

Capacitor Unit Details

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|---|--------------------------|------------|--------|
| Capacitor Part Number: | <u>58L109WC60</u> | | |
| Rated Voltage | 8320 V | 60 Hz | |
| KVAR at Rated Voltage | 200 kVAR | | |
| Rated Capacitance | 7.66 μ 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 | 1.10 mil | | |
| Dry Space Factor | 30.8 % | | |
| Number of Series Sections | 4 | | |
| Number of Parallel Packs per Section | 2 | | |
| Section Voltage | 2080 Volts | | |
| Volts/mil stress (film only) | 1891 Volts/mil | | |
| Volts/mil stress (film and fluid) | 1446 Volts/mil | | |
| Discharge Resistor Rating | 6.2 M Ω | | |
| Weight | 46.9 Lbs | 21.3 kg | |
| Gallons of Dielectric Fluid | 1.9 Gal | | |
| Ground Test | 34000 V | AC | 10 sec |
| Dielectric Test | 16640 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.

