

TYPICAL TEST DATA

LV Dry Type Transformer



MODEL #: **9T33A2672**

Underwriters' Laboratories Inc. Listed

RATINGS

KVA	37.5	Conductor	AL
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	YF172	Insulation System (°C)	220C
K Factor	1	Efficiency level (FR 431) / CSA-C802.2-18	
Temp. Rise (°C)	150	Average Sound Level (dB)	45

LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	133.9
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>1,156.7</u>
Total Loss @ Rise + 20 °C reference (Watts)	1,290.7

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) and CSA-C802.2-18
 Efficiency Level

<u>Load (%)</u>	<u>Efficiency (%)</u>
16	97.47
25	98.04
35	98.20
50	98.18
75	97.86
100	97.43

IMPEDANCE:

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

%R	3.1
%X	4.7
%Z	5.6
X/R Ratio	1.5

REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	3.3
0.9	5.1
0.8	5.6

REFERENCE VALUES:

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