

TYPICAL TEST DATA

LV Dry Type Transformer



MODEL #: **9T10A1004G31**

Underwriters' Laboratories Inc. Listed

RATINGS

KVA	75	Conductor	AL
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	UX74A	Insulation System (°C)	220C
K Factor	1	Efficiency level	DoE 2016 (10CFR 431)
Temp. Rise (°C)	115	Average Sound Level (dB)	50

LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	168.8
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>1,920.5</u>
Total Loss @ Rise + 20 °C reference (Watts)	2,089.2

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	98.29
25	98.61
35	98.60
50	98.54
75	98.19
100	97.77

IMPEDANCE:

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

%R	2.6
%X	4.7
%Z	5.4
X/R Ratio	1.8

REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	2.7
0.9	4.8
0.8	5.4

REFERENCE VALUES:

Inrush Current (Calculated) $t = 8.33\text{ms}$
 I_{max} (RMS) $\approx 1122.96\text{ A}$