

# TYPICAL TEST DATA

## LV Dry Type Transformer



**MODEL #:** **9T10A1007**

Underwriters' Laboratories Inc. Listed

### RATINGS

KVA	225	Conductor	AL
Frequency (Hz)	60	Phase	3
Primary Voltage	480D +2, -4 (2.5% taps)	Secondary Voltage	208Y/120
Current Line Primary (A)	270.63	Current Line Secondary (A)	624.54
Frame	DY77A	Insulation System (°C)	220C
K Factor	1	Efficiency level	DoE 2016 (10CFR 431)
Temp. Rise (°C)	150	Average Sound Level (dB)	55

### LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	377.2
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>5,080.9</u>
Total Loss @ Rise + 20 °C reference (Watts)	5,458.1

### 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	98.70
25	98.92
35	98.94
50	98.83
75	98.52
100	98.17

### IMPEDANCE:

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

%R	2.3
%X	4.7
%Z	5.2
X/R Ratio	2.1

### REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	2.4
0.9	4.5
0.8	5.1

### REFERENCE VALUES:

Inrush Current (Calculated)	t= 8.33ms
I <sub>max</sub> (RMS)	≈1850.52 A