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

MODEL #: 9T10C1004

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	UY14C	Insulation System (°C)	220
K Factor	1	Average Sound Level (dB)	50
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)	151.7
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	2,270.6
Total Loss @ Rise + 20 °C reference (Watts)	2,422.3

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	98.39
25	98.63
35	98.63
50	98.46
75	98.02
100	97.53

IMPEDANCE:

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

%R	3.00
%X	3.30
%Z	4.50
X/R Ratio	1.10

REGULATION:

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

Power Factor	Regulation (%)
1	3.10
0.9	4.20
0.8	4.40

REFERENCE VALUES:

Peak Inrush Current (Calculated)

Imax @8.33 ms (A RMS)≈	1047.4
Imax @ 100 ms (A RMS)≈	373.4