ABB Components

Switchgear, Distribution Breakers and Reclosers
Meeting Customer Needs

As a winner of ABB’s prestigious Customer Focus Achievement Award and the Award of Excellence, the Components Group understands the importance of meeting customer needs. We know that when it comes to preserving the life of your switchgear and reducing maintenance costs, you can’t afford to take risks. Downtime is expensive and access to new high-quality authentic replacement components is essential. That’s why the Components Group is here to serve you.

- Our Component Sales Engineers have a combined experience of over 100 years in the engineering, manufacturing, assembly and testing of our products and equipment.
- We provide on-call component experts available 24 hours a day, 365 days a year.
- The Components Group is the only authorized outlet for genuine original ABB factory manufactured product components.
- Our parts are exact fit and manufactured to controlled prints and specifications.
- Our distribution center maintains an extensive stock of new switchgear and breaker components to meet your emergency needs, with same day shipments available on most parts.
- All component parts are newly manufactured and backed by a full one-year warranty.
- ABB’s extraordinary dedication to customer service and continuing product support means added value over the life of your products.

ABB Inc.
Power Technologies Medium Voltage Products (PTMV)
Circuit Breaker Technology Solutions (CBTS)

Customer Support
1-800-929-7947
PCD/VR3
Option 5 then Option 1
Switchgear
Option 5 then Option 2
Outdoor Breakers
Option 5 then Option 3

Components Marketing
Fax: (407) 732-2132

<table>
<thead>
<tr>
<th>Indoor Circuit Breakers &amp; Switchgear</th>
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<tbody>
<tr>
<td>Jim Hermann</td>
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<tr>
<td>407-732-2785</td>
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<td>Bill Cheatham</td>
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<td>407-732-2782</td>
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<tr>
<th>Outdoor Circuit Breakers &amp; Reclosers</th>
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<tr>
<td>Joe Burkholder</td>
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<tr>
<td>407-732-2779</td>
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<tr>
<td>Craig Maxson</td>
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<td>407-732-2781</td>
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<tr>
<td>Jimmy Mikles</td>
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<td>407-732-2126</td>
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Indoor Circuit Breakers & Switchgear:
- Yellow: Jim Hermann
- Red: John Layne
- Green: Jimmy Mikles

Outdoor Circuit Breakers & Reclosers:
- Blue: Bill Cheatham
- Blue: Craig Maxson
- Blue: Joe Burkholder
- Green: John Layne
- Green: Jimmy Mikles

(+ Int'l Orders)
Nuclear Experience

ABB Inc. has been committed to the production and nuclear qualification of low and medium voltage switchgear since 1968. In fact, over 65% of U.S. nuclear generating stations utilize ITE-ABB switchgear. To meet progressively more stringent industry requirements, ABB developed a substantial database for the class 1E capability of ITE-ABB switchgear and components. Historical data from years of test experience minimizes additional testing for seismic and environmental qualification of switchgear and component parts. However, our resources, experience, and demonstrated commitment extend even further.

- 30 years of experience serving the nuclear utility industry.
- Passed demanding audits from NUPIC & numerous nuclear utilities.
- Maintain a QA program that meets 10CFR50 appendix B.
- Maintain extensive report and reference libraries of test data, qualification reports, addenda covering equipment, environments, and components.
- Maintain drawings and data on original equipment such as customer specifications, equipment qualifications, general arrangements and bills of material.
- Select, certify and supply replacement components as nuclear safety related and qualified to the original equipment specifications.
- Dedication of commercial grade components for class 1E application per EPRI guidelines.
- Accept reporting responsibility per 10 CFR part 21.
- Retain a full-time nuclear standards and documentation staff, assuring compliance with all nuclear regulations.

Quality Assurance

The Components Group functions under the guidelines of DMS QA program, conforming to the requirements of: 10CFR50 Appendix B, ANSI N45.2, MIL-Q-9858A, MIL-I-45208A, ISO 9001-1987. The QA program also conforms to the requirements of ANSI/ASME NQA-1 and NQA-2 as applicable to the manufacture of electrical equipment.
Quality Through Customer Service

The Components Group understands the importance of superior customer service and the critical nature of unexpected emergencies. Consequently, we stock a variety of nuclear-certified and commercial grade components, available at any time; therefore, we offer 24-hour availability of a qualified nuclear parts specialist to respond immediately to these situations.

When you purchase from ABB, you receive the assurance that we’ll continue to provide for your after market needs long after your equipment has been energized. Our database provides details on equipment dating back more than forty years. Although the name has changed, we continue to provide expert assistance for your renewal parts needs.

ITE Circuit Breaker
1927 - 1968

ITE Imperial
1968 - 1976

Gould
1976 - 1979

Gould-Brown Boveri
1979 - 1980

Brown Boveri Electric
1980 - 1984

BBC Brown Boveri
1984 - 1988

ABB Power Distribution
1988 - 1993

ABB Power T&D Company
1993 - 2002

ABB Inc.
2002 - present
Product Lines

Circuit Breaker & Recloser Components:
- AMVAC
- ADVAC
- PR Recloser
- K-Line
- R-MAG Breakers
- R Breakers
- V Breakers
- HK
- ESV Recloser
- ES Recloser
- VR-3S Recloser
- VHK
- FBK
- ESVA Recloser
- K-Line Plus

Circuit Breaker Renewal Parts:
- Refurbishing Kits
- Individual Components
- Trip Devices

K-Line
The low voltage K-Line circuit breaker comes equipped with the state-of-the-art MPSC-2000 microprocessor trip device. Optional type OD and SS trips are also available.

HK
The HK air-magnetic circuit breaker, available in 5 kV, 7.5 kV and 15 kV ratings, has long been a leader in the medium voltage class.

Renewal Parts:
- Meters
- Relays
- Switches
- Transformers
- Bus Bar
- Bus Boots
- Bushings
- Insulators
- Fuses
- Switches
- Vacuum Bottles
- Capacitor Fuses
- VersaRupter
- VersaSwitch
- Arc Guard™

Modifications/Upgrades:
- Retrofits
- Mechanical Rebuilds
- Refurbishments
Retrofit Product Lines

VHK-X Circuit Breaker Elements

- Direct replacement vacuum breaker elements to replace existing HK and HKV type circuit breakers without modification to the switchgear.
- Latest technology, vacuum design extends the life of the switchgear.
- Less expensive than air-magnetic with lower maintenance costs.
- Low cost alternative to continually rebuilding breakers or replacing complete switchgear.
- Provides ability to increase interrupting ratings without modifying or replacing switchgear in most installations.

MPSC-2000 Retrofit Kits

- To retrofit K-line breakers originally equipped with OD, SS, MPS, or MPS-C type trip devices.
- One model provides maximum flexibility for selection and application.
- Uses state-of-the-art digital RMS solid-state trip system.
- Communications capability with Power RICH System.
- Includes MPSC-2000 trip device, magnetic latch, lower base molding with sensors, wiring harness, and instructions.

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www.abb.com/mediumvoltage