

TYPICAL TEST DATA

LV Dry Type Transformer



MODEL #: 9T14A1004G44

Underwriters Laboratories Inc. Listed

RATINGS

KVA	75	Conductor	AL
Frequency (Hz)	60	Phase	3
Primary Voltage	480 (+2/-4 @2.5%)	Secondary Voltage	208Y/120
Current Line Primary (A)	90	Current Line Secondary (A)	208
Frame	DY75A	Insulation System (°C)	220
K Factor	4	Average Sound Level (dB)	47
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)	122.2
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>2,236.6</u>
Total Loss @ Rise + 20 °C reference (Watts)	2,358.8

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	98.60
25	98.74
35	98.68
50	98.45
75	97.95
100	97.41

IMPEDANCE:

Impedance at reference temperature of Rise + 20 °C

%R	3.0
%X	4.3
%Z	5.2
X/R Ratio	1.43

REGULATION:

Regulation at reference temperature of Rise + 20 °C

<u>Power Factor</u>	<u>Regulation (%)</u>
1	3.1
0.9	4.6
0.8	5.0

REFERENCE VALUES:

Peak Inrush Current	
Imax @8.33 ms (A RMS)≈	668
Imax @ 100 ms (A RMS)≈	213