

TYPICAL TEST DATA

LV Dry Type Transformer



MODEL #: 9T10A1007G44

Underwriters Laboratories Inc. Listed

RATINGS

KVA	225	Conductor	AL
Frequency (Hz)	60	Phase	3
Primary Voltage	480 (+2/-4 @2.5%)	Secondary Voltage	208Y/120
Current Line Primary (A)	271	Current Line Secondary (A)	625
Frame	DY78A	Insulation System (°C)	220
K Factor	1	Average Sound Level (dB)	52
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)	292.1
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>5,246.7</u>
Total Loss @ Rise + 20 °C reference (Watts)	5,538.8

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 efficiency levels

<u>Load (%)</u>	<u>Efficiency (%)</u>
16	98.89
25	99.00
35	98.95
50	98.77
75	98.38
100	97.95

IMPEDANCE:

Impedance at reference temperature of Rise + 20 °C

%R	2.3
%X	6.9
%Z	7.2
X/R Ratio	3.00

REGULATION:

Regulation at reference temperature of Rise + 20 °C

<u>Power Factor</u>	<u>Regulation (%)</u>
1	2.5
0.9	5.2
0.8	6.1

REFERENCE VALUES:

Peak Inrush Current	
I _{max} @8.33 ms (A RMS)≈	2121
I _{max} @ 100 ms (A RMS)≈	942