

TYPICAL TEST DATA

LV Dry Type Transformer



MODEL #: **9T14A1007G03**

Underwriters' Laboratories Inc. Listed

RATINGS

KVA	225	Conductor	AL
Frequency (Hz)	60	Phase	3
Primary Voltage	480D+2,-4(2.5%taps)	Secondary Voltage	208Y/120
Current Line Primary (A)	270.63	Current Line Secondary (A)	624.54
Frame	DY78A*	Insulation System (°C)	220C
K Factor	4	Efficiency level	DoE 2016 (10CFR 431)
Temp. Rise (°C)	150	Average Sound Level (dB)	55

LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	473.2
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>3,530.7</u>
Total Loss @ Rise + 20 °C reference (Watts)	4,003.9

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	98.51
25	98.87
35	98.94
50	98.99
75	98.83
100	98.60

IMPEDANCE:

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

%R	1.6
%X	4.3
%Z	4.6
X/R Ratio	2.7

REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	1.7
0.9	3.3
0.8	3.9

REFERENCE VALUES:

Inrush Current $t = 8.33\text{ms}$
 (Calculated)
 I_{max}(RMS) $\approx 4164.89\text{ A}$