ABB is the world’s leading supplier of generator circuit breakers. A complete range of powerful, reliable and cost saving maintenance services are offered on generator circuit breakers for all types of power plants. ABB High Current Systems Services continuously improves its assessment methods used to evaluate the condition of the circuit breaker. The product allows a cost effective Earthing Switch retrofit to ensure the highest possible safety requirements for existing applications.

Background
HGC 3 Generator Circuit Breakers were manufactured from 1998 until 2010 in the ABB factory in Zurich, Switzerland.

At that time, the circuit breakers could also be ordered without earthing switches, which are nowadays incorporated due to safety reasons.

If the earthing switches were not equipped during factory assembly, new costly enclosures would be necessary, as the mounting slots require the highest precision.

Solution
ABB has developed a simple, cost-saving solution to retrofit the already commissioned generator circuit-breakers without a large amount of time and effort.

We offer you the required material, field installation and the adaptation of the electrical control system.

Assembly Procedure
- Removal of disconnector and/or arcing chambers
- With alternative device, rework of enclosures
- Assembly of earthing switches incl. linkage and motor drive
- Reassembly of disconnector and/or arcing chambers
- Adjustments and setting of motor drive
- Wiring of earthing switch to control cubicle
- Retrofit of control cubicle incl. mimic
- Mounting of new rating plate
- Re-commissioning incl. functional checks

Advantages of Earthing Switch Retrofit
- Increase safety during maintenance within the power plant
- Simplify maintenance procedures within the power plant
- Allows visual verification and indication that the system is grounded
- Minimal expenditure of time installing external grounds
- No modification of the pole frame required
Optional earthing switch was provided on either or on both sides
1 Transformer side
2 Generator side

Estimated cost
For detailed pricing please contact your local sales representative.
Please consider performing this job together with an overhaul.

<table>
<thead>
<tr>
<th>Type</th>
<th>Service Kit (Order Number)</th>
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</thead>
<tbody>
<tr>
<td>Generator side</td>
<td>1HC0081286M0001</td>
</tr>
<tr>
<td>Transformer side</td>
<td>1HC0081286M0002</td>
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</tbody>
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Reworking process of enclosure

1. Drilling ø6mm with drilling jig
2. Drill out to 20mm
3. Cutting template
4. Cutting of the contours