



PRIMARY METERING SWITCHGEAR

WITH GROUP OPERATED DISCONNECT SWITCH



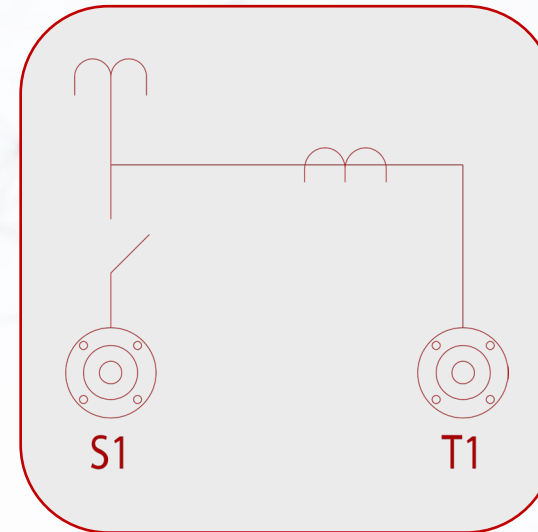
KEY FEATURES

- ❖ Primary metering switchgear housed in a fiberglass outdoor weatherproof enclosure with stainless steel hardware
- ❖ Ultra-strong, fire retardant, corrosion resistant construction
- ❖ Fiberglass laminate guaranteed against degradation of strength under normal use and service for a period of twenty-five (25) years.
- ❖ Free-standing hot dipped galvanized steel frames standard allowing for the enclosure to be removed for easy access to all equipment
- ❖ Group operated loadbreak disconnect switch provides isolation and visible break
- ❖ Instrument transformers from all manufacturers can be supplied, mounted, and connected with copper bus bar to bushings
- ❖ Secondary wiring and color coding per customer specification installed in non-metallic liquid tight conduit and fittings
- ❖ Meter base and test switch per customer specification installed on enclosure or junction box for remote meter locations

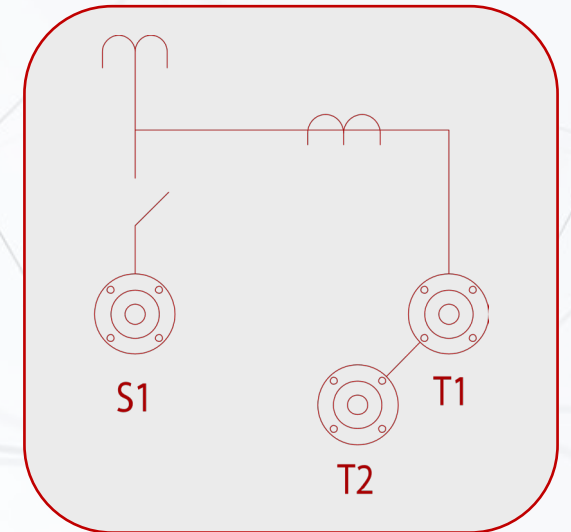


BUSHING ARRANGEMENTS

- ❖ One source and one or two tap radial configurations available.
- ❖ Bolt-in type cable to air bushings with clamping ring and gasket to allow for field replacement
- ❖ Group operated loadbreak disconnect switch
- ❖ 200 or 600 amp cable to air bushings, 25kV class pressure molded epoxy bushing standard on both 15kV and 25kV units with 125kV BIL rating.
- ❖ 10 gauge galvanized steel bushing plate with angle stiffeners for rigid elbow operation
- ❖ Three phase WYE connect
- ❖ Front cover of 1/4" clear non-conductive Lexan for visible break and visual inspection with black line schematic on reflective yellow vinyl tape



Radial 1 Tap

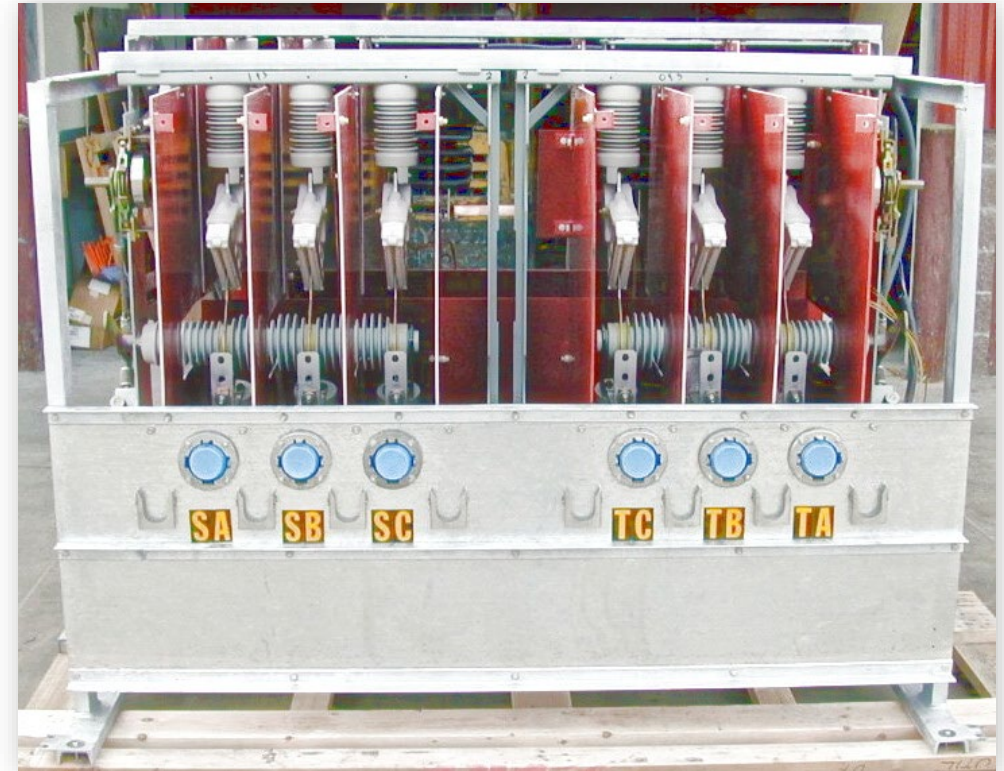


Radial 2 Tap

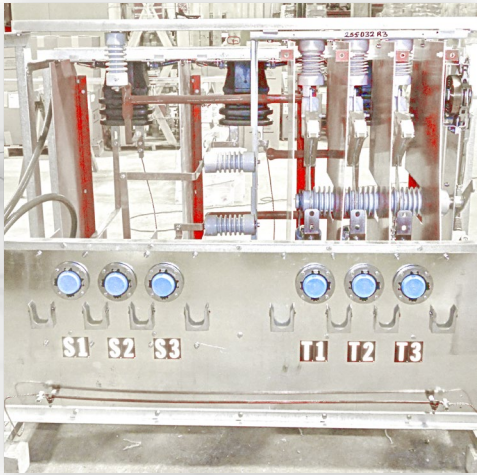
KEY FEATURES

ELBOW SIDE

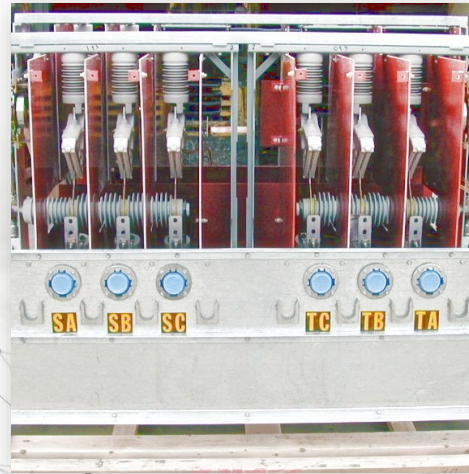
- ❖ Primary metering switchgear with group operated loadbreak switch
- ❖ S&C Mini-Rupter® group operated loadbreak three phase switch, 25kV, 600 amp, 125 BIL, 22,400A RMS ASYM
- ❖ Free standing hot dipped galvanized steel frame with lifting provisions, designed to withstand electrical and mechanical stresses
- ❖ Circuit isolated schematic with transformer symbols and source/tap bushing identified and numbered
- ❖ Cable to air bushings per IEEE STD 386
- ❖ 3/8" solid copper ground bar
- ❖ Stainless steel identification plate on both the frame and enclosure identifying the model number, electrical rating, serial number, and date of manufacture



ELBOW SIDE DETAILS



200 or 600 amp cable to air bushings, 25kV class pressure molded epoxy bushing standard on both 15kV and 25kV units with 125kV BIL rating.



Front cover of 1/4" clear non-conductive Lexan for visible break and visual inspection with black line schematic on reflective yellow vinyl tape



Heat shrink material on copper bus, heavy duty 25kV

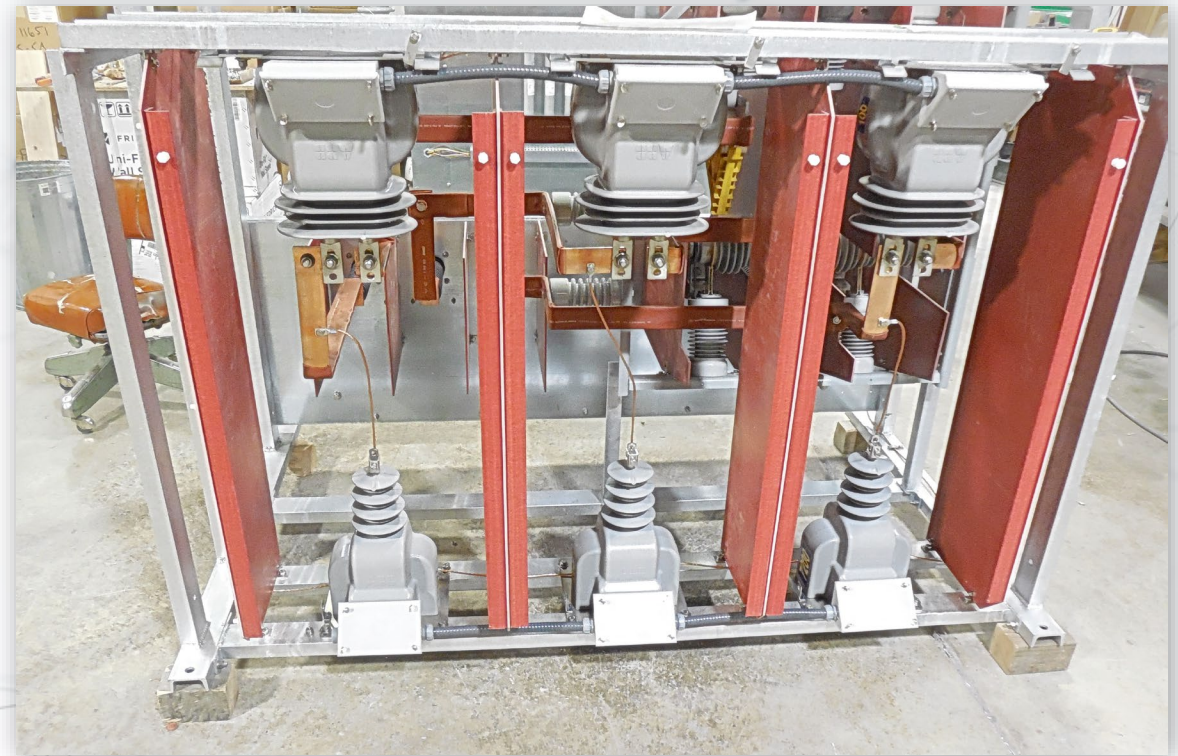


Fiberglass gel coat white storage pocket & switch operating handle with a stainless steel access door hardware

KEY FEATURE

TRANSFORMER SIDE

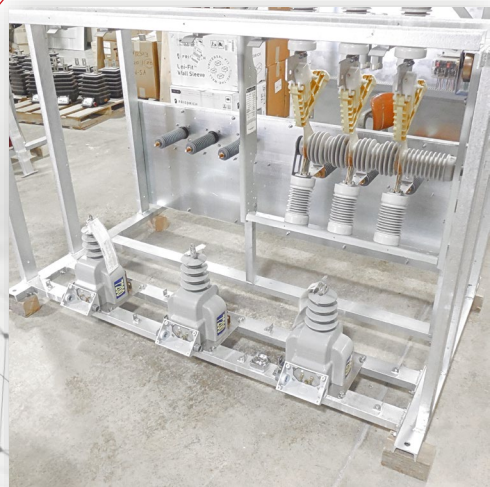
- ❖ CT and VT outdoor transformers, 15/25kV, 110/150kV BIL
- ❖ Full height phase and ground barriers provided with appropriate clearances for rated voltage. The barriers made of 3/16" NEMA GPO-3 material with GPO-3 stiffener angles. Separate phase cover barriers of 1/4" clear non-conductive Lexan for visual inspection
- ❖ 600 amp copper bus with high voltage heat shrink tubing for rigidity and appropriate clearance.
- ❖ Non-metallic liquid tight conduct between transformers and meter base. Customer specified color coded secondary wiring
- ❖ Stainless steel sliding bracket on CT base allows for ease of installation or removal with the enclosure in place.
- ❖ The switchgear is in complete conformance with applicable NEC, ANSI, IEEE, and NEMA standards in addition to IEEE C57.12.28 / IEEE C57.12.29, Pad mounted Equipment Enclosure Integrity Standard



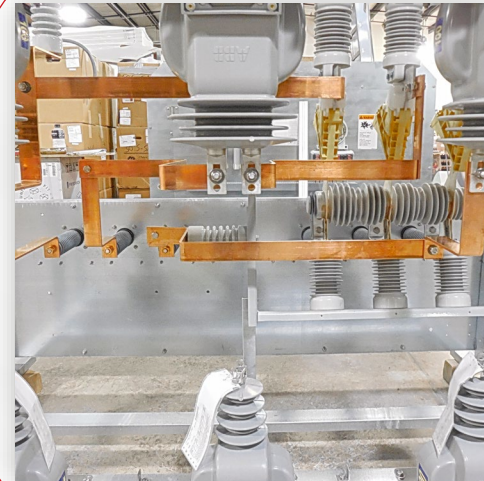
TRANSFORMER SIDE DETAILS



Separate phase cover barriers
of 1/4" clear non-conductive
Lexan for visual inspection



Galvanneal Free-
Standing Frame with Top
Supported S&C Mini-
Rupter® Group Operated
disconnect Switch



1/4" X 2" copper bus



Slide-in CT stainless
steel mounting hardware
allows for ease of
installation or removal

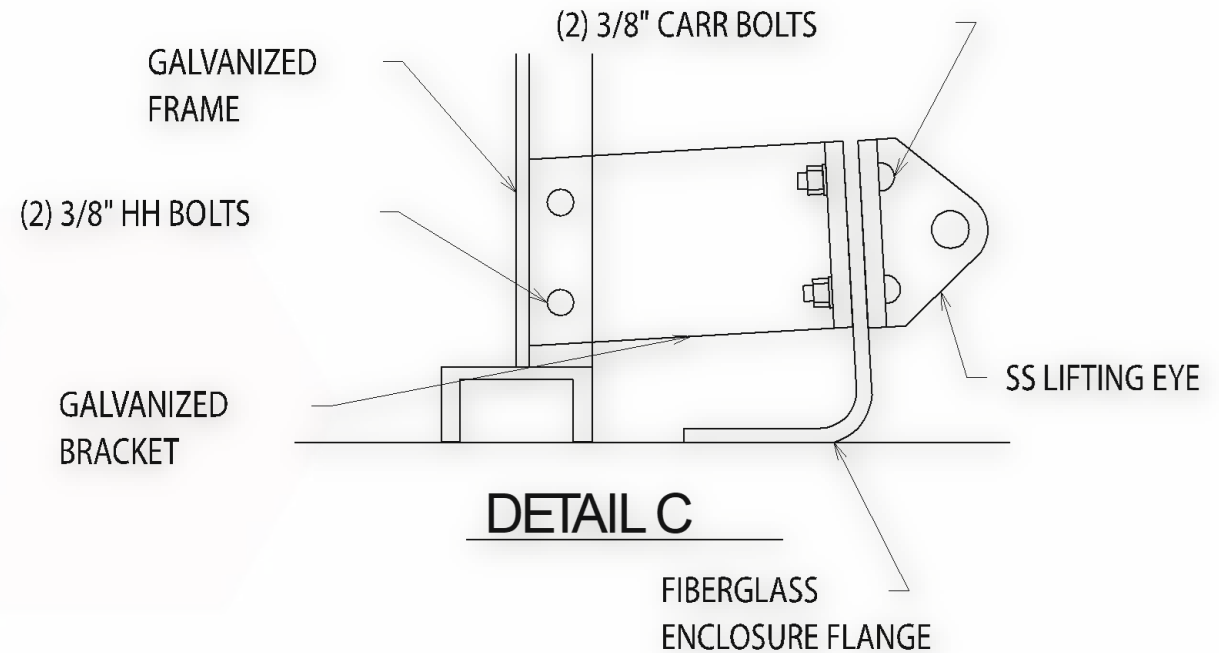
ONSITE INSTALLATION



Exterior Lifting Eye



Interior Frame
Connecting Plate



- ❖ Lifting eyes on all for corners four lifting frame and enclosure as one unit. Allows unit to be installed without disturbing secondary wiring
- ❖ Removable interior connecting plate allows enclosure to be removed if needed.

OPTIONAL MOTOR OPERATOR



PAD motor assembly operates a switch in 4-5 seconds. An optional faster motor is available.

- ❖ Open and close travel limits set via the simple travel set control located on the front panel of the controller
- ❖ A decoupler that enables motor activation without changing switch position
- ❖ Provision for padlocking the motor when the switch is in the open or closed position; either coupled or decoupled
- ❖ Stall-out timer
- ❖ Provision for manual operation (manual handle is provided)
- ❖ Adjustable mechanical stops



ORDERING KEY

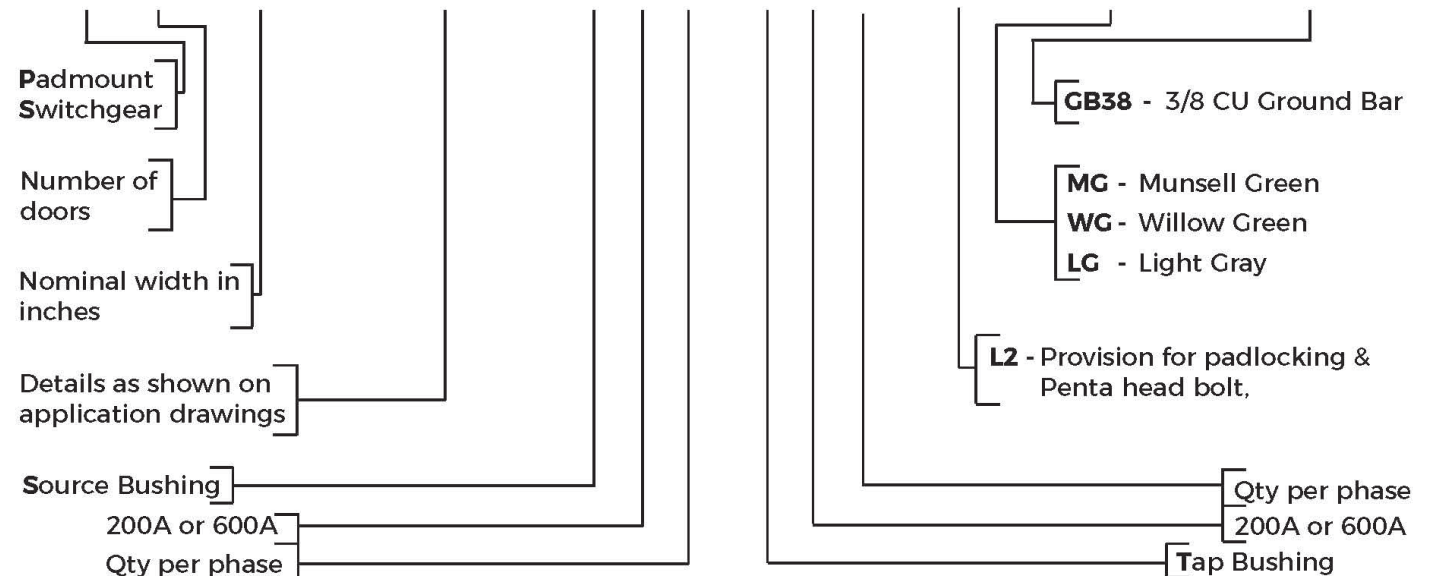
METERING SWITCH CONNECT

NOTES

- ❖ Nominal dimensions of the enclosure are 86" w x 80" deep x 58" high
- ❖ Custom box pads are available with cable entry opening and 30" height
- ❖ Refer to individual primary metering switchgear drawings for equipment supplied, along with pad & anchor bolt dimensions

EXAMPLE:

PS4-86-2540-S21-T21-L2-MG-GB38

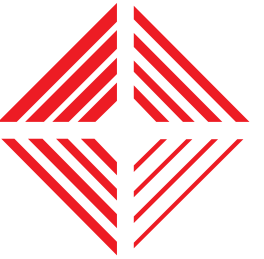


NOTE:

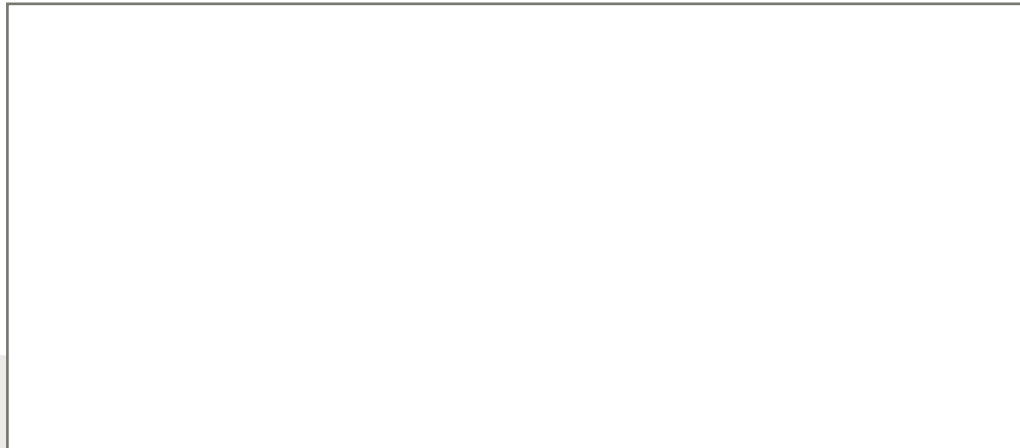
Refer to individual padmount primary metering switchgear drawings for equipment supplied, dimensions & location, along with pad & anchor bolt dimensions.

THANK YOU

**POWER
DESIGN
INC.**



SALES REPRESENTATIVE



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