

Eaton 9PXM UPS installation with legacy model BPE bypasses

The [9PXM](#) is designed for use with Eaton's BPM125 series of wall and rack mountable bypass modules. In order to support legacy bypass installations where the Eaton 9170+ UPS was previously deployed, Eaton has cleared the 9PXM for use with certain BPE models. This application note explains the limitations and wiring requirements necessary to install a 9PXM with a legacy BPE20MBB1A or BPE14MBB1A bypass.

DISCLAIMER

Failure to follow this note as written can lead to equipment failure or injury. If you are unsure of how to proceed please call Eaton's UPS technical support team for instructions and clarifications.

Table 1: Approved legacy bypasses for use with the 9PXM

Legacy bypass	9PXM compatibility
BPE20MBB1A (125A rated)	Compatible with all 9PXM configurations
BPE14MBB1A (80A rated)	Compatible with 9PXM configurations that meets the following requirements: <ol style="list-style-type: none"> (4) UPMs (9PXMSPPM) split-phase power modules or less installed in a 9PXM UPS* (3) UPMs (9PXMSPPM) split-phase power modules and (1) Supercharger (9PXMCHGR) or less installed in a 9PXM UPS*

*BPE14MBB1A is rated for 80A, therefore you cannot install more than 80A of 9PXMSPPM split-phase power modules and 9PXMCHGR battery charger modules into a 9PXM UPS. Each 9PXMSPPM split-phase power module and 9PXMCHGR battery charger module is rated at 20A maximum current.

Diagram and Instructions

Figure 1 displays the wiring diagram for using the legacy bypass with the 9PXM. Figure 2 displays instructions for enabling the bypass through the 9PXM LCD menu.

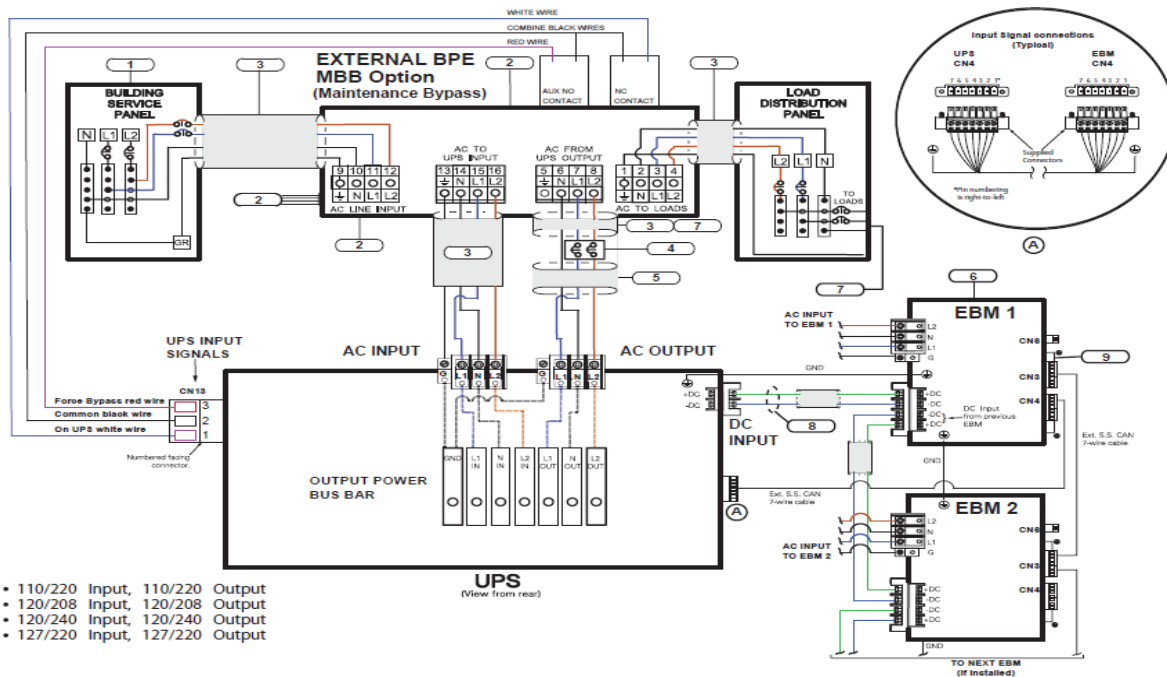
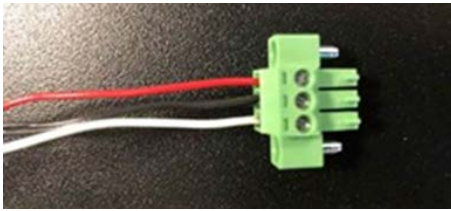


Figure 1: 9PXM/BPW wiring guide

The following pages contain wiring diagram for using the legacy bypass with the 9PXM as well as instructions for enabling the bypass through the 9PXM LCD menu.

Legacy bypass connectivity instructions

1. Connect the four wires from the BPE to the 9PXM using the three-pin connector per the following picture.



2. Install the three-pin connector into the 9PXM UPS BPM CN13 connector per the following picture.



3. Navigate the 9PXM LCD to the forced and maintain bypass settings per figure 2, input signals menu, in the [9PXM user guide](#). Set both *Forced Bypass* and *Maintain Bypass* settings to enabled and normally open (figure 2).

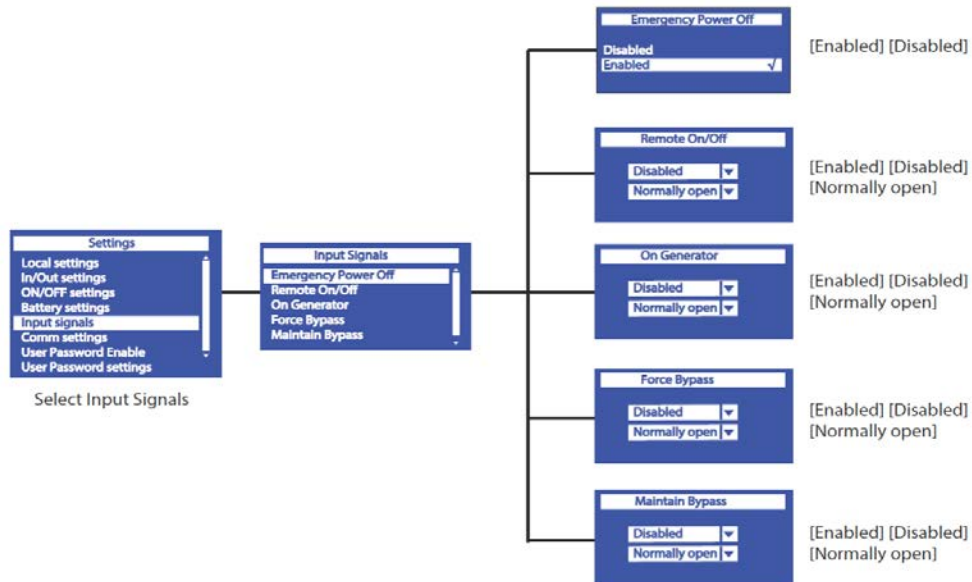


Figure 2: Enabling Bypass with 9PXM LCD menu

For more information:

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