

POWER CAPACITORS



DIELEKTROL[®] Power Capacitor Units

Standard GE Capacitor Units Selection Tables:

- [Single-Phase](#), 50-400 kVAr, 60 Hz, 2.4-21.6 kV

Applicable standards: IEEE/ANSI #18, IEC 871-1

Rated Voltage: 2.4 to 21.6 kV

Rated Frequency: 60 Hz rated (50 Hz Capable)

Permissible Overloads:

Current: 180%

Voltage: 110%

kVAr: 135%

Capacitor Tolerance -0, +10%

Fusing: External (Fuses Optional); Internally Fused available upon request

Temperature Rating: -50 to 50 °C

Altitude: 1000 m (Standard Design)

Discharge Device: Internal Discharge Resister

Discharge Time 300 sec. (IEEE) to \leq 50 V (Available on request IEC - 600 sec. to \leq 75 V)

Resistance Unit Specific

Earth Connection: Unpainted area under the bracket (all capacitors)

Plus ground terminal on cover (single bushing unit)

Case Material: AISI 409 Stainless Steel

Paint: ASA #70 Sky Gray; Epoxy/Urethane system that meets the ANSI outdoor pole-top standard

Dielectric System: Polypropylene

Insulation Liquid: [Dielektrol NON-PCB](#)

Bushing:

Type of insulator / Wet process porcelain
Material

Standard creep (min.) (305 mm up to 15 kV).....(457 mm up to 24 kV)

Special Creep (min.) (636 mm) (699 mm) (762 mm)

Insulation Level 95 kV or 110 kV BIL up to 15 kV with 1.2 X 50 m s wave

125 kV BIL up to 24 kV (Two Bushing)

125, 150, 175, or 200 kV BIL up to 24 kV (single Bushing).

Withstand voltage:	NEMA CP-1 or IEEE #18: 2 X AC or 4.3 X DC Term-Case (10 sec.) IEC 871-1: 2.15 X AC or 4.3 X DC Term -Case Function of Voltage and BIL rating.
Weight:	Unit specific
Type of connection:	Parallel groove connector with Belleville washers



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Single-Phase, 50-400 kVAr, 60 Hz, 2.4-21.6 kV

Units for special applications (i.e. system harmonics) or other non-standard capacitors are available by contacting your local [GE representative](#). CSA labeling is available by adding the prefix 37V to the GE catalog number.

		2 Bushing	1 Bushing	2 Bushing	1 Bushing	2 Bushing	1 Bushing
Unit	kV	50 kVAr		100 kVAr		150 kVAr	
Voltage	BIL	Catalog Number					
2400	95	51L201WC	51L221WC	54L201WC	54L221WC	54L501WC	54L521WC
2770	95	51L202WC	51L222WC	54L202WC	54L222WC	54L502WC	54L522WC
4160	95	51L203WC	51L223WC	54L203WC	54L223WC	54L503WC	54L523WC
4800	95	51L204WC	51L224WC	54L204WC	54L224WC	54L504WC	54L524WC
6640	95	51L205WC	51L225WC	54L205WC	54L225WC	54L505WC	54L525WC
7200	95	51L206WC	51L226WC	54L206WC	54L226WC	54L506WC	54L526WC
7620	95	51L207WC	51L227WC	54L207WC	54L227WC	54L507WC	54L527WC
7960	95	51L208WC	51L228WC	54L208WC	54L228WC	54L508WC	54L528WC
8320	95	51L215WC	51L235WC	54L215WC	54L235WC	54L515WC	54L535WC
9960	95	51L214WC	51L234WC	54L214WC	54L234WC	54L514WC	54L534WC
12470	95	51L209WC	51L229WC	54L209WC	54L229WC	54L509WC	54L529WC
13280	95	51L210WC	51L230WC	54L210WC	54L230WC	54L510WC	54L510WC
13800	95	51L211WC	51L231WC	54L211WC	54L231WC	54L511WC	54L511WC
14400	95	51L212WC	51L232WC	54L212WC	54L232WC	54L512WC	54L512WC
19920	150	N.A.	N.A.	N.A.	54L255WC	N.A.	54L555WC
21600	150	N.A.	N.A.	N.A.	54L256WC	N.A.	54L556WC

		2 Bushing	1 Bushing	2 Bushing	1 Bushing	2 Bushing	1 Bushing
Unit	kV	200 kVAr		300 kVAr		400 kVAr	
Voltage	BIL	Catalog Number					
2400	95	58L101WC	58L121WC	N.A.	N.A.	N.A.	N.A.
2770	95	58L102WC	58L122WC	N.A.	N.A.	N.A.	N.A.
4160	95	58L103WC	58L123WC	59L103WC	59L123WC	98L103WC	98L123WC
4800	95	58L104WC	58L124WC	59L104WC	59L124WC	98L104WC	98L124WC
6640	95	58L105WC	58L125WC	59L105WC	59L125WC	98L105WC	98L125WC
7200	95	58L106WC	58L126WC	59L106WC	59L126WC	98L106WC	98L126WC
7620	95	58L107WC	58L127WC	59L107WC	59L127WC	98L107WC	98L127WC
7960	95	58L108WC	58L128WC	59L108WC	59L128WC	98L108WC	98L128WC
8320	95	58L109WC	58L129WC	59L109WC	59L129WC	98L109WC	98L129WC

9960	95	58L110WC	58L130WC	59L110WC	59L130WC	98L110WC	98L130WC
12470	95	58L111WC	58L131WC	59L111WC	59L131WC	98L111WC	98L131WC
13280	95	58L112WC	58L132WC	59L112WC	59L132WC	98L112WC	98L132WC
13800	95	58L113WC	58L133WC	59L113WC	59L133WC	98L113WC	98L133WC
14400	95	58L114WC	58L134WC	59L114WC	59L134WC	98L114WC	98L134WC
19920	150	N.A.	58L155WC	N.A.	59L155WC	N.A.	98L155WC
21600	150	N.A.	58L156WC	N.A.	59L156WC	N.A.	98L156WC

Optional Special Requirements Offered:

1. DC production line test of 6.25 x rating
2. Greater than 400 kVAr units; up to 1000 kVAr
3. 300 and 400 kVAr 3 phase units
4. Extra Creep bushings
5. Voltages up to 24 kV

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Material Safety Data Sheets



The following PDF file(s) require Adobe Acrobat Reader to view and print locally. Download the [Free Adobe Acrobat Reader](#) here.

- ▶ [Dielektrol - I Fluid...72 KB](#)
- ▶ [Dielektrol - II Fluid...28 KB](#)
- ▶ [Dielektrol - III Fluid...27 KB](#)
- ▶ [Dielektrol - IV Fluid...29 KB](#)
- ▶ [Dielektrol - V Fluid...28KB](#)
- ▶ [Dielektrol - VI Fluid...27 KB](#)
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V. REACTIVITY DATA

STABILITY: Unstable Stable

CONDITIONS TO AVOID: Do not heat above flash point

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Can form aromatic hydrocarbons and carbon monoxide upon pyrolysis or combustion.

HAZARDOUS POLYMERIZATION: May Occur Will Not Occur

CONDITIONS TO AVOID: N.A.

VI. HEALTH HAZARDS

OSHA PERMISSIBLE EXPOSURE LIMIT AND ACGIH THRESHOLD LIMIT VALUE FOR **DEHP**:

TIME WEIGHTED AVERAGE (TWA): 5 mg/m³
 SHORT TERM EXPOSURE LIMIT (STEL): 10 mg/m³

PRINCIPAL ROUTES OF EXPOSURE: Skin contact; inhalation - principally on heating or misting.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE OVEREXPOSURE: Slight irritation with skin contact. Eye contact with liquid is irritating. Inhalation may cause nausea, respiratory tract irritation and slight anesthetic effects. Ingestion can cause abdominal cramps, nausea and diarrhea. Aspiration of material into the lungs can cause chemical pneumonia.

CHRONIC OVEREXPOSURE: N.D.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: N.D.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

National Toxicology Program	<input checked="" type="checkbox"/> Yes for DEHP	<input type="checkbox"/> No
I.A.R.C. Monographs	<input checked="" type="checkbox"/> Yes for DEHP	<input type="checkbox"/> No
OSHA	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

VII. EMERGENCY & FIRST AID PROCEDURES

INHALATION:	Remove to fresh air. Get medical help if irritation persists.
EYES:	Flush promptly with running water for 15 minutes. Get medical help.
SKIN:	Wash contact area promptly with soap and water.
INGESTION:	Contact physician; stomach lavage may be needed.

VIII. TOXICITY DATA

Dielektrol-I contains DEHP, determined to be an animal (rodent) carcinogen. Low acute toxicity (rat oral LD50 20 g/kg).

IX. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	Generally not needed unless product is misted or heated.
EYE PROTECTION:	Safety glasses - goggles for splashing
PROTECTIVE GLOVES:	Rubber
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:	Eye wash station where splashing can occur.
VENTILATION:	General ventilation combined with local exhaust ventilation when material is heated or misted.

X. PRECAUTIONS & SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:	Store in cool place, preferably below 30°C. Store in sealed containers to preserve good electrical properties.
OTHER PRECAUTIONS:	Follow good hygienic practices. Do not eat or smoke where material is used or stored. Emptied containers may contain residual products, keep away from heat, sparks and flames.
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:	Contain spill; recover liquid via vacuum or by adsorbent material such as saw dust or clay.
WASTE DISPOSAL METHODS:	Incinerate; observe federal, state and local laws

XI. REGULATORY INFORMATION

Department of Transportation (DOT):	Dielektrol-I is not regulated as a hazardous material under DOT.
SARA:	DEHP is subject to the Toxic Chemical Release Reporting requirements of SARA Section 313.
REPORTABLE QUANTITY (RQ) UNDER CERCLA:	1 lb. for DEHP (100 lbs. effective Oct. 13, 1989)
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATING:	[1] HEALTH [1] FLAMMABILITY [0] REACTIVITY
HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:	[1] HEALTH [1] FLAMMABILITY [0] REACTIVITY

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4).

These values are obtained using the guidelines or published evaluation prepared by the National Fire Protection Association (NFPA) or, if applicable, the National Paint and Coating Association (for HMIS ratings).

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N.A. - Not Applicable

N.E. - Not Established

N.D. - Not Determined

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