

Dry Type Transformers

Dry Type Transformer



- Custom designs to fit existing line-ups
- Retro fitting dry transformers in liquid locations
- Custom bus work to meet existing connections
- Custom enclosure and packaging options
- Meeting all IEEE/CSA standards
- UL approved varnish and VPI system

The photo to the right is an AMR PEMCO dry type transformer



Dry Type Capabilities & Solutions



- Winding voltage up to 35 KV and 200 KV BIL
- Winding configurations
 - Distribution
 - Multiple pulse
 - Phase shifting
 - Zig zag grounding
 - Scott T connection
- Reactors and power quality filters
- Ancillary equipment
 - Fused load break switches
 - Medium voltage breakers / relays
 - Metering devices



An AMR PEMCO transformer in the building process

Transformers Protective Insulation Systems





Varnish Dip Process



Vacuum Pressure Impregnation (VPI)



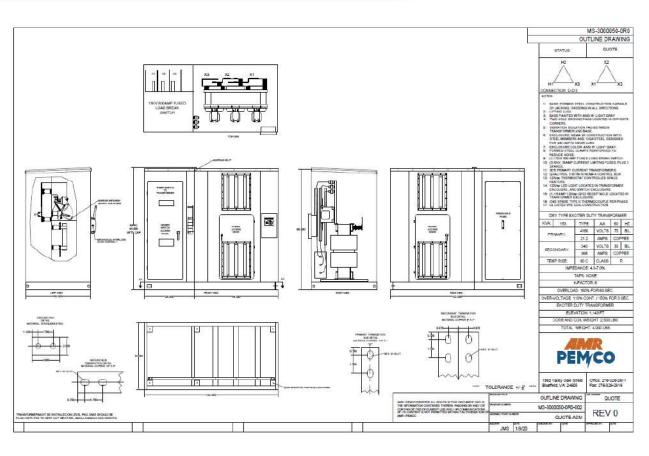
Sealed Coil

New Dry Type Product



AMR PEMCO's experienced group of electrical design engineers construct the transformer around the following critical requirements on a job by job bases

- Frequency variations
- Magnetic balance
- Voltage surges
- Magnetic balance
- Harmonics
- Overload cycles



Substation Skid Product



- PEMCO dry transformer or purchased oil filed
- Primary and/or secondary
 Breakers (fixed or draw out)
- CT's (primary & secondary)
- PT's (primary & secondary)
- Primary switch (fused if required)
- Vacuum breaker
- Power quality metering if required
- Multiple feeder



Substation Skid Product



Example:

- Purchased 3 MVA liquid filed transformer (13,800V – 4160V)
- Primary fused load break air disconnect switch
- Secondary vacuum circuit breaker
- HV/LV surge arresters
- In-line fail safe capacitor trip device
- Panel mounted indication lights
- Secondary CT's (multi-ratio)
- Overcurrent/ground fault protection



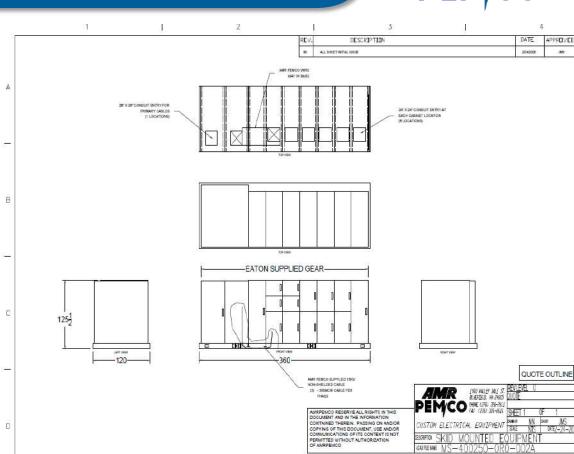
This is an AMR PEMCO Substation Skid

Substation Skid Product



Example

- Customer supplied 5 MVA liquid filed pad mount transformer
- Customer supplied 5kV MV switchgear line-up
- AMR PEMCO suppled engineered skid, mounting of customer supplied equipment, and all connections
- Testing: phase relation between transformer installed equipment terminals to ensure cables have not been crossed up



Mobile Substation Skid Product



Trailer Substation w/Dual Secondary

- Purchased 5000/6250/7000 KVA liquid filed transformer (13,800V – 13800V x 7200V)
- Input: 13800VAC main vacuum breaker with visible disconnect, SEL-751 relay, open/close lights, ARC flash protection, lighting and utility circuits
- Output: grounding resistor to limit current to 15AMP w/ SE-330 NGR monitor
- AMR PEMCO suppled enclosures on engineered skid, mounting to purchased axel mobile trailer
- All connections are made between input gear/transformer/output gear



This is an AMR PEMCO Mobile Substation

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