

PRIMARY METERING SWITCHGEAR

15/25/35kV NON-SWINGOUT PANEL SERIES



KEY SELLING POINTS

PRIMARY METERING – 15/25/35 kV NON-SWINGOUT PANEL MODELS

- ❖ **PAD MOUNT ENCLOSURE:**
Weatherproof, outdoor-rated fiberglass housing with stainless steel hardware.
- ❖ **MATERIAL DURABILITY:**
Fiberglass laminate guaranteed against strength degradation under normal conditions for 25 years.
- ❖ **FRAME STRUCTURE:**
Free-standing, hot-dipped galvanized steel frames for full equipment access; optional stainless-steel frames available.
- ❖ **TRANSFORMER INTEGRATION:**
Compatible with instrument transformers from all manufacturers; connections made via copper bus bar to bushings.
- ❖ **WIRING & CONDUIT:**
Secondary wiring color-coded per customer specs, installed in non-metallic, liquid-tight conduit and fittings.
- ❖ **METERING:**
Custom meter base and test switch installed on enclosure or remote junction box per customer requirements.



ELBOW SIDE

PRIMARY METERING – 15-25-35 kV NON-SWINGOUT PANEL FEATURES

❖ FRAME DESIGN:

- **Material:** Hot-dipped galvanized steel
- **Type:** Free-standing with lifting provisions
- **Capability:** Designed to handle electrical and mechanical stresses

❖ SCHEMATIC CLARITY:

- **Type:** Phase-isolated schematic
- **Features:** Clearly marked transformer symbols with identified and numbered source and tap bushings

❖ BUSHING COMPLIANCE:

- **Specification:** Cable-to-air insulated bushings per IEEE Std 386

❖ GROUNDING:

- **Included:** 3/8" solid copper ground bar or specification requirements

❖ IDENTIFICATION:

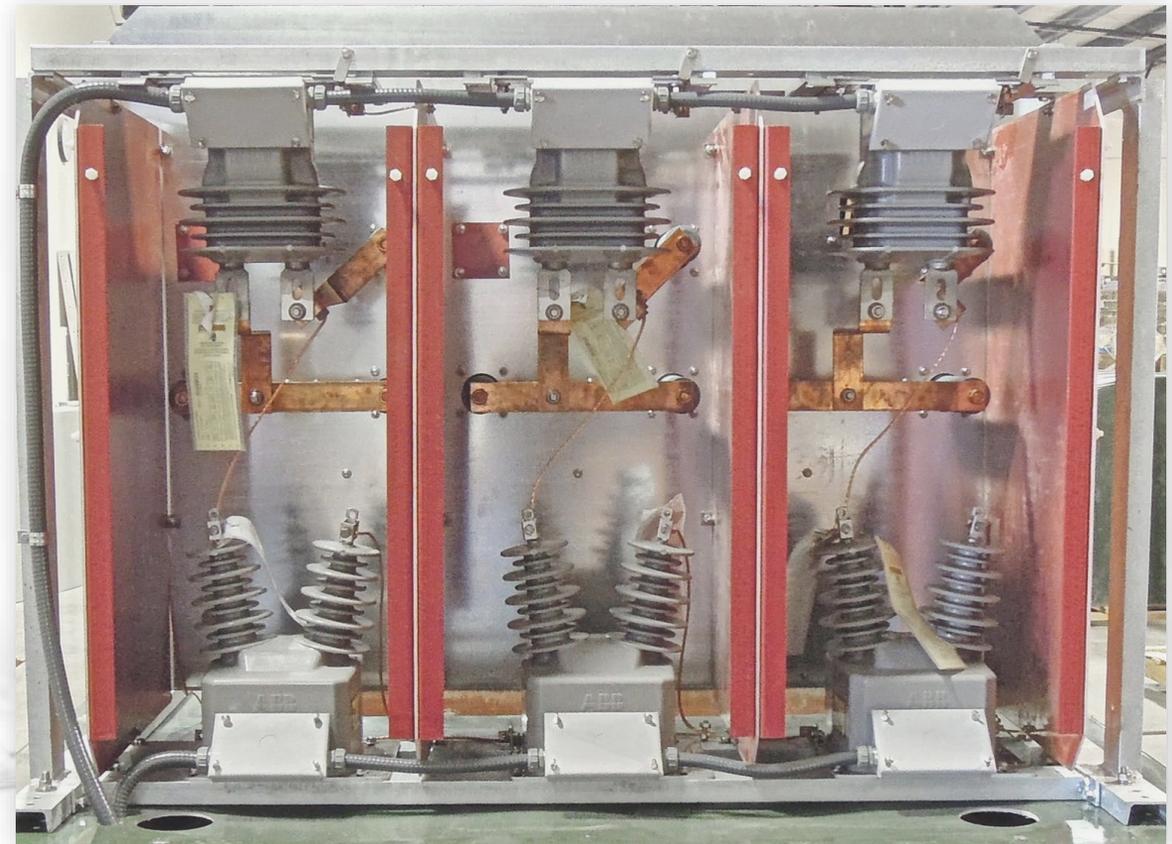
- **Tags:** Stainless steel serial tag on both frame and enclosure
- **Label Info:** Model number, electrical rating, serial number, and date of manufacture



TRANSFORMER SIDE

PRIMARY METERING – 15-25-35 kV NON-SWINGOUT PANEL FEATURES

- ❖ **CT & VT TRANSFORMERS:**
Outdoor-rates 15/25kv with 110/150kV BIL rating
- ❖ **PHASE BARRIERS:**
Full-height phase and ground barriers made of 3/16" NEMA GPO-3 with stiffening angles for rated voltage clearance
- ❖ **PHASE COVER BARRIERS:**
Separate 1/4" clear non-conductive Lexan barriers allow visual inspection
- ❖ **COPPER BUS:**
Sized to match the supplied bushing ampacity
- ❖ **CONDUIT & WIRING:**
Non-metallic, liquid-tight conduit from transformers to meter base; includes customer-specified color-coded secondary wiring
- ❖ **EASE OF INSTALLATION:**
Stainless steel sliding bracket on CT base allows for easy installation/removal with enclosure in place
- ❖ **STANDARDS COMPLIANCE:**
Fully conforms to NEC, ANSI, IEEE, and NEMA standards including:
 - IEEE C57.12.28 (Pad-Mounted Enclosure Integrity Standard)



BUSHING SCHEMATIC

PRIMARY METERING – 15-25-35 kV NON-SWINGOUT PANEL DETAILS

❖ SOURCE AND TAP CONFIGURATIONS:

- Multiple configurations available
- Bolt-in cable-to-air bushings with clamping ring and gasket enable field replacement

❖ EPOXY BUSHING RATINGS:

- 2, 3, or 4 cable to air bushing per phase layout
- 200, 600, or optional 900A air-insulated 25kV class pressure-molded epoxy bushing standard on 15 and 25V units with 125KV BIL rating or 200, 600, or optional 900A air-insulated 35kV class pressure-molded epoxy bushing standard on 35V units with 150KV BIL rating

❖ ELECTRICAL CONFIGURATION

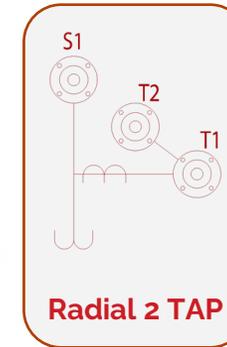
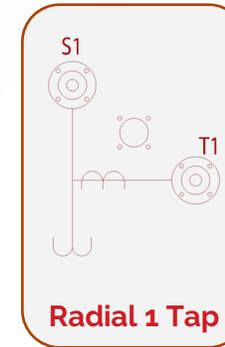
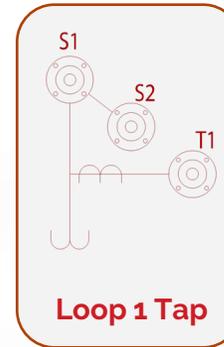
- Available in three-phase WYE or Delta connection. Also available in single phase

❖ SCHEMATIC LABELING:

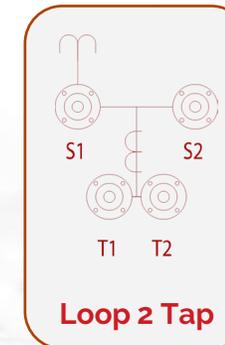
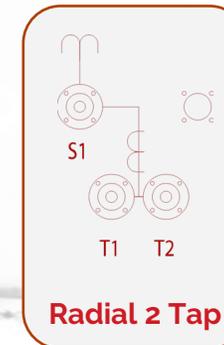
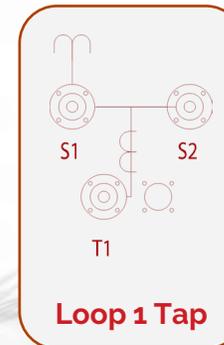
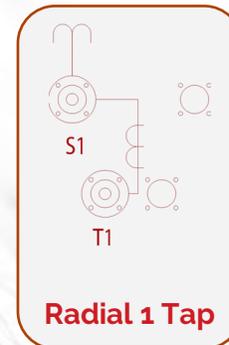
- Black line diagram printed on reflective yellow vinyl tape, & single phase

❖ EXPANSION PROVISIONS:

- Additional bushings can be added later (capped at factory)



3 BUSHINGS PER PHASE



4 BUSHINGS PER PHASE

ONSITE INSTALLATION

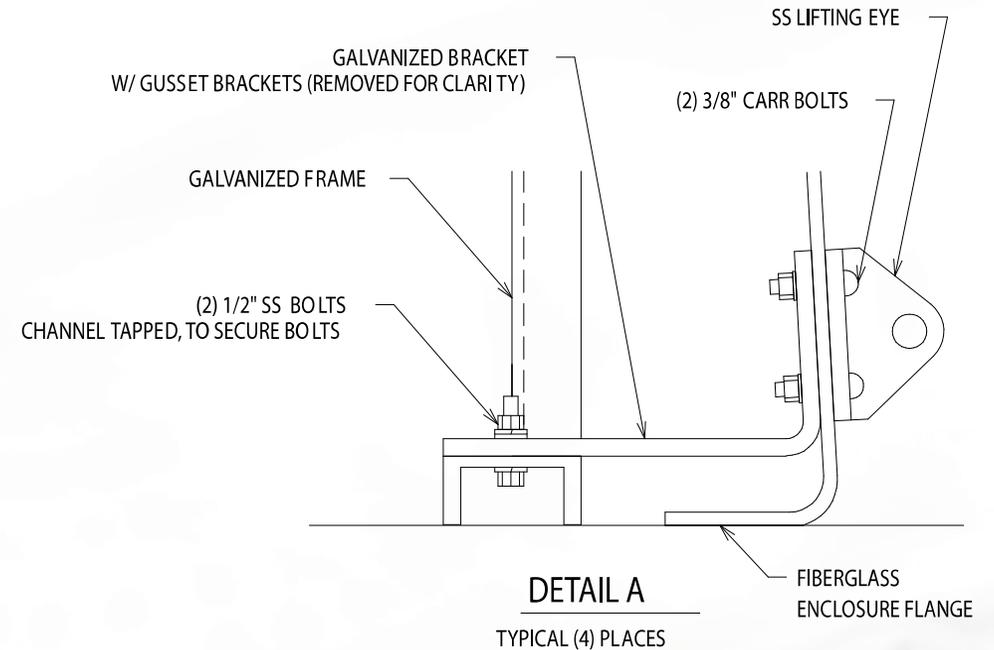
PRIMARY METERING – 15-25 kV NON-SWINGOUT SERIES INSTRUCTIONS



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

ORDER KEY

PRIMARY METERING – 15-25 kV NON-SWINGOUT PANEL SERIES

❖ NOMINAL DIMENSIONS:

Approx: 74" wide x 60" deep

Heights: 53", 58", or 64" (varies by voltage and transformer manufacturer)

❖ TRANSFORMER COMPATIBILITY:

- CT and VT outdoor transformers rated for 15/25kV, with 110/150kV BIL connected with copper bus bar to bushings
- 600 A Cable-to-air type per IEEE STD 386

❖ WIRING

- Includes secondary wiring between CTs & PTs
- Supports customer-specified meter base and test switch
- Stainless steel sliding bracket on CT base for easy install/removal with enclosure in place

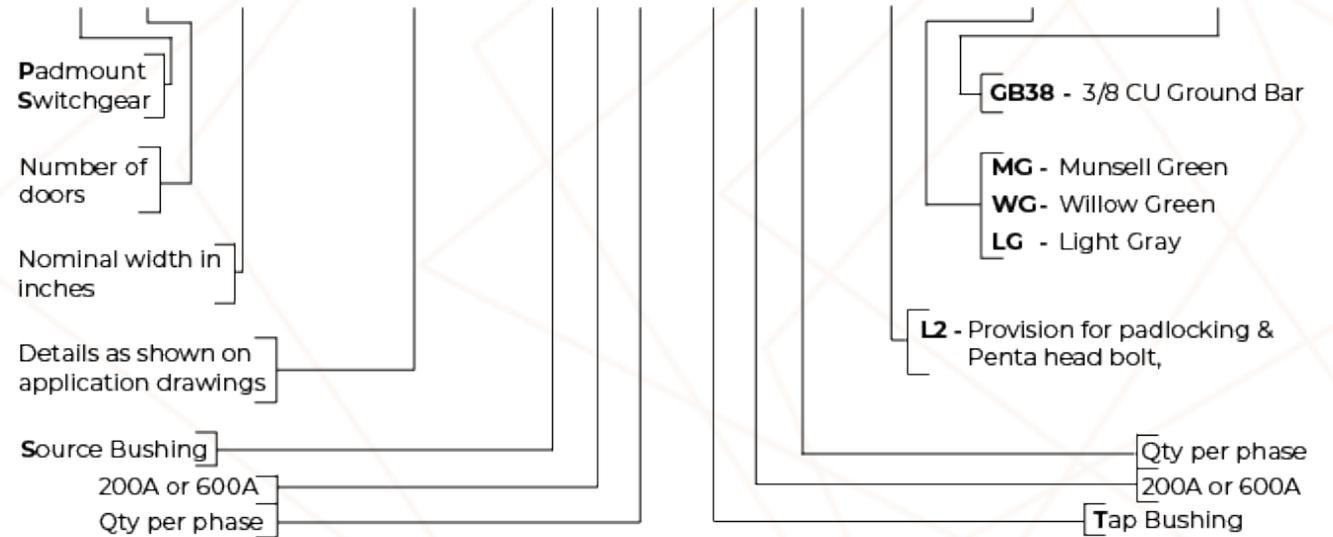
❖ GROUNDING:

- Included: 3/8" solid copper ground bar

❖ BOX PADS: Custom options with 30" height and cable entry openings

Contact our sales department if you have special requirements.

PS4-74-XXXX-S22-T21-L2-MG-GB38



NOTE

Refer to pad mount primary metering drawings for equipment dimensions & location, pad & anchor bolt dimensions

ORDER KEY

PRIMARY METERING – 35 kV NON-SWINGOUT PANEL SERIES

❖ NOMINAL DIMENSIONS:

Approx.: 86" wide × 60" deep

Heights: 53", 58", or 64" (varies by voltage and transformer manufacturer)

❖ TRANSFORMER COMPATIBILITY:

- CT and VT outdoor transformers rated for 35kV 150kV BIL connected with copper bus bar to bushings
- 600 A Cable-to-air type per IEEE STD 386

❖ WIRING

- Includes secondary wiring between CTs & PTs
- Supports customer-specified meter base and test switch
- Stainless steel sliding bracket on CT base for easy install/removal with enclosure in place

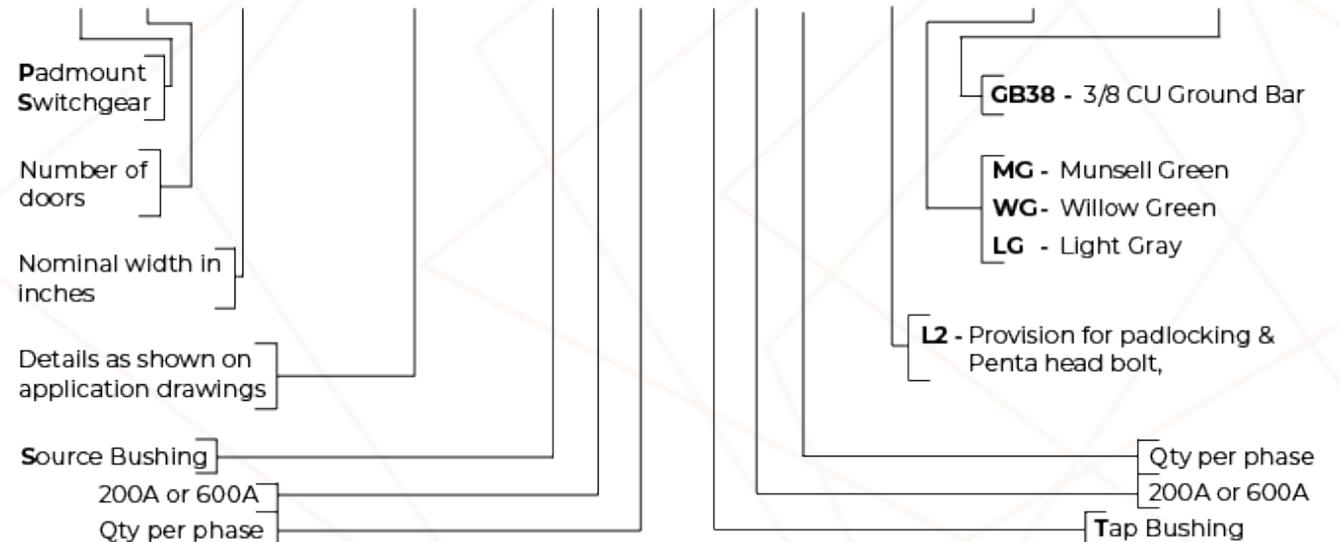
❖ GROUNDING:

- Included: 3/8" solid copper ground bar

❖ BOX PADS: Custom options with 30" height and cable entry openings

Contact our sales department if you have special requirements.

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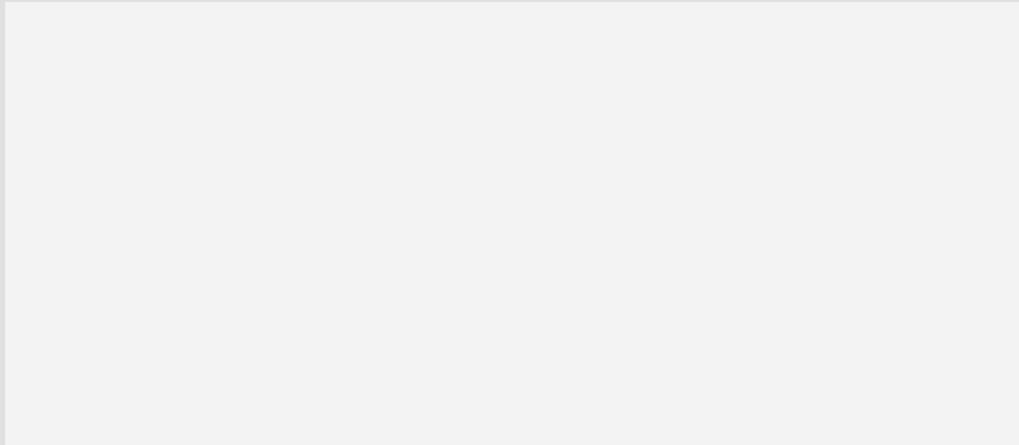


NOTE

Refer to pad mount primary metering drawings for equipment dimensions & location, pad & anchor bolt dimensions

THANK YOU

SALES REPRESENTATIVE



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