ABB Inc.
305 Gregson Drive
Cary, NC 27511
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TYPICAL TEST DATA
LV Dry Type Transformer

MODEL #: 9T10C1004G31

Underwriters Laboratories Inc. Listed

RATINGS

KVA	75	Conductor	CU
Frequency (Hz)	60	Phase	3
Primary Voltage	480 (+2/-4 @2.5%)	Secondary Voltage	208Y/120
Current Line Primary (A)	90.20	Current Line Secondary (A)	208.20
Frame	DX74C	Insulation System (°C)	220
K Factor	1	Average Sound Level (dB)	50
Temp. Rise (°C)	115	Efficiency standards	DoE 2016 (10CFR 431)
Electrostatic shield	None		

LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	196.9
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	1,647.0
Total Loss @ Rise + 20 °C reference (Watts)	1,843.9

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 (10CFR 431) efficiency levels

Load (%)	Efficiency (%)
16	98.10
25	98.51
35	98.62
50	98.57
75	98.29
100	97.93

IMPEDANCE:

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

%R	2.20
%X	2.60
%Z	3.40
X/R Ratio	1.18

REGULATION:

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

Power Factor	Regulation (%)
1	2.20
0.9	3.10
0.8	3.30

REFERENCE VALUES:

Peak Inrush Current (Calculated)

Imax @8.33 ms (A RMS)≈	1260.1
Imax @ 100 ms (A RMS)≈	478.2