



SITE PLANNING DATA EATON 93PM G2 50-360kVA 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 G2 50-360kVA UPS site planning data

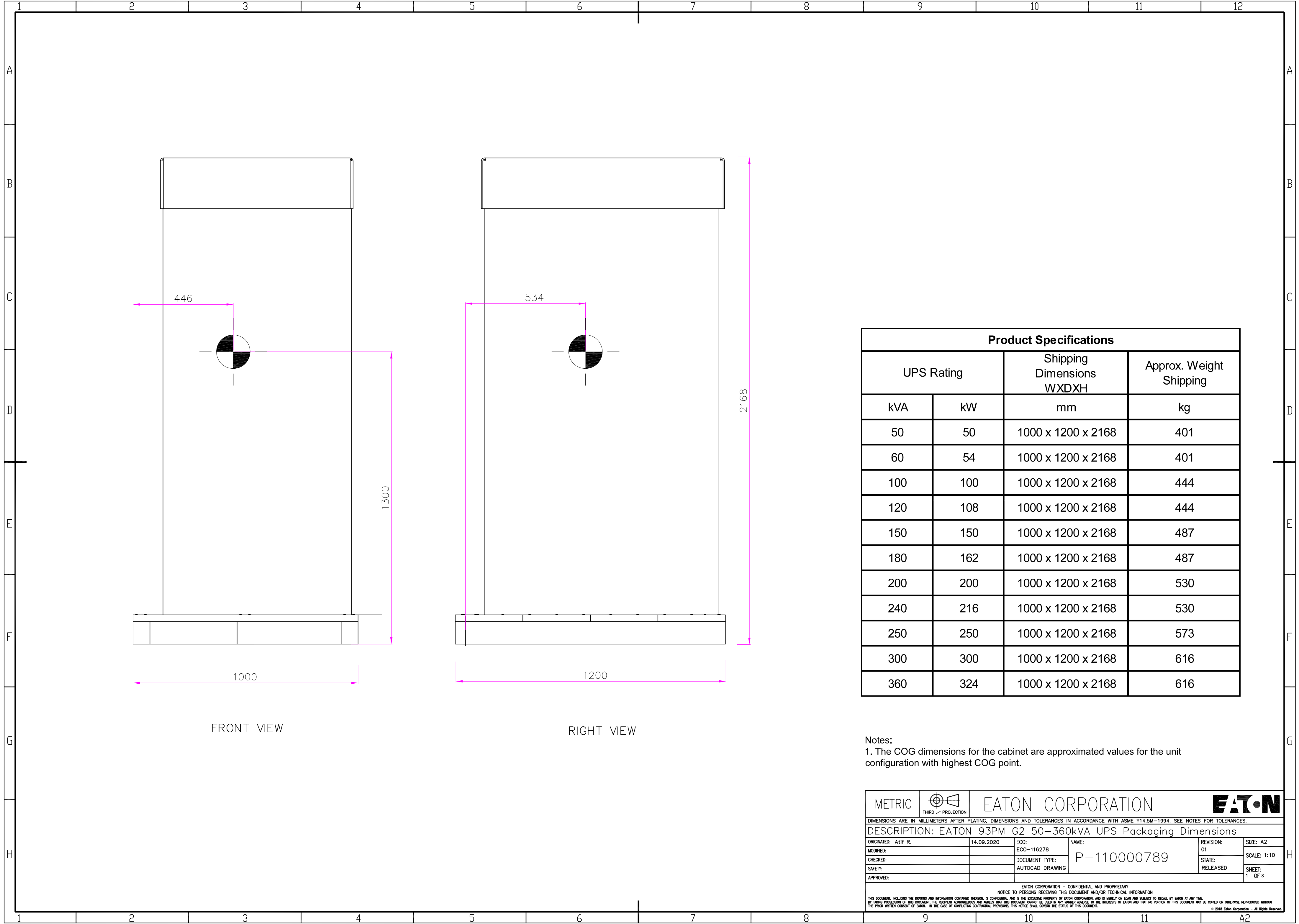
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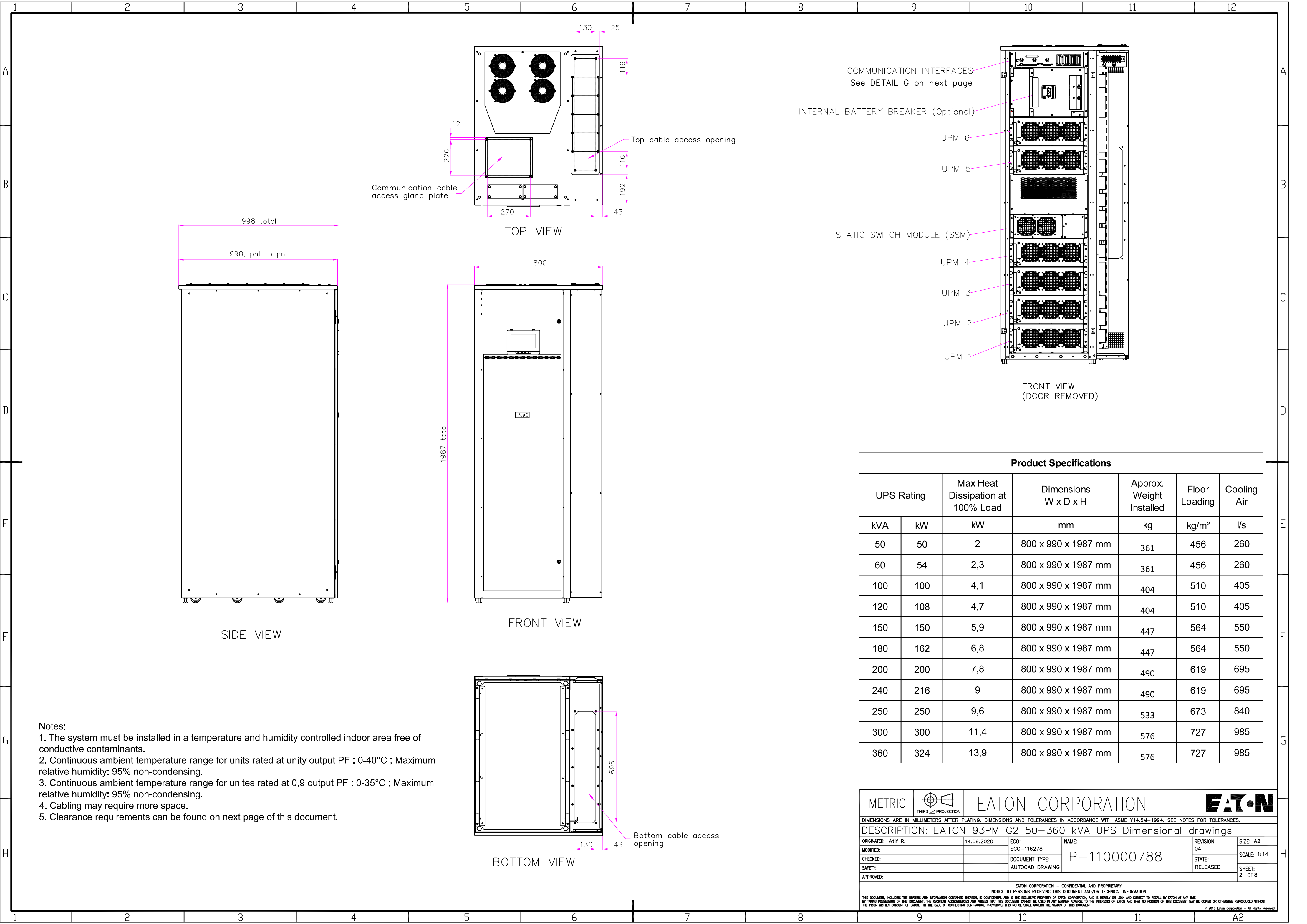
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Product Specifications			
UPS Rating		Shipping Dimensions WXDXH	Approx. Weight Shipping
kVA	kW	mm	kg
50	50	1000 x 1200 x 2168	401
60	54	1000 x 1200 x 2168	401
100	100	1000 x 1200 x 2168	444
120	108	1000 x 1200 x 2168	444
150	150	1000 x 1200 x 2168	487
180	162	1000 x 1200 x 2168	487
200	200	1000 x 1200 x 2168	530
240	216	1000 x 1200 x 2168	530
250	250	1000 x 1200 x 2168	573
300	300	1000 x 1200 x 2168	616
360	324	1000 x 1200 x 2168	616

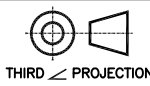
Notes:
1. The COG dimensions for the cabinet are approximated values for the unit configuration with highest COG point.

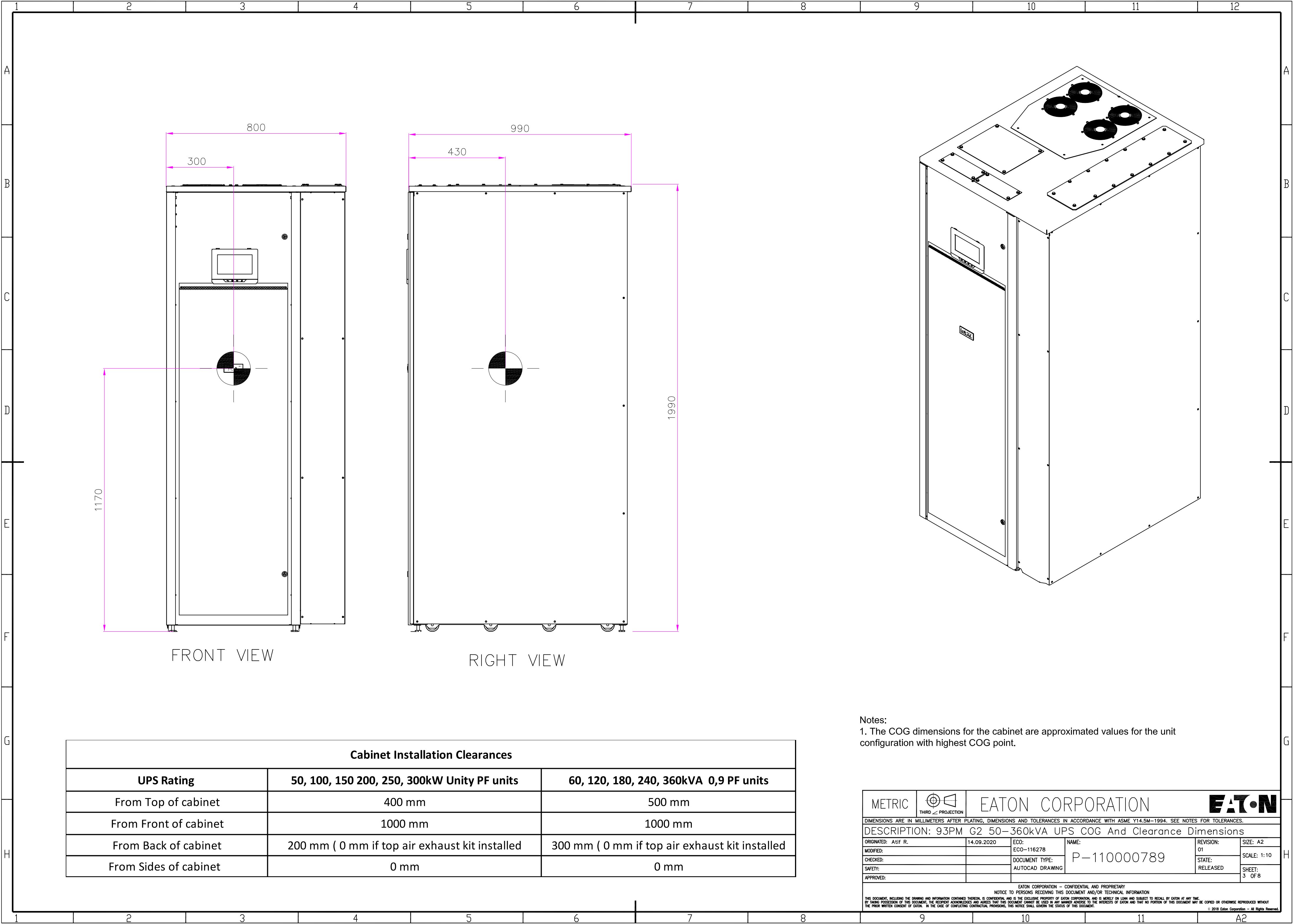
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DESCRIPTION: EATON 93PM G2 50-360kVA UPS Packaging Dimensions					
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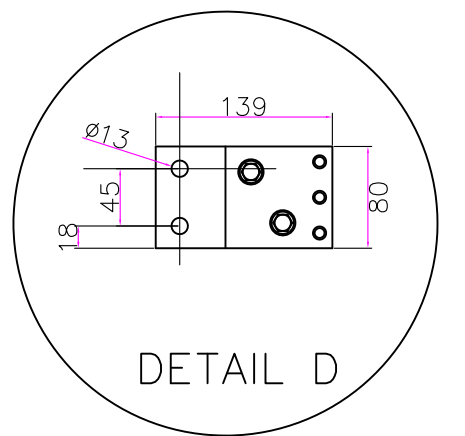
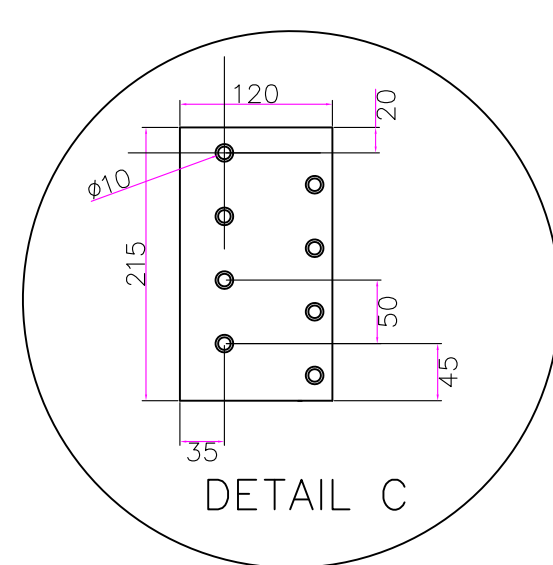
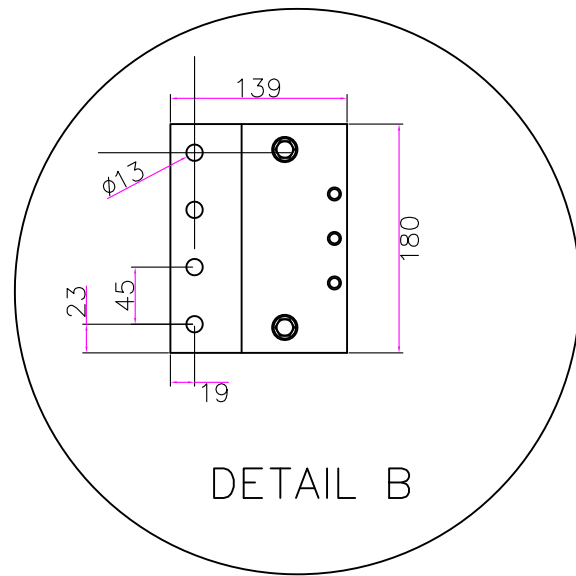
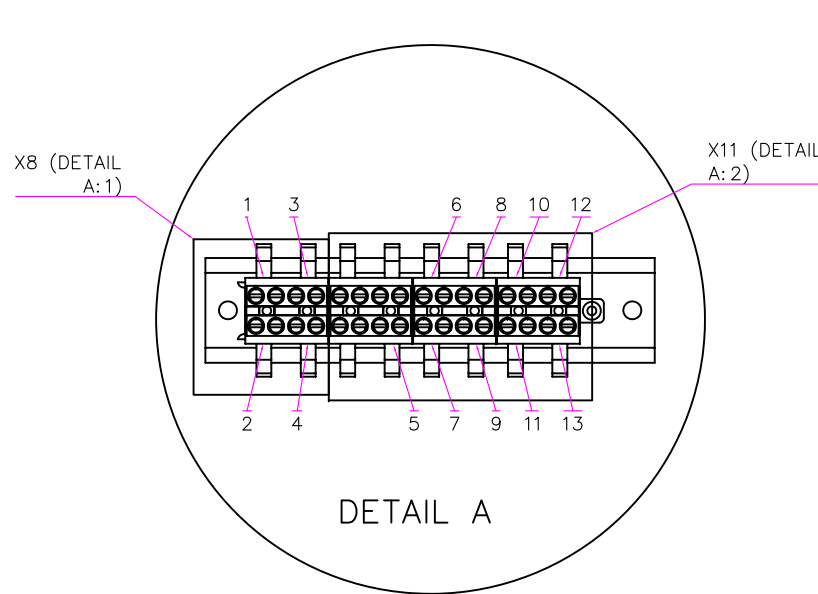
- Notes:
1. The system must be installed in a temperature and humidity controlled indoor area free of conductive contaminants.
 2. Continuous ambient temperature range for units rated at unity output PF : 0-40°C ; Maximum relative humidity: 95% non-condensing.
 3. Continuous ambient temperature range for unites rated at 0,9 output PF : 0-35°C ; Maximum relative humidity: 95% non-condensing.
 4. Cabling may require more space.
 5. Clearance requirements can be found on next page of this document.

Product Specifications						
UPS Rating		Max Heat Dissipation at 100% Load	Dimensions W x D x H	Approx. Weight Installed	Floor Loading	Cooling Air
kVA	kW	kW	mm	kg	kg/m²	l/s
50	50	2	800 x 990 x 1987 mm	361	456	260
60	54	2,3	800 x 990 x 1987 mm	361	456	260
100	100	4,1	800 x 990 x 1987 mm	404	510	405
120	108	4,7	800 x 990 x 1987 mm	404	510	405
150	150	5,9	800 x 990 x 1987 mm	447	564	550
180	162	6,8	800 x 990 x 1987 mm	447	564	550
200	200	7,8	800 x 990 x 1987 mm	490	619	695
240	216	9	800 x 990 x 1987 mm	490	619	695
250	250	9,6	800 x 990 x 1987 mm	533	673	840
300	300	11,4	800 x 990 x 1987 mm	576	727	985
360	324	13,9	800 x 990 x 1987 mm	576	727	985

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		2	3		4	5	6	7	8	9	10	11	12
		X6 Battery breaker terminal (detail A:1)											
A	1.	+ 24V_Trip_Power											
	2.	BAT_Shunt_Trip											
	3.	BAT_Shunt_DET											
	4.	GND											
		X11 Sync Control interface (detail A:2)											
	6.	BYPASS L1											
B	7.	BYPASS L2											
	8.	BYPASS L3											
	9.	OUT L1											
	10.	OUT L2											
	11.	OUT L3											
	12.	SYNC L1											
	13.	SYNC L2											
	14.	SYNC L3											



Scale 1:6

EXTERNAL DC SOURCE BREAKER
TRIP/STATUS X8 AND SYNC CONTROL
INTERFACE X11 (SEE DETAIL A)

COMMUNICATION INTERFACES
See DETAIL G on next page

INTERNAL BATTERY BREAKER (Optional)

UPM 6

UPM 5

STATIC SWITCH MODULE (SSM)

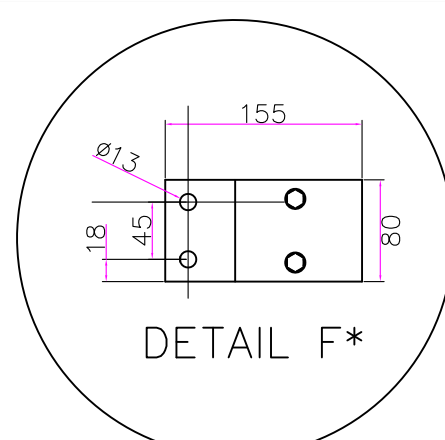
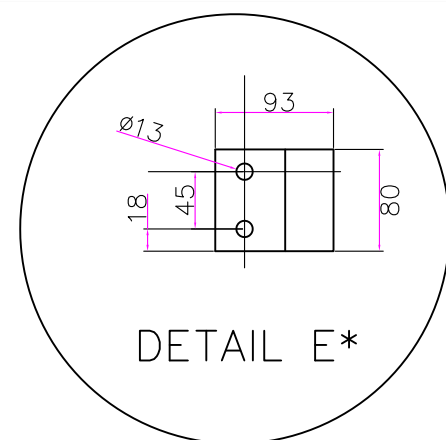
UPM 4

UPM 3

UPM 2

UPM 1

FRONT VIEW
(DOOR REMOVED)



Scale 1:6

SEE DETAIL E & F

1733

1626

SEE DETAIL C

1427

SEE DETAIL D

1233

1127

1021

915

809

703

SEE DETAIL B

544

385

279

173

0

Right View

1353

657

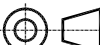
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rear View

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.
4. Detail E illustrates battery bus bar connection for UPS without internal battery breaker.
5. Detail F illustrates battery bus bar connection for UPS with internal battery breaker.

METRIC



THIRD ANGLE PROJECTION

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DESCRIPTION: EATON 93PM G2 50-360kVA UPS Customer Connections

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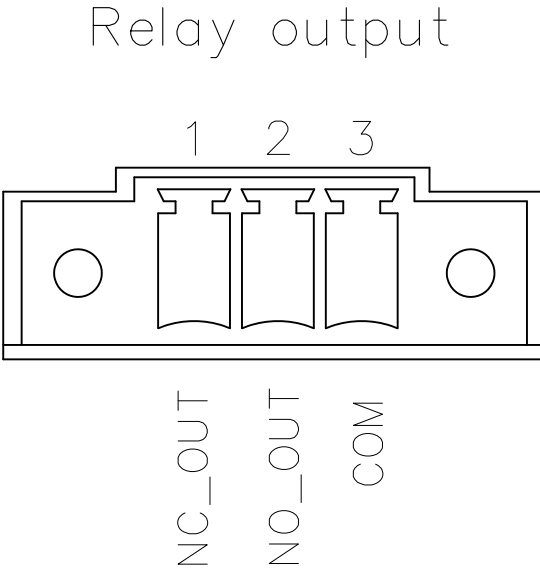
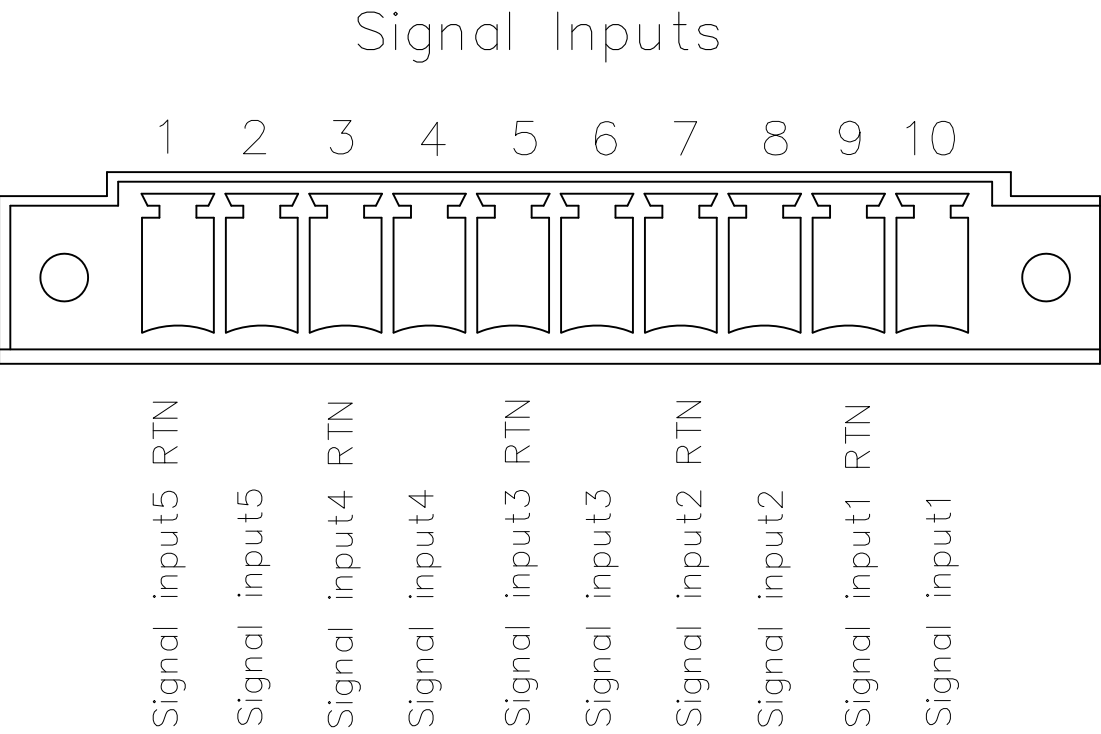
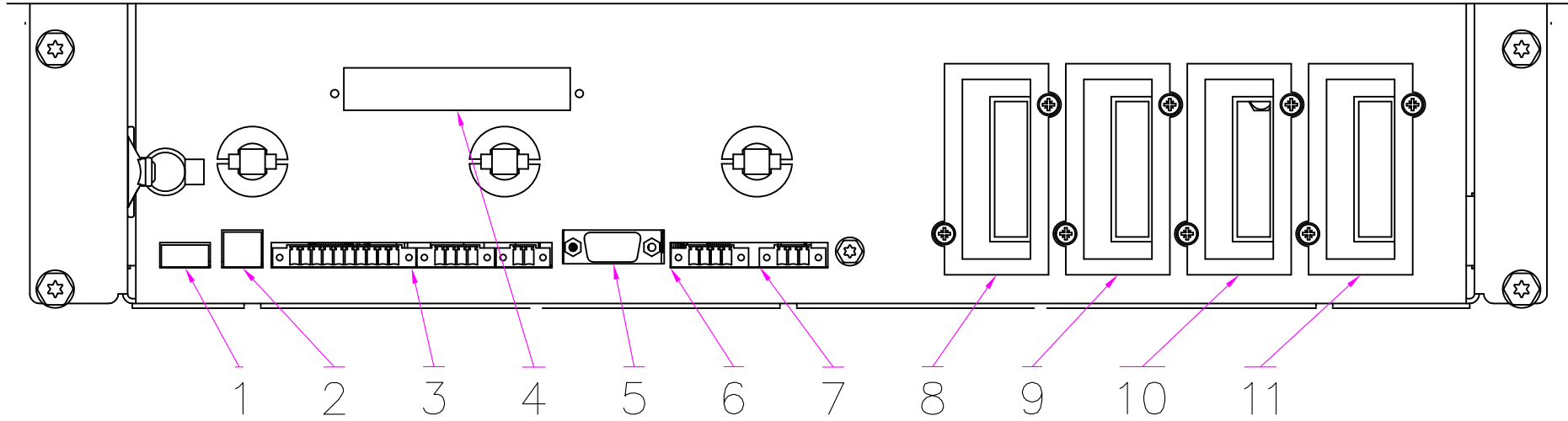
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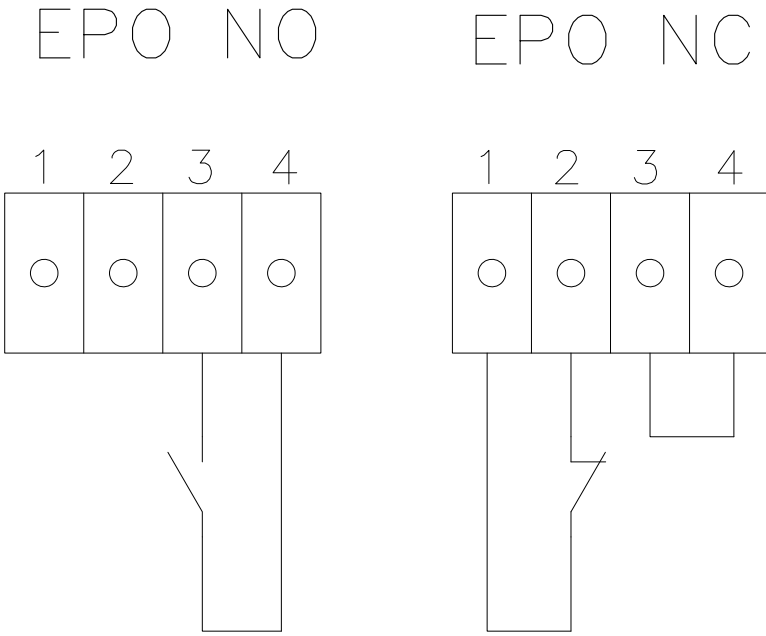
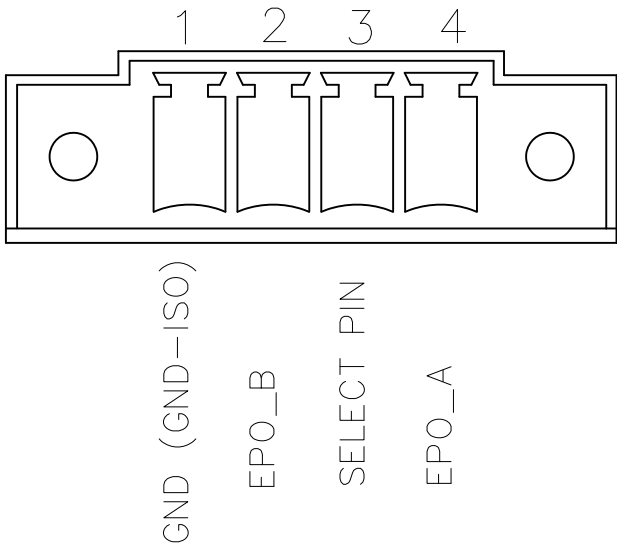
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Detail G	
1	USB host (connection to accessories)
2	USB device (connection to computer)
3	Signal inputs
4	External parallel interface
5	RS-232 port for service
6	Emergency Power Off (EPO)
7	Relay Output
8	Minislot 1
9	Minislot 2
10	Minislot 3
11	Minislot 4



1	2	3	4	5	6	7	8	9	10	11	12
Ext. PULL CHAIN	GND_S	CANBH	CANBL	GND (ISP)	EARTH	CANBL	CANBL_1	Not used	Not used	Not used	Not used

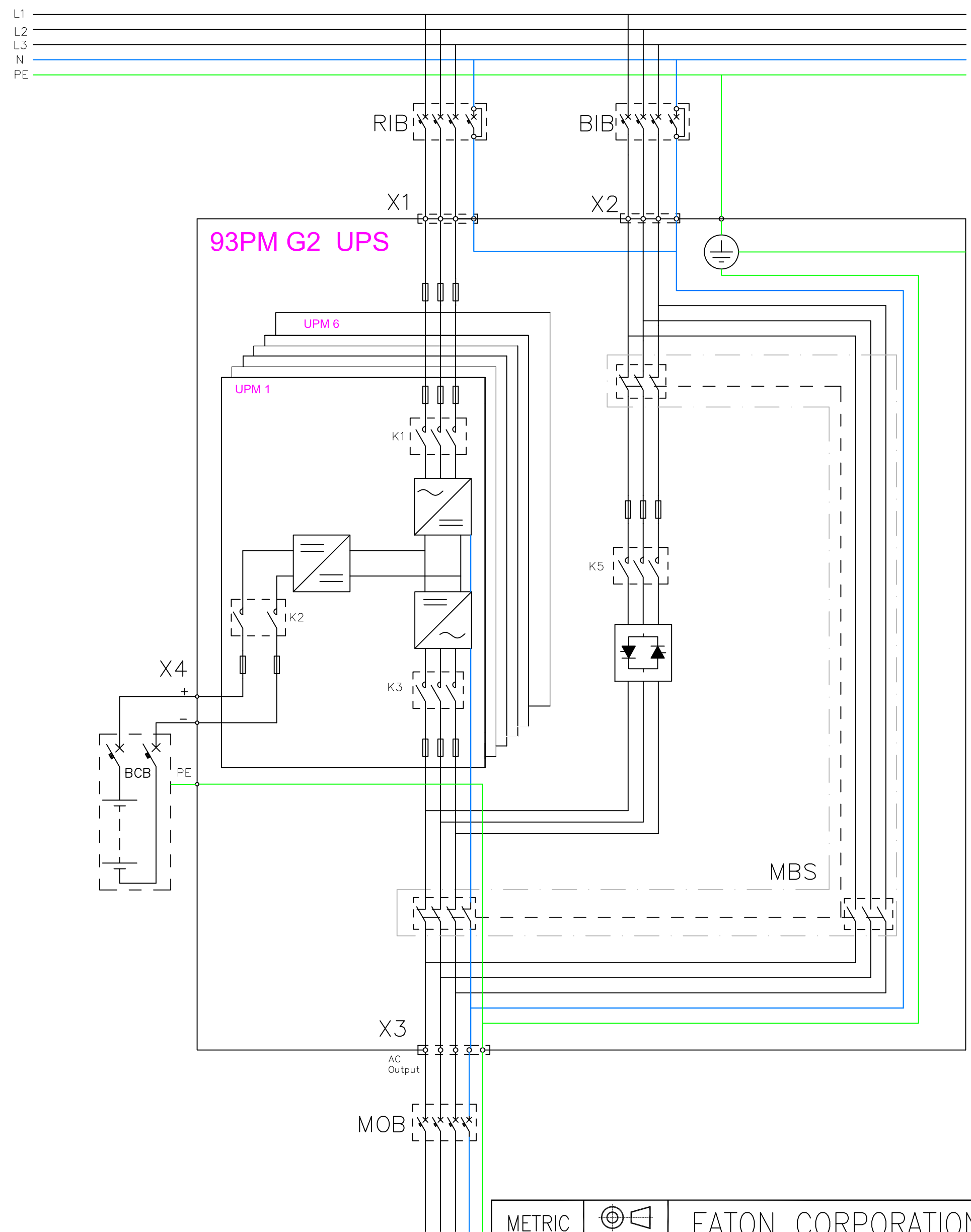


External parallel connector

EPO

EPO Connections

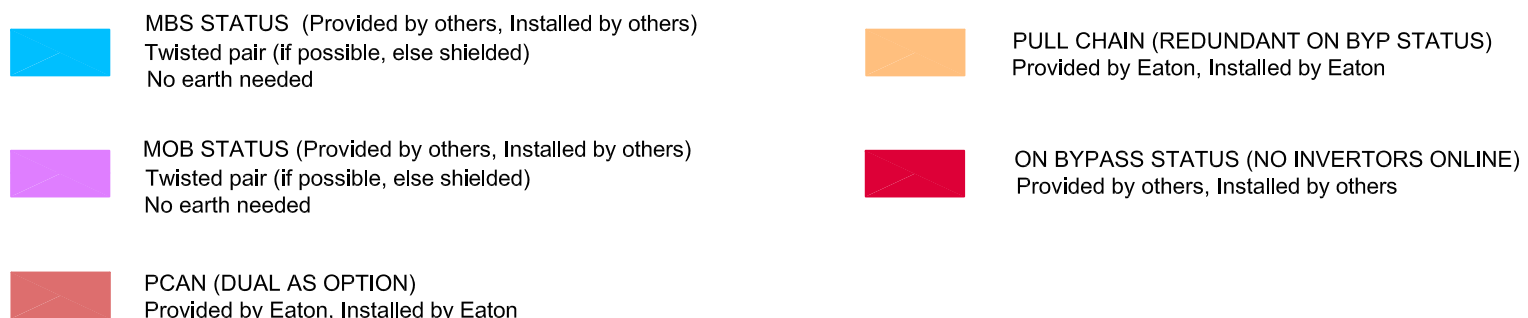
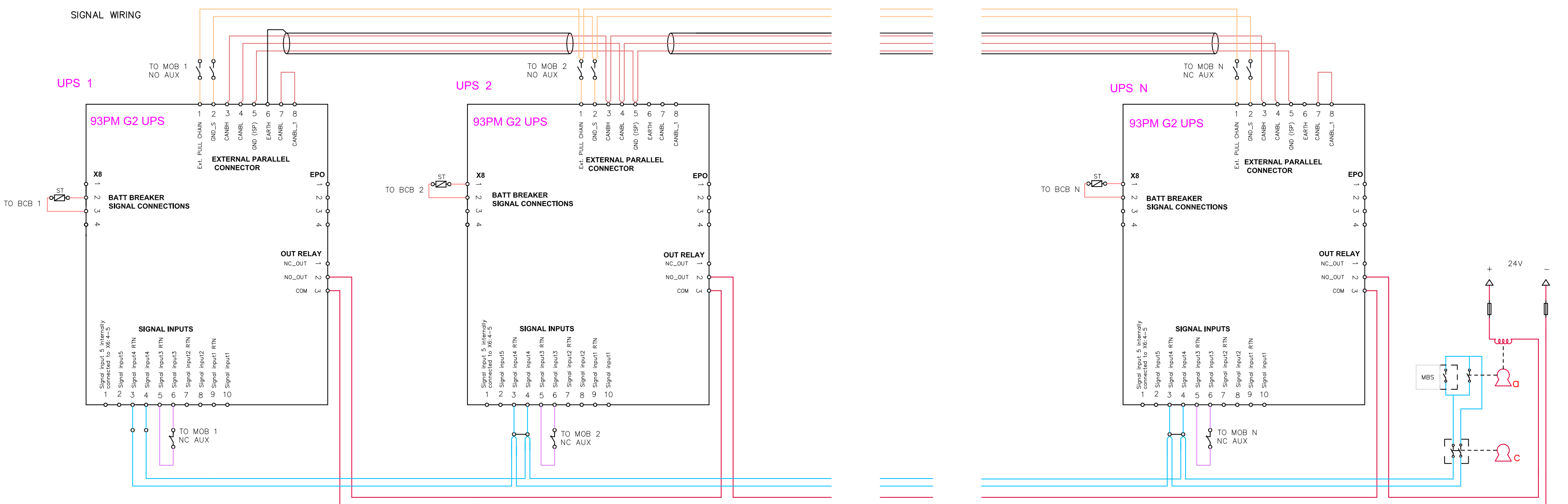
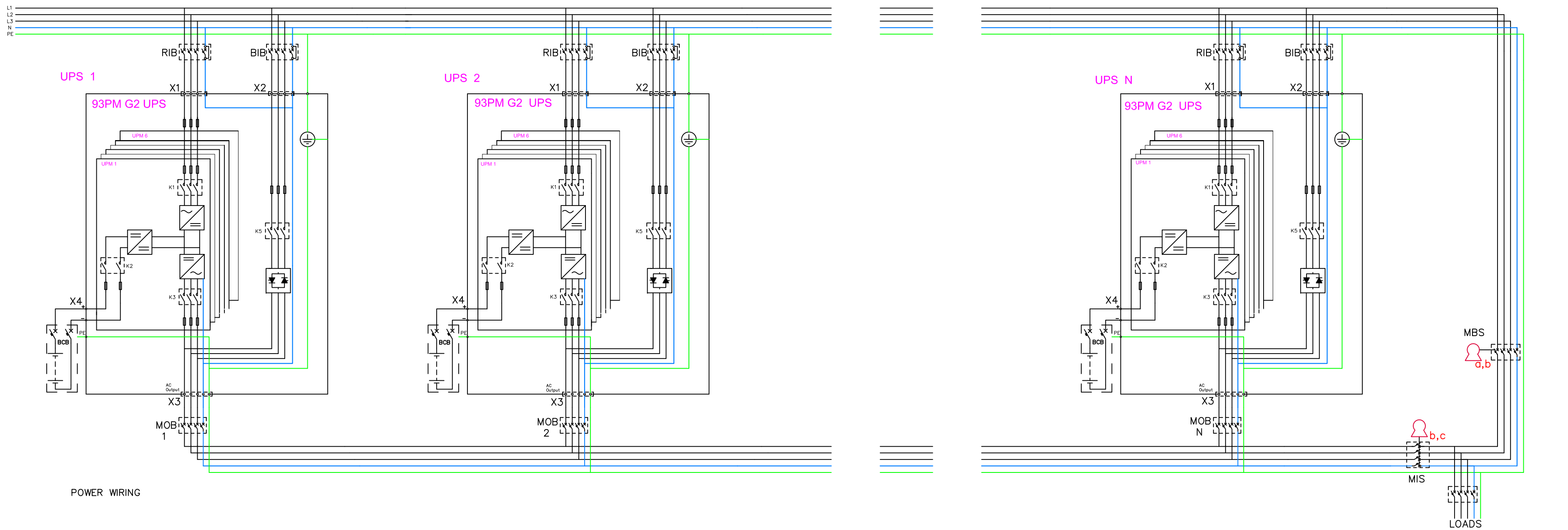
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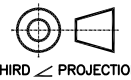
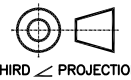
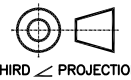
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- Mechanical bypass interlocking sequence**
- Place UPS system to bypass. On bypass status (K3) will energize Key A solenoid to release it
 - Removing key A will switch on "force bypass" to the UPS system
 - Place key A to MBS breaker and close breaker. 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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Eaton 93PM G2 50-360kVA 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)					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	Auxiliary Switches																																																																																																																																			
kVA	kW	V	A	A	A	Type	V	A	A / 400ms	Qty	VDC	A	A	VDC	Qty	A	Qty																																																																																																																																			
50	50	400	86	96	72	Bussman 900A uR 170M4419	400	72	180	2	600	114	139	24	1	72 x N	1																																																																																																																																			
60	54	400	93	96	87	Bussman 900A uR 170M4419	400	87	180	2	600	123	150	24	1	87 x N	1																																																																																																																																			
100	100	400	172	192	144	Bussman 900A uR 170M4419	400	144	360	2	600	227	277	24	1	144 x N	1																																																																																																																																			
120	108	400	186	190	174	Bussman 900A uR 170M4419	400	174	360	2	600	246	300	24	1	174 x N	1																																																																																																																																			
150	150	400	258	288	217	Bussman 900A uR 170M4419	400	217	540	2	600	341	416	24	1	217 x N	1																																																																																																																																			
180	162	400	278	285	261	Bussman 900A uR 170M4419	400	261	540	2	600	370	450	24	1	261 x N	1																																																																																																																																			
240	216	400	371	384	346	Bussman 900A uR 170M4419	400	346	720	2	600	491	554	24	1	346 x N	1																																																																																																																																			
250	250	400	429	480	361	Bussman 900A uR 170M4419	400	361	900	2	600	568	663	24	1	361 x N	1																																																																																																																																			
300	300	400	515	576	433	Bussman 900A uR 170M4419	400	433	1080	2	600	682	832	24	1	433 x N	1																																																																																																																																			
360	324	400	557	576	520	Bussman 900A uR 170M4419	400	520	1080	2	600	736	898	24	1	520 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 36 blocks.The unit can be configured with 36-44 battery blocks. 11.Specifications are subject to change.																																																																																																																																																				
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