

# TYPICAL TEST DATA

## LV Dry Type Transformer



**MODEL #: 9T10C1002**

**Underwriters Laboratories Inc. Listed**

### RATINGS

KVA	30	Conductor	CU
Frequency (Hz)	60	Phase	3
Primary Voltage	480 (+2/-4 @2.5%)	Secondary Voltage	208Y/120
Current Line Primary (A)	36	Current Line Secondary (A)	83
Frame	UX02C	Insulation System (°C)	220
K Factor	1	Average Sound Level (dB)	45
Temp. Rise (°C)	150	Efficiency standards	DoE 2016 (10CFR 431)
Electrostatic shield	None		

### LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	87.2
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>1,062.2</u>
Total Loss @ Rise + 20 °C reference (Watts)	1,149.4

### 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	97.80
25	98.19
35	98.25
50	98.09
75	97.63
100	97.07

### IMPEDANCE:

Impedance at reference temperature of Rise + 20 °C

%R	3.5
%X	2.3
%Z	4.2
X/R Ratio	0.66

### REGULATION:

Regulation at reference temperature of Rise + 20 °C

<u>Power Factor</u>	<u>Regulation (%)</u>
1	3.5
0.9	4.2
0.8	4.2

### REFERENCE VALUES:

Peak Inrush Current	
I <sub>max</sub> @8.33 ms (A RMS)≈	634
I <sub>max</sub> @ 100 ms (A RMS)≈	187