

TYPICAL TEST DATA

LV Dry Type Transformer



MODEL #: 9T33A2673

Underwriters Laboratories Inc. Listed

RATINGS

KVA	50	Conductor	AL
Frequency (Hz)	60	Phase	1
Primary Voltage	240 (+1/-2 @5%)	Secondary Voltage	120
Current Line Primary (A)	104	Current Line Secondary (A)	208
Frame	XV173	Insulation System (°C)	220
K Factor	1	Average Sound Level (dB)	45
Temp. Rise (°C)	150	Efficiency standards	CSA 2018 (C802.2-18) & DoE 2016 (10CFR 431)
Electrostatic shield	None		

LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	150.8
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>1,600.7</u>
Total Loss @ Rise + 20 °C reference (Watts)	1,751.5

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 and CSA 2018 efficiency levels

<u>Load (%)</u>	<u>Efficiency (%)</u>
16	97.77
25	98.21
35	98.31
50	98.20
75	97.81
100	97.32

IMPEDANCE:

Impedance at reference temperature of Rise + 20 °C

%R	3.2
%X	4.3
%Z	5.4
X/R Ratio	1.34

REGULATION:

Regulation at reference temperature of Rise + 20 °C

<u>Power Factor</u>	<u>Regulation (%)</u>
1	3.3
0.9	4.8
0.8	5.2

REFERENCE VALUES:

Peak Inrush Current	
I _{max} @8.33 ms (A RMS)≈	1632
I _{max} @ 100 ms (A RMS)≈	653