

# TYPICAL TEST DATA

## LV Dry Type Transformer



**MODEL #:** **9T17A0001**

Underwriters' Laboratories Inc. Listed

### RATINGS

KVA	15	Conductor	AL
Frequency (Hz)	60	Phase	3
Primary Voltage	240D+2,-4(2.5%taps )	Secondary Voltage	208Y/120
Current Line Primary (A)	36.08	Current Line Secondary (A)	41.64
Frame	UX71A	Insulation System (°C)	220C
K Factor	1	Efficiency level	DoE 2016 (10CFR 431)
Temp. Rise (°C)	150	Average Sound Level (dB)	45

### LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	63.0
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>460.6</u>
Total Loss @ Rise + 20 °C reference (Watts)	523.6

### 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) Efficiency Level

<u>Load (%)</u>	<u>Efficiency (%)</u>
16	97.11
25	97.82
35	97.89
50	98.11
75	97.86
100	97.47

### IMPEDANCE:

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

%R	3.1
%X	1.7
%Z	3.5
X/R Ratio	0.6

### REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	3.1
0.9	3.5
0.8	3.5

### REFERENCE VALUES:

Inrush Current  $t = 8.33ms$   
 (Calculated)  
 I<sub>max</sub>(RMS)  $\approx 931.52 A$