



Specialty Transformer  
PO Box 1701  
Ft. Wayne, IN 46801  
(260) 439-2000

**GE MODEL #:**  
**9T44G0009G53**

Underwriters' Laboratories Inc Listed

**RATING:**

TFM AL 500 kVA 480(+2,-42.3%) - 208Y/120 115 C-rise NON-SIN K=04

|                            |      |                          |
|----------------------------|------|--------------------------|
| Frame =                    | FC68 | Type TM                  |
| Temp. Rise (C) =           | 115  | Insulation System = 220C |
| Average Sound Level (dB) = | 56   | @ 50% load & below.      |
|                            | 63   | @ over 50% load.         |

**LOSS DATA:**

|  |               |
|--|---------------|
| Core Loss or No Load Loss @ 100% voltage (Watts) =           | 1395.0        |
| Impedance Loss or Coil Loss @ Rise + 20C reference (Watts) = | <u>6490.0</u> |
| Total Loss @ Rise + 20C reference (Watts) =                  | 7885.0        |

**DIELECTRIC AND PRODUCTION TESTING:**

Induce Test @ Twice rated voltage 400 Hz per ANSI C89.2 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 Ground @ 2500 volts 60 Hz 60 Sec.  
 Polarity additive in accordance with ANSI C89.2 and NEMA ST-20

**EFFICIENCY:**

Efficiencies at reference temperature of Rise + 20C (Calculated).

| Load (%) | Efficiency (%) |
|----------|----------------|
| 25       | 98.6           |
| 35       | 98.9           |
| 50       | 98.8           |
| 75       | 98.8           |
| 100      | 98.6           |

Complies with NEMA TP-1

**IMPEDANCE:**

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

|      |     |
|------|-----|
| %R = | 1.2 |
| %X = | 4.7 |
| %Z = | 4.9 |

**REGULATION:**

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

| PF  | Regulation (%) |
|-----|----------------|
| 1.0 | 1.2            |
| 0.8 | 3.8            |