

## Capacitor Unit Details

<b>Capacitor Part Number:</b>	<b><u>51L228WC60</u></b>		
Rated Voltage	7960 V	60 Hz	
KVAR at Rated Voltage	50 kVAR		
Rated Capacitance	2.09 $\mu$ F		
Manufacturing tolerance for capacitor unit kvar	-0% to	+10%	
Capacitor Unit BIL	95 kV		
Bushing Leakage Distance (Nominal)	12 in	305 mm	
Number of Film Layers per Pad	2		
Total Film Pad Thickness	1.20 mil		
Dry Space Factor	31.9 %		
Number of Series Sections	4		
Number of Parallel Packs per Section	1		
Section Voltage	1990 Volts		
Volts/mil stress (film only)	1658 Volts/mil		
Volts/mil stress (film and fluid)	1257 Volts/mil		
Discharge Resistor Rating	21.25 M $\Omega$		
Weight	22.2 Lbs	10.1 kg	
Gallons of Dielectric Fluid	1.15 Gal		
Ground Test	0 V	AC	10 sec
Dielectric Test	15920 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.

