



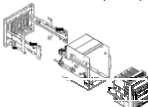
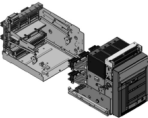


Electrification products component services North America offerings

Product	Description																																
 <p>Installation and Commissioning</p>	<p>ABB Services offers a large selection of installation and commissioning options for ABB electrification products' breakers. Packages from basic to advanced are available that cover everything from checking the correct functionality of all electrical and mechanical accessories to advanced trip unit set-up and education.</p>																																
<p>Extended Warranty Packages</p>	<p>ABB Extended Warranty Packages utilize Life Expectancy Analysis Program (LEAP) technology that recommends appropriate maintenance per individual application. Available in Bronze (1 year), Silver (2 year) and Gold (3 year) terms, the packages provide a 50% discount on all service parts during the term of the extended warranty period. Extended warranty requires routine maintenance to be completed per LEAP recommendations.</p>																																
 <p>Non-Warranty On-Site Service</p>	<p>Breaker evaluation, general maintenance and replacement of typical service parts are provided on-site. A quotation to complete on-site or at a factory service center will be provided.</p>																																
<p>Repair and Spare Parts Depot</p>	<p>ABB's EP Service Repair Depot services ABB circuit breakers and contactors, in addition to maintaining an inventory of spare and replacement parts. A recently launched exchange pool program for Emax breakers was initiated for customers in critical situations who need access to replacement breakers in a time critical situation.</p>																																
 <p>Maintenance Training</p>	<p>ABB's breaker training facility in Senatobia, Mississippi is ideal. Providing a state-of-the-art facility for hands-on experience, our factory features a fully-equipped classroom setting adjacent to the training lab, which includes fully-functional training circuit breakers.</p> <p>ABB also offers the convenience of on-site training courses to make the most of your training budget. Our experienced instructors will facilitate courses at your location and work with you to tailor the course to your particular needs.</p>																																
 <p>Hard Bus Retrofill (HBR)</p>	<p>The HBR completely removed the obsolete circuit breaker and replaced it with the new Emax circuit breaker. The kit contains custom designed and preconfigured busbars and covers to adapt the new circuit breaker to the existing busbars. Benefit: The time and effort of emptying the compartment and arranging it to fit the new cassette is offset by providing a modern, reliable and interchangeable solution.</p>																																
 <p>Cradle-in-Cradle (CiC)</p>	<p>Cradle-in-Cradle (CiC) – The fixed part of the new circuit breaker is suitably adapted and tested by ABB. This solution allows the new fixed part to be fitted inside the existing fixed part of the old circuit breaker. Benefit: This solution balances the need for a retrofill solution with reasonably limited site work and linked outage. Emax modules can be purchased and stocked as spares.</p>																																
 <p>Direct Roll-in Replacements (DRR)</p>	<p>Direct Roll-in Replacement (DRR) – This is a faster customer solution. The moving part of the old circuit breaker is removed. The moving part of the new circuit breaker is suitably modified and tested in ABB for insertion into the existing fixed part. This results in a very short plant shutdown for the installation. Benefit: Latest standards compliance is one of the key elements when designing and testing replacement breakers. This methodology allows the exchange of the original device without the extended downtime required for the switchgear replacement. Higher performances and additional features can also be targets.</p>																																
<p>Matrix of Available (CiC), (RIR) and (HBR's)</p>	<table border="1"> <thead> <tr> <th>Current breaker brand</th> <th>Cradle-in-cradle</th> <th>Roll-in replacement</th> <th>Hard bus retrofill kit</th> </tr> </thead> <tbody> <tr> <td>ITE</td> <td>x</td> <td>x</td> <td>x</td> </tr> <tr> <td>BBC</td> <td>x</td> <td>x</td> <td>x</td> </tr> <tr> <td>Federal Pacific</td> <td>x</td> <td></td> <td>x</td> </tr> <tr> <td>GE</td> <td>x</td> <td></td> <td>x</td> </tr> <tr> <td>Alis Chalmers</td> <td>x</td> <td></td> <td>x</td> </tr> <tr> <td>Obsolete ABB</td> <td></td> <td></td> <td>x</td> </tr> <tr> <td>All other manufacturers</td> <td></td> <td></td> <td>x</td> </tr> </tbody> </table> <p>Note: Standard lead time is 12 weeks.</p>	Current breaker brand	Cradle-in-cradle	Roll-in replacement	Hard bus retrofill kit	ITE	x	x	x	BBC	x	x	x	Federal Pacific	x		x	GE	x		x	Alis Chalmers	x		x	Obsolete ABB			x	All other manufacturers			x
Current breaker brand	Cradle-in-cradle	Roll-in replacement	Hard bus retrofill kit																														
ITE	x	x	x																														
BBC	x	x	x																														
Federal Pacific	x		x																														
GE	x		x																														
Alis Chalmers	x		x																														
Obsolete ABB			x																														
All other manufacturers			x																														

List of available retrofit kits

For a complete list of available extensions, upgrades, and retrofits, please visit our website at:

<http://new.abb.com/low-voltage/service/service-breakers-switches/extension-upgrades-and-retrofits>
or contact your local ABB sales representative.

Contact us

ABB

Electrification Products
8155 T&B Boulevard
Memphis, TN 38125
www.abb.us/lowvoltage

USA Technical Support: 888-385-1221
Customer Service: 888-862-3290
7:00 a.m. – 5:30 p.m., CST, Monday – Friday
lvps.support@us.abb.com

Note:

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 © 2016 ABB
All rights reserved