

# Pole Mount Features

## Standard Features

- Meets or exceeds current ANSI, NEMA and RUS standards as applicable
- Shell-type core design for silicon core units; core-type design for amorphous metal core units
- Interlaced low-voltage windings on all core-type units and on 1-bushing shell type units through 25 kVA
- Vertical triplex design for three-phase transformers
- Wet-process porcelain high-voltage bushings (oil-filled at 125 kV BIL and above for reduced radio interference)
- Molded polymer or wet-process porcelain low-voltage bushings
- Tin-plated bronze terminals suitable for connection to copper or aluminum
- Low-voltage grounding provision (except step-up / step-down units)
- Low-voltage ground strap (1-bushing units only; not available on step-up / step-down units)
- Permanently stamped identification on internal secondary leads for ease of paralleling
- Tank grounding provisions
- Tank ground connector (1-bushing units only)
- Automatic pressure relief valve for added safety
- Mineral oil with oxidation inhibitor
- Mild steel tank, cover and ring
- Continuous-bead welding on lifting lugs and mounting brackets for increased safety and corrosion resistance
- Recessed tank bottom for scuff protection
- 10 kV minimum cover and ring insulation
- Corrosion-resistant cover-ring hardware
- KVA marking on tank
- Internal oil-level mark

In addition to the standard features and accessories previously listed, self-protected transformers also include the following:

- Low-voltage circuit breaker with external operating handle
- External, tank-mounted lightning arrester
- Internal, bushing-mounted high-voltage expulsion fuse

## Optional Features

- Stainless steel tank, cover and/or cover ring
- Lightning arrester mounting provisions (standard on self-protected transformers)
- Lightning arrester, externally mounted or internally-mounted under oil (externally-mounted lightning arrester standard on self-protected transformers)
- High-voltage tap switch with external operating handle: 4-2.5% taps above nominal; or 4-2.5% taps below nominal; or taps at 13800/13200/12870/12540 for units rated 14400
- Dual high-voltage switch with external operating handle
- Dual low-voltage switch (available only on step-up / step-down transformers)
- Interlaced low-voltage windings (standard on all core-type units and on all 1-bushing shell-type units through 25 kVA; not available on step-up / step-down or three-phase transformers)
- Drain valve with oil sampling device
- Temperature gauge
- Liquid level gauge
- Pressure / vacuum gauge
- Wildlife protection
- Overload warning signal light
- Emergency overload reset handle (available only on self-protected transformers)
- Tank ground connector (standard on 1-busing transformers)
- Low-voltage winding ground strap (standard on 1-bushing transformers except step-up / step-down units)
- Energy efficient amorphous metal cores (available on single-phase transformers through 100 kVA; not available on step-up / step-down transformers)
- R-Temp™ or seed-based vegetable dielectric fluid
- Custom stenciling and labeling
- Rural Utilities Service (RUS) design standards
- Canadian Standards Association (CSA) design standards
- Other non-U.S. design standards



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