

TYPICAL TEST DATA

LV Dry Type Transformer



MODEL #: **9T11C1002G33**

Underwriters' Laboratories Inc. Listed

RATINGS

KVA	30	Conductor	CU
Frequency (Hz)	60	Phase	3
Primary Voltage	480D+2,-4(2.5%taps)	Secondary Voltage	208Y/120
Current Line Primary (A)	36.08	Current Line Secondary (A)	83.27
Frame	UX73C	Insulation System (°C)	220C
K Factor	13	Efficiency level	DoE 2016 (10CFR 431)
Temp. Rise (°C)	115	Average Sound Level (dB)	45

LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	134.5
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>480.2</u>
Total Loss @ Rise + 20 °C reference (Watts)	614.7

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	97.08
25	97.93
35	98.23
50	98.49
75	98.47
100	98.31

IMPEDANCE:

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

%R	1.6
%X	1.5
%Z	2.2
X/R Ratio	0.9

REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	1.6
0.9	2.1
0.8	2.2

REFERENCE VALUES:

Inrush Current t= 8.33ms
 (Calculated)
 I_{max}(RMS) ≈ 1234.46 A