

HPS Sentinel®

Energy Efficient Distribution Transformers

BENEFITS

- HPS Sentinel G, K, and H product lines meet the latest energy efficiency standards outlined by DOE and NRCan offering significant energy savings to our customers and positive societal/environmental benefits.
- Standard Type 3R enclosure suitable for indoor or outdoor applications.
- For our customers, higher efficiency translates into:
 - Increased profitability due to lower operating costs
 - Decreased cost of ownership over the lifetime of the transformer
 - Less air conditioning cost due to lower heat emissions
- Expanded catalog product offer - up to 1000kVA
- Standard 10kV BIL rating provides increased reliability and protection against critical equipment failure (including voltage spikes and other line transients).
- Standard integral floor and wall mounting brackets up to 45kVA allow for faster installation.
- All units utilize a uniform 220°C insulation system with a 80°C, 115°C, or 150°C temperature rise.
- Industry leading design solutions, technology and materials continue the legacy of quality and reliability in all HPS products.



FEATURES

Core & Coil Construction:

- Manufactured from quality non-aging, cold rolled, silicon steel laminations using state-of-the-art equipment
- Cores are precision cut to close tolerances which eliminates burrs and improves performance
- Core is coated to prevent the ingress of moisture
- Precision wound with copper or aluminum conductors that are electrically balanced to minimize axial forces during short-circuit conditions
- Robust interface between core & coils for better short circuit performance

Conductor material: Copper or Aluminum

Temperature rise: 150°C typical (low rise options avail.)

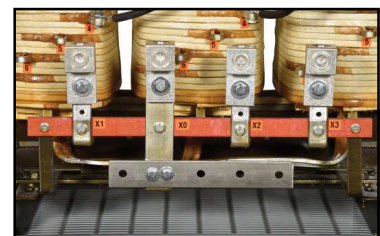
Insulation system: 220°C



Standard type 3R enclosure on all low voltage HPS transformers



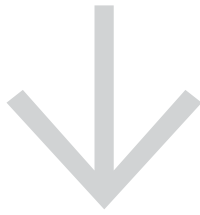
Integrated wall mounting brackets for added convenience at no extra cost



Expanded neutral bar for multiple customer connections

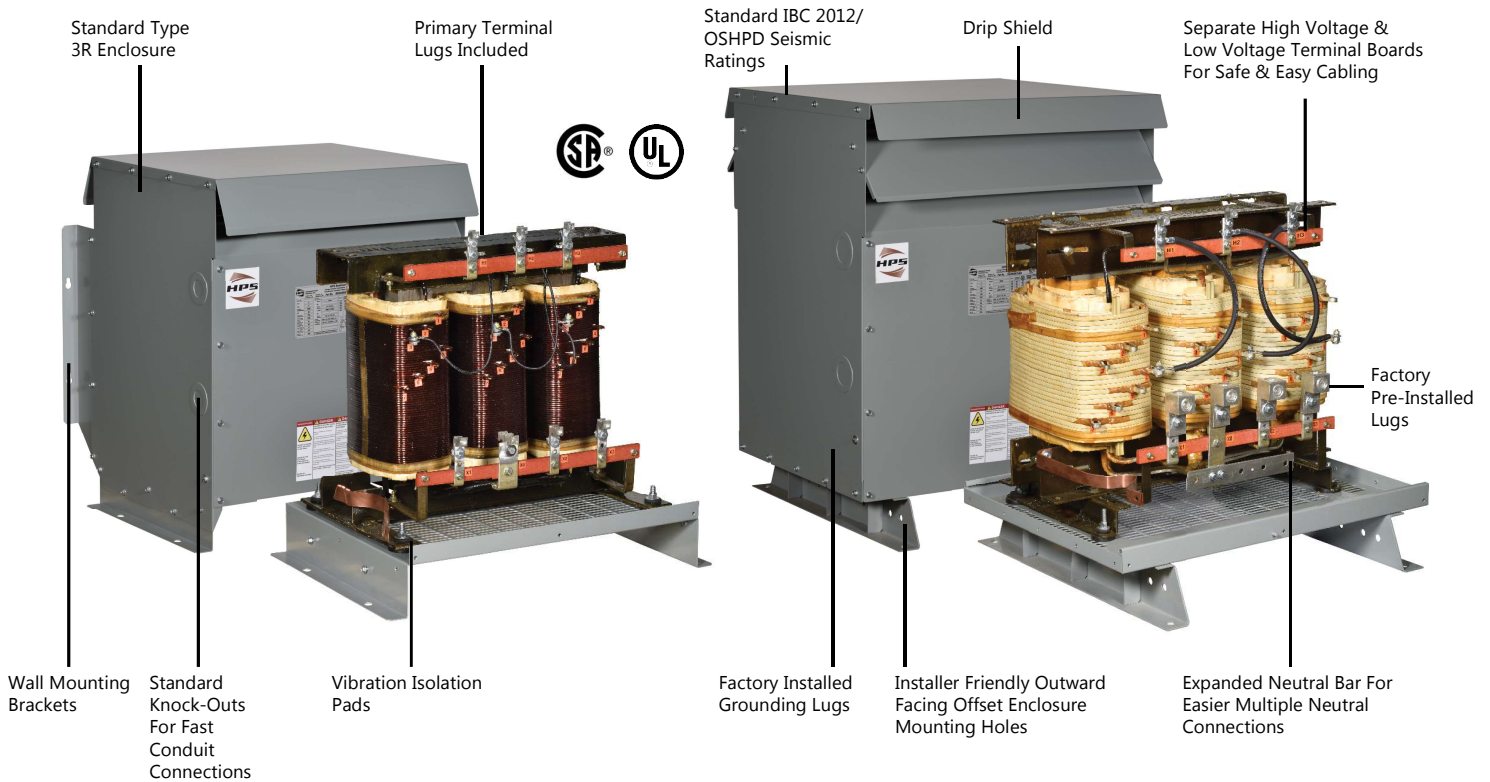
Installation made fast & easy!

Tired of spending extra money on labor and material to install optional transformer features? Purchasing an HPS Sentinel Transformer will save you all these additional costs. HPS Sentinel has these optional features pre-installed as part of our standard product line.



Testing

All HPS transformers are tested at HPS prior to shipment. They must meet very stringent quality criteria prior to release.



Factory installed main grounding lugs



Bottom cable entry area where applicable



Offset outward facing floor installation holes for easy power tool access