

# 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	480 (+2/-4 @2.5%)	Secondary Voltage	208Y/120
Current Line Primary (A)	270.60	Current Line Secondary (A)	624.50
Frame	DY17A	Insulation System (°C)	220
K Factor	1	Average Sound Level (dB)	55
Temp. Rise (°C)	150	Efficiency standards	DoE 2016 (10CFR 431)
Electrostatic shield	None		

### LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	383.5
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>4,707.3</u>
Total Loss @ Rise + 20 °C reference (Watts)	5,090.8

### 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 levels

<u>Load (%)</u>	<u>Efficiency (%)</u>
16	98.69
25	98.92
35	98.96
50	98.86
75	98.58
100	98.24

### IMPEDANCE:

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

%R	2.10
%X	4.40
%Z	4.90
X/R Ratio	2.10

### REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	2.20
0.9	3.90
0.8	4.30

### REFERENCE VALUES:

Peak Inrush Current (Calculated)  
 I<sub>max</sub> @8.33 ms (A RMS)≈ 2667.5  
 I<sub>max</sub> @ 100 ms (A RMS)≈ 1163.3