The GVR provides ‘intelligent control’ and protection on power distribution networks, whilst offering a lifetime of trouble-free service.

The GVR automatic recloser is now available as a tank only option for those customers who wish to connect their own protection and control cubicles.

Alternatively, customers looking for a ground-mounted solution can select our epoxy separable bushings for cable connected networks.

**Key Features**
- Superior, proven technology with minimal maintenance
- BRUSH Switchgear’s, single coil magnetic actuator mechanism allows the GVR to operate independently of the MV supply
- Environmentally friendly vacuum interruption produces no by-products
- The lightweight corrosion resistant aluminium tank makes the GVR easier to transport and install
- The EPDM or silicone bushings are tested for tracking and erosion to IEC 61109 and are resistant to damage from vandalism or mishandling
- Endurance tested to 10,000 operations
- Pole mounted or substation mounted, the GVR can be integrated into the most advanced distribution automation schemes, or can operate as a stand-alone recloser
- By using the advanced control and protection functions of the Beckwith M-7679, the GVR can also be used in applications where reclosers have not traditionally been used such as closed rings and underfrequency load shedding schemes
- The 3-in-1 Recloser – the GVR can be configured to function as a Switch, Sectionaliser or Recloser by using one of the specially pre-engineered protection and control cubicles

### Ratings

<table>
<thead>
<tr>
<th></th>
<th>GVR 15</th>
<th>GVR 27</th>
<th>GVR 38</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum System Voltage</td>
<td>kVrms</td>
<td>15.5</td>
<td>27</td>
</tr>
<tr>
<td>Continuous Current</td>
<td>A</td>
<td>630</td>
<td>630</td>
</tr>
<tr>
<td>Interrupting Current</td>
<td>kA</td>
<td>12.5/16</td>
<td>12.5</td>
</tr>
<tr>
<td>Impulse Voltage Withstand</td>
<td>kV peak</td>
<td>110</td>
<td>125/150</td>
</tr>
<tr>
<td>Power Frequency Withstand Dry</td>
<td>kVrms for 60secs</td>
<td>50</td>
<td>60</td>
</tr>
<tr>
<td>Power Frequency Withstand Wet</td>
<td>kVrms for 60secs</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Rated Gas Pressure for above</td>
<td>Atmospheric</td>
<td>Atmospheric/0.3 bar*</td>
<td>0.3 bar (gauge)</td>
</tr>
<tr>
<td>Number of Operations with no Maintenance</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>145</td>
<td>145/155*</td>
</tr>
</tbody>
</table>

* Ratings for 150kV impulse version
GVR Engineering Details

1. Single piece, aluminium or copper-cored EPDM or silicone rubber bushings, with grooves to take optional wildlife guards/MV boots. Epoxy separable bushings also available.

2. Current transformers are mounted within the tank's controlled environment, while optional capacitive voltage dividers provide voltage signals for use by the control relay or an RTU.

3. Aluminium housing with lightweight, moulded baseplate, secured by stainless steel bolts and incorporating rubber 'O' ring seals.

4. Pressure-relief disc, to comply with IEC 60298, offering the highest levels of safety.

5. Mechanical ON/OFF position indication visible through clear viewing window from ground level.

6. Hook stick-operated manual trip and lockout control.

7. A single moulding supports the three phase vacuum interrupter assembly, magnetic actuator mechanism and one-piece drive beam.

8. The patented, single coil magnetic actuator is based on a solenoid plunger, held in the tripped or closed position by a permanent magnet.

Protection Options

Polarr
The Polarr is the standard relay package for the GVR, offering full auto-reclose protection and control functionality.

Beckwith
The Beckwith M-7679 Relay offers the optimum levels of advanced control and protection for distribution networks. Functions include directional protection, voltage synchronisation, load encroachment supervision and underfrequency load shedding.

Other Options
Other relays options may be utilised to suit customer specific needs.

Standards:
- General - ANSI C37.60
- Electromagnetic - IEC 801
- Protection - IEC 255

Patents:
- GB2289374B
- EP 0 909 453 B1

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