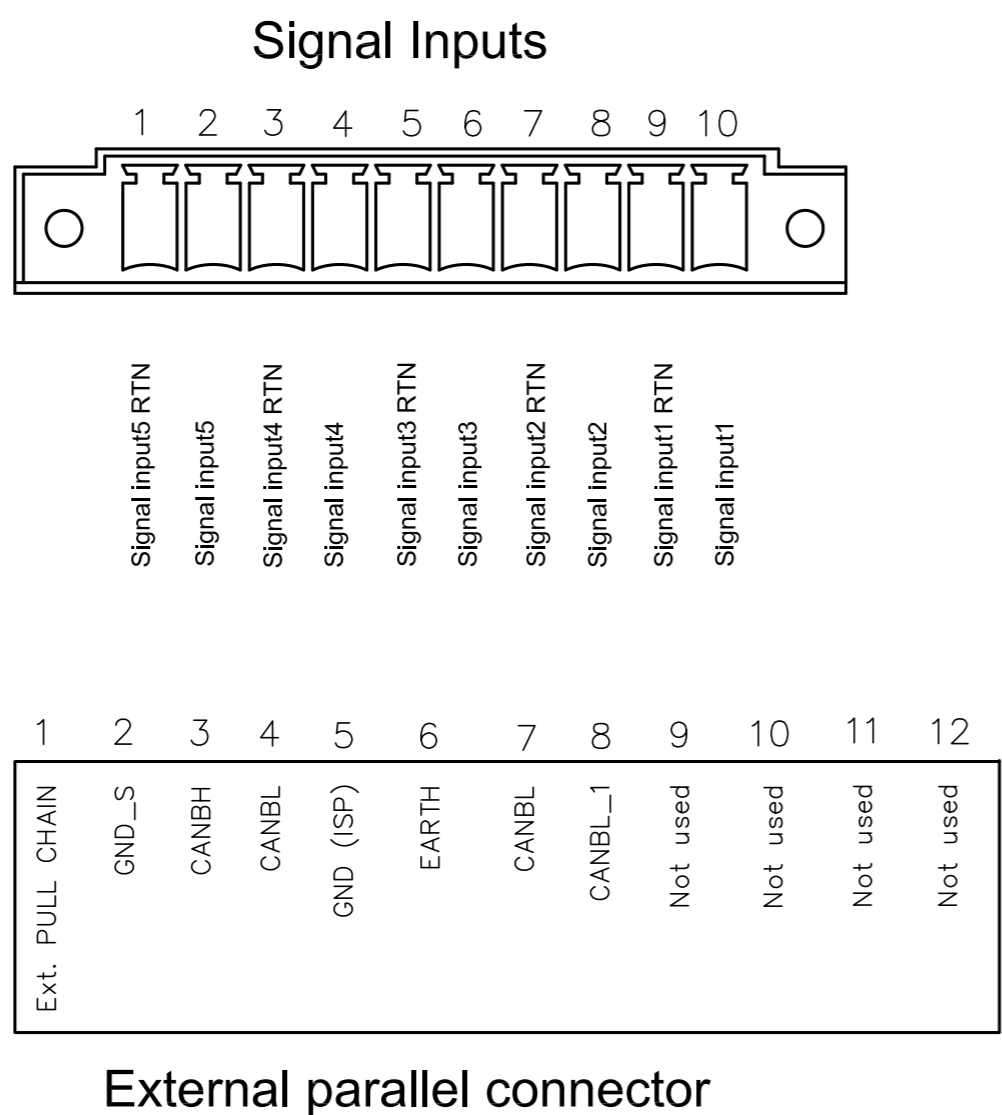
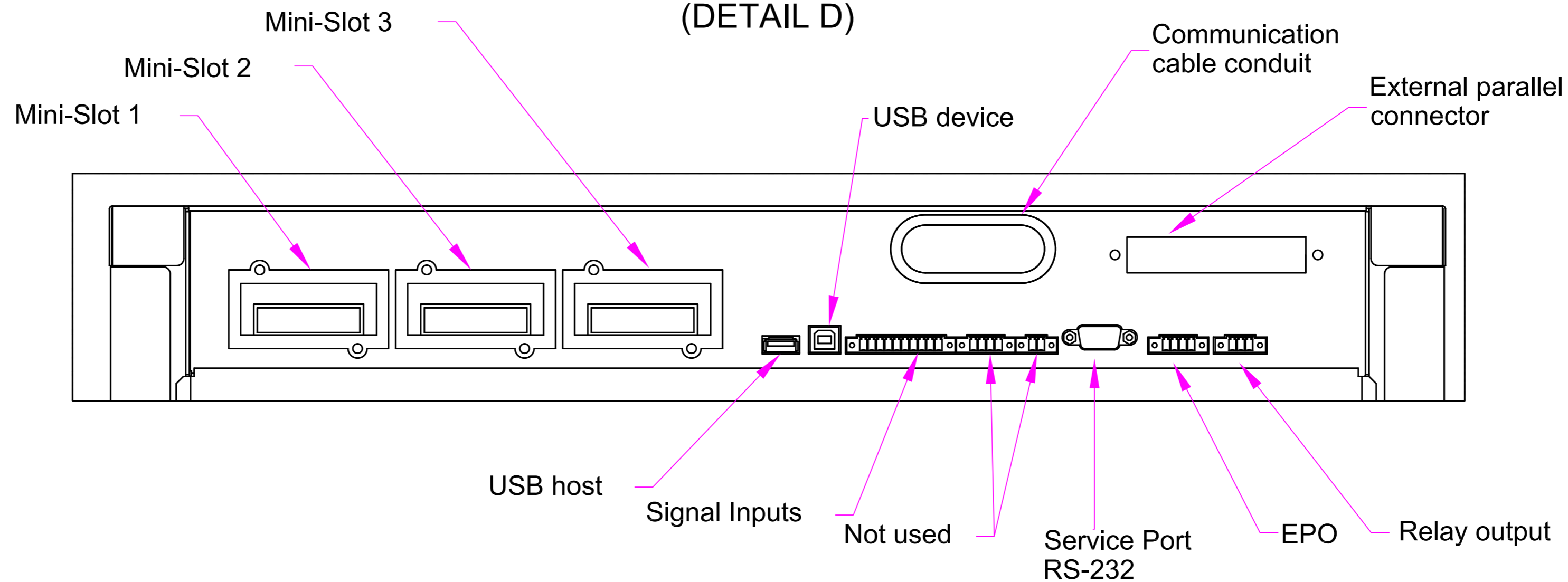


Notes:

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

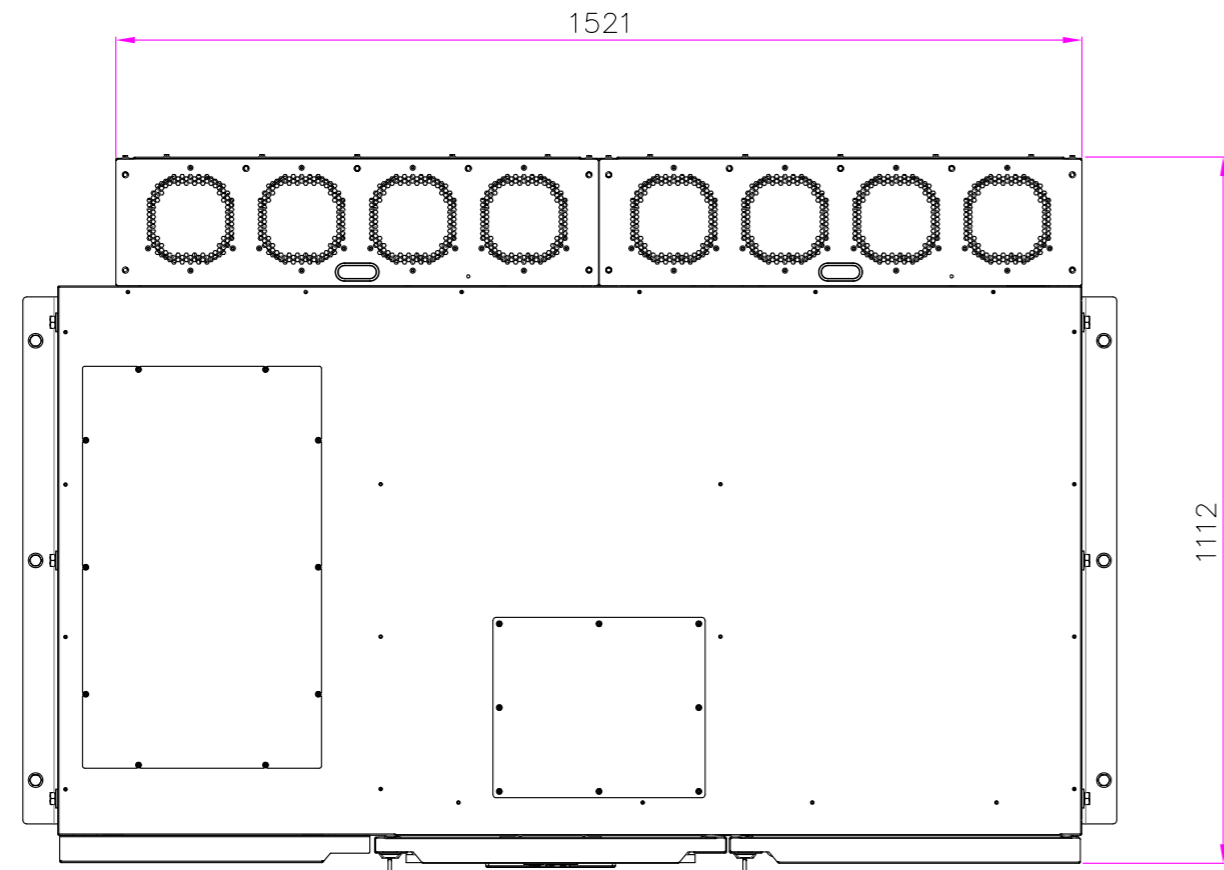
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DESCRIPTION: Eaton 93PM 100-500 kVA UPS Customer Connections with MBS							
ORIGINATED: E_Kostilainen	18.04.2017	ECO:	ECO-116278	NAME:	P-110000546		
MODIFIED: Meron.G	30.05.2018	CHECKED:		SAFETY:	RELEASED	STATE:	RELEASED
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COMMUNICATION AREA (DETAIL D)

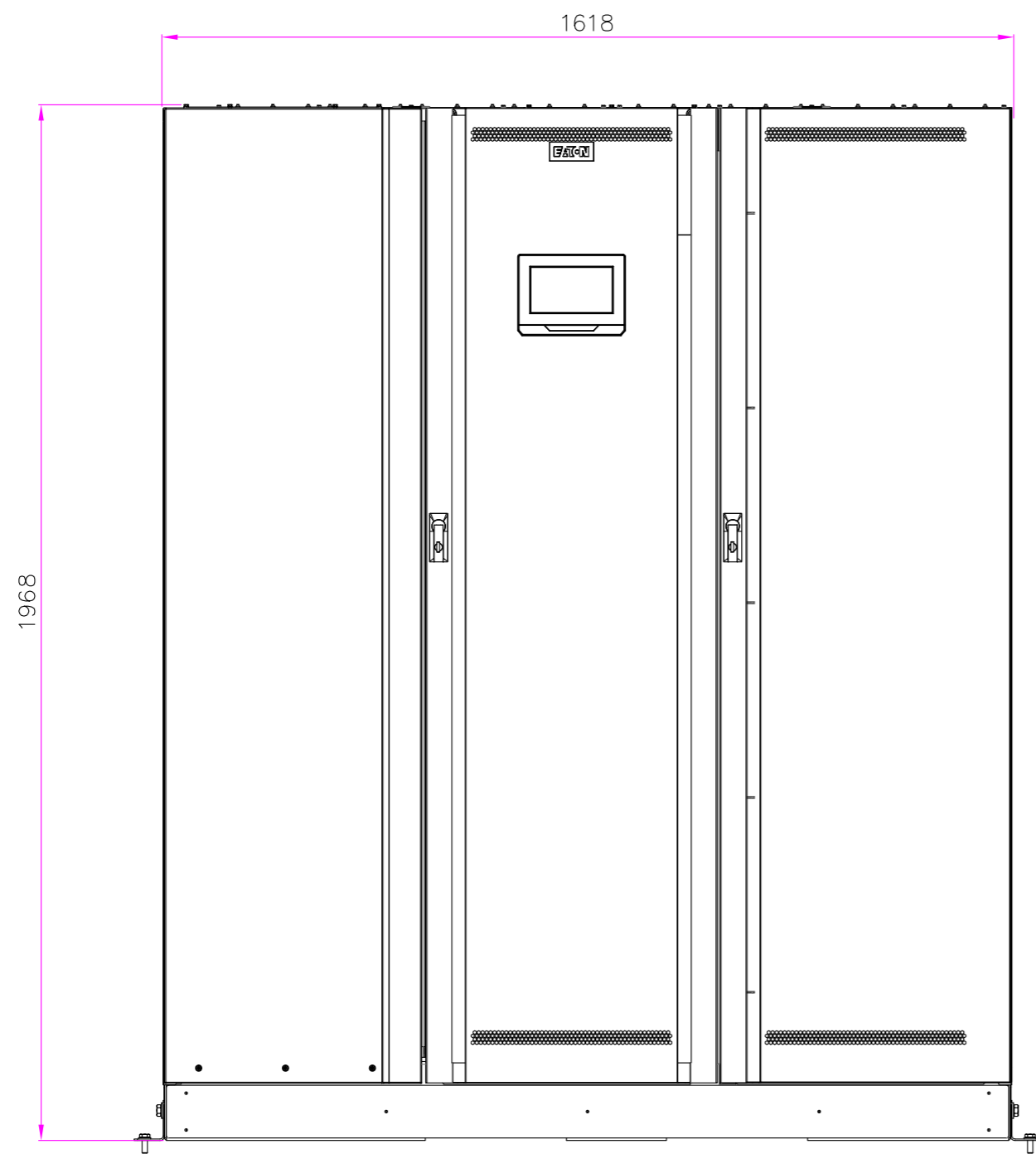


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DESCRIPTION: Eaton 93PM 100-500 kVA UPS Customer Connections Detail View				
ORIGINATED: Atif Rasheed	18.04.2017	ECO:	NAME:	REVISION:
MODIFIED: Atif.R	02.01.2018	ECO-116278		04
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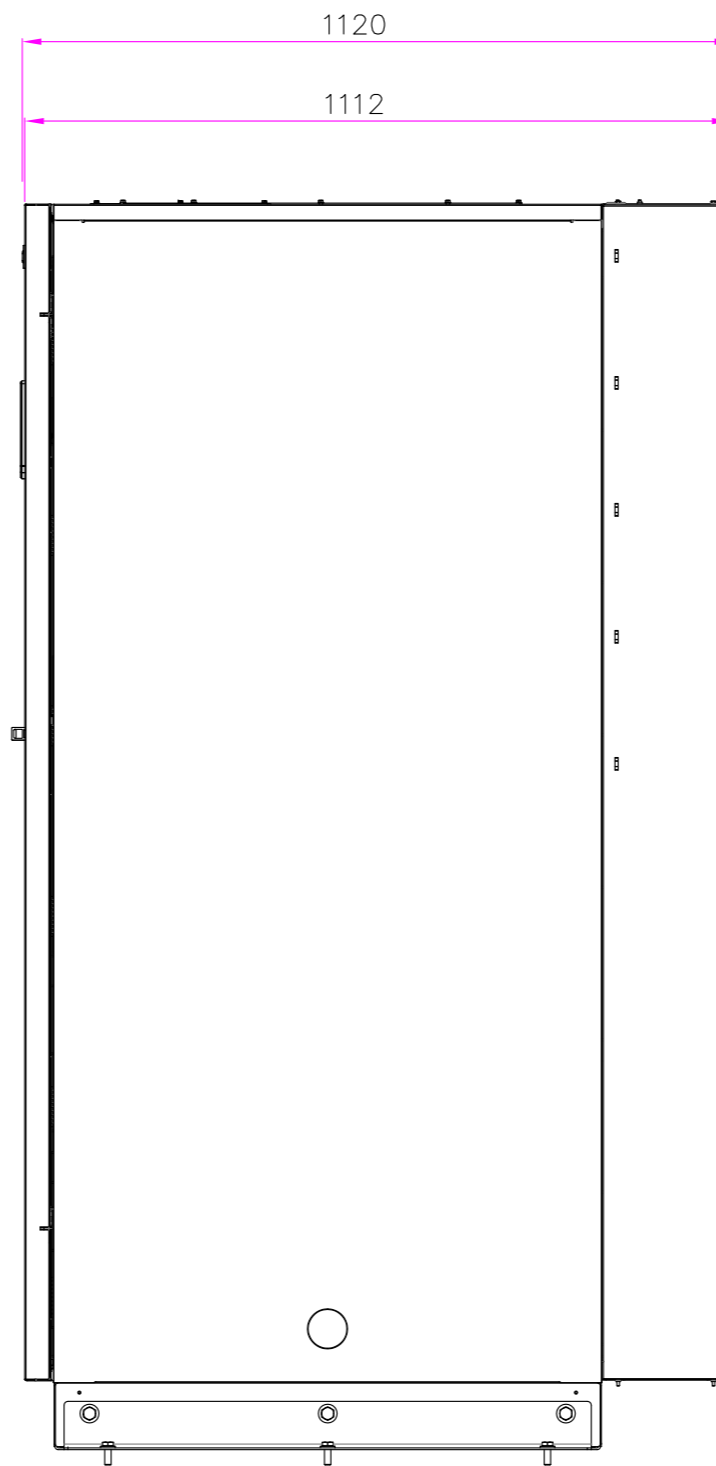
OPTIONAL TOP AIR EXHAUST KIT(FACTORY CONFIGURED)



TOP VIEW



FRONT VIEW



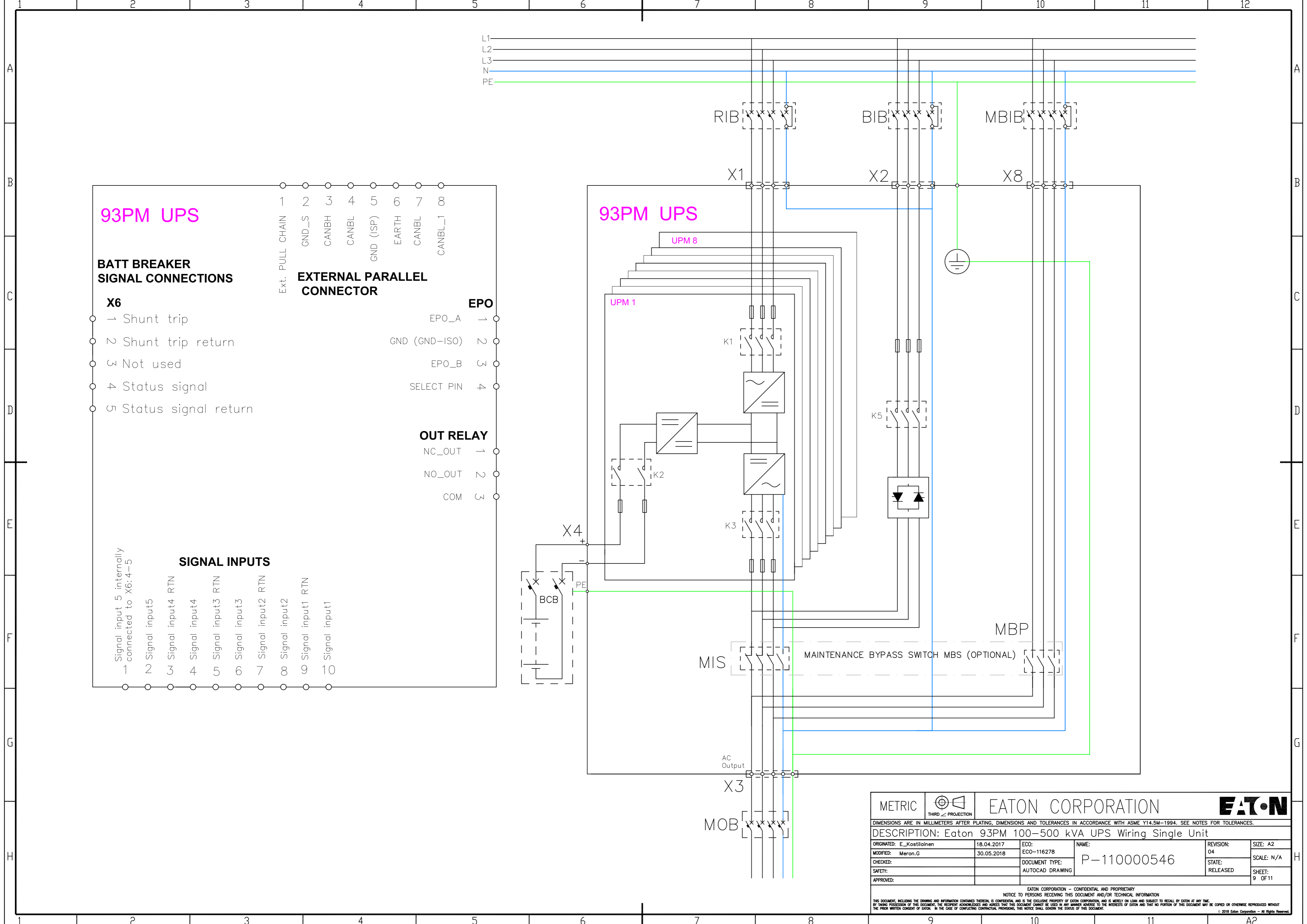
RIGHT VIEW

Notes:

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

METRIC		THIRD ANGLE PROJECTION		EATON CORPORATION		EATON	
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DESCRIPTION: Eaton 93PM 100-500 kVA UPS Top exhaust air kit							
ORIGINATED: E_Kostilainen	18.04.2017	ECO:	ECO-116278	NAME:	P-110000546	REVISION:	04
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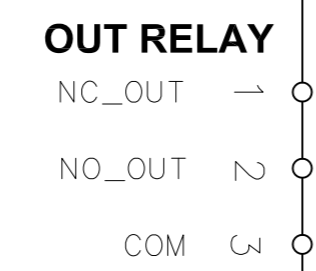
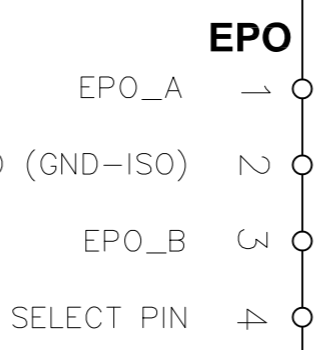
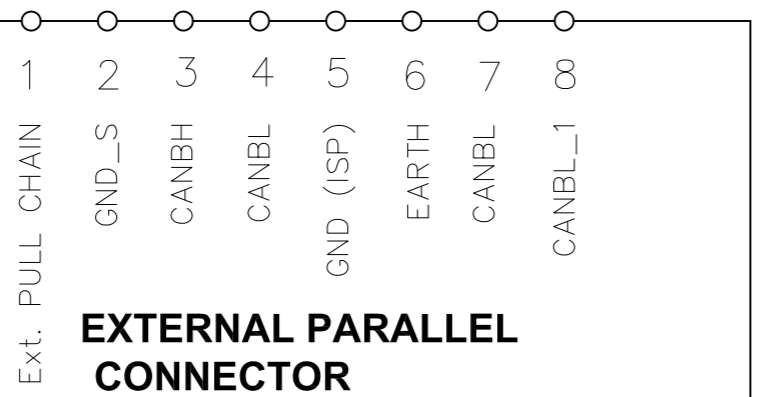
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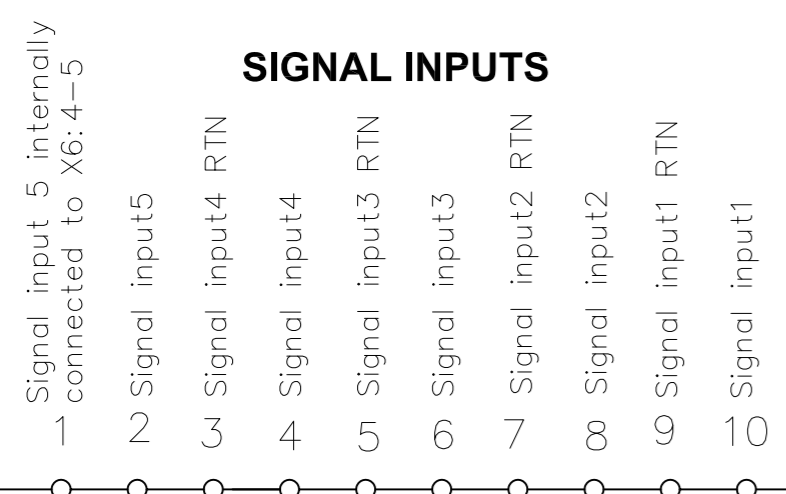
93PM UPS

BATT BREAKER SIGNAL CONNECTIONS

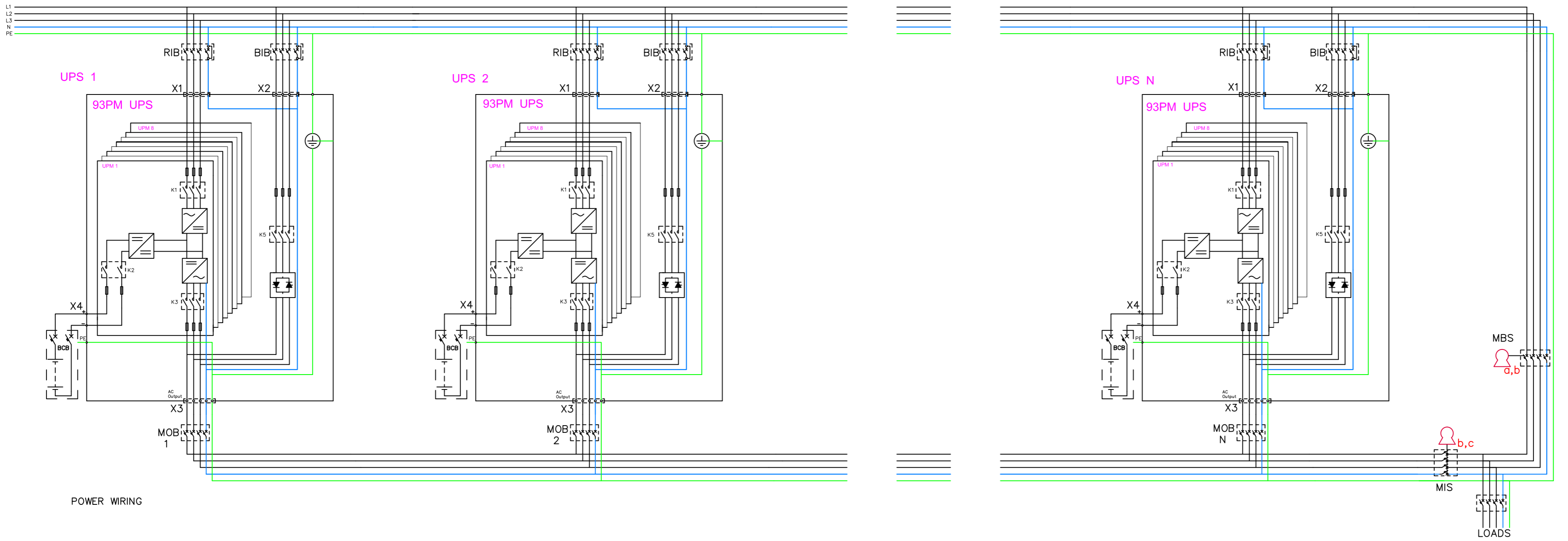
- X6**
- Shunt trip
 - ↺ Shunt trip return
 - ↻ Not used
 - Status signal
 - ↻ Status signal return



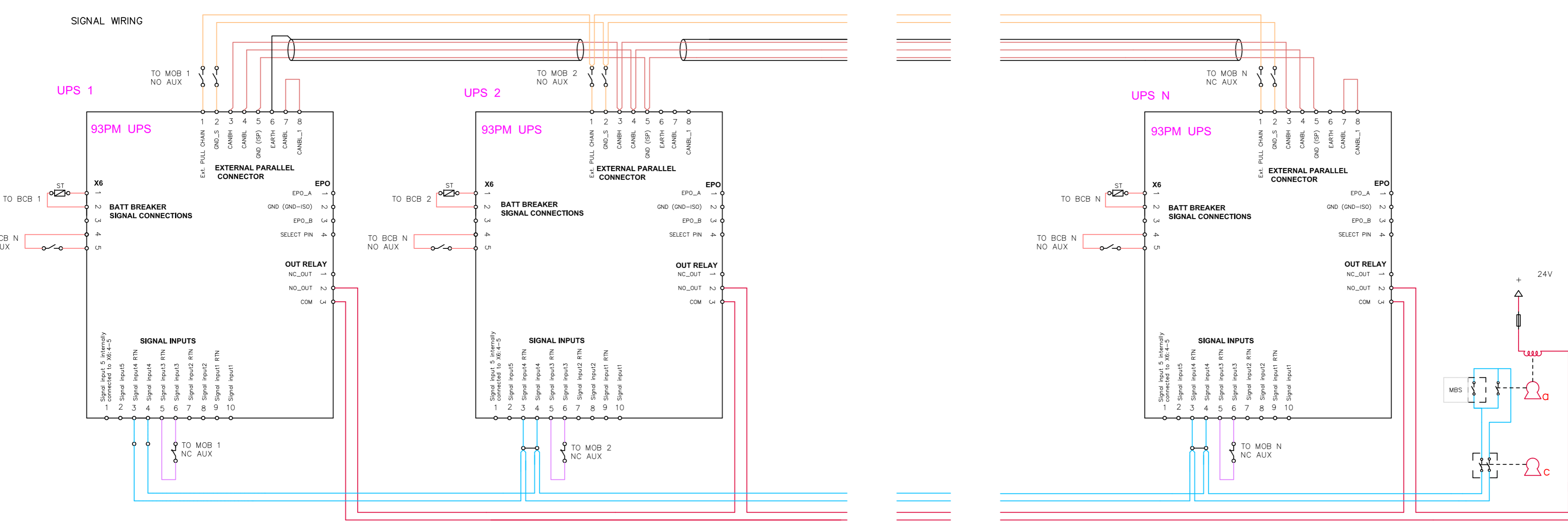
SIGNAL INPUTS



METRIC		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 100-500 kVA UPS Wiring Single Unit					
ORIGINATED: E_Kostilainen	18.04.2017	ECO:	NAME:	REVISION:	SIZE: A2
MODIFIED: Meron.G	30.05.2018	ECO-116278		04	SCALE: N/A
CHECKED:		DOCUMENT TYPE:	P-110000546		SHEET:
SAFETY:		AUTOCAD DRAWING		RELEASED	9 OF 11
APPROVED:					
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POWER WIRING



SIGNAL WIRING

<p>MBS STATUS (Provided by others, Installed by others) Twisted pair (If possible, else shielded) No earth needed</p> <p>MOB STATUS (Provided by others, Installed by others) Twisted pair (If possible, else shielded) No earth needed</p> <p>PCAN (DUAL AS OPTION) Provided by Eaton, Installed by Eaton</p>	<p>PULL CHAIN (REDUNDANT ON BYP STATUS) Provided by Eaton, Installed by Eaton</p> <p>ON BYPASS STATUS (NO INVERTORS ONLINE) Provided by others, Installed by others</p>	<p>Mechanical bypass interlocking sequence</p> <ol style="list-style-type: none"> Place UPS system to bypass. On bypass status (K3) will energize Key A solenoid to release it Removing key A will switch on "force bypass" to the UPS system Place key A to MBS breaker and close breaker. Key B will be released. Aux contact of MBS will keep "force bypass" on UPS system Place key B to MIS breaker and open MIS to isolate UPS system from load. Key C will be released Place key C to it's dedicated keyhole to release "force bypass" command to allow UPS system testing
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DESCRIPTION: Eaton 93PM 100-500 kVA UPS Wiring Parallel Units					
<small>ORIGINATED:</small> E_Kostilainen <small>MODIFIED:</small> Atif.R <small>CHECKED:</small> <small>SAFETY:</small> <small>APPROVED:</small>	<small>18.04.2017</small> <small>02.01.2018</small> 	<small>ECO:</small> ECO-116278 <small>DOCUMENT TYPE:</small> AUTOCAD DRAWING	<small>NAME:</small> P-110000546	<small>REVISION:</small> 04 <small>STATE:</small> RELEASED	<small>SIZE:</small> A2 <small>SCALE:</small> N/A <small>SHEET:</small> 10 OF 11
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Eaton 93PM 100-500 kVA 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
kVA	kW	V	A	A	A	Type	V	A	A / 400ms	Qty	VDC	A	A	VDC	Qty	A	A	Qty	
100	95	400	161	170	144	Bussman 1400A 170M6417	400	144	340	2	600	220	252	24	1	144	144 x N	1	
150	143	400	241	260	217	Bussman 1400A 170M6417	400	217	510	2	600	320	380	24	1	217	217 x N	1	
200	190	400	322	350	289	Bussman 1400A 170M6417	400	289	680	2	600	430	504	24	1	289	289 x N	1	
250	225	400	367	400	361	Bussman 1400A 170M6417	400	361	680	2	600	500	597	24	1	361	361 x N	1	
300	270	400	441	500	433	Bussman 1400A 170M6417	400	433	850	2	600	600	717	24	1	433	433 x N	1	
350	333	400	554	600	505	Bussman 1400A 170M6417	400	505	1020	2	600	740	884	24	1	505	505 x N	1	
400	380	400	636	700	577	Bussman 1400A 170M6417	400	577	1190	2	600	850	1009	24	1	577	577 x N	1	
450	428	400	715	800	650	Bussman 1400A 170M6417	400	650	1360	2	600	950	1136	24	1	650	650 x N	1	
500	450	400	734	800	722	Bussman 1400A 170M6417	400	722	1360	2	600	1000	1194	24	1	722	722 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. Specifications are subject to change.

METRIC		EATON CORPORATION		
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DESCRIPTION: Eaton 93PM 100-500 kVA UPS Specifications				
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