ABB Inc.
305 Gregson Drive
Cary, NC 27511
electrification.us.abb.com

TYPICAL TEST DATA

LV Dry Type Transformer

Industrial Solutions

MODEL #: 9T10A1004G04 Underwriters' Laboratories Inc. Listed

RATINGS

KVA	75	Conductor	AL
Frequency (Hz)	60	Phase	3
Primary Voltage	480D+2,-4(2.5%taps)	Secondary Voltage	208Y/120
Current Line Primary (A)	90.21	Current Line Secondary (A)	208.18
Frame	UY74A	Insulation System (°C)	220C
K Factor	1	Efficiency level	DoE 2016 (10CFR 431)
Temp. Rise (°C)	150	Average Sound Level (dB)	50

LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	167.3
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	2,046.3
Total Loss @ Rise + 20 °C reference (Watts)	2,213.6

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

Load (%)	Efficiency (%)
16	98.32
25	98.63
35	98.60
50	98.58
75	98.25
100	97.84

IMPEDANCE:

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

%R	2.7
%X	4.5
%Z	5.3
X/R Ratio	1.6

REGULATION:

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

Power Factor	Regulation (%)
1	2.9
0.9	4.5
0.8	5.0

REFERENCE VALUES:

Inrush Current (Calculated)	t= 8.33ms
Imax(RMS)	≈ 1152 A

by ABB