

# TYPICAL TEST DATA

## LV Dry Type Transformer



**MODEL #: 9T10C1001**

**Underwriters Laboratories Inc. Listed**

### RATINGS

|                          |                   |                            |                      |
|--------------------------|-------------------|----------------------------|----------------------|
| KVA                      | 15                | Conductor                  | CU                   |
| Frequency (Hz)           | 60                | Phase                      | 3                    |
| Primary Voltage          | 480 (+2/-4 @2.5%) | Secondary Voltage          | 208Y/120             |
| Current Line Primary (A) | 18                | Current Line Secondary (A) | 42                   |
| Frame                    | UX71C             | Insulation System (°C)     | 220                  |
| K Factor                 | 1                 | Average Sound Level (dB)   | 45                   |
| 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)             | 55.1         |
| Impedance Loss or Coil Loss @ Rise + 20 °C reference (Watts) | <u>579.3</u> |
| Total Loss @ Rise + 20 °C reference (Watts)                  | 634.4        |

### 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              | 97.30                 |
| 25              | 97.84                 |
| 35              | 97.96                 |
| 50              | 97.83                 |
| 75              | 97.36                 |
| 100             | 96.78                 |

### IMPEDANCE:

Impedance at reference temperature of Rise + 20 °C

|           |      |
|-----------|------|
| %R        | 3.9  |
| %X        | 1.4  |
| %Z        | 4.1  |
| X/R Ratio | 0.36 |

### REGULATION:

Regulation at reference temperature of Rise + 20 °C

| <u>Power Factor</u> | <u>Regulation (%)</u> |
|---------------------|-----------------------|
| 1                   | 3.9                   |
| 0.9                 | 4.1                   |
| 0.8                 | 4.0                   |

### REFERENCE VALUES:

|                                    |     |
|------------------------------------|-----|
| Peak Inrush Current                |     |
| I <sub>max</sub> @8.33 ms (A RMS)≈ | 528 |
| I <sub>max</sub> @ 100 ms (A RMS)≈ | 164 |