

# TYPICAL TEST DATA

## LV Dry Type Transformer



**MODEL #: 9T10A1004**

**Underwriters Laboratories Inc. Listed**

### RATINGS

KVA	75	Conductor	AL
Frequency (Hz)	60	Phase	3
Primary Voltage	480 (+2/-4 @2.5%)	Secondary Voltage	208Y/120
Current Line Primary (A)	90.20	Current Line Secondary (A)	208.20
Frame	UY14A	Insulation System (°C)	220
K Factor	1	Average Sound Level (dB)	50
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)	169.3
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>2,139.5</u>
Total Loss @ Rise + 20 °C reference (Watts)	2,308.8

### 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	98.27
25	98.58
35	98.62
50	98.49
75	98.11
100	97.67

### IMPEDANCE:

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

%R	2.90
%X	3.50
%Z	4.50
X/R Ratio	1.21

### REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	3.00
0.9	4.20
0.8	4.40

### REFERENCE VALUES:

Peak Inrush Current (Calculated)

Imax @8.33 ms (A RMS)≈	1018.3
Imax @ 100 ms (A RMS)≈	391.1