

# TYPICAL TEST DATA

## LV Dry Type Transformer



**MODEL #: 9T10C1172G36**

**Underwriters Laboratories Inc. Listed**

### RATINGS

KVA	30	Conductor	CU
Frequency (Hz)	60	Phase	3
Primary Voltage	480 (+2/-4 @2.5%)	Secondary Voltage	480Y/277
Current Line Primary (A)	36	Current Line Secondary (A)	36
Frame	UX73C	Insulation System (°C)	220
K Factor	1	Average Sound Level (dB)	40
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)	135.2
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>466.3</u>
Total Loss @ Rise + 20 °C reference (Watts)	601.5

### 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 efficiency levels

<u>Load (%)</u>	<u>Efficiency (%)</u>
16	97.06
25	97.92
35	98.29
50	98.47
75	98.45
100	98.28

### IMPEDANCE:

Impedance at reference temperature of Rise + 20 °C

%R	1.6
%X	1.2
%Z	1.9
X/R Ratio	0.75

### REGULATION:

Regulation at reference temperature of Rise + 20 °C

<u>Power Factor</u>	<u>Regulation (%)</u>
1	1.6
0.9	2.0
0.8	2.0

### REFERENCE VALUES:

Peak Inrush Current	
Imax @8.33 ms (A RMS)≈	1039
Imax @ 100 ms (A RMS)≈	347