

TYPICAL TEST DATA

LV Dry Type Transformer



MODEL #: **9T10A1008**

Underwriters' Laboratories Inc. Listed

RATINGS

KVA	300	Conductor	AL
Frequency (Hz)	60	Phase	3
Primary Voltage	480D +2, -4 (2.5% taps)	Secondary Voltage	208Y/120
Current Line Primary (A)	360.84	Current Line Secondary (A)	832.72
Frame	DY08A	Insulation System (°C)	220C
K Factor	1	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)	465.0
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>6,348.5</u>
Total Loss @ Rise + 20 °C reference (Watts)	6,813.5

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	98.80
25	99.01
35	99.02
50	98.93
75	98.66
100	98.34

IMPEDANCE:

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

%R	2.1
%X	3.8
%Z	4.3
X/R Ratio	1.8

REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	2.2
0.9	3.6
0.8	4.0

REFERENCE VALUES:

Inrush Current (Calculated) $t = 8.33\text{ms}$
 I_{max} (RMS) $\approx 4369.00\text{ A}$