



Hammond Power
Solutions Inc.

HPS TITAN®

1.2kV Class

Hazardous Location

**(UL Listed, Class 1, Division 2, Groups A, B, C & D and
class I, Zone 2, Group IIC, T3 Hazardous Location)**

Encapsulated Distribution Transformer

Typical Specification

Canada

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1 GENERAL

1.1 SCOPE

- A This section defines dry-type, encapsulated enclosed transformers as indicated.

1.2 RELATED DOCUMENTS

- A Drawing and general provisions of the Contract, including General and Supplementary Conditions and Specification Sections, apply to this Section

1.3 REFERENCES

- A ANSI C57.12.01/NEMA ST 20-Dry Type Transformer For General Applications
- B IEEE C57.110-1998
- C UL certified (UL file number: E258346), CSA
- D ANSI/ISA 12.12.10 – Class 1, Division 2, Groups A,B,C,D and Class I, Zone 2, Group IIC, T3 Hazardous Location
- E ABS Type Approval for Marine Duty Service and Offshore Applications

1.4 SUBMITALS

- A Submit shop drawing and product data for approval and final documentation in the quantities listed according to the Conditions of the contract.
 - i Customer name. Customer location and customer order number shall identify all transmittals.
 - ii Product Data including KVA rating, Temperature Rise, Detailed enclosure dimensions, Primary & Secondary nominal voltages, primary voltage taps, no load & full load losses per NEMA ST20, impedances, unit weight, warranty.

1.5 STORAGE AND HANDLING

- A Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from potential damage from weather and construction operations. Store so condensation will not form on or in the transformer housing and if necessary, apply temporary heat where required to obtain suitable service conditions.
- B Handle transformer using proper equipment for lifting and handling, use when necessary lifting eye and/or brackets provided for that purpose.

1.6 WARRANTY

- A The transformer shall carry a 10 year limited warranty.
(For details refer to the manufacturer's published warranty)

2 PRODUCTS

2.1 GENERAL CONSTRUCTION:

- A All single phase and three phase transformers shall be encapsulated type. The primary side of each transformer shall, if applicable, be provided with taps that meet or exceed NEMA standards.
- B Transformers shall be designed, constructed and rated in accordance with UL, CSA, NEMA and ABS standards. If shipping to Europe, transformer will also have to be manufactured in accordance to CE standards and carry a CE mark.

2.2 VOLTAGE AND KVA REQUIREMENTS:

- A Primary Voltage: Single Phase – [208/240/277][347/380][240X480][600][other] Volts
Three Phase - [480][600][600/480][other] Volts
- B Secondary Voltage: Single Phase - [120/240][other] Volts
Three Phase - [208Y/120][240D][480Y/277][600Y/347][other] Volts

- H Prior to energizing transformer, verify secondary voltages and if necessary adjust secondary taps.
- I Report for the Commission of the transformer shall include:
 - i Primary & Secondary Voltages
 - ii Primary & secondary THDi & THDv