

TYPICAL TEST DATA

LV Dry Type Transformer



MODEL #: 9T10A1009

Underwriters Laboratories Inc. Listed

RATINGS

| | | | |
|--------------------------|-------------------|----------------------------|----------------------|
| KVA | 500 | Conductor | AL |
| Frequency (Hz) | 60 | Phase | 3 |
| Primary Voltage | 480 (+2/-2 @2.5%) | Secondary Voltage | 208Y/120 |
| Current Line Primary (A) | 601 | Current Line Secondary (A) | 1388 |
| Frame | DY79A | Insulation System (°C) | 220 |
| K Factor | 1 | Average Sound Level (dB) | 60 |
| 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) | 673.4 |
| Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts) | <u>8,787.0</u> |
| Total Loss @ Rise + 20 °C reference (Watts) | 9,460.4 |

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 efficiency levels

| <u>Load (%)</u> | <u>Efficiency (%)</u> |
|-----------------|-----------------------|
| 16 | 98.95 |
| 25 | 99.12 |
| 35 | 99.14 |
| 50 | 99.05 |
| 75 | 98.80 |
| 100 | 98.50 |

IMPEDANCE:

Impedance at reference temperature of Rise + 20 °C

| | |
|-----------|------|
| %R | 1.8 |
| %X | 5.4 |
| %Z | 5.7 |
| X/R Ratio | 3.00 |

REGULATION:

Regulation at reference temperature of Rise + 20 °C

| <u>Power Factor</u> | <u>Regulation (%)</u> |
|---------------------|-----------------------|
| 1 | 1.9 |
| 0.9 | 4.1 |
| 0.8 | 4.7 |

REFERENCE VALUES:

| | |
|------------------------|------|
| Peak Inrush Current | |
| Imax @8.33 ms (A RMS)≈ | 5052 |
| Imax @ 100 ms (A RMS)≈ | 2330 |