



Hammond Power Solutions Inc.

your *first*  
source for  
transformers



Encompass Program  
HPS Referenced Products



[www.hammondpowersolutions.com](http://www.hammondpowersolutions.com)

# Referenced Products



Hammond Power Solutions Inc. (HPS) is the North American stand-alone leader for the design and manufacture of high quality standard and custom electrical dry-type transformers and related engineered magnetic devices. HPS excels at designing products that have very specific size and power constraints for many demanding applications. Having an extensive engineering resource, HPS offers the broadest range of electrical products in the industry and as a result, the company has grown in many diverse markets and provides services to many global leaders.

Hammond Power Solutions Inc., with its headquarters in Guelph, Ontario, Canada, operates out of seven facilities:

Guelph, Ontario

Walkerton, Ontario

Monterrey, Mexico

Baraboo, Wisconsin

Compton, California

Granby, Quebec

## QUALITY

HPS has been regarded for quality since its very inception. Customers have come to rely on our products and services and continue to depend on us for support at the most critical stages of their need. Extensive testing programs and an exemplary field service record ensures that HPS products not only meet all the standards necessary, but more importantly, fulfill customers expectations and requirements.

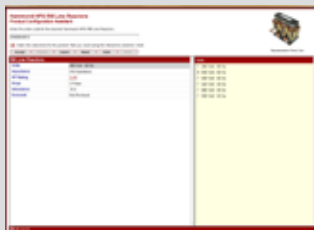
## DESIGN CAPABILITIES

HPS engineering services are located throughout all manufacturing facilities. Our designs are cost effective and our transformers are built with modern manufacturing techniques. We particularly emphasize our Value Added Engineering whereby our design staff will interface with your team to produce the optimum transformer. Our 3-D modelling design and CAD facilities permits quick and effective communication when time is vital.

## PROGRAM PARTNERSHIP

In an industry where demands must be resolved quickly and effectively, HPS strives to provide customers with product information that is easily accessible. To help customers efficiently meet these needs, HPS has partnered with Rockwell Automation® as a member in their Encompass™ Program. The Encompass™ Program aligns Rockwell Automation® with companies, such as HPS who's products compliment their product offering to provide customers the best solution to solve their application challenges. Through this partnership, HPS and Rockwell Automation® are able to apply a unique combination of innovation, application expertise, and engineering knowledge, which all provide immense customer value.

As a member in the PartnerNetwork™ Program, HPS has recently included several products in Rockwell Automation®'s ProposalWorks™ selection software. ProposalWorks™ allows customers to build complete quotes, proposals, and determine the exact catalog number for the item required. To access ProposalWorks™, simply go to [www.rockwellautomation.com/en/e-tools/](http://www.rockwellautomation.com/en/e-tools/).





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## LINE REACTORS

HPS 'RM' series line reactors can be used on the input and output side of variable speed drives.

Standard features include:

- Sizes available for 0.5 to 1200 HP motors
- Maximum system voltage is 1.2 kV
- UL listed, CSA certified and CE marked
- Standard core & coil (optional TYPE 2 or 3R enclosure)
- Maximum 60 Hz
- 10 Year Warranty



## ENERGY EFFICIENT DRIVE ISOLATION TRANSFORMERS

HPS drive isolation transformers are suitable for both AC and DC variable speed drives. They are sized to match standard motor horsepower and voltage ratings.

Standard features include:

- HPS Tribune™ Energy Efficient Drive Isolation meets TP1 and C802.2 at 35% of rated load
- Meets UL and CSA short circuit withstand
- 3ph ratings from 7 kVA to 660 kVA in many voltages
- Available in aluminum, copper and optional shield
- Type 3R enclosure (optional type 4, 12 or stainless)
- 10 Year Warranty



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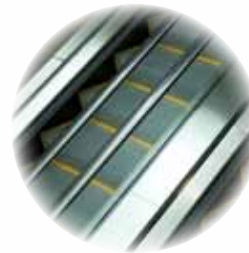


## HPS UNIVERSAL™ BUCK-BOOST TRANSFORMERS

HPS Universal™ offers an economical solution to the adjustment of line voltages that are slightly above or below normal.

Standard features include:

- VA range from 50 VA to 5000 VA
- 1ph, welded core construction
- Made with high quality, high permeability silicon steel laminations
- Encapsulated core & coils in a combination silica sand and resin compound
- Type 3R enclosure (optional Type 4, 4X and 12 enclosures)
- 10 Year Warranty



## HPS FORTRESS™ COMMERCIAL ENCAPSULATED TRANSFORMERS

The HPS Fortress™ is an innovative design that provides the ideal solution for commercial applications where quality, ease of installation, and low cost are key.

Standard features include:

- 1ph ratings from 50 VA to 37.5 kVA, 3ph from 2 kVA to 150 kVA
- Standard shield on all 3ph units and 1ph units 750 VA and up
- Type 3R Enclosure
- CSA and UL approved
- 10 Year Warranty





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## HPS TITAN® ENCAPSULATED TRANSFORMERS FOR HAZARDOUS & HARSH LOCATIONS

The HPS Titan® series are specifically designed for installation in harsh environments. Typical applications are oil & gas plants, marine and shipboard installations, steel mills, mining, etc.



Standard features include:

- 1ph ratings from 50 VA to 37.5 kVA, 3ph from 6 kVA to 150 kVA
- Type 3R enclosure (optional type 4, 12 or stainless)
- Meets UL Standard 1604 - Class 1, Division 2, Group A, B, C & D Hazardous Locations and ABS Type Approval
- Standard shield on all 1ph and 3ph units
- 10 Year Warranty



## DRY-TYPE MEDIUM VOLTAGE (POWER) DISTRIBUTION TRANSFORMERS

Our medium voltage (power) distribution transformers are regarded for their high level of quality and service reliability that has become synonymous with HPS transformer products. These transformers are suitable for any commercial, industrial, manufacturing, or production process application including the most demanding of environments.



Standard features include:

- Ratings up to 34 MVA and 46 kV class
- Standard and Energy Efficient units available
- Environmentally friendly
- Encapsulation Resin or Epoxy
- Short Circuit withstand ability tested and documented
- Fully compliant with CSA, NEMA, ANSI, UL, and IEC
- 1 Year Warranty



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## HPS SENTINEL® SERIES ENERGY EFFICIENT GENERAL PURPOSE TRANSFORMERS

Energy efficient general purpose transformers are designed for linear loads and are most frequently used for applications such as commercial buildings which will supply a variety of general loads (10 Year Warranty).

- HPS Sentinel®
  - Meets DOE 10 CFR Part 431 and C802.2 efficiencies; at 35% of rated load
- HPS SuperSentinel®
  - Exceeds DOE 10 CFR Part 431 and CSA C802.2 efficiencies at 35% of rated load
  - Meets the NEMA Premium® guidelines



## HPS SYNERGY® SERIES ENERGY EFFICIENT K-FACTOR TRANSFORMERS

Energy efficient k-factor transformers are designed to tolerate heating due to harmonics associated with non-linear loads (10 Year Warranty).

- HPS Synergy®
  - Meets DOE 10 CFR Part 431 and C802.2 efficiencies at 35% of rated load
- HPS SuperSynergy®
  - Efficiency will meet or exceed DOE 10 CFR Part 431 and CSA C802.2 standards for linear loads even at 50% of rated load when measured under a non-linear load up to K13
  - Meets the NEMA Premium® guidelines





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## HPS CENTURION® SERIES ENERGY EFFICIENT HARMONIC MITIGATING TRANSFORMERS

Designed to treat the harmonics generated by computer equipment and other non-linear, power electronic loads (10 Year Warranty).

### HPS Centurion®

- Meets DOE 10 CFR Part 431 and CSA C802.2 efficiencies at an operating range from 35%-65% of rated linear load and a non-linear load profile up to K20 in an operating range from 35% to 50%
- HPS SuperCenturion®
- Exceeds DOE 10 CFR Part 431 and C802.2 efficiencies at 35% of rated load and when measured under a non-linear load profile up to K20 at an operating range of 35% to 65%
- Meets the NEMA Premium® guidelines



## HPS MILLENNIUM™ ENERGY EFFICIENT MEDIUM VOLTAGE DISTRIBUTION TRANSFORMERS

HPS Millennium™ 2.5 & 5 kV class transformers are designed to step down incoming high voltage power to utilize voltages for commercial, institutional or industrial applications.

- Meets DOE 10 CFR Part 431 and SOR/94-651 efficiency levels at 50% of rated load
- 1ph ratings from 15 kVA to 333 kVA, 3ph from 15 kVA to 1500 kVA
- Standard Primary Voltages of 2400 and 4160 volts
- UL listed and CSA certified
- Available in aluminum, copper and optional shield
- Type 3R enclosure (optional Type 4, 12 or stainless)
- 1 Year Warranty





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