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Distribution Transformers-Medium and High Voltage  
Section 25 
Prolec GE Primary and Secondary Substation Transformers

Prolec GE Substation transformers are designed and manufactured to meet our customer needs. As an innovative manufacturer, we are continuously implementing new technologies, using high grade of materials which allows flexibility in design and makes us the best in class of our manufacturing process and testing labs. This results in high reliability transformers meeting the following applicable standards:
- American National Standards Institute (ANSI)
- Institute of Electrical and Electronics Engineers, Inc. (IEEE)
- National Electrical Manufacturers Association (NEMA)
- Department of Energy (DOE)
- Canadian Standards Association (CSA)

**Applications**

<table>
<thead>
<tr>
<th>Industrial</th>
<th>Commercial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil &amp; Gas</td>
<td>Hospitals</td>
</tr>
<tr>
<td>Paper</td>
<td>Airports</td>
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<tr>
<td>Steel</td>
<td>Stores</td>
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<tr>
<td>Mining</td>
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</tr>
<tr>
<td>Chemical</td>
<td></td>
</tr>
<tr>
<td>Food</td>
<td></td>
</tr>
</tbody>
</table>

**Features and Benefits**

- Available up to 15 MVA Substation transformers with rectangular windings with our compression bounding process with excellent reliability, meeting or exceeding ANSI/IEEE short circuit performance.
- Pressurized winging shop to reduce the dust and moisture to extend the life of the insulation
- Tank design to meet full vacuum
- Capability to coordinate with electrical equipment such as HV Switch, switchboards, LIS, MCCs
- Optimizing system for each transformer combined with the great variety of materials, Prolec GE finds the best solution and price for our customers
- High electrical grade conductors and the best insulation materials bring the high efficiency and reliability avoiding shut off
- Fluids high point of flammability to reduce fire risk
- Double welding and gaskets of high endurance to prevent spills and leaks
- High resistance materials and paint system to support UV

**Specifications**

**Product scope**
- 225 – 15,000 KVA
- 2400 – 69,000 V Primary voltages
- 220V/127 – 34,500 V Secondary voltages
- 3 phase
- 60 or 50 Hz
- 65ª C, 55/65ª C
- ONAN, ONAN/ONAF, KNAN, KNAN/KNAF
- Mineral oil, FR3, Silicone, Beta Fluid, Alpha Fluid
- 3300 - 14850 FASL
- Copper or aluminum windings
- Standard impedance according ANSI C57.12.36

**Specialties**
- IBC/CBC certified up to 5 MVA
- UL listed
- CUL listed
- Factory mutual (FM) approved
- Retrofit
- Special impedance per customer request

**Contact Information**

Prolec GE
Blvd. Carlos Salinas de Gortari Km 9.25
Apodaca, Nuevo León, 66600 México
www.prolecge.com
Distribution Transformers-Medium and High Voltage  
Prolec GE Primary and Secondary 
Substation Transformers

General construction features
— Design to meet all customer specification
— Flexibility in design
— Flexible core and coil enabled to dimensional requirements
— Efficient paint system to meet or exceed marine environments

Optional features
— De-energized external operation tap changer up 7 positions
— LV porcelain bushings
— Removable radiators with shut off valves
— Stainless steel removable radiators with shut off valves
— Galvanized removable radiators with shut off valves
— HV and LV top or bottom air terminal chambers
— High corrosive paint system
— Liquid level gauge with 1 or 2 alarm contacts
— Liquid temperature gauge with 2 or 3 alarm contacts
— Winding temperature gauge with 2 or 3 alarm contacts
— Pressure vacuum gauge with 2 alarm contacts
— Pressure relief device with 1 or 2 alarm contacts
— Sudden pressure relay with 2 alarm contacts with or without seal in
— Scada
— Laser scribed stainless steel nameplate
— Copper ground pads
— Filter press valve
— Current transformers 2 per phase
— Lighting arresters on HV
— Neutral grounding resistor
— Low audible sound level
— Control boxes 3R, 4, 4X & 7

Standard features
— De-energized external operation tap changer
— Side mounted HV segment 2 and LV bushings segment 4
— HV porcelain bushings
— LV epoxy bushings with NEMA spades
— Welded radiators
— HV and LV flanges
— HV and LV throats
— 5 mils thickness paint system, ANSI 61 finish color
— HV throats
— Liquid level gauge without alarm contacts
— Liquid temperature gauge without alarm contacts
— Pressure vacuum gauge without alarm contacts
— Pressure test valve
— Pressure relief device without alarm contacts above 2500 KVA
— Laser scribed anodized aluminum nameplate
— Stainless steel ground pads (4)
— Drain valve with sampling device
— Filter press provision
— Full vacuum design tank
— Audible sound level by NEMA standard

Contact Information
Prolec GE
Blvd. Carlos Salinas de Gortari Km 9.25
Apodaca, Nuevo León, 66600 México
www.prolecge.com
Prolec GE commercial transformers are designed and manufactured to meet our customer needs.

As an innovative manufacturer, we are continuously implementing new technologies, using high grade of materials which allows flexibility in design and makes us the best in class of our manufacturing process and testing labs. This results in high reliability transformers meeting the following applicable standards:
— American National Standards Institute (ANSI)
— Institute of Electrical and Electronics Engineers, Inc. (IEEE)
— National Electrical Manufacturers Association (NEMA)
— Department of Energy (DOE)
— Canadian Standards Association (CSA)

Applications
— Hospitals
— Airports
— Schools and Universities
— Commercial buildings
— Industrial facilities

Features and Benefits
— Available up to 5 MVA commercial transformers with rectangular windings with our compression bonding process with excellent reliability, meeting or exceeding ANSI/IEEE short circuit performance.
— Optimizing system for each transformer, combined with the great variety of materials, Prolec GE finds the best solution and price for our customers.
— High electrical grade conductors and the best insulation materials bring the high efficiency and reliability to avoid shut off
— Fluids high point of flammability to reduce fire risk
— High resistance materials and paint system to support UV

Fuses
— Expulsion
— Bayonet
— Non load break dry well current limiting fuseholder
— Load break dry well current limiting fuseholder

Specifications
Product scope
— 45 – 5,000 KVA
— 2400 – 34,500 V Primary voltages
— 208Y/120 – 4,160 V Secondary voltages
— 3 phase
— 60 or 50 Hz
— 65º C, 55/65º C
— ONAN or KNAN
— Mineral oil, FR3, Silicone, Beta Fluid, Alpha Fluid
— 3300 FASL
— Aluminum or copper windings
— Standard impedance according to ANSI C57.12.26

Specialties
— IBC/CBC certified
— UL listed
— CUL listed
— Factory mutual (FM) approved
— Arc Flash
— Special impedance per customer request

Contact Information
Prolec GE
Blvd. Carlos Salinas de Gortari Km 9.25
Apodaca, Nuevo León , 66600 México
www.prolecge.com
### General construction features
- Design to meet all customer specifications
- Flexibility in design
- Flexible core and coil enabled to dimensional requirements
- Flip top cabinet
- Electrostatic paint system
- Full protected, fuses and breakers

### Optional features
- De-energized external operation tap changer up 7 positions
- HV integral bushings
- Stainless steel radiators
- Galvanized radiators
- Liquid level gauge with 1 or 2 alarm contacts
- Liquid temperature gauge with 2 or 3 alarm contacts
- Winding temperature gauge with 2 or 3 alarm contacts
- Pressure vacuum gauge with 2 alarm contacts
- Pressure relief device with 1 or 2 alarm contacts
- Sudden pressure relay with 2 alarm contacts with or without seal-in
- Scada
- Laser scribed stainless steel nameplate
- Copper ground pads
- Filter press valve
- Lighting arresters on HV
- Low audible sound level
- Control boxes 3R, 4, 4X and 7

### Standard features
- De-energized external operation tap changer
- HV bushings well
- LV epoxy bushings with NEMA spades
- Welded radiators
- 5 mils thickness paint system, Green Munsell 7Gy 3.29/1.5 finish color
- Liquid level gauge without alarm contacts
- Liquid temperature gauge without alarm contacts
- Laser scribed anodized aluminum nameplate
- Stainless steel ground pads
- Drain valve with sampling device
- Filter press provision
- Audible sound level by NEMA standard

### Contact Information
Prolec GE  
Blvd. Carlos Salinas de Gortari Km 9.25  
Apodaca, Nuevo León, 66600 México  
www.prolecge.com
Prolec GE designs and manufactures a complete line of single-phase pole-type distribution transformers for installation on utility overhead systems. These highly reliable transformers are available in a wide variety of ratings and accessories combinations, meeting or exceeding applicable standards:

- American National Standards Institute (ANSI)
- Institute of Electrical and Electronics Engineers, Inc. (IEEE)
- National Electrical Manufacturers Association (NEMA)
- Department of Energy (DOE)
- Rural Utility Service (RUS)

### Standard sizes and voltages

- kVA: 10, 15, 25, 37.5, 50, 75, 100 and 167
- HV ratings: 4160GrdY/2400 to 34500GrdY/19920
- Dual voltages available
- BIL: 60 kV to 150 kV
- LV ratings: 240/120, 480/240 and 277

Please contact your GE sales representative for kVA sizes and voltage ratings not listed

### Features and Benefits

- Available up to 167 kVA single-phase poles. Our compression bounding process have been effectively used with an excellent reliability, meeting or exceeding ANSI/IEEE short circuit performance
- Optimizing system for each transformer combined with the great variety of materials, Prolec GE finds the best solution and price for our customers
- High electrical grade conductors and the best insulation materials bring the high efficiency and reliability avoiding shut-off
- High resistance materials and paint system to support UV
- Mild steel tank with welded lifting lugs and hanger brackets for direct-to-pole mounting
- Single piece clamped cover band
- Low-voltage ground provisions
- Tank ground provision
- Insulated cover for wildlife protection
- Laser engraved aluminum nameplate
- Non-PCB insulating oil
- Arrester mounting nuts welded to tank (single bushing designs)
- One HV bushing with tank ground strap for grounded wye applications or two HV bushings for wye applications

### Optional features and accessories

- Broad selection of design efficiencies to meet specific customer applications and DOE requirements
- Automatic pressure relief valve
- High-voltage taps with external tank mounted no load tap changer
- Dual high-voltage ratings (not available with taps)
- Stencils and labels according to customer requirements
- Low-voltage circuit breaker with reset (and optional overload signal light)
- Internal high-voltage expulsion fuse
- External tank mounted high-voltage lightning arrester
- Under oil arrester
- External low-voltage surge arrester
- Interlaced secondary windings (through 50 kVA ratings)
- Stainless steel tank, cover, clamping band
- Extra creep options for high-voltage bushings
- Variety of features available for wildlife protection
- Magnex™

### Routine tests

- Leak test
- Polarity and phase relation
- Resistance
- No-load losses and excitation current
- Load losses and impedance
- Applied voltage
- Induced voltage
- Full wave impulse
- Ratio test

### Contact Information

Prolec GE
Blvd. Carlos Salinas de Gortari Km 9.25
Apodaca, Nuevo León , 66600 México
www.prolecge.com
Distribution Transformers – Medium and High Voltage  Section 25
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
— 2.5 kV to 34.5 kV high voltage
— 216Y/125 or 480Y/277 low voltage
— 55/65°C or 65°C

Liquids Available
— Oil, Silicone, Envirotamp, 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
Distribution Transformers–Medium and High Voltage  Section 25
GE VR-1 Voltage Regulator

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 devices
—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

Optional Features
—304L stainless steel
—Galvanized sub-bases
—Remote cables kits optional up to 50’ for pole mounting applications.
—Provide polymer housed PDV-65 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
# Distribution Transformers—Medium and High Voltage

## 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

### 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)

### 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

### Oil drain and sampling device

---

## 2500 Volts - 60 kV BIL (for 2500/4330Y, 2400/4160Y 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>Galls Oil1 net @ 7.45 lbs per Gal.</th>
<th>Approximate Dimensions Over-all Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>33D30502</td>
<td>200</td>
<td>1330</td>
<td>1230</td>
<td>62</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ship</td>
<td>Net</td>
<td>Proj. Floor Space Height Type</td>
</tr>
<tr>
<td>75</td>
<td>33D30752</td>
<td>300</td>
<td>1490</td>
<td>1390</td>
<td>63</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ship</td>
<td>Net</td>
<td>Proj. Floor Space Height Type</td>
</tr>
<tr>
<td>100</td>
<td>33D311002</td>
<td>400</td>
<td>1930</td>
<td>1830</td>
<td>86</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ship</td>
<td>Net</td>
<td>Proj. Floor Space Height Type</td>
</tr>
<tr>
<td>167</td>
<td>33D3167</td>
<td>668</td>
<td>2200</td>
<td>2100</td>
<td>90</td>
</tr>
</tbody>
</table>

1All regulators are shipped oil-filled.

---

## 5000 Volts - 75 kV (for 5000/8660Y, 4800/8310Y, 2500/4330Y 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>Galls Oil1 net @ 7.45 lbs per Gal.</th>
<th>Approximate Dimensions Over-all Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>33D40502</td>
<td>100</td>
<td>1190</td>
<td>1090</td>
<td>46</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ship</td>
<td>Net</td>
<td>Proj. Floor Space Height Type</td>
</tr>
<tr>
<td>100</td>
<td>33D411002</td>
<td>200</td>
<td>1590</td>
<td>1490</td>
<td>61</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ship</td>
<td>Net</td>
<td>Proj. Floor Space Height Type</td>
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<tr>
<td>167</td>
<td>33D41672</td>
<td>334</td>
<td>2250</td>
<td>2150</td>
<td>88</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ship</td>
<td>Net</td>
<td>Proj. Floor Space Height Type</td>
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<td>250</td>
<td>33D42502</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>Ship</td>
<td>Net</td>
<td>Proj. Floor Space Height Type</td>
</tr>
<tr>
<td>333</td>
<td>33D43313</td>
<td>666</td>
<td>2980</td>
<td>2880</td>
<td>98</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Ship</td>
<td>Net</td>
<td>Proj. Floor Space Height Type</td>
</tr>
</tbody>
</table>

1All regulators are shipped oil-filled.

2These 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.

3These regulators are furnished with taps in the control circuit to operate at 2500V and 4800V at rated current.

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### Distribution Transformers—Medium and High Voltage  
#### Section 25  
#### 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 Oil³ net @ 7.45 lbs. per Gal.</th>
<th>Approximate Dimensions Over-all Inches</th>
<th>Proj. Floor Space</th>
<th>Height</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>38.1</td>
<td>33D5038²</td>
<td>50</td>
<td>1100</td>
<td>1000</td>
<td>46</td>
<td>27 X 33</td>
<td>64</td>
<td>Pole</td>
</tr>
<tr>
<td>76.2</td>
<td>33D5076²</td>
<td>100</td>
<td>1380</td>
<td>1280</td>
<td>57</td>
<td>27 X 35</td>
<td>70</td>
<td>Pole</td>
</tr>
<tr>
<td>114.3</td>
<td>33D5114²</td>
<td>160</td>
<td>1700</td>
<td>1600</td>
<td>62</td>
<td>32 X 35</td>
<td>71</td>
<td>Pole</td>
</tr>
<tr>
<td>167²</td>
<td>33D5167²</td>
<td>219/222 ²</td>
<td>2000</td>
<td>1900</td>
<td>67</td>
<td>34 X 43</td>
<td>75</td>
<td>Pole</td>
</tr>
<tr>
<td>250³</td>
<td>33D5250³</td>
<td>328/347 ³</td>
<td>2720</td>
<td>2620</td>
<td>95</td>
<td>38 X 42</td>
<td>83</td>
<td>Station</td>
</tr>
<tr>
<td>333³</td>
<td>33D5333³</td>
<td>438/463 ³</td>
<td>3080</td>
<td>2980</td>
<td>100</td>
<td>39 X 42</td>
<td>88</td>
<td>Station</td>
</tr>
<tr>
<td>416³</td>
<td>33D5416³</td>
<td>548/573 ³</td>
<td>3380</td>
<td>3280</td>
<td>106</td>
<td>41 X 42</td>
<td>93</td>
<td>Station</td>
</tr>
<tr>
<td>509³</td>
<td>33D5509³</td>
<td>668³</td>
<td>3810</td>
<td>3710</td>
<td>127</td>
<td>45 X 45</td>
<td>93</td>
<td>Station</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 Oil³ net @ 7.45 lbs. per Gal.</th>
<th>Approximate Dimensions Over-all Inches</th>
<th>Proj. Floor Space</th>
<th>Height</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>69</td>
<td>33D6069²</td>
<td>50</td>
<td>1380</td>
<td>1280</td>
<td>52</td>
<td>27 X 35</td>
<td>72</td>
<td>Pole</td>
</tr>
<tr>
<td>138</td>
<td>33D6138²</td>
<td>100</td>
<td>1890</td>
<td>1790</td>
<td>64</td>
<td>29 X 35</td>
<td>87</td>
<td>Pole</td>
</tr>
<tr>
<td>207</td>
<td>33D6207²</td>
<td>150</td>
<td>2600</td>
<td>2500</td>
<td>99</td>
<td>33 X 42</td>
<td>82</td>
<td>Pole</td>
</tr>
<tr>
<td>276</td>
<td>33D6276²</td>
<td>200</td>
<td>3120</td>
<td>3020</td>
<td>127</td>
<td>37 X 43</td>
<td>92</td>
<td>Pole/Station</td>
</tr>
</tbody>
</table>

#### 14,400 Volts - 150 kV BIL (for 14,400/24940Y volt circuits, also 7200/12,470 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 Oil³ net @ 7.45 lbs. per Gal.</th>
<th>Approximate Dimensions Over-all Inches</th>
<th>Proj. Floor Space</th>
<th>Height</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>33D7072²</td>
<td>50</td>
<td>1920</td>
<td>1820</td>
<td>96</td>
<td>29 X 38</td>
<td>79</td>
<td>Pole</td>
</tr>
<tr>
<td>144</td>
<td>33D7144²</td>
<td>100</td>
<td>2480</td>
<td>2380</td>
<td>102</td>
<td>33 X 42</td>
<td>88</td>
<td>Pole</td>
</tr>
<tr>
<td>288</td>
<td>33D7288²</td>
<td>200</td>
<td>3290</td>
<td>3190</td>
<td>127</td>
<td>39 X 45</td>
<td>96</td>
<td>Station</td>
</tr>
<tr>
<td>333</td>
<td>33D7333³</td>
<td>231</td>
<td>4010</td>
<td>3910</td>
<td>161</td>
<td>42 X 47</td>
<td>101</td>
<td>Station</td>
</tr>
<tr>
<td>416²</td>
<td>33D7416²</td>
<td>4020</td>
<td>3920</td>
<td>3920</td>
<td>161</td>
<td>43 X 46</td>
<td>103</td>
<td>Station</td>
</tr>
<tr>
<td>432³</td>
<td>33D7432³</td>
<td>4360</td>
<td>4240</td>
<td>4240</td>
<td>169</td>
<td>48 X 49</td>
<td>103</td>
<td>Station</td>
</tr>
<tr>
<td>500³</td>
<td>33D7500³</td>
<td>4870</td>
<td>4770</td>
<td>4770</td>
<td>168</td>
<td>48 X 49</td>
<td>109</td>
<td>Station</td>
</tr>
<tr>
<td>576³</td>
<td>33D7576³</td>
<td>5060</td>
<td>4960</td>
<td>4960</td>
<td>172</td>
<td>48 X 49</td>
<td>109</td>
<td>Station</td>
</tr>
<tr>
<td>667³</td>
<td>33D7667³</td>
<td>5550</td>
<td>5450</td>
<td>5450</td>
<td>172</td>
<td>50 X 49</td>
<td>109</td>
<td>Station</td>
</tr>
<tr>
<td>720³</td>
<td>33D7720³</td>
<td>5550</td>
<td>5450</td>
<td>5450</td>
<td>172</td>
<td>54 X 53</td>
<td>109</td>
<td>Station</td>
</tr>
</tbody>
</table>

#### 19,920 Volts - 150 kV BIL (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 Oil³ net @ 7.45 lbs. per Gal.</th>
<th>Approximate Dimensions Over-all Inches</th>
<th>Proj. Floor Space</th>
<th>Height</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>33D8100²</td>
<td>50.2</td>
<td>2330</td>
<td>2230</td>
<td>110</td>
<td>29 X 36</td>
<td>94</td>
<td>Pole</td>
</tr>
<tr>
<td>200</td>
<td>33D8200²</td>
<td>100.4</td>
<td>3040</td>
<td>2940</td>
<td>132</td>
<td>31 X 41</td>
<td>101</td>
<td>Station</td>
</tr>
<tr>
<td>333</td>
<td>33D8333³</td>
<td>167</td>
<td>4040</td>
<td>3940</td>
<td>160</td>
<td>42 X 49</td>
<td>103</td>
<td>Station</td>
</tr>
<tr>
<td>400³</td>
<td>33D8400³</td>
<td>4250</td>
<td>4150</td>
<td>4150</td>
<td>165</td>
<td>48 X 49</td>
<td>103</td>
<td>Station</td>
</tr>
<tr>
<td>500³</td>
<td>33D8500³</td>
<td>5490</td>
<td>5390</td>
<td>5390</td>
<td>174</td>
<td>53 X 49</td>
<td>109</td>
<td>Station</td>
</tr>
<tr>
<td>667³</td>
<td>33D8667³</td>
<td>5590</td>
<td>5490</td>
<td>5490</td>
<td>177</td>
<td>56 X 51</td>
<td>109</td>
<td>Station</td>
</tr>
<tr>
<td>833³</td>
<td>33D8833³</td>
<td>5680</td>
<td>5580</td>
<td>5580</td>
<td>197</td>
<td>58 X 53</td>
<td>109</td>
<td>Station</td>
</tr>
</tbody>
</table>

1All regulators are shipped oil-filled.
2These 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.
3Three 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.
4These 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.
5150 kV BIL on S and L, 95 kV BIL on SL.
Distribution Transformers–Medium and High Voltage  Section 25
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
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Indianapolis IN 46278
800-331-0436
fax: 513-774-2924
www.partsdirect.ge.com