Description

The General Electric Type KA-108 Bushing Potential Device is a reliable, safe, economical voltage transforming device for the operation of instruments and relays from high-voltage circuits, 115 kV and above.

The KA-108 bushing potential device is well suited to operate the usual types of relays, synchroscopes, voltmeters, indicating lamps, wattmeters (not for revenue) 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 protecting and control equipment for generating plants, substations, transmission lines, etc.

Features and Benefits

- Economical
- High-flexibility
- Adjustable to a variety of HV bushings
- Constant burden capacity
- Rugged construction
Transformers
Construction-Non-Ventilated

Description

With GE's general purpose construction type of transformers, most common sizes and voltage ratings are immediately available from stock. The complete family of GE transformers provide quiet reliable long lasting operation. Since no vaults are required for installation, these transformers can be located near the load to provide the correct voltage.

Features and Benefits

- Product is designed to be wall mounted and has a generous sized wiring compartment to its lower side.
- These units are encapsulated and have a UL approved 180 degree C insulation system. They are designed to operate at 115 degree C rise. Low temperature designs, 80 degree C rise are available with this construction.
- Smaller rated Drive Isolation Transformers 3 to 11 KVA are designed in this product family.

Applications

- For supplying appliance, lighting and power loads from electrical distribution systems.

Product Scope

- Voltages up to 600V
- Conforms to ANSI, NEMA, UL, and IEEE standards
- Designs are rated 3 to 15 KVA 3 phase and 5 to 25 KVA 1 phase
- These transformers have non-ventilated enclosures and are rated NEMA 3R, can be installed indoors or outdoors without any changes to the enclosure
Transformers

Construction-Ventilated

Description

With GE's general purpose construction type of transformers, most common sizes and voltage ratings are immediately available from stock. The complete family of GE transformers provide quiet reliable long lasting operation. Since no vaults are required for installation, these transformers can be located near the load to provide the correct voltage.

Features and Benefits

- The standard unit is designed for 150 degree C rise on a UL approved 220 degree C insulation system.
- Variations of the designs in this product family allow for special applications to be achieved.
- See above for special applications available with this construction.
- Designs rated 75 KVA and below can be either wall or floor mounted. With the addition of a weather shield, the standard drip-proof enclosure can be converted to an outdoor NEMA 3R.
- Accessories such as weather shield kits, wall mounting brackets, vent guards and lug kits are available for many designs within this product family. (contacts, inal touch proof)

Applications

- For supplying appliance, lighting and power loads from electrical distribution systems.
- Special application variations
  - Low temperature rise
  - Low noise designs
  - K factor designs
  - Totally enclosed non ventilated designs
  - Power conditioning
  - Drive Isolation

Product Scope

- Voltages up to 600V
- Conforms to ANSI, NEMA, UL, and IEEE standards
- Type "QL" transformers are air cooled, ventilated designs that are rated 15 to 1000 KVA in 3 phase and 25 to 167 KVA 1 phase.
Transformers

Current, Indoor and Outdoor

Description

We manufacture an extensive range of indoor current transformers for metering and relaying applications. All of our current transformers have a 105°C or higher insulation system and most models are UL recognized.

New GE Clearwater Specifications ... Click here for list

Instrument Transformer Inc.
1907 Calumet Street
Clearwater, FL 33765
Phones: (727) 298-2000
FAX: (727) 298-2087

Applications

- 600V Indoor Commercial Grade Toroid
- 600V Indoor Commercial Grade Bar
- 600V Indoor Instrument Grade Toroid
- 600V Indoor Rectangular Window
- 600V Indoor Three Phase
- 600V Indoor Multi-Ratio Toroid
- 600V Indoor Split Core
- 600V Indoor Wound Primary/Auxiliary
- 5kV - 34.5kV Class Indoor
- 600V - 15kV Class Indoor; Butyl Rubber Construction
- 600V - 69kV Class Outdoor; Butyl Rubber Construction

Product Scope

- Voltage Class: 600 V to 34.5 kV
- BIL Ratings: 10 to 200 kV
- Primary Currents: 1 to 40,000 amps
Transformers
Voltage, Indoor and Outdoor

Description

We produce a wide variety of indoor voltage transformers for metering. All of our voltage transformers are encapsulated in a polyurethane resin and are UL recognized.

New GE Clearwater Specifications ... Click here for list

Instrument Transformers, Inc.
1907 Calumet Street
Clearwater, FL 33765
Phones: (727) 298-2000
FAX: (727) 298-2087

Applications

- 600V Class Indoor
- 5kV - 34.5kV Class Indoor
- 120V - 69kV Class Outdoor

Product Scope

- Voltage Class: 600 V to 34.5 kV
- BIL Ratings: 10 to 200 kV
- Thermal Ratings: 40 to 1500 VA
Transformers

OEM-Cased-QB

Description

Designed to meet the needs of Original Equipment Manufacturers, the Type "QB" cased transformer provide a high quality component for use in their product. Most common KVA's and voltage ratings are stock at the National Distribution Center at Mascot, Tennessee.

Features and Benefits

- These are epoxy encapsulated designs whose insulation class ranges from 105 to 180 degree C with coil winding temperature rise ranging from 55 to 115 degree C.
- The enclosure provides a roomy wiring compartment at its lower level. The enclosure has knockouts on 4 of 5 surfaces making for very easy access and installation.
- This product offering is very versatile. Besides supporting general purpose isolation applications, there are designs available for autotransformer and Buck-Boost applications.

Applications

- Designed for machine tool, industrial control, panel board and general purpose applications

Product Scope

- Conforms to NEMA ST20 and is UL listed and Cul for Canadian standards.
- This product is packaged in an indoor / outdoor NEMA 3R enclosure designed for wall mount application. It is available in sizes from 25 VA to 3000 VA in a broad array of voltage combinations.
- CE rated designs are also available in the enclosed product offering. The available ratings are 25 VA to 1500 VA with European input voltages rated for 50 Hz.
Transformers

OEM-Open Core-IP

Description

Designed to meet the needs of Original Equipment Manufacturers, the Type "IP" open core and coil transformer provide a high quality component for use in their product. Most common KVA’s and voltage ratings are stock at the National Distribution Center at Mascot, Tennessee.

Features and Benefits

- Epoxy encapsulated coil makes it impervious to the elements eliminating the opportunity for broken conductor or insulation
- Several types of terminations are available to simplify installation. These include primary and secondary leads out, integral fuse block assemblies and the standard terminal block finished into the epoxy.
- Options available include single, dual and triple fuse holders, terminal links and terminal board covers (makes terminal touch proof)

Applications

- Designed for machine tool, industrial control, panel board and general purpose applications

Product Scope

- Conforms to NEMA ST20 and is UL listed and CUL for Canadian standards
- Product offering available in sizes 25VA to 3000 VA and offering a broad range of voltage combinations
- CE rated designs that satisfy European Norm EN 60742 are available in ratings 25 VA to 1500 VA. These are provided with input voltages that match what is available in Europe.
Transformers
Ventilated Dry-Type

Description

GE ventilated dry-type transformers are designed for indoor or outdoor applications in schools, hospitals, industrial plants, commercial buildings and anywhere that safe and dependable power are important considerations.

Features and Benefits

- **Standard Ratings**: Full range from 500 to 10,000KVA.
- Primary voltage from 2.4 to 35kV
- Round or rectangular, multi-conductor barrel or sheet conductor windings.
- Mitered and step-lap construction cores.
- Full capacity taps on high voltage windings to provide means for variations for incoming voltage.
- 220C insulation systems that provide fire resistant, high dielectric capability.
- Lowest first-cost industrial transformer technology available.
- Low total ownership costs.
- Weighs less then other transformer technologies of similar ratings.
- Indoor installations do not require a liquid confinement area, automatic fire extinguishing system or fire vault which may be associated with liquid-filled transformers.
Transformers

WaveCast 724 Cast Coil

Description

Proven technology, application flexibility, lower installation cost, operating efficiency and environmental acceptability are hallmarks of the new GE WaveCast 724™ Cast Coil Transformer. WaveCast 724’s are designed for indoor or outdoor applications in the most demanding and diverse environments. Advanced design of the winding assembly establishes superior performance to meet exacting customer needs.

Features and Benefits

- **Mechanical strength**: Because of the strong protection provided by the vacuum cast epoxy insulated coils GE WaveCast 724 Transformers are mechanically stronger than either liquid or ventilated dry type transformers.
- **Impervious to adverse atmospheric conditions**: WaveCast 724 Transformers are optimal for application in low quality environments. The epoxy casting is extremely inert and renders the windings impervious to moisture, dirt and most corrosive elements.
- **Suitability for simple Indoor Installations**: Unlike the liquid filled transformers indoor installations do not require an automatic fire extinguishing system or fire vault, oil checking or replacing, or a liquid confinement area.
- **Extended ratings**: WaveCast 724 Transformers can be provided with the highest self-cooled and fan cooled extended ratings of any transformer in their size class.
- **Solid vacuum cast coils**: provide optimum performance over a wide range of ambient and operating temperatures.
- **High Voltage Windings**: are vacuum cast with high-strength and essentially void-free assembly capable of withstanding high electrical stress. Windings use Dupont Nomex® layer insulation.
- **Low Voltage Windings**: vacuum cast and hermetically sealed, windings use strip foil helical form and Dupont Nomex® layer insulation.
- **Cores**: utilize mitered step-lap technology ensuring optimal performance and minimal sound levels.
- **Enclosures**: indoor and outdoor construction. Options include aluminum and stainless Enclosures, NEMA 12, drip-proof roofs.

Applications

- Industrial
- Critical power solutions
- Pulp and paper mills
- Chemical plants
- Automotive industry
- Impact loading
- Mobile machinery
- Transit systems

Product Scope

- 300 to 5000 KVA ratings
- 2300 to 34.5Kv Primary Voltage
- Compliance to both ANSI /NEMA and IEC standards
- Vacuum cast high and low voltage windings
Transformers

Control Power

Description

Our wide range of control power transformers is designed to provide control power in medium voltage switchgear. Units are available in both single and three phase configurations with some models capable of vertical mounting to conserve space.

Features and Benefits

- Manufactured to meet the requirements of IEEE C57.12.01
- Primary windings are vacuum cast for high dielectric strength and ruggedness. Vacuum cast secondary coils are available in some models.
- Constructed with high quality grain-oriented core steel and copper conductor
- Units are partial discharge tested in accordance with Canadian Standard C9-M1981 (reaffirmed 1997)
- Standard voltages are 120/240 for single phase units and 208Y/120 for three phase units with other voltages available.

Product Scope

- Voltage Class: 5 to 34.5 kV
- BIL ratings: 60 to 150 kV
- Thermal Ratings: 0.5 to 150 kVA
GE three phase pad-mounted and single phase pole-mounted transformers are a safe and effective way to provide power distribution to residential, commercial, industrial, and institutional loads. GE COMPAD transformer distribution units are designed in neat, clean, and modern packages to meet your power distribution needs.

**Features and Benefits**

- GE Six-Sigma corporate wide quality initiative ensures quality design and manufacturing
- Superior insulation and sealing systems
- Transformers meet and exceed ANSI / IEEE test standards C57.12.00 and C57.12.90 and other international standards.
- Transformers have a sealed-tank oil-preservation system in which the interior is sealed from the atmosphere
- Competitive lead-time in the industry
- Flexibility to design to your economic models

**Applications**

- Industrial, Commercial, Institutional, Government Applications
- Small and Medium Commercial Fast Food & Strip Malls
- Large Retail Stores
- Wind Farm Turbine Step-Up

**Product Scope**

- **GE three phase padmount transformers** are rated from 75 kVA up to 5000 kVA with high voltages ranging from 2,400 up to 34,500 delta or wye. The low voltage ranges from 208Y/120 through 24,940Y/14,400. The available Temp Rise is 55/65°C or straight 65°C.
- **GE single phase polemount transformers** are rated from 167 kVA up to 500 kVA with high voltages ranging from 2400 up to 34500 gnd wye. Low voltage of 600 Volts and below. The available Temp Rise is 55/65°C or straight 65°C.
Transformers
Commercial Pole-Mounted

Description
GE three phase pad-mounted and single phase pole-mounted transformers are a safe and effective way to provide power distribution to residential, commercial, industrial, and institutional loads. GE COMPAD transformer distribution units are designed in neat, clean, and modern packages to meet your power distribution needs.

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Applications
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- **GE single phase polemount transformers** are rated from 167 kVA up to 500 kVA with high voltages ranging from 2400 up to 34500 gnd wye. Low voltage of 600 Volts and below. The available Temp Rise is 55/65°C or straight 65°C.
Description

For customers with GE network protectors, please note that General Electric has sold its Network Protector Replacement Parts business to Electronic Technology Incorporated. For your convenience, network protector renewal parts may be ordered via the following Electronic Technology Incorporated distributors:

- **GE Support Services**
  Phone: (800) 331-0436
  Fax: (856) 802-4910
  [www.partsdirect.ge.com](http://www.partsdirect.ge.com)

- **ETI/Richards Manufacturing Company Sales**
  517 Lyons Avenue Irvington, NJ 07111
  Telephone - 973-371-1771 (x410 - Jeffrey Bier; x441 - Igor Belozersky; x450 - Douglas Craig)
  Facsimile - 973-371-4304; 973-371-9538

- Network Protector Replacement Parts manufactured by Electronic Technology Incorporated may be viewed at [WWW.ETI-NJ.COM](http://WWW.ETI-NJ.COM).
Transformers
Network, Vault and Subway

Description

GE Vaultmaster Network Transformers are constructed to provide the utmost economy, flexibility & reliability for network systems and meet stringent underground installation requirements. GE Network Transformers are specifically designed to supply power to the network bus and handle significant short-term overload. All across the country, cities rely on General Electric Network Transformers to bring good things to life.

Features and Benefits

- Long life
- Highly Reliable
- High Short-Circuit Strength
- Corrosive Resistant
- Positive Sealing Facilities
- Three cooling fluids to select from: Oil, R'TempTM, and Silicon
- Insulation System for Increased Loading Capability

Applications

- Government, Commercial and Institutional facilities
- Underground Networks
- Office Towers
- High Rise Apartment Buildings
- Skyscrapers

Product Scope

- Rated from 500 kVA up to 2,500 kVA
- High voltages ranging from 2.5 kV up to 34.5 kV
- Low voltage ranges from 208V through 5 kV
- Available Temp Rise is 55/65°C or 65°C
Transformers

Residential Pad-Mounted

Description

Continuing the legacy of building high-quality distribution transformers, GE/GE-Prolec offers a wide range of single phase outdoor residential, commercial, and industrial application oil-immersed distribution transformers. High-grade materials, combined with sophisticated engineering-design systems provide a transformer that will provide years of high-reliability service.

Features and Benefits

- GE Six-Sigma corporate wide quality initiative ensures quality design and manufacturing
- Superior insulation and sealing systems
- Transformers meet and exceed ANSI / IEEE test standards C57.12.00 and C57.12.90 and other international standards.
- Transformers have a sealed-tank oil-preservation system in which the interior is sealed from the atmosphere
- GE-Prolec offers knowledge based Engineering Design System
- GE-Prolec ISO 9001, Total Quality Management (TQM) ensure quality design and manufacture.
- GE-Prolec ISO-14000 insures an environmentally compliant facility
- Competitive lead-time in the industry
- State of the art tools such as FEA used for electromagnetic field analysis and structural analysis.
- Flexibility to design to your economic models

Applications

- Broad product scope: Interties, Autotransformers, Residential and Commercial Applications

Product Scope

- **GE-Prolec single phase padmount transformers** are rated from 10 to 167kVA in both loop and radial feed designs. All ratings are supported up to 34.5 kV, 200 kV BIL. Tank and cabinet are bolted together to form a tamper-resistant unit capable of withstanding climate exposure and safety.
- **GE-Prolec single phase polemount transformers** are rated from 5 to 100 kVA. All ratings are supported up to 34.5 kV, 200 kV BIL. Secondary voltages of 120/240, 277/480 Y, 240/480 are available. Designs for one and two HV bushings.
Transformers
Ventilated Dry-Type

Description

GE Type "QHV" distribution transformers are designed to step down incoming distribution voltages for direct utilization or further plant distribution. The construction of the GE distribution units is similar to that of the general purpose line.

Features and Benefits

- Factory NEMA 3R option is available
- Standard product offering is wound with Aluminum conductor. Copper is available as an alternative on many designs.
- Non standard voltage designs can be created to meet individual customers needs.

Applications

- Step Down Incoming Distribution Voltages

Product Scope

- Voltages up to 600V
- Confirms to ANSI and NEMA standards
- Single phase is offered in ratings 25 to 333 KVA.
- Three phase is offered in ratings 15 to 500 KVA
- Standard BIL levels of 30 and 60 can be increased on many ratings to 60 and 95 KV BIL.
## Transformers

<table>
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<tr>
<th>Product Type</th>
<th>Characteristics</th>
<th>Brand</th>
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<tr>
<td>Bushing Potential Device</td>
<td>KA-108</td>
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<tr>
<td>Control Power</td>
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<tr>
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<tr>
<td>Commercial Pad-Mounted</td>
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<td>up to 3.45kV</td>
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<td>Residential Pole-Mounted</td>
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<td>Construction-Ventilated</td>
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<tr>
<td>OEM-Cased-QB</td>
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<td>Liquid Filled</td>
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<tr>
<td>Ventilated Dry-Type</td>
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<tr>
<td>WaveCast 724 Cast Coil</td>
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</tbody>
</table>
- 185°C insulation system - 115°C average Temperature rise
- Copper /Aluminum windings
- Enclosures NEMA 1, 3R
- ANSI C57.12.91
- IEC 726
- UL Pending
- NEMA ST 20
- Special Design for specific Customer applications
- Easy Coordination to GE Equipment
Description

The GE sales force covers the US market, AXA covers Mexico. The international market is strategically covered by taking advantage of Prolec's and GE's experience and presence in each individual market. Through these organizations, GE-PROLEC has the unequaled ability to serve utility, contractor, industrial and international markets for large transformers.

Features and Benefits

- ISO 9000 Facility
- GE-Prolec ISO-14000 insures an environmentally compliant facility
- Competitive lead-time in the industry
- State of the art tools such as FEA used for electromagnetic field analysis and structural analysis.
- Flexibility to design to your economic models
- Both resistive type and reactive vacuum load tap changers

Product Scope

- Designs from 5 (self-cooled) to 500MVA (top rated) with primary voltages up through 500kV and 1550kV BIL.
- Designs can accommodate both LV and HV on-load tap changers.
- Transformers built for step-down, step-up, single phase, autotransformers, reactors, and auxiliary applications.