

TYPICAL TEST DATA

LV Dry Type Transformer



MODEL #: **9T10C1002G61**

Underwriters' Laboratories Inc. Listed

RATINGS

| | | | |
|--------------------------|----------------------|----------------------------|----------------------|
| KVA | 30 | Conductor | CU |
| Frequency (Hz) | 60 | Phase | 3 |
| Primary Voltage | 480D+2,-4(2.5%taps) | Secondary Voltage | 208Y/120 |
| Current Line Primary (A) | 36.08 | Current Line Secondary (A) | 83.27 |
| Frame | UX73C | Insulation System (°C) | 220C |
| K Factor | 1 | Efficiency level | DoE 2016 (10CFR 431) |
| Temp. Rise (°C) | 80 | Average Sound Level (dB) | 45 |

LOSS DATA @ 100% LOAD

| | |
|--|--------------|
| Core Loss or No Load Loss @ 100% voltage (Watts) | 134.5 |
| Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts) | <u>442.4</u> |
| Total Loss @ Rise + 20 °C reference (Watts) | 576.9 |

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 Level

| <u>Load (%)</u> | <u>Efficiency (%)</u> |
|-----------------|-----------------------|
| 16 | 97.08 |
| 25 | 97.92 |
| 35 | 98.23 |
| 50 | 98.47 |
| 75 | 98.45 |
| 100 | 98.28 |

IMPEDANCE:

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

| | |
|-----------|-----|
| %R | 1.5 |
| %X | 1.6 |
| %Z | 2.2 |
| X/R Ratio | 1.1 |

REGULATION:

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

| <u>Power Factor</u> | <u>Regulation (%)</u> |
|---------------------|-----------------------|
| 1 | 1.5 |
| 0.9 | 2.0 |
| 0.8 | 2.1 |

REFERENCE VALUES:

Inrush Current $t = 8.33\text{ms}$
 (Calculated)
 I_{max}(RMS) $\approx 1191.04\text{ A}$