GE Energy

Capacitor & Power Quality Products

Capacitor Unit Details

Rated Voltage12470 V60 HzKVAR at Rated Voltage500 kVARRated Capacitance8.53 μFManufacturing tolerance for capacitor unit kvar-0% to +10%Capacitor Unit BIL95 kVBushing Leakage Distance (Nominal)12 inNumber of Film Layers per Pad2Total Film Pad Thickness1.20 milDry Space Factor29.2 %Number of Series Sections6Number of Parallel Packs per Section2Section Voltage2078 VoltsVolts/mil stress (film only)1732 Volts/milVolts/mil stress (film and fluid)1341 Volts/milDischarge Resistor Rating4.676 MΩWeight98.1 Lbs44.6 kgGallons of Dielectric Fluid3.37 GalGround Test0 V AC10 secDielectric Test26811 V AC10 sec	Capacitor Part Number:	<u>98L531WC10</u>
Rated Capacitance8.53 μFManufacturing tolerance for capacitor unit kvar-0% to +10%Capacitor Unit BIL95 kVBushing Leakage Distance (Nominal)12 inNumber of Film Layers per Pad2Total Film Pad Thickness1.20 milDry Space Factor29.2 %Number of Series Sections6Number of Parallel Packs per Section2Section Voltage2078 VoltsVolts/mil stress (film and fluid)1341 Volts/milDischarge Resistor Rating4.676 MQWeight98.1 LbsGallons of Dielectric Fluid3.37 GalGround Test0 VDielectric Test26811 VAC10 sec	Rated Voltage	12470 V 60 Hz
Manufacturing tolerance for capacitor unit kvar-0% to +10%Capacitor Unit BIL95 kVBushing Leakage Distance (Nominal)12 inNumber of Film Layers per Pad2Total Film Pad Thickness1.20 milDry Space Factor29.2 %Number of Series Sections6Number of Parallel Packs per Section2Section Voltage2078 VoltsVolts/mil stress (film only)1732 Volts/milVolts/mil stress (film and fluid)1341 Volts/milDischarge Resistor Rating4.676 MQWeight98.1 LbsGallons of Dielectric Fluid3.37 GalGround Test0 VACDielectric Test26811 VAC10 sec	KVAR at Rated Voltage	500 kVAR
Capacitor Unit BIL95 kVBushing Leakage Distance (Nominal)12 in305 mmNumber of Film Layers per Pad22Total Film Pad Thickness1.20 mil12Dry Space Factor29.2 %5Number of Series Sections65Number of Parallel Packs per Section25Section Voltage2078 Volts5Volts/mil stress (film only)1732 Volts/milVolts/mil stress (film and fluid)1341 Volts/milDischarge Resistor Rating4.676 MΩWeight98.1 Lbs44.6 kgGallons of Dielectric Fluid3.37 GalGround Test0 VACDielectric Test26811 VAC	Rated Capacitance	8.53 μF
Bushing Leakage Distance (Nominal)12 in305 mmNumber of Film Layers per Pad22Total Film Pad Thickness1.20 mil2Dry Space Factor29.2 %4Number of Series Sections62Number of Parallel Packs per Section25Section Voltage2078 Volts1732 Volts/milVolts/mil stress (film and fluid)1341 Volts/mil1Discharge Resistor Rating4.676 MΩ44.6 kgGallons of Dielectric Fluid3.37 Gal44.6 kgGround Test0 VAC10 secDielectric Test26811 VAC10 sec	Manufacturing tolerance for capacitor unit kvar	-0% to +10%
Number of Film Layers per Pad2Total Film Pad Thickness1.20 milDry Space Factor29.2 %Number of Series Sections6Number of Parallel Packs per Section2Section Voltage2078 VoltsVolts/mil stress (film only)1732 Volts/milVolts/mil stress (film and fluid)1341 Volts/milDischarge Resistor Rating4.676 MΩWeight98.1 LbsGallons of Dielectric Fluid3.37 GalGround Test0 VDielectric Test26811 VAC10 sec	Capacitor Unit BIL	95 kV
Total Film Pad Thickness1.20 milDry Space Factor29.2 %Number of Series Sections6Number of Parallel Packs per Section2Section Voltage2078 VoltsVolts/mil stress (film only)1732 Volts/milVolts/mil stress (film and fluid)1341 Volts/milDischarge Resistor Rating4.676 MΩWeight98.1 Lbs44.6 kgGallons of Dielectric Fluid3.37 GalGround Test0 VACDielectric Test26811 VAC	Bushing Leakage Distance (Nominal)	12 in 305 mm
Dry Space Factor29.2 %Number of Series Sections6Number of Parallel Packs per Section2Section Voltage2078 VoltsVolts/mil stress (film only)1732 Volts/milVolts/mil stress (film and fluid)1341 Volts/milDischarge Resistor Rating4.676 MΩWeight98.1 Lbs44.6 kgGallons of Dielectric Fluid3.37 GalGround Test0 V <ac< th="">10 secDielectric Test26811 V<ac< th="">10 sec</ac<></ac<>	Number of Film Layers per Pad	2
Number of Series Sections6Number of Parallel Packs per Section2Section Voltage2078 VoltsVolts/mil stress (film only)1732 Volts/milVolts/mil stress (film and fluid)1341 Volts/milDischarge Resistor Rating4.676 MΩWeight98.1 Lbs44.6 kgGallons of Dielectric Fluid3.37 GalGround Test0 VACDielectric Test26811 VAC10 sec	Total Film Pad Thickness	1.20 mil
Number of Parallel Packs per Section2Section Voltage2078 VoltsVolts/mil stress (film only)1732 Volts/milVolts/mil stress (film and fluid)1341 Volts/milDischarge Resistor Rating4.676 MΩWeight98.1 Lbs44.6 kgGallons of Dielectric Fluid3.37 GalGround Test0 VAC10 secDielectric Test26811 VAC10 sec	Dry Space Factor	29.2 %
Section Voltage2078 VoltsVolts/mil stress (film only)1732 Volts/milVolts/mil stress (film and fluid)1341 Volts/milDischarge Resistor Rating4.676 MΩWeight98.1 Lbs44.6 kgGallons of Dielectric Fluid3.37 GalGround Test0 VACDielectric Test26811 VAC	Number of Series Sections	6
Volts/mil stress (film only)1732 Volts/milVolts/mil stress (film and fluid)1341 Volts/milDischarge Resistor Rating4.676 MΩWeight98.1 Lbs44.6 kgGallons of Dielectric Fluid3.37 GalGround Test0 VACDielectric Test26811 VAC	Number of Parallel Packs per Section	2
Volts/mil stress (film and fluid)1341 Volts/milDischarge Resistor Rating4.676 MΩWeight98.1 Lbs44.6 kgGallons of Dielectric Fluid3.37 GalGround Test0 VACDielectric Test26811 VAC	Section Voltage	2078 Volts
Discharge Resistor Rating4.676 MΩWeight98.1 Lbs44.6 kgGallons of Dielectric Fluid3.37 GalGround Test0 VACDielectric Test26811 VAC	Volts/mil stress (film only)	1732 Volts/mil
Weight98.1 Lbs44.6 kgGallons of Dielectric Fluid3.37 GalGround Test0 VAC10 secDielectric Test26811 VAC10 sec	Volts/mil stress (film and fluid)	1341 Volts/mil
Gallons of Dielectric Fluid 3.37 Gal Ground Test 0 V AC 10 sec Dielectric Test 26811 V AC 10 sec	Discharge Resistor Rating	4.676 ΜΩ
Ground Test 0 V AC 10 sec Dielectric Test 26811 V AC 10 sec	Weight	98.1 Lbs 44.6 kg
Dielectric Test 26811 V AC 10 sec	Gallons of Dielectric Fluid	3.37 Gal
	Ground Test	0 V AC 10 sec
	Dielectric Test	26811 V AC 10 sec
Manufactured with Folded edges (Y/N) Yes	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.

