

# TYPICAL TEST DATA

## LV Dry Type Transformer



**MODEL #: 9T10A1177G44**

**Underwriters Laboratories Inc. Listed**

### RATINGS

KVA	225	Conductor	AL
Frequency (Hz)	60	Phase	3
Primary Voltage	480 (+2/-4 @2.5%)	Secondary Voltage	480Y/277
Current Line Primary (A)	271	Current Line Secondary (A)	271
Frame	DY78A	Insulation System (°C)	220
K Factor	1	Average Sound Level (dB)	52
Temp. Rise (°C)	115	Efficiency standards	DoE 2016 (10CFR 431)
Electrostatic shield	Copper (Single)		

### LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	289.3
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>5,225.7</u>
Total Loss @ Rise + 20 °C reference (Watts)	5,515.0

### 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 efficiency levels

<u>Load (%)</u>	<u>Efficiency (%)</u>
16	98.90
25	99.01
35	98.96
50	98.78
75	98.39
100	97.96

### IMPEDANCE:

Impedance at reference temperature of Rise + 20 °C

%R	2.3
%X	6.9
%Z	7.3
X/R Ratio	3.00

### REGULATION:

Regulation at reference temperature of Rise + 20 °C

<u>Power Factor</u>	<u>Regulation (%)</u>
1	2.5
0.9	5.2
0.8	6.1

### REFERENCE VALUES:

Peak Inrush Current	
Imax @8.33 ms (A RMS)≈	2051
Imax @ 100 ms (A RMS)≈	892