

## PXA-DIN16KIT For Seismic Installation

### Product Description

PXA-DIN16KIT provides installation method for DIN mounted energy management components in Seismic Certified enclosures other than Type 1 PX Series. Obtain Seismic Sticker from CPS Product Manager.

PXA-DIN16KIT consists of (4) 16.25" Pre-galvanized steel DIN rails meeting EN 60715 TH 35-7.5-1 mm, see Figure 1 and (12) #8-18 x 3/8" pan head Type B thread tapping zinc plated steel SEMS locking screws.

PXA-DIN16KIT when installed per this instruction on a rigidly mounted subpanel inside a Type 1 or higher Seismic Certified enclosure is certified to comply with IBC 2009 and CBC 2010 and may be used to mount List of Equipment/Components in following OSHPD Special Seismic Certification Preapproval (OSP).

- OSP-217-10 and OSP-218-10

### Product Numbers

PXA-DIN16KIT            FOUR 16.25" DIN RAILS

### Optional Product Numbers

PXA-TIEBARKIT        Tie Bar Kit (4) 9.5", (4) 4.5",  
(12) 3/4" TY-wrap, (16) screws

PXA-SB115V192VA    PX Series Service Box

PXA-SB115V384VA    PX Series Service Box

PXA-SB230V192VA    PX Series Service Box

PXA-SB230V384VA    PX Series Service Box

PXA-SW192VA        PX Series Side Wall 192VA

PXA-SW384VA        PX Series Side Wall 384VA

Instructions for optional products: 553-131 & 553-135.

### Caution Notation

<b>CAUTION:</b>		Equipment damage or loss of data may occur if you do not follow the procedure as specified.
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### Expected Installation Time

30 minutes

Item Number: 553-156, Rev. AA

### Required Tools and Materials

- Medium Phillips screwdriver
- 7/16-inch nut drivers (bolts and SB nuts)
- Three corrosion resistant 1/4" - 20 x 1/2" bolts and flat washers (used with SB lock nuts)

### Prerequisites



#### CAUTION:

Anchorage is not preapproved for Seismic Certification and must be approved by the Inspector of Record before installation.

Seismic Certification Preapproval requires:

- Enclosure used must be included in Certified List of Equipment and Components of an OSHPD Special Seismic Certification Preapproval (OSP), example for Air Handler.
- Enclosure must be mounted on a wall (rigid) or HVAC equipment wall designated (rigid) with four corrosion resistant 1/4" - 20 bolts minimum, flat washers and nuts.
- Subpanel must be of rigid mount type specified for use in Enclosure.

General use:

- Enclosure of type required for the installation environment.
- Enclosure mounted with clearance to open door and door off if needed.
- Conduit run/sealed. Wires pulled through enclosure and labeled.
- Enclosure must be mounted at least 12 feet (3.7 m) away from devices that can generate Radio Frequency Interference (RFI), such as Electro-pneumatic devices (EPs), relays, and walkie-talkies.
- Enclosure must be mounted at least 5 feet (1.5 m) away from 100 kVa or larger motors and variable frequency drives (VFD).



**CAUTION:**

Seismic Certification Preapproval requires:

- Total assembly weight not to exceed 50 lbs. for 20" enclosures assembly or 100 lbs. for 36" enclosure assembly.
- Installed Equipment is listed in OSP.
- Service box, installed equipment and wiring management must be installed on enclosure subpanel.
- Center of gravity is offset from origin at enclosure center to upper left subpanel surface adding 9 lbs for a 192VA Service Box or 16 lbs for 384VA Service Box. Variance due to other installed components is < 10%.
- DIN Rails mounted on rigid subpanel using three screws supplied each with pilot hole size 0.136" dia. (29 drill size) for 16 or 14 AWG subpanel. Optional tie bars use two of same type screw.
- Service Box mounted on upper left corner of rigid subpanel using from material list (3) 1/4"-20 x 1/2" bolts and flat washers with 1/4"-20 lock nuts supplied with Service Box. Use Close Fit Drill Size F (0.2570).
- Certified communication devices may be fastened to subpanel and power packs to outlet with 3M® Dual Lock® Fasteners SJ3560 (Type 250). Use two pair for devices and one pair for power packs. Minimum 1" square per 2 lbs.

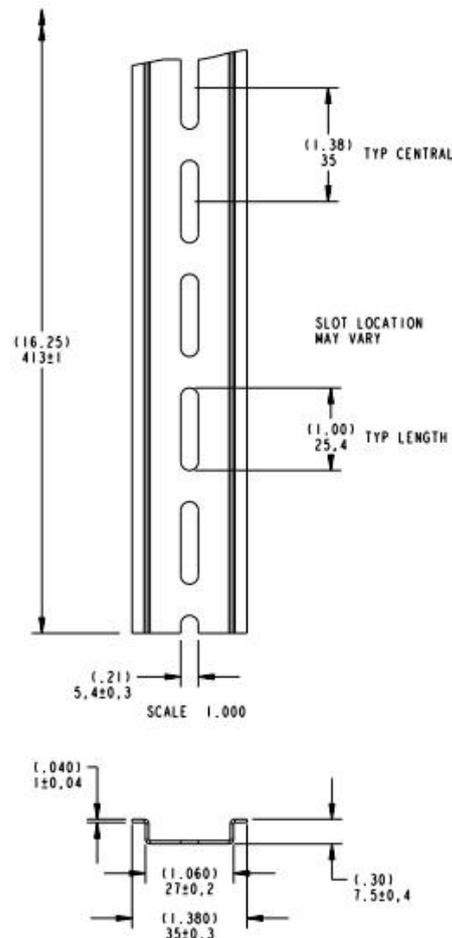
General use:

- Optional Side Wall Kit installed where Service Box cannot be installed close enough to enclosure side to prevent inadvertent access to line voltage.

**Installation**

**NOTE:** Follow all safety regulations and local codes when installing this equipment.

**NOTE:** Determine the mounting location of all installed equipment on enclosure subpanel prior to drilling DIN rail, tie bar, and Service Box pilot holes. Ensure room for Kit label.



**Figure 1, DIN Rail Dimensions (4) in Kit.**

1. Install Service Box on subpanel.
  - See Figure 2 and Figure 3 for dimensions, weights, keep outs and sticker location.
  - Total length includes wire cover which may overhang subpanel to reach top of enclosure.
  - Right side may overhang subpanel by maximum 1/2" to reach right enclosure wall.
  - Ensure enclosure locking mechanisms do not interfere with installed Service Box.
  - Drill three Size F (close fit) holes for bolts.
  - Insert 1/4"-20 bolts from material list in back of subpanel, through mounting holes and secure with three supplied SB 1/4"-20 lock nuts.
  - Optional install three 1/4"-20 x 1/2" PEM studs (not supplied) per manufacturer specification in the subpanel at locations shown.
  - Optional Service Box Side Wall, Refer to 553-135 Installation Instruction.
  - Place Seismic Sticker on front of Service Box.

2. Install each DIN rail(s) on subpanel.
    - Place one, two or four rails on subpanel.
    - Mark locations for three pilot holes, one in center of each rail and two within 2" of ends.
    - Drill three Size 29 (0.136" dia.) pilot holes per DIN rail used.
    - Secure each rail in place with three supplied #8-18 self tapping SEMS screws.
  3. Install Energy Management Equipment on rails.
    - Refer to shipping carton for Installation Instructions on modules.
    - Refer to Instructions supplied with Controller for mounting and interconnecting the energy management devices to be installed.
  4. Connect Service Box Low Voltage outputs.
    - Refer to 553-131 Service Box Installation Instruction for TX-I/O™ Bus equipment and wiring details.
  5. Install wire management on subpanel.
    - Drill two Size 29 (0.136" dia.) pilot holes for each optional tie bar used.
    - Secure each tie bar in place with two supplied #8-18 self tapping SEMS screws.
  6. Install subpanel in enclosure.
    - Optional install wire duct per manufacturer specification.
    - Install 5.25" x 3.75" Kit Agency and Seismic Label supplied on subpanel.
  7. Connect Service Box to Line Voltage input.
    - Refer to 553-131 Service Box Installation Instruction for wiring details.
    - Ensure both green/yellow and green wires are connected to the enclosure earth ground.
  8. Connect Control Wires for EM Equipment.
    - Connect Wires per product layout sheet.
  9. Reinstall and Secure the Enclosure Door.
    - If Enclosure door removed during installation reinstall and connect door grounding wire to the stud inside enclosure per instructions.
    - Place the product layout sheet and this instruction in the door label pouch.
    - Close and secure the door per instructions.
- The installation is now complete.

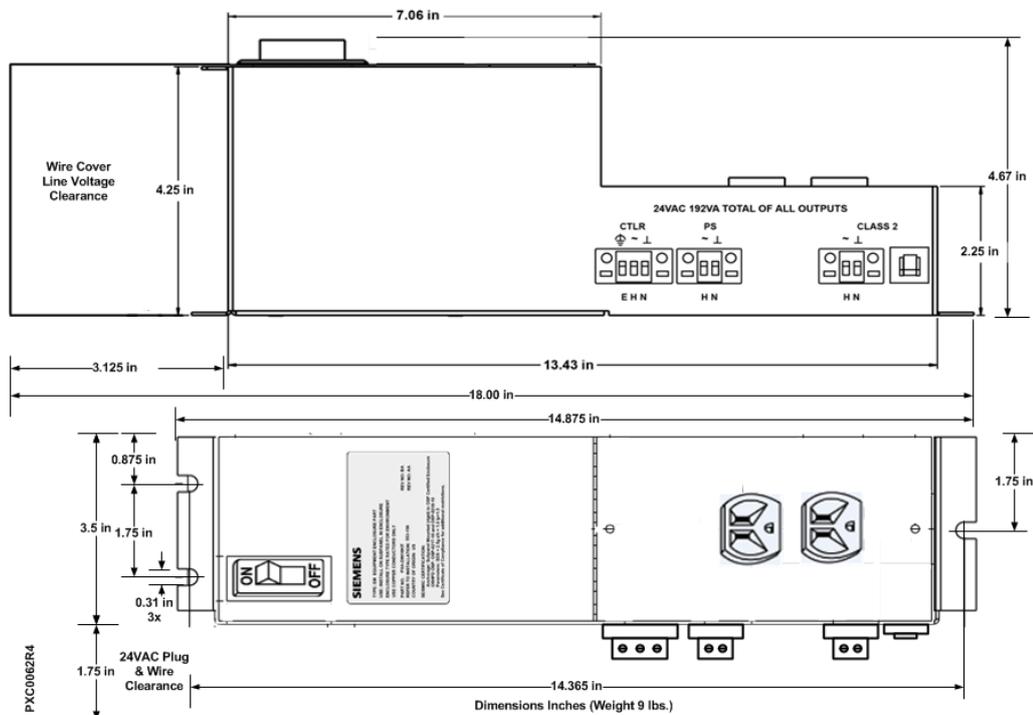


Figure 2, PX Series 192VA Service Box Mounting Dimensions

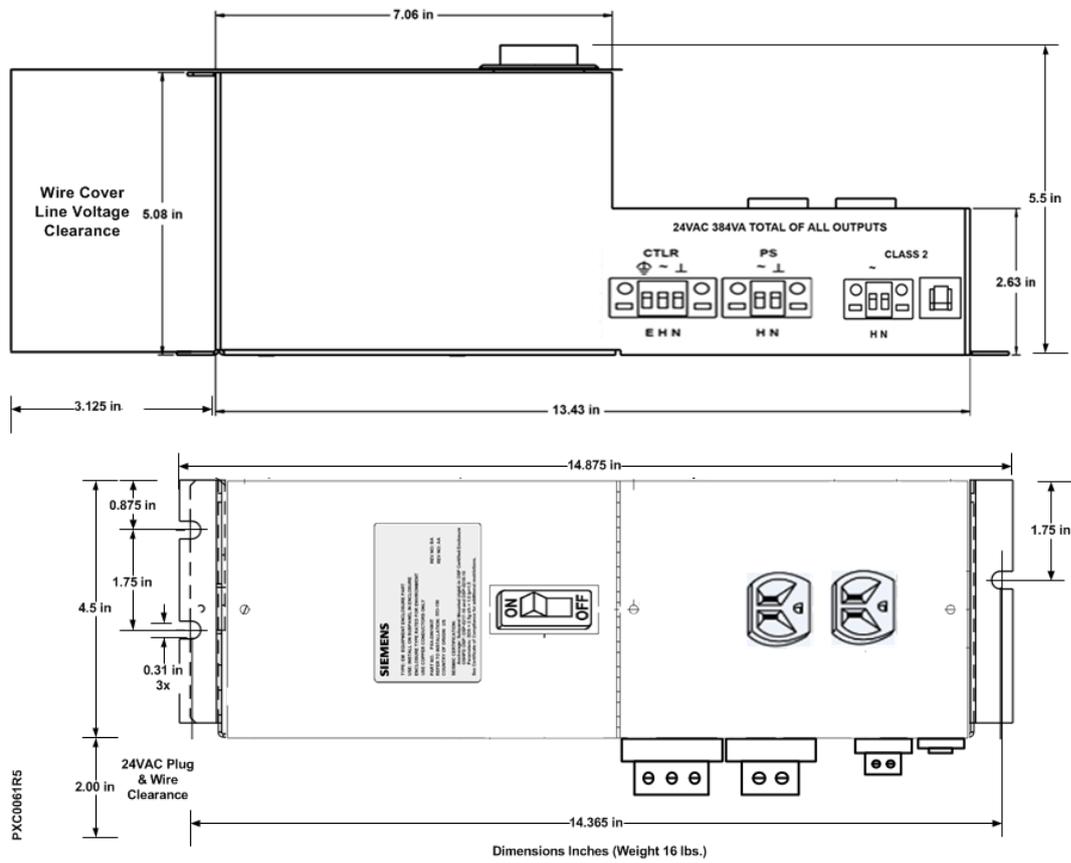


Figure 3, PX Series 384VA Service Box Mounting Dimensions

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