

## TYPICAL TEST DATA

### LV Dry Type Transformer



**MODEL #:** **9T83B2670**

Underwriters' Laboratories Inc. Listed

#### RATINGS

KVA	15	Conductor	AL
Frequency (Hz)	60	Phase	1
Primary Voltage	240P+1,-2(5%taps )	Secondary Voltage	120P
Current Line Primary (A)	31.25	Current Line Secondary (A)	62.50
Frame	PROTO	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)	62.5
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>669.2</u>
Total Loss @ Rise + 20 °C reference (Watts)	731.7

#### 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) Efficiency Level

<u>Load (%)</u>	<u>Efficiency (%)</u>
16	96.98
25	97.60
35	97.70
50	97.64
75	97.15
100	96.54

#### IMPEDANCE:

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

%R	4.5
%X	3.5
%Z	5.7
X/R Ratio	0.8

#### REGULATION:

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

<u>Power Factor</u>	<u>Regulation (%)</u>
1	4.5
0.9	5.5
0.8	5.7

#### REFERENCE VALUES:

Inrush Current  $t = 8.33\text{ms}$   
(Calculated)  
Imax(RMS)  $\approx 765.77\text{ A}$