

## Capacitor Unit Details

<b>Capacitor Part Number:</b>	<b><u>51L223WC28</u></b>		
Rated Voltage	4160 V	60 Hz	
KVAR at Rated Voltage	50 kVAR		
Rated Capacitance	7.66 $\mu$ 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	1.00 mil		
Dry Space Factor	33.4 %		
Number of Series Sections	3		
Number of Parallel Packs per Section	2		
Section Voltage	1387 Volts		
Volts/mil stress (film only)	1387 Volts/mil		
Volts/mil stress (film and fluid)	1040 Volts/mil		
Discharge Resistor Rating	6.45 M $\Omega$		
Weight	28.3 Lbs	12.9 kg	
Gallons of Dielectric Fluid	1.13 Gal		
Ground Test	0 V	AC	10 sec
Dielectric Test	8320 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.

