

TYPICAL TEST DATA

LV Dry Type Transformer



MODEL #: **9T11C1004G33**

Underwriters' Laboratories Inc. Listed

RATINGS

KVA	75	Conductor	CU
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	DY75C*	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)	245.9
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>1,151.4</u>
Total Loss @ Rise + 20 °C reference (Watts)	1,397.3

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	97.80
25	98.41
35	98.60
50	98.74
75	98.65
100	98.46

IMPEDANCE:

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

%R	1.5
%X	3.5
%Z	3.8
X/R Ratio	2.3

REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	2.6
0.9	4.6
0.8	5.2

REFERENCE VALUES:

Inrush Current (Calculated) $t = 8.33\text{ms}$
Imax(RMS) $\approx 1878.69\text{ A}$