

## TYPICAL TEST DATA

### LV Dry Type Transformer



**MODEL #:** **9T10C1009**

Underwriters' Laboratories Inc. Listed

#### RATINGS

KVA	500	Conductor	CU
Frequency (Hz)	60	Phase	3
Primary Voltage	480D+2,-2(2.5%taps )	Secondary Voltage	208Y/120
Current Line Primary (A)	601.41	Current Line Secondary (A)	1387.86
Frame	DX79C	Insulation System (°C)	220C
K Factor	1	Efficiency level	DoE 2016 (10CFR 431)
Temp. Rise (°C)	150	Average Sound Level (dB)	60

#### LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	758.0
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>7,647.2</u>
Total Loss @ Rise + 20 °C reference (Watts)	8,405.2

#### 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	98.87
25	99.10
35	99.14
50	99.09
75	98.89
100	98.64

#### IMPEDANCE:

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

%R	1.5
%X	5.4
%Z	5.6
X/R Ratio	3.5

#### REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	1.6
0.9	3.1
0.8	3.6

#### REFERENCE VALUES:

Inrush Current  $t = 8.33\text{ms}$   
 (Calculated)  
 $I_{\text{max}}(\text{RMS}) \approx 3090.1 \text{ A}$