

TYPICAL TEST DATA

LV Dry Type Transformer



MODEL #: 9T10A1003

Underwriters Laboratories Inc. Listed

RATINGS

KVA	45	Conductor	AL
Frequency (Hz)	60	Phase	3
Primary Voltage	480 (+2/-4 @2.5%)	Secondary Voltage	208Y/120
Current Line Primary (A)	54	Current Line Secondary (A)	125
Frame	UY03A	Insulation System (°C)	220
K Factor	1	Average Sound Level (dB)	45
Temp. Rise (°C)	150	Efficiency standards	DoE 2016 (10CFR 431)
Electrostatic shield	None		

LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	119.2
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	<u>1,452.7</u>
Total Loss @ Rise + 20 °C reference (Watts)	1,571.9

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	97.99
25	98.35
35	98.40
50	98.27
75	97.84
100	97.34

IMPEDANCE:

Impedance at reference temperature of Rise + 20 °C

%R	3.2
%X	3.8
%Z	5.0
X/R Ratio	1.19

REGULATION:

Regulation at reference temperature of Rise + 20 °C

<u>Power Factor</u>	<u>Regulation (%)</u>
1	3.3
0.9	4.6
0.8	4.8

REFERENCE VALUES:

Peak Inrush Current	
Imax @8.33 ms (A RMS)≈	846
Imax @ 100 ms (A RMS)≈	309