ABB Inc.
305 Gregson Drive
Cary, NC 27511
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TYPICAL TEST DATA

LV Dry Type Transformer

Industrial Solutions

MODEL #: 9T10C1007 Underwriters' Laboratories Inc. Listed

RATINGS

KVA	225	Conductor	CU
Frequency (Hz)	60	Phase	3
Primary Voltage	480D +2, -4 (2.5% taps)	Secondary Voltage	208Y/120
Current Line Primary (A)	270.63	Current Line Secondary (A)	624.54
Frame	DY77C	Insulation System (°C)	220C
K Factor	1	Efficiency level	DoE 2016 (10CFR 431)
Temp. Rise (°C)	150	Average Sound Level (dB)	55

LOSS DATA @ 100% LOAD

Core Loss or No Load Loss @ 100% voltage (Watts)	449.7
Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts)	4,340.5
Total Loss @ Rise + 20 °C reference (Watts)	4,790.3

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 Level

Load (%)	Efficiency (%)
16	98.54
25	98.86
35	98.94
50	98.90
75	98.68
100	98.39

IMPEDANCE:

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

%R	1.9
%X	3.6
%Z	4.1
X/R Ratio	1.9

REGULATION:

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

Power Factor	Regulation (%)
1	2.0
0.9	3.2
0.8	3.6

REFERENCE VALUES:

Inrush Current (Calculated)	t= 8.33ms
Imax (RMS)	≈5732.46A

by ABB