Medium voltage
ANSI air-insulated switchgear
## Portfolio at a glance

<table>
<thead>
<tr>
<th>Product name</th>
<th>Voltage class (kV)</th>
<th>Maximum main bus (A)</th>
<th>Short circuit (kA)</th>
<th>Arc-resistant</th>
<th>Dimensions (in) W x H x D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advance</td>
<td>5</td>
<td>x</td>
<td>25, 31.5, 40, 50</td>
<td>N/A</td>
<td>36 x 95 x (85 or 92)</td>
</tr>
<tr>
<td>Advance 27</td>
<td>15</td>
<td>x</td>
<td>16, 25</td>
<td>N/A</td>
<td>36 x 95 x 27</td>
</tr>
<tr>
<td>ReliaGear ND</td>
<td>27</td>
<td>x</td>
<td>2000</td>
<td>N/A</td>
<td>26 x 104 x 77 for 1-H</td>
</tr>
<tr>
<td>SafeGear</td>
<td>27</td>
<td>x</td>
<td>2000</td>
<td>N/A</td>
<td>26 x 104 x 85 for 2-H</td>
</tr>
<tr>
<td>SafeGear HD</td>
<td>27</td>
<td>x</td>
<td>4000*</td>
<td>2, 2B, 2BC</td>
<td>36 x 129.5 x (85 or 92)**</td>
</tr>
</tbody>
</table>

*4000 A rating is forced-air cooled
**Heights include plenum and vent box with handle in closed position

<table>
<thead>
<tr>
<th>Feature</th>
<th>Advance</th>
<th>Advance 27</th>
<th>ReliaGear ND</th>
<th>SafeGear</th>
<th>SafeGear HD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum voltage – 15 kV</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Maximum voltage – 28.5 kV</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Maximum short circuit – 50 kA</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Maximum short circuit – 63 kA</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>UL Labeled</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>CSA Certified</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Arc-resistant Type 2, 2B</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Arc-resistant Type 2C, 2BC</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Reduced width</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>AMVAC Breaker</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ADVAC Breaker</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Vmax/A breaker</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Outdoor non-walk-in</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Outdoor sheltered aisle</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>PDC (Power Distribution Center)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>SmartRack capability</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
Advance® metal-clad
ANSI 5, 8.25, 15 and 27 kV switchgear

Advance® is ABB’s ANSI platform for 5, 15, 27 kV rated metal-clad switchgear featuring a narrow footprint and designed and tested per IEEE C37.20.2. Featuring galvanized steel construction, hem bending techniques, and Delrin arc-quenching contacts, Advance is designed with safety, reliability, and durability in mind.

Product highlights
- Fully compliant to IEEE C37.20.2-1999 for metal-clad switchgear construction
- Closed door PT and CPT racking
- Standard 36-inch wide, 85 or 92-inch deep, 95-inch tall frame
- SmartRack™ remote racking system for breakers, PT and CPTs
- UL label available
- Automatic secondary disconnects
- Large Lexan window for viewing breaker status and position
- Available two-high construction
- Available top and bottom cable or bus duct entry
- ISO 9001 certified manufacturing facilities

Available configuration/competitive footprint
Advance features the most competitive footprint in the market with available two-high configurations. Each switchgear frame measures 36 inches wide, 85 or 92 inches deep and 95 inches tall regardless of one or two-high. Each frame includes a separate isolated low voltage compartment that separates relays, meters and other instruments, protecting maintenance personnel from exposure to high voltage.

Delrin arc-quenching contacts
For PT and CPT contacts, ABB uses Delrin arc-quenching contacts. A sleeve with a round conductor probe is inserted into a receptacle with recessed contacts. Due to the unique properties of Delrin, arcs created during load break conditions are extinguished by a gas emitted by the Delrin material as it heats. The recessed contact design also eliminates the need for safety shutters as the use of Delrin materials creates a safe-touch design.

Galvanized steel construction
ABB Advance is built using galvanized steel construction for increased protection from rust, scratches and corrosion. Galvanized steel is used inside low voltage compartments for its increased illumination properties for better instrument viewing.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Unit</th>
<th>Rated Maximum Voltage Level</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5 kV</td>
<td>8.25 kV</td>
</tr>
<tr>
<td>Rated nominal voltages</td>
<td>kV</td>
<td>2.4, 4.16, 4.8</td>
</tr>
<tr>
<td>Main bus continuous current</td>
<td>A</td>
<td>1200, 2000, 3000, 4000**</td>
</tr>
<tr>
<td>Short circuit current (rms)</td>
<td>kA</td>
<td>25, 31.5, 40, 50</td>
</tr>
<tr>
<td>Rated frequency</td>
<td>Hz</td>
<td>50, 60</td>
</tr>
<tr>
<td>Low frequency withstand (rms)</td>
<td>kV</td>
<td>19</td>
</tr>
<tr>
<td>Impulse level (BIL, crest)</td>
<td>kV</td>
<td>60</td>
</tr>
</tbody>
</table>

Ratings given are for service conditions within temperature and altitude limitations as defined by the IEEE C37.20.2-1999 metal-clad standard.
**4000 A Ratings are achieved through forced air cooling.
*** Contact factory if this rating is required.
Hem bending
Hem bends, being the process of folding a single sheet of steel over upon itself, are used throughout construction of Advance. This construction technique also protects maintenance personnel and any LV wiring inside the switchgear as it eliminates sharp edges and burs in the metal work.

Advance accessories
- Racking crank
- Test cabinet and test jumper
- SmartRack electric racking device
- Lift truck
- Breaker ramp
- Manually and electrically operated G&Ts

Advance options
- IR viewing ports
- Lightning arresters
- Cable supports
- Ground studs

AMVAC breaker
The AMVAC breaker has unique technologies that decrease maintenance requirements while increasing reliability and personnel safety. The actuator in the AMVAC breaker requires no maintenance as it is only one moving part that requires no lubrication or adjustment. Magnetic actuation technology eliminates the cause of failure of traditional close and trip coils as it delivers a current limited pulse, as opposed to holding the current on the coils. Because of this unique design, the AMVAC also draws less than 100W during charging and less than 10W at rest. The AMVAC breaker comes with a 5-year warranty.

Instrument transformers
Advance switchgear is available using SAB-1, SAB-1D, SAB 2 and SAB-2D CTs. Up to four SAB-1 and SAB-2 CTs can be fitted per phase. Higher accuracy SAB-1D and SAB-2D CTs are limited to two CTs per phase. SAB-2 and SAB-2D current transformers are used for 3000A breakers and exclusively in the Advance 27 platform.

For 5 kV applications, Advance switchgear utilizes ABB VIY-60 potential transformers (PTs). For 15 kV applications, Advance uses ABB VIZ-11 and VIZ-75 PTs. For 27kV applications, ABB Viz-12 and Viz-12G potential transformers are used. All PTs are available in wye-wye, open delta, line to line, and line to ground configurations.

ABB Inc.
Medium Voltage Switchgear
655 Century Point
Lake Mary, Florida 32746
Phone: +1 407 732 2000
Customer service: +1 800 929 7947 ext. 5
E-Mail: customer.service.group@us.abb.com

ABB Inc.
Medium Voltage Service
2300 Mechanicsville Road
Florence, South Carolina 29501
Phone: +1 800 HELP 365 (option 7)
+1 407 732 2000

www.abb.com/mediumvoltage
www.abb.us/mvservice

The information contained in this document is for general information purposes only. While ABB strives to keep the information up to date and correct, it makes no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the information, products, services, or related graphics contained in the document for any purpose. Any reliance placed on such information is therefore strictly at your own risk. ABB reserves the right to discontinue any product or service at any time.
ReliaGear® ND is a new IEEE C37.20.2-1999 compliant, 5 and 15 kV metal-clad switchgear platform featuring a narrow width, two-high breaker configurations and the compact, easy to maintain Vmax/A Breaker. Measuring in at 26 inches wide, 98 inches tall and 77 inches deep one-high or 85 inches two-high, ReliaGear ND is a compact solution for new installation space savings or meeting existing installation space constraints. Utilizing the ABB Vmax/A™ breaker, maintenance and repair costs are greatly reduced due to its modular design and quick change trip and close coil and charge motor design.

Product highlights
ReliaGear ND’s compact, space saving design efficiently uses space while still providing the following benefits:
- Reduced 26-inch frame width for both 5 kV and 15 kV switchgear
- Minimal depth of 77 inches for one-high and 85 inches for two-high construction for 5 and 15 kV
- Low voltage instrumentation mounting space available on breaker doors to efficiently use mounting locations even with a small footprint
- Options for surge arresters and zero sequence CTs
- Available for top and/or bottom cable and bus duct entry
- Reduced shipping splits due to decreased frame weight and size saves on-site commissioning time
- Viewing window for verification of breaker/PT/CPT truck and position
- UL certified

Ratings of ReliaGear ND

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Unit</th>
<th>5 kV</th>
<th>15 kV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated nominal voltages</td>
<td>kV</td>
<td>2.4, 4.16, 4.8</td>
<td>6.9, 7.2, 8.4, 11, 12, 12.47, 13.2, 13.8, 14.4</td>
</tr>
<tr>
<td>Main bus continuous current</td>
<td>A</td>
<td>1200, 2000</td>
<td>1200, 2000</td>
</tr>
<tr>
<td>Short circuit current (rms)</td>
<td>kA</td>
<td>25, 31.5</td>
<td>25, 31.5</td>
</tr>
<tr>
<td>Rated frequency</td>
<td>Hz</td>
<td>50, 60</td>
<td>50, 60</td>
</tr>
<tr>
<td>Low frequency withstand (rms)</td>
<td>kV</td>
<td>19</td>
<td>36</td>
</tr>
<tr>
<td>Impulse level (BIL, crest)</td>
<td>kV</td>
<td>60</td>
<td>95</td>
</tr>
</tbody>
</table>

* Ratings given are for service conditions within temperature and altitude limitations as defined by IEEE C37.20.2-1999 metal-clad standard.
ReliaGear ND accessories
- Breaker lift truck
- Mechanically operated Ground & Test Device
- Test cabinet
- Test jumper
- Primary and secondary potential transformer fuses
- SmartRack™ remote racking device
- REA arc protection relay system

Vmax/A breaker
Compliant with IEEE C37.04, C37.06, and C37.09, the Vmax/A is a reliable, lightweight, and flexible breaker used in the ReliaGear ND platform. The Vmax/A breaker features a modular, easy to maintain design with only a single screw to remove the smart coil assembly and spring charged motor. Using this design, maintenance time on breakers is greatly reduced - lowering maintenance costs and limiting employees’ exposure to the switchgear and thus, improving safety.

Current transformers
ReliaGear ND is designed and tested for use with the ABB SCH-3U current transformers (CT). These CTs are used for voltage ratings of 5 kV and 15 kV and meet the ANSI standard for these ratings. Each breaker can accommodate up to two load side and one bus side CT for a total possible three CTs per phase.

5 kV potential transformers
For 5 kV applications, ReliaGear ND is designed and tested for use with the ABB VIY-60 indoor potential transformers. The VIY-60 indoor potential transformers are fused and are used for metering or relaying applications.

15 kV potential transformers
For 15 kV applications, ReliaGear ND is designed and tested for use with ABB VIZ-75, VIZ-11, and TJC5 indoor potential transformers (PT). All PTs are fused and can be used for metering and relaying applications. PTs are mounted on draw-out trays that are available in both single-phase and three-phase configurations including wye-wye, open delta, line-line, and line-ground connections.
SafeGear®
Medium voltage arc-resistant switchgear

**Arc-resistant, metal-clad SafeGear® insures optimum safety and operational reliability**

- Arc-resistant switchgear offers protection from objects or hot gases that might be ejected during an arc fault
- Vents and flaps are located on top of the enclosure to release the pressure into the plenum. This significantly reduces operator risk during maintenance and operation of the equipment
- SafeGear's level of arc resistance helps protect workers from the catastrophic effects of an internal arc fault, and also helps protect nearby equipment from collateral damage
- More than 30 years experience in arc-resistant switchgear
- First manufacturer of two-high arc resistant switchgear; the ABB design allows for flexibility in configurations and promotes superior safety performance
- Small arc-resistant footprint allows ABB switchgear to fit into tighter spaces
- Large arc-resistant viewing window allows the operator to check position and status of circuit breaker without opening the cell door
- Available in ratings up to 15 kV, 3,000 Amps, 50 KAIC

**Types of arc-resistant gear**
- **Type 2**: provides arch flash protection in front, sides, and rear of switchgear line-up
- **Type 2B**: provides arc flash protection as Type 2 plus isolates the LV compartment when the door is open
- **Type 2C**: provides arc flash protection as Type 2 plus compartment to compartment protection

**Additional features and options**
- Closed door racking
- Remote breaker racking
- Automatic secondary disconnects
- IS Limiter
- VisiVolt voltage indicator
- REA Relay:
  - Reduce incident energy by up to 80%
  - Helps meet OSHA, IEEE, NFPA & NEC standards
  - Can reduce Personal Protective Equipment (PPE) requirements for easier maintenance
  - Can be used with any manufacturer's relays and requires no re-programming or setting changes
  - Infrared viewing ports

### Characteristic Table

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Unit</th>
<th>Rated Maximum Voltage Level</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>5 kV</td>
</tr>
<tr>
<td>Rated nominal voltages</td>
<td>kV</td>
<td>2.4, 4.16, 4.8</td>
</tr>
<tr>
<td>Main bus continuous current</td>
<td>A</td>
<td>1200, 2000, 3000, 4000**</td>
</tr>
<tr>
<td>Short circuit current (rms)</td>
<td>kA</td>
<td>25, 31.5, 40, 50</td>
</tr>
<tr>
<td>Rated frequency</td>
<td>Hz</td>
<td>50, 60</td>
</tr>
<tr>
<td>Low Frequency Withstand (rms)</td>
<td>kV</td>
<td>19</td>
</tr>
<tr>
<td>Impulse level (BL., crest)</td>
<td>kV</td>
<td>60</td>
</tr>
</tbody>
</table>

* Ratings given are for service conditions within temperature and altitude limitations as defined by IEEE C37.20.2-1999 metal-clad standard.
** 4000 A is forced-air cooled.
Instrument transformers

Current transformers
SafeGear is designed and tested for use with the ABB SAB-1/1D current transformers for 1200 and 2000 A applications, and the SAB-2/2D current transformers for 3000 A and 4000 A applications. These CTs are used for voltage ratings of 5, 7.5 and 15 kV and are located on the breaker primary bushings.

15 kV voltage transformers
For 8.25 – 15kV applications, SafeGear is designed and tested for use with the ABB VIZ Indoor Voltage Transformers. The VIZ-75 and VIZ-11 indoor voltage transformers are fused and are used for metering or relaying applications. Both units are available in single, double and tapped secondary designs with two accuracy and thermal rating options.

Arc Flash Accidents

25%
Without operator

10%
With operator in front of a closed door

65%
With operator working in the switchgear

ABB Inc.
655 Century Point
Lake Mary, FL 32746
Phone: +1 407 732 2000
Customer service: +1 800 929 7947 ext. 5
+1 407 732 2000 ext. 2510
E-Mail: customer.service.group@us.abb.com

The information contained in this document is for general information purposes only. While ABB strives to keep the information up to date and correct, it makes no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the information, products, services, or related graphics contained in the document for any purpose. Any reliance placed on such information is therefore strictly at your own risk. ABB reserves the right to discontinue any product or service at any time.

© Copyright 2015 ABB. All rights reserved.
SafeGear HD® is ABB’s newest ANSI platform for arc-resistant switchgear. It features a 0.5 second 63 kA arc withstand time for increased safety considerations in medium voltage switchgear, Type 2B accessibility per IEEE C37.20.7, a small footprint, two high configuration, and a 3-way vent flap system to ensure safety of personnel working on or around the gear. SafeGear HD is also seismic-certified to IBC Seismic Region D.

Product highlights
- Fully compliant to ANSI C37.20.2-1999 for switchgear construction and IEEE C37.20.7-2007 for arc-resistant testing at 0.5s arcing time withstand
- Type 2B accessibility rating
- All bus primary insulation is high strength epoxy
- ADVAC 63 kA breaker fault clearing duty time is max 50ms (3-cycle)
- Closed door PT and CPT fuse drawout racking
- Available SmartRack remote racking system, capable of racking not only the breaker but also the PT and CPT fuse drawout units
- UL and CSA certified
- Multi-point front door latch with single easy to use padlockable handle
- Dual secondary disconnect plugs operate without opening the front door
- Externally flanged plenum design for ease of installation
- Foot operated hydraulic lift truck
- Designed to be used with the ABB drawout I_Limiter for ratings exceeding 63 kA

Features

Arc-flash venting
ABB has developed a new 3-way spring-loaded vent flap system for SafeGear HD that vents through the center of the switchgear and does not require additional space for side mounted venting chimneys. ABB vents through 57” chimneys, straight to the plenum, and out of the building to a safe distance.

Small footprint
Similar to its SafeGear platform, the SafeGear HD platform is among the smallest footprints in the industry with a standard 36” frame and 5/15 kV. SafeGear HD with plenum requires only a distance of 129.5” minimum, floor to ceiling, for clearance of the vent box handle. This allows for lower PDC heights, which is a direct cost saving.

<table>
<thead>
<tr>
<th>Voltage class</th>
<th>FLC (Amps)</th>
<th>Isc (kA)</th>
<th>BIL (kV)</th>
<th>Hi-pot (kV, rms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/15 kV</td>
<td>1200 A</td>
<td>50/63</td>
<td>95</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>2000 A</td>
<td>50/63</td>
<td>95</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>3000 A</td>
<td>50/63</td>
<td>95</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>4000 A*</td>
<td>50/63</td>
<td>95</td>
<td>36</td>
</tr>
</tbody>
</table>

* Forced air cooled
63 kA ADVAC breaker

The ADVAC series is a complete line of ANSI-rated vacuum circuit breakers offering power distribution system customers the advantages of the latest technology that reduces ownership costs through improved reliability and maintainability. Maintainability costs are further reduced due to ABB vacuum interrupter and contact design that wears less than 1 mm during the lifetime of the breaker.

Instrument transformers

Current transformers

SafeGear HD is designed and tested for use with the ABB SAB-1/1D current transformers for 1200 and 2000 A applications, and the SAB-2/2D current transformers for 3000 A and 4000 A applications. These CTs are used for voltage ratings of 5, 7.5 and 15 kV and are located on the breaker primary bushings.

15 kV voltage transformers

For 8.25 – 15kV applications, SafeGear HD is designed and tested for use with the ABB VIZ Indoor Voltage Transformers. The VIZ-75 and VIZ-11 indoor voltage transformers are fused and are used for metering or relaying applications. Both units are available in single, double and tapped secondary designs with two accuracy and thermal rating options.

5 kV voltage transformers

For 5kV applications, SafeGear HD is designed and tested for use with the ABB VIY-60 Indoor Voltage Transformers.
ABB’s Relion® family of protection and control relays for distribution applications provides the performance, safety, and ease-of-use that switchgear specifiers and users demand. The Relion 615 and 620 series offer complete protection and control for feeders, motors, and transformers in switchgear applications and are characterized by their flexibility and performance in today’s and future distribution schemes.

The IEC61850 implementation in Relion includes fast peer-to-peer communication over the substation bus. GOOSE communication is used between Relion devices in switchgear to form a stable, reliable, and high-speed bus bar protection system, provide fast and dependable auto transfer schemes and zone interlocking. Separate hard-wiring is not needed for the horizontal communication between the switchgear cubicles.

Relion relays for feeder protection offer an optional cable fault detection function that can detect extremely short duration underground faults. These faults are typically undetectable by conventional protection where there is no operation of the breaker. This feature helps users to learn of these events faster, resulting in reduced down time.

ABB’s COM600 Grid Automation Controller can be used as a local HMI to display switchgear single line diagrams and the status of devices such as breakers and protection relays. COM600 also provides gateway functionality to enable switchgear integration into SCADA systems. It can be easily installed as part of the switchgear control devices.

Relion 615R, 615 and 620 series relays include:
- Comprehensive set of protection and metering functions for feeders, transformers, and motors
- Draw-out design
- Integrated Open/Close push buttons and Local/Remote selector with indicating lights
- Protection and control for one and two breakers as well as breaker-and-a-half schemes
- Enhanced safety with optional arc fault protection in all 615 and 620 series relays
- Web browser based user interface accessible through an RJ45 front port
- Trip coil monitoring
- Monitoring of breaker health parameters such as travel time, number of operations, wear and tear, and spring charging time
- DNP3 and Modbus protocols included standard in all relays
- Relion relays are fully IEC61850 compliant for communication and interoperability of substation automation devices
- Fully ANSI and RoHS compliant as well as UL listed

Relion 615 series

Relion 620 series

COM600 Grid Automation Controller
The SmartRack™ electric remote racking device is designed to operate with the following devices.

<table>
<thead>
<tr>
<th>Breaker/Contactor</th>
<th>G&amp;T Device PT Unit</th>
<th>CPT Unit</th>
<th>CPT Fuse Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advance</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Advance 27</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>SafeGear</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>SafeGear HD</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ReliaGear ND</td>
<td>X</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>SafeGear MCC</td>
<td>X</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
ABB Inc.
Medium Voltage Switchgear
655 Century Point
Lake Mary, Florida 32746
Phone: +1 407 732 2000
Customer service: +1 800 929 7947 ext. 5
                     +1 407 732 2000 ext. 5
E-Mail: customer.service.group@us.abb.com

ABB Inc.
Medium Voltage Service
2300 Mechanicsville Road
Florence, South Carolina 29501
Phone: +1 800 HELP 365 (option 7)
       +1 843 665 4144

www.abb.com/mediumvoltage
www.abb.us/mvservice

The information contained in this document is for general information purposes only. While ABB strives to keep the information up to date and correct, it makes no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the information, products, services, or related graphics contained in the document for any purpose. Any reliance placed on such information is therefore strictly at your own risk. ABB reserves the right to discontinue any product or service at any time.

© Copyright 2015 ABB. All rights reserved.