

TYPICAL TEST DATA

LV Dry Type Transformer



MODEL #: **9T10C1004G61**

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	1	Efficiency level	DoE 2016 (10CFR 431)
Temp. Rise (°C)	80	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>1,042.2</u>
Total Loss @ Rise + 20 °C reference (Watts)	1,288.1

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	98.40
35	98.60
50	98.74
75	98.65
100	98.46

IMPEDANCE:

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

%R	1.4
%X	3.3
%Z	3.6
X/R Ratio	2.4

REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	2.6
0.9	4.5
0.8	5.0

REFERENCE VALUES:

Inrush Current (Calculated) $t = 8.33\text{ms}$
 I_{max} (RMS) $\approx 2277.36\text{A}$