

TYPICAL TEST DATA

LV Dry Type Transformer



MODEL #: **9T11C1003G33**

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	UY74C	Insulation System (°C)	220C
K Factor	13	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)	196.9
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>574.4</u>
Total Loss @ Rise + 20 °C reference (Watts)	771.3

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	97.18
25	98.03
35	98.40
50	98.63
75	98.66
100	98.55

IMPEDANCE:

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

%R	1.3
%X	2.2
%Z	2.6
X/R Ratio	1.7

REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	1.3
0.9	2.1
0.8	2.3

REFERENCE VALUES:

Inrush Current (Calculated)	t= 8.33ms
I _{max} (RMS)	≈1699.74A