

Capacitor Unit Details

Capacitor Part Number:	<u>59L109WC10</u>		
Rated Voltage	8320 V	60 Hz	
KVAR at Rated Voltage	300 kVAR		
Rated Capacitance	11.5 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	1.20 mil		
Dry Space Factor	29 %		
Number of Series Sections	4		
Number of Parallel Packs per Section	3		
Section Voltage	2080 Volts		
Volts/mil stress (film only)	1733 Volts/mil		
Volts/mil stress (film and fluid)	1343 Volts/mil		
Discharge Resistor Rating	4.04 M Ω		
Weight	64.9 Lbs	29.5 kg	
Gallons of Dielectric Fluid	2.33 Gal		
Ground Test	34000 V	AC	10 sec
Dielectric Test	17888 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.

