

## TYPICAL TEST DATA

### LV Dry Type Transformer



**MODEL #:** **9T33C2673**

Underwriters' Laboratories Inc. Listed

### RATINGS

KVA	50	Conductor	CU
Frequency (Hz)	60	Phase	1
Primary Voltage	480/240 +2/-4 X 2.5% (S)	Secondary Voltage	240/120
Current Line Primary (A)	104.17	Current Line Secondary (A)	208.33
Frame	XV173	Insulation System (°C)	220C
K Factor	1	Efficiency level (FR 431) / CSA-C802.2-18	
Temp. Rise (°C)	150	Average Sound Level (dB)	45

### LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	150.8
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>1,303.5</u>
Total Loss @ Rise + 20 °C reference (Watts)	1,454.3

### DIELECTRIC AND PRODUCTION TESTING

Induce Test @ Twice rated voltage 400 Hz per UL1561 and NEMA ST-20  
 Hipot Test for High Voltage winding to Low Voltage and Ground @ 4000 volts 60 Hz, 60 Sec  
 Hipot Test for Low Voltage winding to High Voltage and Ground @ 2500 volts 60 Hz, 60 Sec  
 Polarity additive in accordance with UL1561 and NEMA ST-20

### EFFICIENCY:

DoE 2016(10CFR 431) and CSA-C802.2-18  
 Efficiency Level

<u>Load (%)</u>	<u>Efficiency (%)</u>
16	97.85
25	98.33
35	98.30
50	98.45
75	98.17
100	97.80

### IMPEDANCE:

Impedance at reference temperature of Rise + 20 °C  
 (Calculated)

%R	2.6
%X	3.9
%Z	4.7
X/R Ratio	1.5

### REGULATION:

Regulation at reference temperature of Rise  
 + 20 °C (Calculated)

<u>Power Factor</u>	<u>Regulation (%)</u>
1	2.8
0.9	4.3
0.8	4.7

### REFERENCE VALUES:

Inrush Current (Calculated)	t= 8.33ms
I <sub>max</sub> (RMS)	≈ 130 A