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Distribution Transformers—Medium and High Voltage  Section 21
GE-PROLEC® Liquid Filled Secondary Substation Transformers-SST

GE-PROLEC® Secondary Substation Transformers will meet all of your industrial applications for power distribution. These transformers have a robust construction and are designed with the capability to coordinate with a wide diversity of equipment such as switchboards, LIS, MCCs, etc.

Applications
Industrial
— Oil and Gas
— Chemical Industry
— Paper Industry
— Steel Industry
— Cement Industry
Commercial
— Airports
— Stadiums
— Office Building
— Waste Water
— Stores
Utility
— Electric Utilities
— Rural Electric Cooperatives and Municipalities

Features and Benefits
The GE-PROLEC® Difference
— GE-PROLEC® offers a full line of power distribution products (single phase DTs, industrial transformers, power transformers, etc.)

GE-PROLEC® Quality
— GE-PROLEC® Six-Sigma corporate-wide quality initiative ensures quality design and manufacturing.
— ANSI electrical testing performed during manufacture.
— UL label approved.
— ISO-9001 certified
— ISO-14000 certified

Design Characteristics
— Secondary type substation transformer offers a broad selection of design efficiencies to meet specific customer applications.
— Combines vast engineering experience with sophisticated computer aided design tools to increase performance and reduce cost.
— All secondary substation transformers are built in accordance with the following standards:
  — ANSI — NEMA
  — IEEE — ISO
  — ASTM — NEC
  — AWS — NESC

Advantages of Liquid Filled SSTs
— Lower Maintenance
— Higher BILs than Dry Transformers
— Lower Sound
— Lower Losses
— Lower Price

GE-PROLEC® Fits Your Needs—GE-PROLEC® Engineering and Manufacturing new transformers according to your needs
— Determine Transformer Manufacture
— Identify HV and LV Component
— Develop Outline of Substation
— Highlight Critical dimensions and available space
— Identify HV and LV Bushing height arrangement
— Identify Critical features and accessories

General Construction Features
— The liquid insulated, secondary type substation transformer is designed, manufactured and tested in accordance with the latest ANSI Standards.
— Impedance, sound level and voltage connections are in accordance with NEMA Standards.
— The core is constructed with high-grade gain oriented silicone steel laminations to reduce size, sound and losses.
— The coils are rectangular construction utilizing extra strong, electrical grade, adhesive coated paper between turns.
— The core and coil assembly is installed in a sealed tank, immersed in insulated liquid to prevent dirt, moisture and corrosive elements from deteriorating the electrical and mechanical integrity of the transformer. The transformers have four approximately 2.5 percent rated kVA taps. Two above and two below rated primary voltage. These taps are available by means of an externally operated manual tap changer for operation only when transformer is de-energized, with provisions for padlocking the tap changer.

Specifications
Standard Ratings
— 500, 750, 1,000, 1,500, 2,000, 2,500, 3,000, 3,750, 5,000, 7,500, 10,000 kVA
— 65°C rise Standard
— 55°/56°C rise optional

Standard High Voltages
— 2,400, 4,160, 7,200, 12,000, 12,470, 13,200, 13,800, 22,900, 34,500
— BIL (kV) 45 - 200

Standard Low Voltages
— 208, 480, 600, 2,400, 4,160
— BIL (kV) 30 - 60
— Taps are available with all voltages

Liquids Available
— Oil, Silicone, R'Temp, Envirotemp Fluids

Contact Information
GE-PROLEC®
Bvd. Carlos Salinas de Gortari Km. 9.25
Apopoca, N.L. 66600 Mexico
www.geprolec.com

PROLEC® is a registered trademark of Industras AXA, S.A. Corporation, Mexico.
## Distribution Transformers—Medium and High Voltage  
Section 21

GE-PROLEC® Liquid Filled Secondary Substation Transformers-SST

### Weight, Volume, and Dimensions

#### Oil Filled 65°C Rise HV Copper LV Aluminum

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<thead>
<tr>
<th>kVA</th>
<th>Height (in.)</th>
<th>Flange to Flange (in.)</th>
<th>Depth (in.)</th>
<th>Oil (gallons)</th>
<th>Weight (lbs.)</th>
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#### Silicone Filled 65°C Rise HV Copper LV Aluminum

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<th>Depth (in.)</th>
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#### Silicone Filled 55/65°C Rise HV Copper LV Aluminum

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<th>Depth (in.)</th>
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<th>Weight (lbs.)</th>
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</table>

1 For kVA not listed, contact factory.

Dimensions and weights are subject to change without notice and should not be used for construction purposes.
When power distribution is needed, the GE-PROLEC® Compad Three-Phase Padmount Transformer can meet all of your distribution needs. Packaged in a neat, clean, modern style olive-green color for a pleasing appearance, the Compad Distribution transformer can provide power to any distribution application while offering the safety advantages of tamper and weather resistant construction.

**Features and Benefits**

**The GE-PROLEC® Difference**
- GE-PROLEC® offers a full line of power distribution products (single phase DTs, power transformers, arresters, metering, etc.)
- Access to GE corporate research and development
- Access to GE Capital Services/Leasing

**GE-PROLEC® Quality**
- GE-PROLEC® Six-Sigma corporate wide quality initiative ensures quality design and manufacturing
- ANSI electrical testing performed during manufacture
- Five quality inspections during manufacture
- ISO-9001 certified
- ISO-14000 certified
- UL label approved

**Design Characteristics**
- Commercial Transformer offers a broad selection of design efficiencies to meet specific customer applications.
- Combines vast engineering experience with sophisticated computer aided design tools to increase performance and reduce cost
- All three-phase pads are built in accordance with the following standards:
  - ANSI C57.12.00 - liquid immersed
  - ANSI C57.12.22 - live front
  - ANSI C57.12.26 - dead front
  - ANSI C57.12.28 - enclosure integrity
  - ANSI C57.12.29 - enclosure integrity coastal
  - ANSI C57.12.90 - testing
  - ANSI C57.12.00
  - NEMA TR1

**General Construction Features**
- Removable hinged doors with three point latching
- High voltage compartment is accessible only through low voltage compartment
- Compartment hood/sill removable to facilitate making connections and sliding of unit
- Hinge assemblies are made of corrosion resistant material with 3/8-inch stainless steel hinge pins
- Lifting provisions in accordance with ANSI Standards with 4 lifting lugs
- Jacking and rolling provisions are provided
- Instruction Nameplate mounted in the low voltage compartment door
- LV compartment door can be padlocked using a 1/2-inch diameter shackle—Transformer tank uses sealed tank construction with a welded main cover and tamper resistant handhole
- Provisions for tank grounding in both the high and low voltage compartments
- Tinned, low-voltage bushings, spade-type with 9/16-inch holes spaced on 1 3/4-inch centers
- Tamper and Weather resistant

**Contact Information**

GE-PROLEC®
Blvd. Carlos Salinas de Gortari Km. 9.25
Apodaca, N.L. 66600 Mexico
www.geprolec.com

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Distribution Transformers—Medium and High Voltage  Section 21
GE-PROLEC® Three-Phase Padmount Transformers

Specifications

Standard Ratings
—45-5000 kVA
—65°C rise, 60 hertz standard, 50 hertz optional
High Voltages
—4160GrdY/2400-34, 500GrdY/19,920; 2,400-34,500 Delta
Low Voltages
—208Y/120, 216Y/125, 460Y/265, 480Y/277, 480, 240 and 240
  with 120 volt mid-tap in one phase (4160Y/2400, 4160, 2400, 2400/4160Y/2400 for 750 kVA and larger)
—Taps are available for all voltages
Liquids Available
—Oil, Silicone, R'Temp and Envirotemp Fluids
Fusing Options
—Expulsion Fuses
—Bayonet fusing
—Non-loadbreak dry-well current limiting fuseholder
—Loadbreak dry-well fuseholder
Switching Options
—Radial feed switch - 300 amp
—Loop feed switch - 300 amp
—Loop/Radial switch - 300 amp
—Alternate-source switch - 300 amp
—Loop switch with on/off radial switch
—‘T’ blade sectionalizing switch
—’V’ blade sectionalizing switch
—Panelboards and breakers
—400 and 600 amp switches also available
For detailed product information see Product Bulletin JVB-007.

Applications
—Industrial
—Commercial
—Institutional
—Government
—Small and Medium Commercial
—Strip Malls
—Large Retail Stores

Typical Dimensions

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<tr>
<th>KVA</th>
<th>Front-side Height (in.)</th>
<th>Front-side Width (in.)</th>
<th>Total Depth (in.)</th>
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<th>Rear-side Height (in.)</th>
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<td>78</td>
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Minimum cable openings: 44.1”x 13.7”
Distribution Transformers–Medium and High Voltage  Section 21
GE-PROLEC® Conventional Single-Phase Pole Type Distribution Transformers

Product Description
—Transformers are Conventional Single-Phase Pole Type, Oil Filled 65°C Rise, 60 Hz, 2 High Voltage bushings meeting all applicable ANSI/IEEE and NEMA Standards.
—Transformers with primary voltage 4800 or less, have side-mounted high voltage bushings.
—Transformers with 277 secondary voltage have only 2 low voltage bushings.

Terms and Conditions
—Lead time 7-8 weeks (ready for shipment) after receipt of the Order Entry form in GE-PROLEC®.
—Lead time is subject to change based on factory backlog.
—Prices are FOB Laredo, TX with freight prepaid and allowed to the nearest common carrier delivery point within the continental United States.
—GE Sales Terms and Conditions FN1096 apply.
—If special terms and/or shipping requirements are needed, please consult your Customer Support Engineer.
—All units are designed and manufactured by GE-PROLEC® in our ISO 9001 certified factory located in Monterrey, Mexico.

Notes
—For order quantities greater than 10, consult factory.
—For rating/accessories not included in the price sheet or adders/deduct charts, consult factory.
—Product numbers listed are for pricing/ordering purposes only, the product numbers of units shipped will differ based on the latest design.
—Fax orders to 8*553-2323 or 8*553-2325 / 011 (5281) 8030-2323 or 8030-2325.
—Approval or Record Drawings can be submitted in electronic file (e-mail) upon request, if a hard copy of approval or record drawings is required, please add $30.00 USD for each set.
—Transformer loss information and weight/dimensions (including outline drawings) are available upon request.

Standards
—ANSI/IEEE
—NEMA

Standard Accessories
—Mineral Oil Type 1
—Standard Aluminum Nameplate
—Pressure Relief Valve
—Provision for GRD connector
—Lifting lugs
—Support lugs
—kVA decal
—10 kV cover withstand

Reference Publications
GE-PROLEC® Brochure JVB-004

Contact Information
GE-PROLEC®
Blvd. Carlos Salinas de Gortari Km. 9.25
Apodaca, N.L. 66600 Mexico
www.geprolec.com

PROLEC® is a registered trademark of Industrias AXA, S.A. Corporation, Mexico.
### Distribution Transformers – Medium and High Voltage

#### Section 21

#### GE-PROLEC® Conventional Single-Phase Pole Type Distribution Transformers

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<th>240/480</th>
<th>2-2.5% A &amp; B</th>
<th>277</th>
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**NOTE:** See page 21-8 for ADDERS and DEDUCTS.

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**NOTE:** See page 21-8 for ADDERS and DEDUCTS.

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**NOTE:** See page 21-8 for ADDERS and DEDUCTS.

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**NOTE:** See page 21-8 for ADDERS and DEDUCTS.

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**NOTE:** See page 21-8 for ADDERS and DEDUCTS.
## Distribution Transformers—Medium and High Voltage  
### Section 21  
#### GE-PROLEC® Conventional Single-Phase Pole Type Distribution Transformers

### 12470

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**NOTE:** See ADDERS and DEDUCTS below.

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**NOTE:** See ADDERS and DEDUCTS below.

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**NOTE:** See ADDERS and DEDUCTS below.

### ADDERS (before multiplier)

**General Accessories**
- $2.94 - GDR connector
- $6.72 - Bird guard clip on type 1 per HVVB
- $9.98 - Bird guard hand wheel type 1 per HVVB
- $7.67 - SS Nameplate
- $8.63 - 15AV cover withstand
- $8.51 - Mineral oil Type II

**HV Arresters**
- $71.40 - 2400 primary
- $60.38 - 7200-12470 primary
- $126.62 - 14400 primary
- $198.66 - 19920 primary

**LV NEMA H Spade Connector**
- $13.97 - 5-25 kVA
- $26.99 - 37.5-50 kVA
- $76.02 - 75 kVA
- $100.28 - 100 kVA

**Nomenclature**
- LV: Low voltage
- HV: High voltage
- LVB: Low voltage bushings
- HVB: High voltage bushings
- SS: Stainless Steel

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### DEDUCTS (before multiplier)

Not permitted - HV Bushing 2400 primary.
- $23.94 - HV Bushing 7200-12740 primary
- $31.82 - HV Bushing 14400-19920 primary

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**AddLog® Catalog**  
[www.geelectrical.com](http://www.geelectrical.com)  
Rev. 1/08 Prices and data subject to change without notice
Distribution Transformers—Medium and High Voltage  
GE Network Transformers

When the highest degree of service continuity is the Critical to Quality requirement the a-c secondary network system is the system to use. GE Network Transformers are also applied in some underground systems other than networks where superior sealing and corrosion protection are of primary importance. These non-network applications also include intertie (step) transformers for interconnecting two different voltage systems (300-3000 kVA, 60-200BIL high voltage, 60-95BIL low voltage). 208Y/120 volt secondaries are also available.

Network Transformers are designed in accordance with ANSI C57.12.40 and constructed with the corrosion resistance equivalent of copper bearing steel:

—Cover and Base 0.50 in. thick
—Tank wall and housings 0.312 in. thick

GE uses a special Network Transformers paint system for added corrosion resistance.

Features and Benefits

—GE Six-Sigma quality initiative ensures superiority in design and manufacture
—Designed for optimal corrosion resistance
—High short-circuit strength
—Low sound level
—Positive sealing facilities
—Insulation system for increased loading capacity
—Designed to minimize losses
—Smaller size
—Smaller footprint
—Designed to provide maximum kVA per cubic foot
—Reduced weight

Specifications

Standard Ratings
—300-2500 kVA three-phase
—2.5kV to 34.5 kV high voltage
—216Y/125 or 480Y/277 low voltage
—55/65°C or 65°C

Liquids Available
—Oil, Silicone, Envirotemp, or RTemp fluids

Subway Type Network
(below ground application-frequent/continuous submersion)

Subway Type Network Transformers are designed for frequent submersion and use flat panel radiators with the corrosion equivalence of 0.312 copper-bearing steel. Typical application is grid-type secondary network systems to serve high density load areas of cities.

The Subway Type Network Transformer may also be used in “dry” vault applications if desired.

Vault Type Networks
(above ground “dry” vaults-occasional submersion)

Vault Type Network Transformers are designed for “dry” vaults using lighter weight panel radiators with the corrosion equivalence of 0.093 copper-bearing steel. Typical applications are skyscrapers, high rise apartments, large office or manufacturing facilities where the reliability of a Network System is required.

Contact Information

GE Transformer, Shreveport Operation
7000 Bert Kouns Industrial Loop
Shreveport, LA 71129
Phone: (877) 872-6852
Variation of voltage can have detrimental effects on Utilities and their customers. To prevent customer complaints, loss of revenue due to sub-normal voltage, and increased costs due to higher line losses, GE has designed the VR-1 Voltage Regulator with the utilities in mind. With over 40 years of experience, GE has designed the most reliable regulator ever assembled.

**Features and Benefits**

**Standard Features (External):**
- Weather resistant tank and finish
- Three cover bushings
- Hand-hole cover
- Lifting lugs on the tank
- Oil drain and sampling device
- Minimum oil sight gage
- Provisions for mounting line-to-ground surge arresters
- Provisions for grounding tank with clamp-style terminals
- Dial-type position indicator with drag hand and load bonus adjustment
- Provisions for direct-to-pole mounting
- Diagrammatic anodized aluminum nameplate on tank and control cabinet

**Standard Features (Internal):**
- Switching reactor
- Equalizer windings to balance reactor voltage where necessary
- Self-contained voltage supply for motor and control devises
- Oil level line inside tank to indicate 25°C oil level
- Switching mechanism to have a quick-break, slow make operation, and be provided with electrostatic shielding
- Core and coil assembly to be provided with patterned, epoxy-coated insulation paper and oven-bonded to provide short-circuit withstand as specified by ANSI C57.15.
- By-pass protection for series winding mounted internally using zinc-oxide disks
- Self-contained voltage supply for motor and control devices
- Current transformer

**What makes a GE Regulator different?**
- Reliability; expected switch life is 2 million operations resulting in up to 40 years of trouble free service
- GE provides 3 control types (VR-1, GE-2011-B and GE-2011-C)
- GE-2011 cabinet equipped with PT disconnect switch and CT shorting switch located in the cabinet, which allows the control/adapter panel to be changed-out with de-energizing the regulator
- The GE-2011C is equipped with RS-232, RS-485, and ST type connector for Fiber Optics. (RJ45 Ethernet port optional)
- The GE-2011C is equipped with BECO 2200, BECO 2179, Cooper 2179, DNP3.0, Modbus, UCA2.0, and GP 2179 protocols for SCADA communications
- Both GE-2011 controls can be programmed either from the panel or through a standard RS-232 connector using a serial "null modem" cable and GE-2029A Communications software
- Both GE-2011 controls are equipped with a LCD display. (VFD display optional)
- Motor Capacitor mounted inside the GE-2011 cabinet
- Internal By-pass arrester
- GE regulator is a sealed tank, cover suspended design that allows complete removal of all internals from the top
- GE builds a true 55°C rated design that provides 12% extra continuous loading capability without undue loss of insulation life.

**Optional Features**
- 304L stainless steel
- Galvanized sub-bases
- Remote cables kits optional up to 50' for pole mounting applications.
- Provide polymer housed PDV-6S and PDV-100 arresters from 3KV through 27KV.
- Provide a variety of bushing terminals, 2-hole terminals, 4-hole terminals, sefcor 4-hole terminals, Anderson connectors suitable for #2-1000MCM conductor, and 1"-14 THD Studs.
- Stainless Steel hardware
- Control Heater with thermostat
- Bird Guards
- Extra Creep Bushings

**Specifications**

**Standard Ratings**
- 50 - 833 kVA
- Voltage from 2500 (for 2500/4330Y Volt Circuits, 60kV-BIL) to 19920 Volts (for 34,500 GrdY/19920 Circuits, 150kV-BIL)
- 50 hertz ratings at 10,500, 11,000, 20,000 21,000 and 24,000 up to 250 Amps

**Contact Information**

GE Transformer, Shreveport Operation
7000 Bert Kouns Industrial Loop
Shreveport, LA 71129
Phone: (877) 872-6852
### GE VR-1 Voltage Regulator

**GE Six-Sigma quality ensures superiority in design and manufacture.**

**Internal Zenox Varistor provides optimum surge protection against abnormal voltage surges.**

**A sealed tank, cover-suspended design that allows complete removal of all internals from the top.**

**Laser-etched nameplate.**

**Weather resistant tank and paint finish.**

**Hand-hole on cover.**

**Reliability; expected switch life is 2 million operations which could mean 20 years of trouble free service.**

**GE provides 3 control types (VR-1, GE-2011-B and GE-2011-C).**

**Oil drain and sampling device.**

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### Distribution Transformers—Medium and High Voltage

**Section 21**

**GE VR-1 Voltage Regulator**

---

#### 2500 Volts - 60 kV BIL (for 2500/4330Y, 2400/4160Y Volt Circuits)

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<th>Galls Oil[3] net @ 7.45 lbs per Gal.</th>
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<td>88</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>33 x 38</td>
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<td></td>
<td></td>
<td>76</td>
</tr>
<tr>
<td>250</td>
<td>33D4250D2</td>
<td>500</td>
<td>2660</td>
<td>2560</td>
<td>92</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>36 x 46</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>83</td>
</tr>
<tr>
<td>333</td>
<td>33D4333D2</td>
<td>666</td>
<td>2990</td>
<td>2800</td>
<td>98</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>43 x 46</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>83</td>
</tr>
</tbody>
</table>

---

1. All regulators are shipped oil-filled.
2. These regulators have provisions for direct-to-pole, platform, or crossarm mounting. For crossarm mounting, suspension hooks will be required and may be obtained from hardware manufacturer.
3. These regulators are furnished with taps in the control circuit to operate at 2500V and 4800V at rated current.
# Distribution Transformers—Medium and High Voltage  
## Section 21  
### GE VR-1 Voltage Regulator

#### 7620 Volts - 95 kV BIL (for 7960/13,800Y, 7620/13,200Y, 7200/12470Y Volt Circuits)

<table>
<thead>
<tr>
<th>kVA</th>
<th>Product No.</th>
<th>Load Amps at Raise &amp; Lower 10% Regulation</th>
<th>Approx. Wt. (lbs) Including Oil</th>
<th>Gallons Oil1 net @ 7.45 lbs. per Gal.</th>
<th>Approximate Dimensions Over-all Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>38.1</td>
<td>33D50382</td>
<td>50</td>
<td>1100</td>
<td>1000</td>
<td>27 X 33</td>
</tr>
<tr>
<td>76.2</td>
<td>33D50762</td>
<td>100</td>
<td>1380</td>
<td>1280</td>
<td>37 X 35</td>
</tr>
<tr>
<td>114.3</td>
<td>33D51142</td>
<td>150</td>
<td>1700</td>
<td>1600</td>
<td>32 X 35</td>
</tr>
<tr>
<td>147</td>
<td>33D51672</td>
<td>219/232                               3/4</td>
<td>2000</td>
<td>1900</td>
<td>34 X 35</td>
</tr>
<tr>
<td>250</td>
<td>33D52502</td>
<td>328/347                               3/4</td>
<td>2720</td>
<td>2620</td>
<td>38 X 42</td>
</tr>
<tr>
<td>333</td>
<td>33D53333</td>
<td>438/463                               3/4</td>
<td>3080</td>
<td>2980</td>
<td>39 X 42</td>
</tr>
<tr>
<td>416</td>
<td>33D54166</td>
<td>548/571                               3/4</td>
<td>3380</td>
<td>3280</td>
<td>41 X 41</td>
</tr>
<tr>
<td>509</td>
<td>33D55093</td>
<td>668</td>
<td>3810</td>
<td>3710</td>
<td>45 X 45</td>
</tr>
</tbody>
</table>

#### 13,800 Volts - 95 kV BIL (suitable for 13,800, 13,200 or 12,000 Volt Circuits at Rated Amperes)

<table>
<thead>
<tr>
<th>kVA</th>
<th>Product No.</th>
<th>Load Amps at Raise &amp; Lower 10% Regulation</th>
<th>Approx. Wt. (lbs) Including Oil</th>
<th>Gallons Oil1 net @ 7.45 lbs. per Gal.</th>
<th>Approximate Dimensions Over-all Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>69</td>
<td>33D60692</td>
<td>50</td>
<td>1380</td>
<td>1280</td>
<td>27 X 35</td>
</tr>
<tr>
<td>138</td>
<td>33D61382</td>
<td>100</td>
<td>1890</td>
<td>1790</td>
<td>29 X 35</td>
</tr>
<tr>
<td>207</td>
<td>33D62072</td>
<td>150</td>
<td>2600</td>
<td>2500</td>
<td>33 X 42</td>
</tr>
<tr>
<td>276</td>
<td>33D62762</td>
<td>200</td>
<td>3120</td>
<td>3020</td>
<td>32 X 43</td>
</tr>
</tbody>
</table>

#### 14,400 Volts - 150 kV BILS (for 14,400/24940Y volt circuits, also 7200/12,470 circuits at Rated Amperes)

<table>
<thead>
<tr>
<th>kVA</th>
<th>Product No.</th>
<th>Load Amps at Raise &amp; Lower 10% Regulation</th>
<th>Approx. Wt. (lbs) Including Oil</th>
<th>Gallons Oil1 net @ 7.45 lbs. per Gal.</th>
<th>Approximate Dimensions Over-all Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>33D70722</td>
<td>50</td>
<td>1920</td>
<td>1820</td>
<td>29 X 38</td>
</tr>
<tr>
<td>144</td>
<td>33D71442</td>
<td>100</td>
<td>2190</td>
<td>2150</td>
<td>33 X 42</td>
</tr>
<tr>
<td>288</td>
<td>33D72882</td>
<td>200</td>
<td>3290</td>
<td>3190</td>
<td>39 X 46</td>
</tr>
<tr>
<td>333</td>
<td>33D73332</td>
<td>253</td>
<td>4020</td>
<td>3920</td>
<td>42 X 46</td>
</tr>
<tr>
<td>416</td>
<td>33D74162</td>
<td>289</td>
<td>4400</td>
<td>4240</td>
<td>43 X 46</td>
</tr>
<tr>
<td>432</td>
<td>33D74322</td>
<td>300</td>
<td>4680</td>
<td>4540</td>
<td>48 X 49</td>
</tr>
<tr>
<td>509</td>
<td>33D75093</td>
<td>347</td>
<td>4870</td>
<td>4770</td>
<td>48 X 49</td>
</tr>
<tr>
<td>576</td>
<td>33D75762</td>
<td>400</td>
<td>5060</td>
<td>4960</td>
<td>48 X 49</td>
</tr>
<tr>
<td>667</td>
<td>33D76672</td>
<td>463</td>
<td>5550</td>
<td>5350</td>
<td>50 X 49</td>
</tr>
<tr>
<td>720</td>
<td>33D77202</td>
<td>500</td>
<td>5550</td>
<td>5450</td>
<td>54 X 53</td>
</tr>
</tbody>
</table>

#### 19,920 Volts - 150 kV BILS (for 34,500 GRDY/19,920 Volt Circuits)

<table>
<thead>
<tr>
<th>kVA</th>
<th>Product No.</th>
<th>Load Amps at Raise &amp; Lower 10% Regulation</th>
<th>Approx. Wt. (lbs) Including Oil</th>
<th>Gallons Oil1 net @ 7.45 lbs. per Gal.</th>
<th>Approximate Dimensions Over-all Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>33D81002</td>
<td>50.2</td>
<td>2330</td>
<td>2230</td>
<td>29 X 36</td>
</tr>
<tr>
<td>200</td>
<td>33D82002</td>
<td>100.4</td>
<td>3040</td>
<td>2940</td>
<td>31 X 41</td>
</tr>
<tr>
<td>333</td>
<td>33D83332</td>
<td>167</td>
<td>4040</td>
<td>3940</td>
<td>42 X 49</td>
</tr>
<tr>
<td>400</td>
<td>33D84002</td>
<td>201</td>
<td>4420</td>
<td>4150</td>
<td>48 X 49</td>
</tr>
<tr>
<td>500</td>
<td>33D85002</td>
<td>251</td>
<td>5490</td>
<td>5390</td>
<td>53 X 49</td>
</tr>
<tr>
<td>667</td>
<td>33D86672</td>
<td>335</td>
<td>5590</td>
<td>5490</td>
<td>56 X 51</td>
</tr>
<tr>
<td>833</td>
<td>33D88332</td>
<td>418 865/90</td>
<td>5680</td>
<td>5580</td>
<td>58 X 53</td>
</tr>
</tbody>
</table>

1. All regulators are shipped oil-filled.  
2. These regulators have provisions for direct-to-pole, platform, or crossarm mounting. For crossarm mounting, suspension hooks will be required and may be obtained from hardware manufacturer.  
3. Three 7620V regulators can be operated at 7960V, 7620V, 7200V, 5000V, 4800V, 4330V, 4160V, 2500V and 2400V at rated amperes. Units shipped connected for 7200V operation.  
4. These regulators are capable of operation at voltages from 7960V to 2500V. Can apply currents up to the current determined by the rated kVA and the voltage level, provided the operating voltage is from 7200V to 7960V. For voltages below 7200V, the current is limited to the value determined for 7200V operation.  
5. 150 kV BIL on S and L, 95 kV BIL on SL.
Distribution Transformers—Medium and High Voltage  Section 21
Bushing Potential Device KA-108

The General Electric Type KA-108 Bushing Potential Device is a voltage transforming device for the operation of instruments and relays from high-voltage circuits, 115 kV and above designed with optimal safety, reliability and savings in mind.

Greater Safety
— This potential device has several safety features:
  — A ground switch for removing high-voltage from the device.
  — A spark gap that protects the device circuit from abnormally high surge voltages.
  — A flexible metal covered cable that connects the device to the bushing, so that no live circuits are exposed.

Features and Benefits
— Economical
— High-flexibility
— Adjustable to a variety of HV bushings
— Constant burden capacity
— Rugged construction

Application
The KA-108 bushing potential device is well suited to operate the usual types of relays, synchroscopes, volt-meters, indicating lamps, wattmeters, and similar instruments requiring a potential source of essentially constant ratio and phase relation with respect to the high-voltage circuit. The device’s major field of application is in protection and control equipment for generating plants, substations, and transmission lines.

Contact Information
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7602 Woodland Drive
Suite 200
Indianapolis IN 46278
800-331-0436
fax: 513-774-2924
www.partsdirect.ge.com