

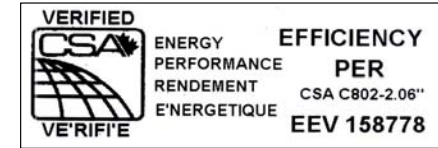
DIVISION OF TRANSFACTOR INDUSTRIES INC.  
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## ENERGY EFFICIENT TRANSFORMER

- 1 Phase Isolation
- Dry Type
- ANN Self Cooled

Purchaser: TBA  
 PO#: TBA  
 SWO#: TBA  
 Qty: TBA

**PRELIMINARY DRAWING ONLY**  
 This drawing may NOT truly reflect our Final Design. Any resulting order(s) must be accompanied by, or refer to this drawing and be marked with any proposed changes.



Coils: Aluminum  
 Cat. No.: SA37H-K/Z

kVA: 37.5  
 Primary: 480 Volts  
 Secondary: 120/240 Volts  
 Primary Taps: 2.5 %  
 -Taps FCAN 2  
 -Taps FCBN 2

Frequency: 60 Hz  
 Sound Level: 50 dB Max.  
 BIL: 10 kV  
 Insulation Class: 220° C  
 Temperature Rise: 150° C  
 Impedance: 4.5 - 5.5 %

Min. Efficiency: 98.2 %  
 - Calculated @ 35% Loaded

Weight: 286 Lbs

| Termination | Location | Lug Size  |
|-------------|----------|-----------|
| Primary:    | Front    | 2-14 AWG  |
| Secondary:  | Front    | 6-300 MCM |

### Wiring Connection:

| Primary: H1, H2 |       | Jumpers To: |
|-----------------|-------|-------------|
| Voltage         | % Tap |             |
| 504             | 105.0 | 1 - 1       |
| 492             | 102.5 | 2 - 2       |
| 480             | 100.0 | 3 - 3       |
| 468             | 97.5  | 4 - 4       |
| 456             | 95.0  | 5 - 5       |

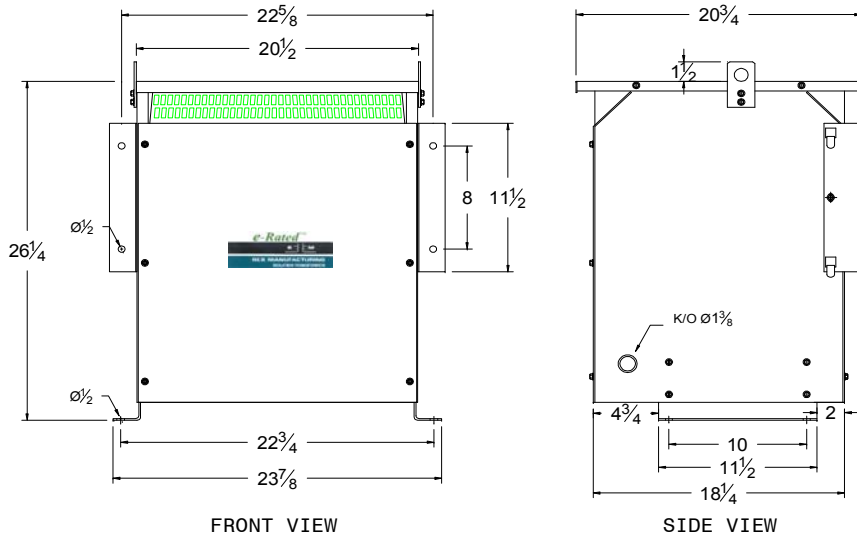
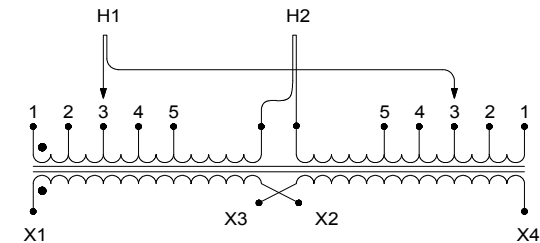
| Secondary: X1, X2, X3, X4 |                       | Connect Loads To:                 |
|---------------------------|-----------------------|-----------------------------------|
| Voltage                   | Interconnect:         |                                   |
| 240                       | X2 to X3              | X1 - X4                           |
| 120                       | X1 to X3 and X2 to X4 | X1 - X4                           |
| 120/240                   | X2 to X3              | X1 - X2 - X4<br>(X2 is a neutral) |

### Standards:

1. CSA Certified  
 - File No. LR34493
2. UL Listed  
 - File No. E108255

### Standard Features:

1. Anti-vibration pads installed between the enclosure base and the core & coil assembly
2. Ground lug provided
3. Transformer meets Efficiency per CSA C802.2
4. Transformer meets NEMA TP-1 Efficiency Level



### CSA Enclosure:

1. Type 3R (NEMA 3R)  
 - Sprinklerproof when the angle between sprinkler heads and opening in the enclosure does Not exceed 45 degree from the vertical.
2. Ventilated
3. ASA 61 grey
4. Floor/Wall mounting

|      |                        |    |             |             |
|------|------------------------|----|-------------|-------------|
| 1    | Updated vector diagram | AP | VS          | Feb.2, 2011 |
| Rev. | Remarks                | By | Approved by | Date        |

Prepared by: SA  
 Approved by: VS  
 Date: FEB.2, 2011