

TYPICAL TEST DATA
LV Dry Type Transformer



MODEL #: **9T33C2672**

Underwriters' Laboratories Inc. Listed

RATINGS

KVA	37.5	Conductor	CU
Frequency (Hz)	60	Phase	1
Primary Voltage	480/240 +2/-4 X 2.5% (S)	Secondary Voltage	240/120
Current Line Primary (A)	78.12	Current Line Secondary (A)	156.25
Frame	YX171	Insulation System (°C)	220C
K Factor	1	Efficiency level	DoE 2016(10CFR 431)
Temp. Rise (°C)	150	Average Sound Level (dB)	45

LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	119.6
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>1,298.2</u>
Total Loss @ Rise + 20 °C reference (Watts)	1,417.8

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	97.65
25	98.11
35	98.20
50	98.10
75	97.69
100	97.17

IMPEDANCE:

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

%R	3.5
%X	4.9
%Z	6.0
X/R Ratio	1.4

REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	3.7
0.9	5.6
0.8	6.1

REFERENCE VALUES:

Inrush Current (Calculated)	t= 8.33ms
I _{max} (RMS)	≈ 100 A