GEA18416 Fact sheet

Replacement for Power Break* I Circuit Breaker

Background

ABB discontinued manufacturing of the Power Break I (PB1) circuit breaker in 2008, and the remaining inventories of these breakers have now been depleted. Fortunately, ABB's next generation of circuit breakers, Power Break II* (PB2), provided a useful platform for developing a retrofill kit for the now obsolete PB1 models. Since the PB2 breakers are not drop-in replacements for their PB1 counterparts, ABB has developed an engineered retrofill solution that will serve the needs of end users with both fixed-mounted and draw-out versions of the PB1 breakers.

Description

In response to customer requests, ABB is pleased to introduce an engineered solution for the complete retrofill of both draw-out and fixed mounted PB1 circuit breakers that is effective and minimizes related customer down time. Our offering includes application and design engineering services, state of the art equipment with UL and cUL certification, and field engineering support of the installation work.

ABB's service center in Rotterdam, NY has been established as the Center of Excellence (COE) for this offering. It is essential for this team to capture, retain, and employ best practices that are specific to PB1 breakers. The COE designation specifies that our technicians and engineers at this facility have been fully trained to provide customers with both the PB1 retrofill solution service and any necessary technical support that can deliver a successful upgrade consistent with ABB's high quality standards. Lastly, we punctuate our commitment to quality by maintaining UL and cUL certification for the related work performed at our Rotterdam facility.

Major process steps involvedin the retrofill solution include:

1. Survey A request form is completed to ensure that all the information required for the retrofill is collected from the contact customer, and a decision on feasibility is made in advance.
2. Conversion of PB2 breakers to fit into a PB1 cell may include:
   - Retrofit primary stab design
   - Retrofit primary disconnects
   - Retrofit secondary disconnects
   - Retrofit programmer disconnect for new Entelliguard* Trip Unit
   - Retrofit side sheets
   - Retrofit rejection system
   - Upgrade to add PB2 features
3. Trained field engineer to retrofit the breaker at the ABB facility and install at the customer's site.

For more information, contact your local ABB office.
†Reference tech manual: Power Break II Insulated Case Circuit Breakers (GET8052).

ABB Advantage/Benefits to the Customer

This offering will enable customers to retrofill their existing PB1 circuit breakers with PB2 models that have upgraded features and functions.

ABB's solution provides:

- OEM knowledge and familiarity with the Power Break products
- Minimal downtime for retrofill work to be completed
- UL and CSA Listed product

Features

Power Break II circuit breakers are UL and CSA Listed, and IEC Certified.†

Key product features of PB2 circuit breakers include:



1. Compact, lightweight design
2. Optional mechanical counter
3. Padlock device standard
4. Easy to reach ON/OFF buttons
5. Choice of trip units - field upgradeable to EntelliGuard* trip unit, UL and CSA Listed, and IEC 947-2 Certified†
6. Padlockable door provides added security
7. Drop-in shunt trip, undervoltage release, and bell alarm (with and without manual lockout) modules
8. Flush mounted pump handle

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