

TYPICAL TEST DATA

LV Dry Type Transformer



MODEL #: **9T14A1003G03**

Underwriters' Laboratories Inc. Listed

RATINGS

KVA	45	Conductor	AL
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	UX73A	Insulation System (°C)	220C
K Factor	4	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)	143.2
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>1,137.4</u>
Total Loss @ Rise + 20 °C reference (Watts)	1,280.6

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	97.77
25	98.31
35	98.40
50	98.49
75	98.25
100	97.92

IMPEDANCE:

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

%R	2.5
%X	2.2
%Z	3.4
X/R Ratio	0.9

REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	2.6
0.9	3.2
0.8	3.3

REFERENCE VALUES:

Inrush Current (Calculated) $t = 8.33\text{ms}$
 Imax (RMS) $\approx 1535.58\text{A}$