

# TYPICAL TEST DATA

## LV Dry Type Transformer



**MODEL #: 9T10A1093**

**Underwriters Laboratories Inc. Listed**

### RATINGS

KVA	45	Conductor	AL
Frequency (Hz)	60	Phase	3
Primary Voltage	480 (+2/-4 @2.5%)	Secondary Voltage	415Y/240
Current Line Primary (A)	54	Current Line Secondary (A)	63
Frame	UX73A	Insulation System (°C)	220
K Factor	1	Average Sound Level (dB)	45
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)	137.5
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>1,137.1</u>
Total Loss @ Rise + 20 °C reference (Watts)	1,274.6

### 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 efficiency levels

<u>Load (%)</u>	<u>Efficiency (%)</u>
16	97.83
25	98.32
35	98.48
50	98.45
75	98.18
100	97.82

### IMPEDANCE:

Impedance at reference temperature of Rise + 20 °C

%R	2.5
%X	1.8
%Z	3.1
X/R Ratio	0.72

### REGULATION:

Regulation at reference temperature of Rise + 20 °C

<u>Power Factor</u>	<u>Regulation (%)</u>
1	2.5
0.9	3.0
0.8	3.1

### REFERENCE VALUES:

Peak Inrush Current	
I <sub>max</sub> @8.33 ms (A RMS)≈	1375
I <sub>max</sub> @ 100 ms (A RMS)≈	483