

## MAGNETICS

### POWER TRANSFORMER

- Rectifier Duty  
- Navy Shipboard



Espey Mfg. designs and manufactures liquid cooled power transformers for power isolation, power distribution, high voltage pulse, and rectifier converter applications.

#### Features:

- Twelve Pulse AC/DC Converter Application
  - Balanced  $L_1$
- Liquid Cooled
- Low Structure-Borne Noise
- Combination of Vacuum Pressure Impregnation and Cast Coil Technology for operation in condensing environment

#### Qualification:

- MIL-S-901D Shock (Grade A)
- MIL-STD-167 Vibration (Shipboard)
- MIL-STD-740-1 and MIL-STD-740-2 (Airborne and Structure Borne Noise)

#### Specifications:

##### Electrical Specifications

- **Input:**  
Rated Voltage: 440 VAC, 60Hz, 3 PHASE  
(per MIL-STD-1399/300A)  
Rated Frequency: 60Hz
- **Output: (120kVA NOMINAL)**  
Secondary 1: 114 VAC, 3 PHASE DELTA, 240 Arms  
Secondary 2: 114 VAC, 3 PHASE WYE, 240 Arms  
Secondary 3: 60 VAC, 3 PHASE DELTA, 46 Arms  
Secondary 4: 115 VAC, 3 PHASE WYE, .5Arms  
Secondary 5: 8 VAC, 1 PHASE, .5 Arms

##### Mechanical Specifications

- **Weight:** 710 lbs
- **Construction:** per MIL-PRF-27, Grade 5
- **Insulation Class:** U, (200°C)
- **Coolant:** WATER at 0.77GPM
- **Coolant Passage Material:** CRES
- **Pressure Withstand:** 275 psig

Rev. B