

# TYPICAL TEST DATA

## LV Dry Type Transformer



**MODEL #:** **9T10A1002G04**

Underwriters' Laboratories Inc. Listed

### RATINGS

KVA	30	Conductor	AL
Frequency (Hz)	60	Phase	3
Primary Voltage	480D+2,-4(2.5%taps )	Secondary Voltage	208Y/120
Current Line Primary (A)	36.08	Current Line Secondary (A)	83.27
Frame	UX72A	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)	77.7
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>1,166.3</u>
Total Loss @ Rise + 20 °C reference (Watts)	1,244.1

### 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	97.98
25	98.30
35	98.23
50	98.13
75	97.64
100	97.06

### IMPEDANCE:

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

%R	3.9
%X	3.3
%Z	5.1
X/R Ratio	0.8

### REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	3.7
0.9	4.7
0.8	4.9

### REFERENCE VALUES:

Inrush Current t= 8.33ms  
 (Calculated)  
 I<sub>max</sub>(RMS) ≈ 554.7 A