Mevoco’s RV 53 Load Break Switch is an innovation that builds on the original design qualities of the RV 44, while integrating an earthing switch to create a three position switch (ON/OFF/EARTH).
Flexible operations
The patented concept combines an optimized gas rotation with a high precision of the mobile contacts to ensure:
- Efficient arc interrupting
- Limited erosion of the contact points
- High dielectrical withstand voltage

Safety at work
The Load Break Switch is filled with SF₆ gas, having exceptional isolating and arc interrupting characteristics. Optimal security is ensured by means of a “sealed for life” concept. All non-ferrous components of the switch are free of halogen, resistant to UV and ozone, reinforced with fibreglass and manufactured according to the class UL 94 VO.

Easy operation
The Load Break Switch is a three-position switch preventing any incorrect operation. The “open, close or earthed” position of the switch is clearly indicated on the synoptic diagram by means of an indicator directly linked to the shaft of the switch. Depending on the model, the Load Break Switch can be manually or motor operated.

Complementary safety can be provided by extending the switch with an earthing switch or / and with a fuse combination.

Earthing switch
A single drive mechanism is used for the operation of the combination RV 53 Load Break Switch and Earthing Switch. An interlock provides high safety by preventing any incorrect operation. The operator can view the position of the earthing switch at all times through the window integrated in the front doors of the switchgear.

Fuse combination
By using a fuse combination, the Load Break Switch can be extended with the fuse holders and an auxiliary earthing switch. Both earthing switches are mechanically linked and so they are open and close simultaneously. When a fuse blows, a tripping mechanism is activated by the striker of the fuse, causing the three phases of the Load Break Switch to open simultaneously. Other mechanical drive versions are also available.

Drive mechanism
- Components manufactured from special alloyed types of steel
- Completely prepared for eventual mounting of available options in a later stage (auxiliary contacts, key interlocks, opening and closing coils, etc.)
- Indicators always show the correct position of the switches
- Manually or motor operated drive (with operating handle)
- Operating shafts are mechanically interlocked, preventing any incorrect operation
- No movable parts accessible, preventing any injuries
- Two main drives:
  - DA53- Drive mechanism
    (Combination Load Break Switch and Earthing Switch
  - DP53- Drive mechanism
    (Load Break Switch and Earthing Switch / Fuse combination)
The advantages
(RV53 is a Load Break Switch with an integrated Earthing Switch)
- Maintenance friendly and fully integrated earthing switch.
- Operation of switch in one mechanical drive with one operating shaft.
- Operating shafts are mechanically interlocked, preventing any incorrect operation.
- Possible combination of other Mevoco mechanical drives and options.

Technical Specifications

<table>
<thead>
<tr>
<th>Rated Voltage</th>
<th>kV</th>
<th>12</th>
<th>17.5</th>
<th>24</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Rated lightning impulse withstand voltage 1.2/50 µsec</th>
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</thead>
<tbody>
<tr>
<td>- To earth and between phases</td>
</tr>
<tr>
<td>- Over the insulated distance</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rated short time power frequency withstand voltage 1 min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>- To earth and between phases</td>
</tr>
<tr>
<td>- Over the insulated distance</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Rated frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hz</td>
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<table>
<thead>
<tr>
<th>Rated current</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Rated short time withstand current 1 sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>kA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rated peak withstand current</th>
</tr>
</thead>
<tbody>
<tr>
<td>kA</td>
</tr>
</tbody>
</table>

Breaking capacity of the RV 53 (IEC 62271-102)
- Mainly active load | A | 630 | 630 | 630 |
- Closed loop distribution circuit current | A | 630 | 630 | 630 |
- Cable charging current | A | 18 | 18 | 18 |
- Making capacity | kA | 63 | 63 | 50 |
- Earth faults | A | 100 | 100 | 100 |
- Cable and line charging current under earth fault | A | 30 | 30 | 30 |

Protection degree : IP65
Mechanical endurance : 1000
Standards : IEC 62271-100, IEC 62271-105, IEC 60694, IEC 62271-102
Certification : KEMA, IPH

Sealed for life
Mevoco’s RV 53 load break switch is sealed for life, which ensures:
- Permanent safety and reliability:
- Sealed with double O rings to ensure perfect sealing
- Helium leak tested

For more information on RV 53 or our other products, contact our sales team sales@mevoco.be
Mevoco spearheads a drive for the development of medium voltage components that excel in quality and safety. Mevoco’s range of products includes load break switches, circuit breakers, voltage detectors, a relay, and an arc-killer. Among its innovations, Mevoco created the Arc-killer SV-25, a patented mechanism that dramatically improves safety in medium voltage cubicles. It maximizes not only operator safety, but it reduces material damage as well. The story lies at the heart of a vision for safer medium voltage components. Mevoco is located in Belgium, at the heart of an international transportation network, we ship products worldwide.

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Our product range

- **RV 44** Load break switch
two positions
- **RV 53** Load break switch
three positions
- **RV 50** Load break switch
for gas filled compartment
- **DA / DP** Mechanisms for load
break switches
- **RV 53** Load break switch
assemblies for OEM
- **VAS-2(RP)** Vacuum circuit breaker
- **VA-2(RP)** Vacuum circuit breaker
- **VA-3** Vacuum circuit breaker
for gas filled compartment
- **SV-25** Arc-killer
- **RV 54** Fast switch
submersible
- **RV 64** Insulating and earthing switch
submersible
- **RP600** Digital protection relay
- **HR-2** Plugable voltage detector
- **HR-3** Integrated voltage detector
- **SV-50** Arc-killer
for gas filled compartment

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