

## TYPICAL TEST DATA

### LV Dry Type Transformer



**MODEL #:** **9T10C1003**

Underwriters' Laboratories Inc. Listed

#### RATINGS

KVA	45	Conductor	CU
Frequency (Hz)	60	Phase	3
Primary Voltage	480D+2,-4(2.5%taps )	Secondary Voltage	208Y/120
Current Line Primary (A)	54.13	Current Line Secondary (A)	124.91
Frame	UX73C	Insulation System (°C)	220C
K Factor	1	Efficiency level	DoE 2016 (10CFR 431)
Temp. Rise (°C)	150	Average Sound Level (dB)	45

#### LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	139.6
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>1,109.3</u>
Total Loss @ Rise + 20 °C reference (Watts)	1,248.9

#### 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	97.82
25	98.34
35	98.40
50	98.51
75	98.28
100	97.94

#### IMPEDANCE:

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

%R	2.5
%X	1.7
%Z	3.0
X/R Ratio	0.7

#### REGULATION:

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

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

#### REFERENCE VALUES:

Inrush Current (Calculated)	t= 8.33ms
I <sub>max</sub> (RMS)	≈ 1466.6 A