

## Capacitor Unit Details

|   |                          |            |        |
|---|--------------------------|------------|--------|
| <b>Capacitor Part Number:</b>                   | <b><u>58L114WC10</u></b> |            |        |
| Rated Voltage                                   | 14400 V                  | 60 Hz      |        |
| KVAR at Rated Voltage                           | 200 kVAR                 |            |        |
| Rated Capacitance                               | 2.56 $\mu$ F             |            |        |
| Manufacturing tolerance for capacitor unit kvar | -0% to                   | +10%       |        |
| Capacitor Unit BIL                              | 95/95 kV                 |            |        |
| Bushing Leakage Distance (Nominal)              | 12/12 in                 | 305/305 mm |        |
| Number of Film Layers per Pad                   | 2                        |            |        |
| Total Film Pad Thickness                        | 1.20 mil                 |            |        |
| Dry Space Factor                                | 29.9 %                   |            |        |
| Number of Series Sections                       | 7                        |            |        |
| Number of Parallel Packs per Section            | 2                        |            |        |
| Section Voltage                                 | 2057 Volts               |            |        |
| Volts/mil stress (film only)                    | 1714 Volts/mil           |            |        |
| Volts/mil stress (film and fluid)               | 1319 Volts/mil           |            |        |
| Discharge Resistor Rating                       | 16.86 M $\Omega$         |            |        |
| Weight  | 49.6 Lbs                 | 22.5 kg    |        |
| Gallons of Dielectric Fluid                     | 1.94 Gal                 |            |        |
| Ground Test                                     | 34000 V                  | AC         | 10 sec |
| Dielectric Test                                 | 30960 V                  | AC         | 10 sec |
| Manufactured with Folded edges (Y/N)            | Yes                      |            |        |

### Additional Comments:

- Case thickness: Sides: 0.042", Cover: 0.05", Bottom: 0.09".
- Average losses of a stabilized unit in service is 0.1 W/kvar.
- Paint is an epoxy primer w/ urethane top coat meeting ANSI C57.12.31-2010 Pole Mounted Equipment .
- Internal elements will be extended foil and connected using ultrasonic welding.
- Capacitor unit operating temperature range is -50 to +50 deg. C.
- Maximum Bushing Torque 25 Ft-Lbs or 34 N-m.
- Percent Alteration on Surface Altered Film is 10% (avg.).
- Fluid Type (Non PCB) is DIELEKTROL VIIa, with a Dielectric Constant of 2.62.

