





Certificate: 1379247

Master Contract: 153973

Project: 80131711

Date Issued: 10/21/2022

cooled, dry-type transformers for power, heating and lighting circuits, Insulation System Class 220, Temperature Rise 150C, 50Hz, 50/60Hz or 60Hz: Copper winding: 3 Phase, 30 - 2000 KVA; 1 Phase, 20 - 1333 KVA; Options that may be provided (see notes below): 1, 2, 3, 4.

Models
PART B - Section 1: 5 KV Class Transformers

**PART B - Section 2: 2.5 kV Voltage Class, 20 KV BIL Isolation Transformers, Drive Isolation Transformers, Oversized Drive Isolation Transformers and Interconnected Star Transformers built from 5kV Voltage Class, 30 KV BIL Isolation Transformers type construction.**

Models
PART B - Section 2: 5 KV Class Transformers

**PART C - Section 1: Epoxy Potted Isolation Transformers: Low voltage indoor/outdoor, dry-type transformers for power, heating and lighting circuits, Insulation System Class 180 or 185, Voltage Class 1.2 KV (1200 Volts and less) primary and secondary, 50Hz, 50/60Hz or 60Hz: Copper winding: 3 Phase, 3 - 75 KVA, Temperature Rise 115C; 3 Phase, 9 – 45 KVA, Temperature Rise 80C; 1 Phase, 3 - 50 KVA, Temperature Rise 115C. Options that may be provided (see notes below): 4 and 5.**

Models
Part C- Section 1: Epoxy Potted, 1.2 KV Class Transformers

**PART C - Section 2: Autotransformers, Drive Isolation Transformers, Oversized Drive Isolation Transformers, Zero-Sequence Filters and Interconnected Star Transformers built from Epoxy Potted Isolation Transformers type construction.**

Models
PART C - Section 2: Epoxy Potted, 1.2 KV Class Transformers

**PART D: Component Type, special purpose enclosures Type 2, 3R, 3RX, 4, 4X, 5 or 12 for use with certified submittor's transformers of different sizes.**

Models
PART D: Special Purpose Enclosures

**PART E - Section 1: Isolation Transformers, Low voltage, indoor, air cooled, dry-type transformers for power, heating and lighting circuits, Insulation System Class 220, Temperature rise 115C, Voltage Class 1.2 kV (1200V and less) primary and secondary, 300 Hz: Copper winding: 3 Phase, 20kVA. Options that may be provided (see notes below): 1, 2, 3, 4.**



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Models
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PART E - Section 1: 300 Hz Transformers
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**PART E - Section 2: Autotransformers, Drive Isolation Transformers, Oversized Drive Isolation Transformers and Interconnected Star Transformers built from Isolation Transformers type construction. Options that may be provided (see notes below): 1, 2, 3, 4.**

Models
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PART E - Section 2:
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Notes:

1. Lower KVA rating with lower temperature rise, between 55°C and 150°C may be assigned to the transformers.
2. Transformers may be open type or enclosed type with enclosures Type 1, 2, 3R, 3RX, 4, 4X, 5 or 12; Wall or floor mounted.
3. Transformers may be of fan cooled type with increased KVA rating (up to 33-1/3 percent).
4. Transformers may have different KVA rating with an associated K-factor rating.
5. Equipped with enclosure Types 3R or 3RX (enclosed type). Wall or floor mounting.



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**APPLICABLE REQUIREMENTS**

CSA C22.2 NO. 47-13 (Fifth Edition) (R2018) - Air-cooled transformers (dry type) Edition 5.0 (R2018)