

# TYPE PLD LIVE-FRONT/DEAD-FRONT PAD-MOUNTED SWITCHGEAR 15kV



*The PLD Pad-Mount Switchgear combines the convenience of conventional, live-front skirted terminations for 600-ampere, three-pole, group-operated switches with the security of dead-front elbow terminators for 200-ampere, single-pole switching of fused load-feeder circuits.*

## FEATURES:

- Live-Front 600-Ampere Switch Compartments
- Dead-Front 200-Ampere Fuse Compartments
- Manual, Automatic Source Transfer, SCADA Controlled
- PLD-5, PLD-6, PLD-9, PLD-11
- Meets Switch Test Requirements in ANSI C37.72 and meets all of the preferred and optional ratings in IEEE C37.74.
- Meets Enclosure Security Requirements in ANSI C57.12.28
- 600 ampere or 1200 ampere Switches and Bus

Federal Pacific offers PLD Pad-Mounted Switchgear to provide an additional switchgear equipment choice for implementing underground distribution systems. The PLD units offer the application flexibility and operating convenience of both live-front and dead-front pad-mounted switchgear. Application flexibility is achieved by providing the PLD units in the most popular circuit configurations. Operating convenience is achieved by developing a design that combines the most desirable features for terminating cable, switching and protecting main and load

feeders, and insuring optimum security for personnel; hence, the acronym PLD — Pad-Mounted Live-Front, Dead-Front.

The switch compartments are configured for live-front operation. The switch is FP's standard Auto-jet Load-interrupter Switch with terminal pads accessible and configured to accept conventional skirted terminators. The rugged dependability of the Auto-jet switch has been laboratory tested and field proven to provide ratings and performance superior to any available in air-insulated pad-mounted switchgear.

The fuse compartments are configured for dead-front operation. The fuse mountings are identical to those used in FP's dead-front line of PSE Pad-mounted Switchgear. The PLD fuse mountings incorporate FP's 200-ampere bushing wells, which meet all the requirements of ANSI 386 and accommodate loadbreak inserts for use with 200-ampere loadbreak elbow connectors.

The standard unit ratings are 15kV with 600-ampere bus. The circuit configurations are the PLD-5, PLD-9, and PLD-11. These are the most popular models in all of the pad-mounted switchgear designs. Other circuit configurations may be made available. For example, units with 1200-ampere switches and 1200-ampere bus have also been designed and built and are available in the forgoing model designs.

Cross-kinked roof lets water flow off enclosure.

One-piece roof over enclosure.

Set of three stainless steel hinges and hinge pins on each door.

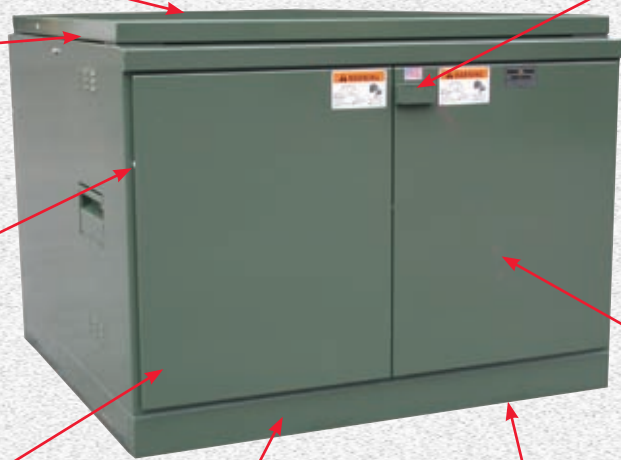
Fuse termination compartments and switch compartments ventilated at roof line and at door flanges.

11-gauge steel enclosure, roof and doors.

Bottom flange of enclosure is gasketed to protect finish.

Auto-latch self-latching door security system controls access to interior. Latching system includes hinged padlockable cover with overhang to shield padlock shackle. Pentahead bolt is not exposed when cover is padlocked; can be rotated clockwise or counterclockwise to open door. Interior latches do not have any fast moving parts and all moving parts, springs and bushings are of stainless steel.

Powder epoxy finish is electrostatically deposited and baked on to provide a tough, durable, high-gloss finish with characteristics proven by ANSI C57.12.28 standard testing to protect the metal throughout the service life of the pad-mounted switchgear.



*Enclosure integrity and security is assured with FP Type PLD Pad-Mounted Switchgear.*

Switch dual-purpose barrier (optional clear polycarbonate pictured) in alternate slide-in position.

Ground studs (optional) up front for clear access.

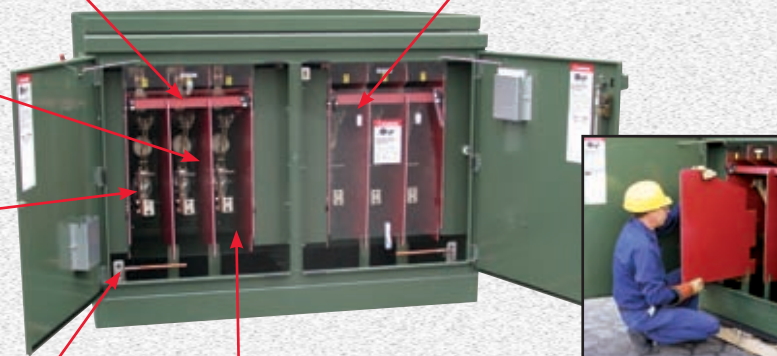
Switch terminals readily accessible for connection of skirted terminators.

Compartment ground with two-hole NEMA pad for connection of concentric neutral cable and grounding clamps.

Surge arresters (optional) mount below and to the rear of switch terminals, out of the way when installing terminators or pulling of cable.

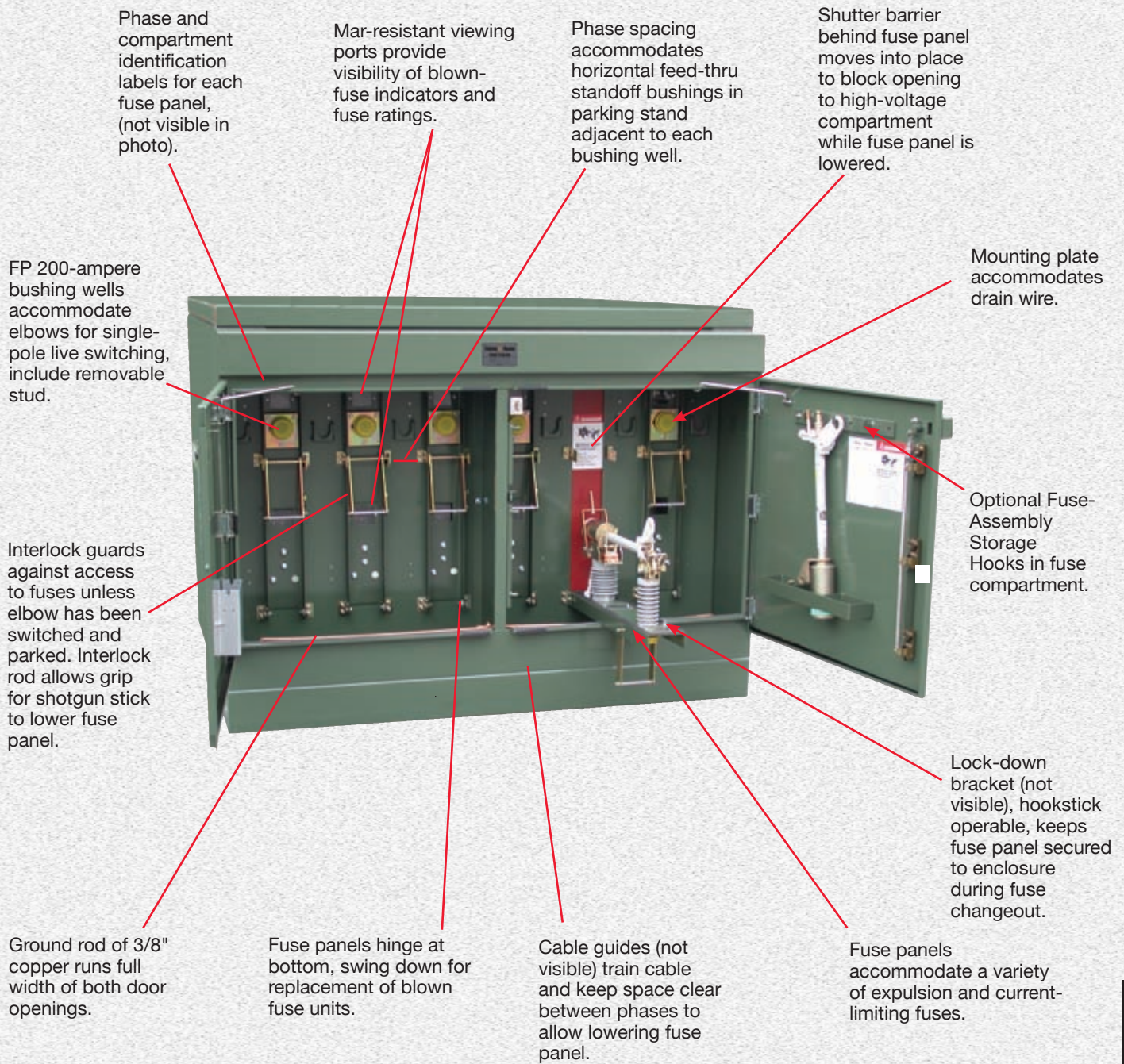
Switch dual-purpose barrier (optional clear polycarbonate pictured) in normal hanging position.

Switch interphase barriers are removable (only to be performed when unit is totally de-energized and grounded) to increase available clear space for pulling or terminating of cables.



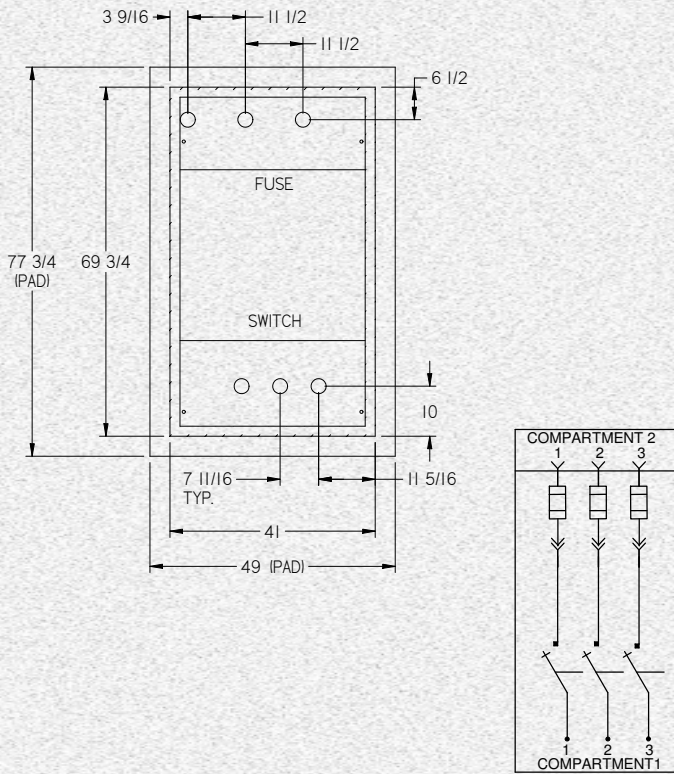
Live-Front/Dead-Front Pad-Mounted Switchgear

*Live-Front switches utilize conventional, skirted terminators and eliminate the need for costly, difficult to handle 600-ampere elbow connectors.*

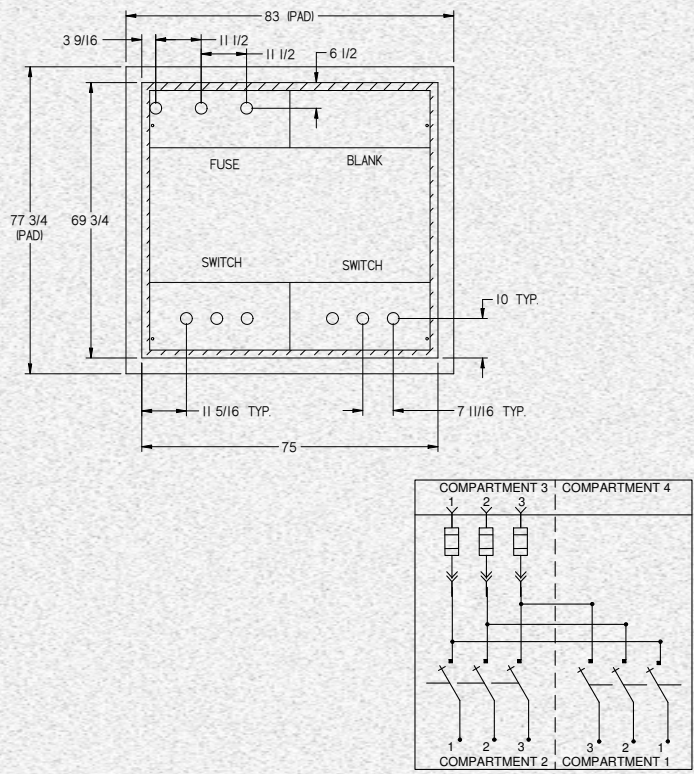


*Interior view of fuse-termination compartment of FP PLD Pad-Mounted Switchgear. Unit includes many features to assure ease of operation for personnel when switching elbows or inspecting and re-fusing 200-ampere circuits.*

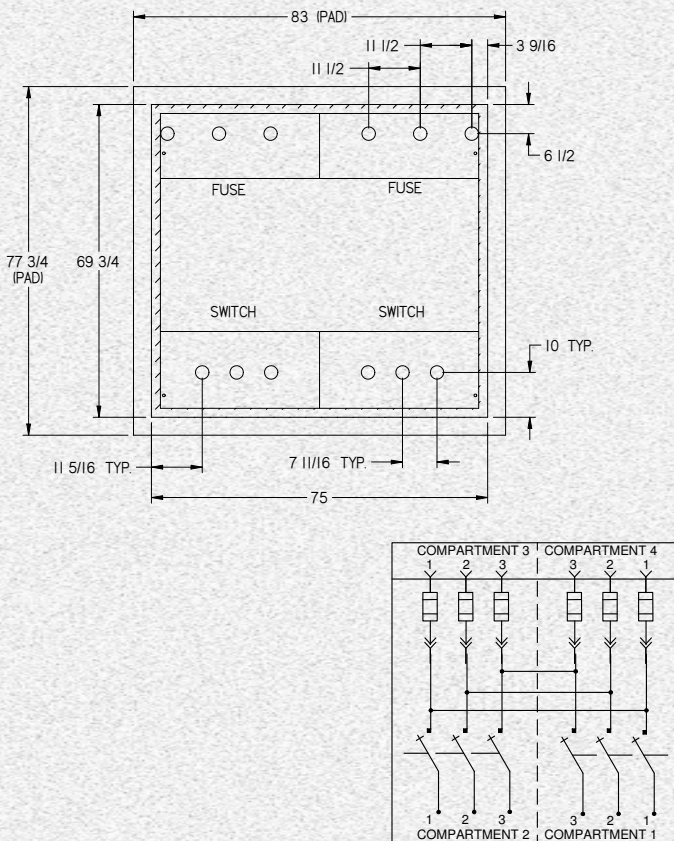
# PLD-5



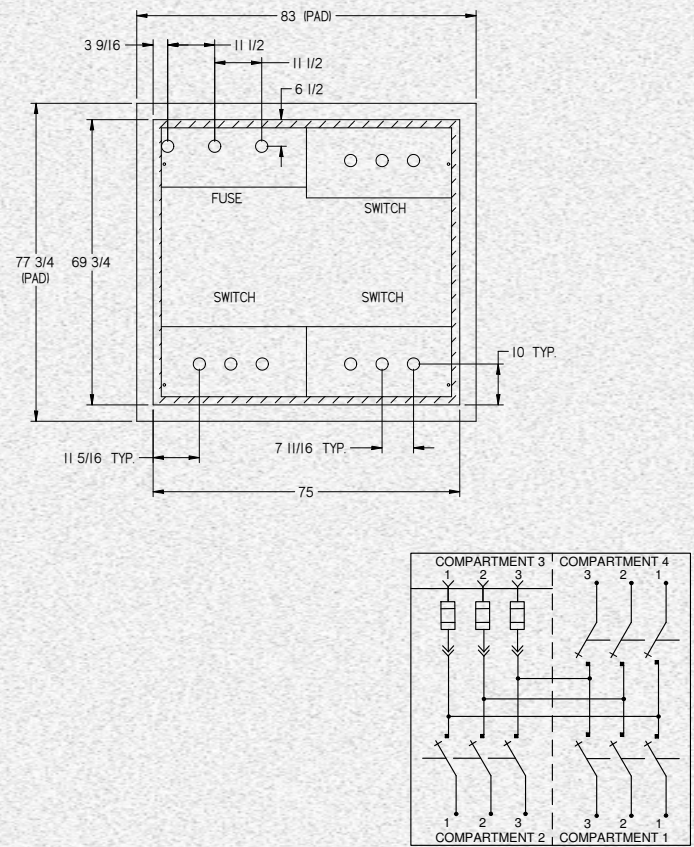
# PLD-6



# PLD-9



# PLD-11



Live-Front/Dead-Front Pad-Mounted Switchgear

Typical dimensions and configurations for models of FP PLD Pad-Mounted Switchgear. Refer to factory for other available circuit configurations.