

# TYPICAL TEST DATA

## LV Dry Type Transformer



**MODEL #:** **9T10C1004**

Underwriters' Laboratories Inc. Listed

### RATINGS

KVA	75	Conductor	CU
Frequency (Hz)	60	Phase	3
Primary Voltage	480D +2, -4 (2.5% taps)	Secondary Voltage	208Y/120
Current Line Primary (A)	90.21	Current Line Secondary (A)	208.18
Frame	UY04C	Insulation System (°C)	220C
K Factor	1	Efficiency level	DoE 2016 (10CFR 431)
Temp. Rise (°C)	150	Average Sound Level (dB)	50

### LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	200.9
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>791.4</u>
Total Loss @ Rise + 20 °C reference (Watts)	1,992.3

### 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	98.09
25	98.52
35	98.60
50	98.62
75	98.38
100	98.05

### IMPEDANCE:

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

%R	2.4
%X	2.4
%Z	3.0
X/R Ratio	1.0

### REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	2.4
0.9	3.6
0.8	3.9

### REFERENCE VALUES:

Inrush Current (Calculated)  $t = 8.33\text{ms}$   
 I<sub>max</sub> (RMS)  $\approx 1931.00\text{A}$