

Pad Mount Deadfront Primary Metering Gear

Typical Features

The primary metering enclosure is available in single or three phase 5-35kV, 200A and 600A continuous current ratings, suitable or use on wye, grounded wye or delta design systems. It is constructed for connection to the utility system with load-break separable insulated connectors (supplied by the user.) The enclosure is designed to accept outdoor three-phase meter sockets as specified by the customer. The instrument transformer compartment is separated from the elbow compartment by a steel equipment plate. Separate access is provided for each compartment. A door safety barrier is provided inside the instrument transformer compartment, as recommended in the National Electrical Code. The primary metering enclosure is intended for outdoor installation and is completely assembled prior to shipment.

Construction

Primary metering enclosures meet ANSI standards. For maximum strength, the standard unit is built of 12 ga. sheet steel, fully welded construction, and the cover cross-kinked for water run-off and rigidity. Also available in stainless steel or aluminum.

The enclosure has an open bottom with a "C" channel with a 1.5" lip for strength and ease of mounting to the pad.

Doors for the separable elbow and meter compartments include three-point latching and a non-ferrous captive penta- or hex-head bolt. Stainless steel hinges and a captive door holder. At least two parking stands per phase included.

The grounded metal barrier separating the compartments is light gray powder coated for long-life and high-contrast for safety.

The standard finish is electrostatically applied polyester powder with a Munsell green color 7GY3.29/1.5 and has a minimum thickness of 2 mils (other colors available).

Grounding provisions are placed for ease of installation and operation.

Equipment

Bushings

Bushings are 15kV through 35kV class, 200A or 600A and meet all aspects of ANSI/IEEE or latest revision. Available in loop or radial feed with one (1) or two (2) tap configuration. Standard 18" with up to 21" deep elbow compartments available.



Barriers

The removable phase barriers are white glass-reinforced polyester NEMA GPO-3 class material. The standard door barriers are clear Lexan to allow full visual of components. White GPO-3 door barriers are available upon request. Large vertical handle supplied for ease of removing door barriers with gloves or hotstick. Optional pentabolts on phase barriers for added security.

Accessories

All safety and bushing identification decals are provided as well as an external indication of the "elbow" and "meter" side.

Instrument Transformers

CT's and PT's (customer specified ratio) can be supplied, installed, and wired. The unit can also be supplied without transformers for customers that prefer to install and wire their own transformers.

Universal Mounting Plates and Slide-In Rails

ITs are mounted on universal mounting plates. CT slides into slide-in rails at the top of the enclosure and can then be tightened into position. 5052 aluminum universal mounting plate prevents galvanic reaction with Aluminum plate of CT. The slide-in rail feature allows for easier and safer install and removal of CT during maintenance.

Meter Socket

Meter sockets (ring and ringless) and test switches are available installed and wired to meet utility requirements. Bolted-in side panels with no exposed hardware are on both sides of the enclosure for convenient mounting of field installed meter socket.

