

## EXTERNAL MAINTENANCE BYPASS 20kW, 4-SWITCHES

Product number: P-105000044-004

**METRIC** 



EATON CORPORATION

DIMENSIONS ARE IN MILLIMETERS AFTER PLATING, DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5M-1994. SEE NOTES FOR TOLERANCE

DESCRIPTION: EXTERNAL MBS 20kW, 4-SWITCHES

ORIGINATED: E5900083 /JP	13.05.2015	ECO:	NAME:
<b>MODIFIED:</b> E9917864/EY	18.09.2015	ECD-089242	
<b>CHECKED:</b> E5900525/TMK		DOCUMENT TYPE:	P-1020000
SAFETY:		AUTOCAD DRAWING	
APPROVED: E5900525/TMK		Common sheet	ţ

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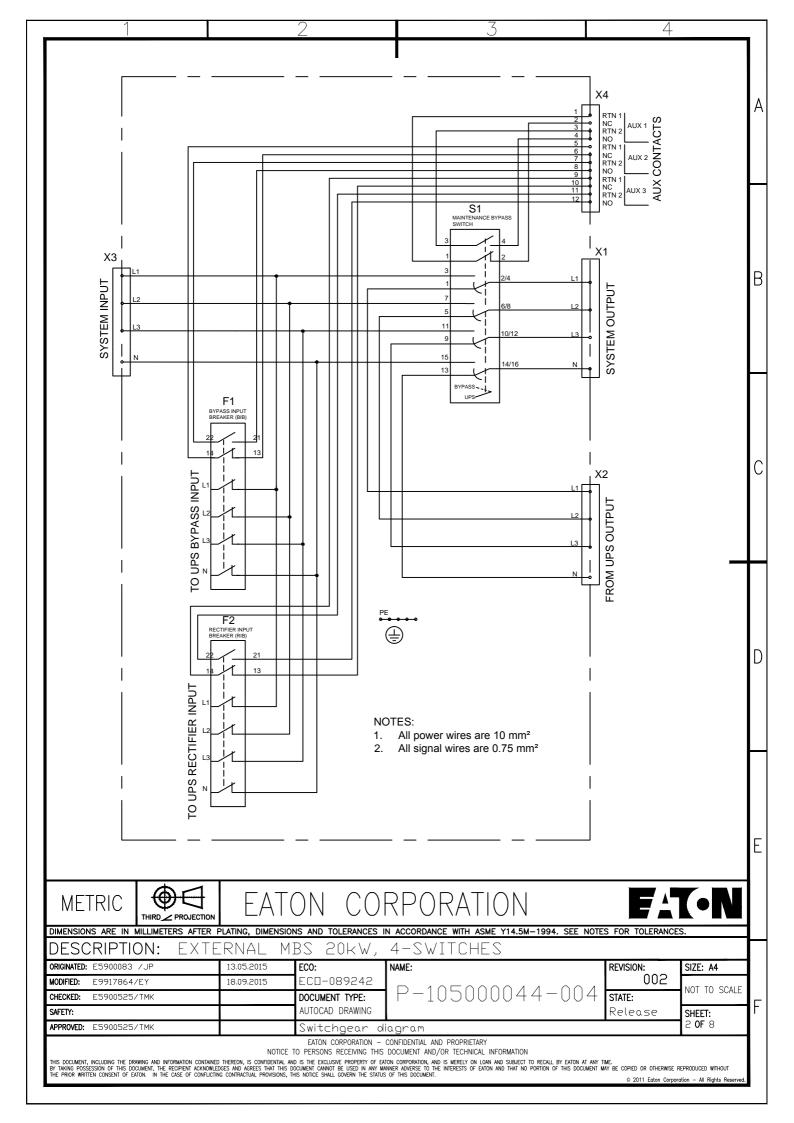
REVISION: 002 STATE: Release

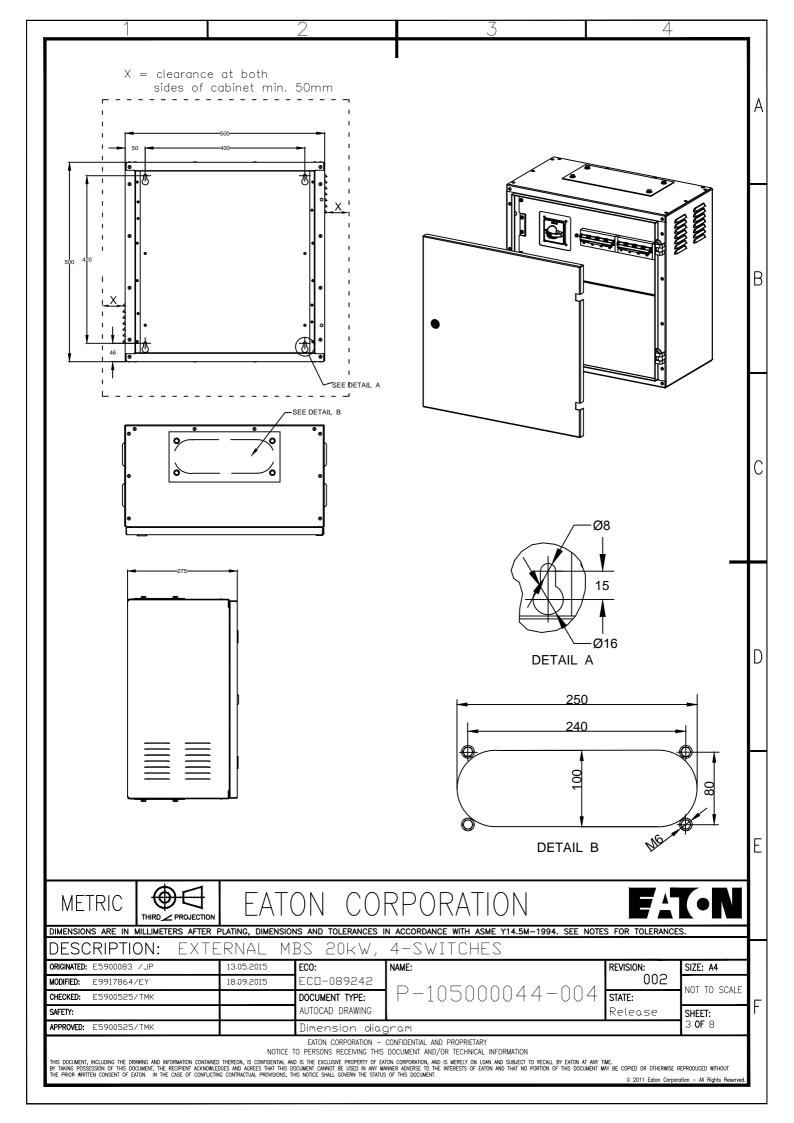
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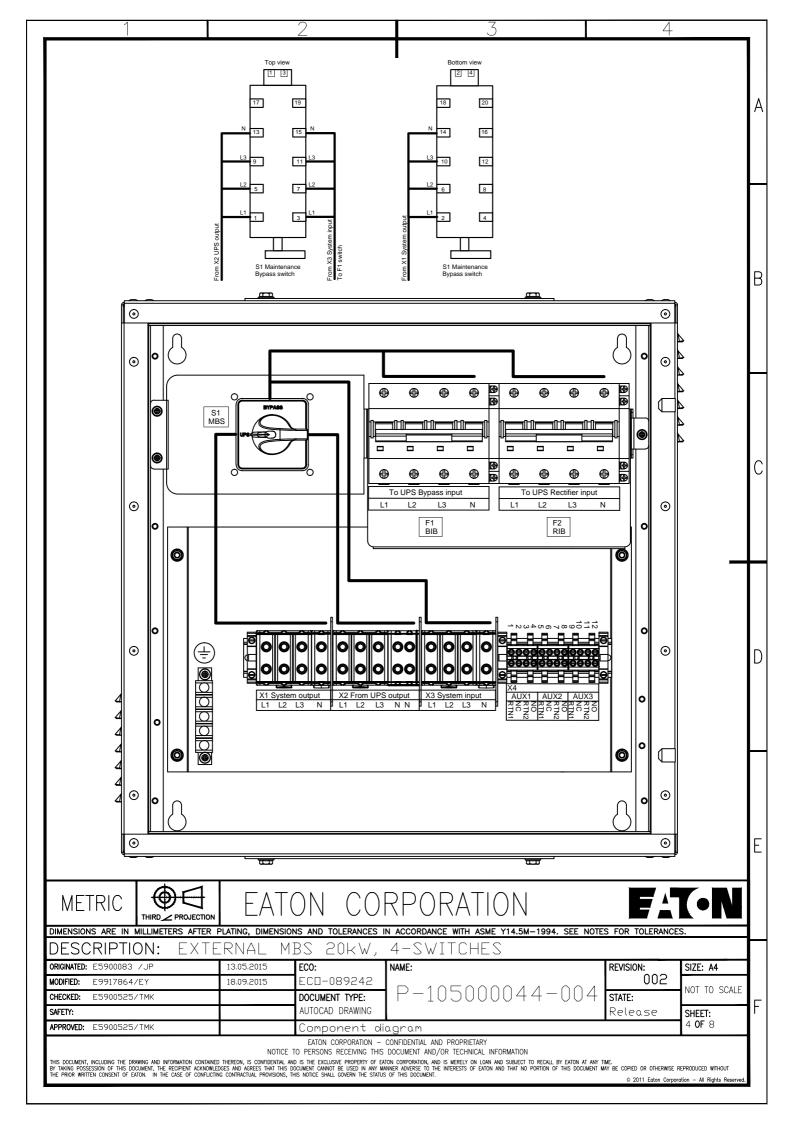
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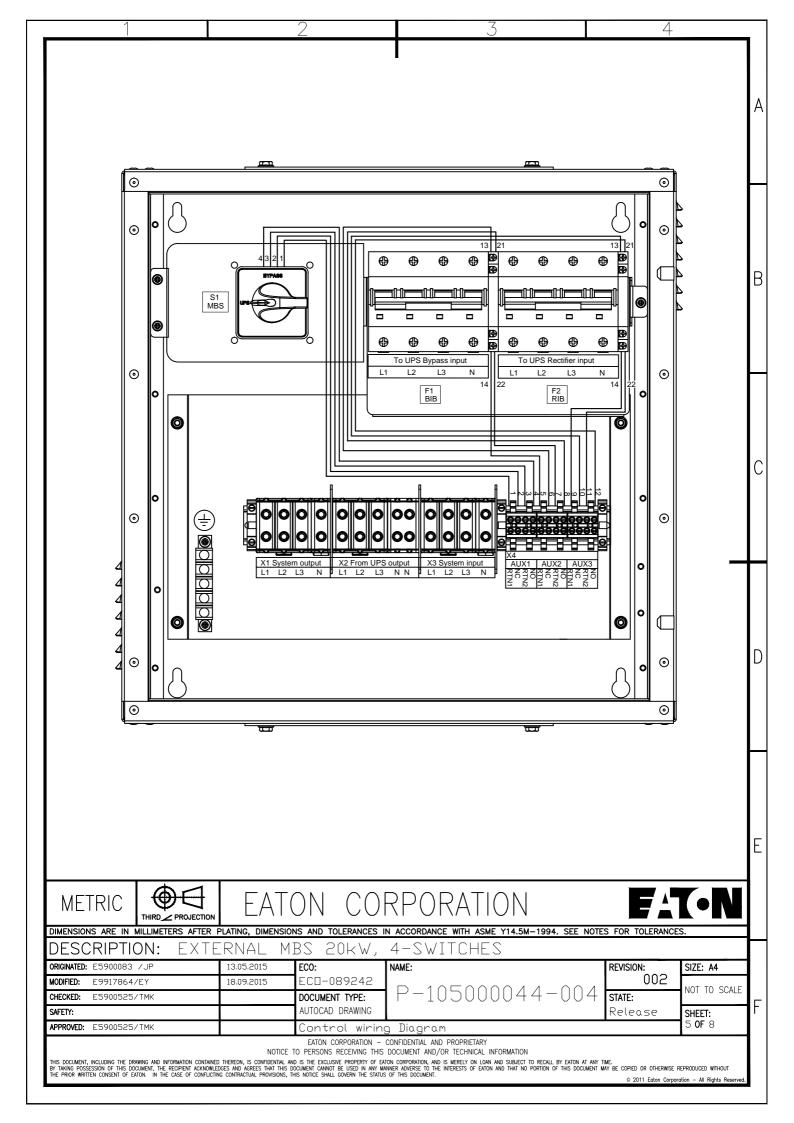
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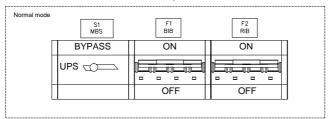




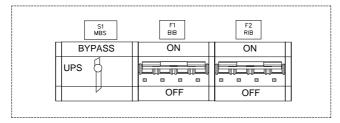
	1	2	3	4
Α	TECHNICAL SPECIFIC STANDARD IEC/EN 61439-2		TYPE PLATE, SAM	PLE
	MAINS TN-S, 5W/3P+N+PE,	380/400/415VAC 3~	80	<u> </u>
	<ol> <li>Nominal Voltage</li> <li>Nominal Current</li> <li>Maximum Current</li> <li>Nominal Frequency</li> <li>Operating Temperature</li> <li>Current capability</li> </ol>	$U_{n} \frac{380/400/415}{30/29/28} V$ $I_{nA} \frac{30/29/28}{4} A$ $I_{max} \frac{36}{4} A$ $I_{max} \frac{50/60}{4} Hz$ $I_{max} \frac{1}{4} V$	EXTERNAL MBS 20kW, 4-SWITCHES  Part Nr: P-105000044-004 Re	ev: 002
В	Thermal Dynamical 7. Power dissipation 8. Electrical Wiring AC	l <sub>cc</sub> 10 kA *) l <sub>pk</sub> — kA P — W L1	MAINS: TN—S CLASS: IP21 Un 380/400/415 V InA 30/29/28 A fn 50/60 Hz Icc 10 kA	e: 05/2015 O (2) kg
	CONSTRUCTION OF S	SWITCHGEAR		
	Enclosure Class IP _     Outfield location     Interior location		Note!  1. Back—up fuse required for system input 2. For external wiring use wire with tempe	
	<ol> <li>Installation         Surficial         Wall mounting         Floor mounting</li> <li>Additional door         Lock—up</li> </ol>		3. 4. 5.	
	4. Color Common color RAL7 Custom color Eato 5. Cabling entry Top entry Bottom entry			_
	Conduit flange of co 6. Material specification Cable material 90°C Cable U/Vo 450 Cover material — Other demand —	_		
С	7. Handle location  CUSTOMER ELECTRICAL INFO	Door_handle		
	1. MAINS	TN-C-S □ TN-S ☒		ŀ
	2. LOAD POWER	IT		
	METRIC THIRD PROJECTION ENSIONS ARE IN MILLIMETERS AFTER		ORPORATION  CES IN ACCORDANCE WITH ASME Y14.5M—1994. SEE NOTE	EATON ES FOR TOLERANCES.
		ERNAL MBS 20k	<u> </u>	Industrial Industrial
MOD	INATED: E5900083 /JP FIED: E9917864/EY CKED: E5900525/TMK TY:	13.05.2015 <b>ECO:</b> 18.09.2015 EC \( \text{DOCUMENT TYPE} \) AUTOCAD DRAWII	= P-105000044-004	STATE: Release SHEET:
APPI	<b>ROVED:</b> E5900083/TMK		nformation	6 <b>0F</b> 8
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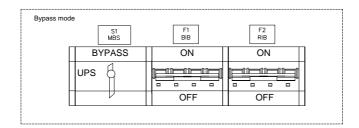
1. The start position is following:



- 2. Use UPS display to turn the UPS on internal static bypass mode. Remember to verify the transfer before proceeding the next step.
- 3. Turn the MBS (S1) to bypass position to bypass UPS:



- Use UPS display to turn UPS OFF. 4.
- Turn the UPS Battery Breaker (CB1) if not automatically tripped 5. and UPS Rectifier Input Switch (S1) to OFF position.
- 6. Turn OFF the BIB (F1)and RIB (F2) to disconnect UPS from bypass and rectifier input.



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WITH ASME Y14.5M-1994. SEE NOTES FOR TOLERANCES IN MILLIMETERS AFTER PLATING, DIMENSIONS AND TOLERANCES IN ACCORDANCE

DESCRIPTION: **FXTFRNAL** MBS

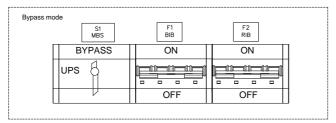
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APPROVED: E5900525/TMK		Operating Instructions 7 0F			7 <b>0F</b> 8

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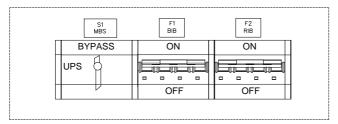
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## Turn UPS from MECHANICAL BYPASS to NORMAL MODE

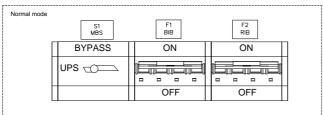
1. The start position is following:



2. Turn ON the BIB (F1) and RIB (F2) to connect Bypass and rectifier input to UPS:



- 3. Turn the UPS Battery Breaker (CB1) and UPS Rectifier Input Switch (S1) to ON position.
- 4. Use UPS display to transfer the UPS to static bypass and give "Start Module" command to start the UPS(s) to "ready "-state.
  - -Make sure the UPS is not displaying any alarms or notices.
  - -You may verify the output voltage from the meters screen of the display.
- 5. Turn the MBS (S1) to UPS position to switch the output to UPS:



6. Use UPS display to transfer the UPS to normal mode (Give "Go Online"- command in the "Controls"-menu). Verify the UPS is running in "Normal"-mode, green LED is lit, status is displayed "Online" and no alarms are present.

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