GV1
12kV 630A...1250A UP TO 25kA
SF₆ GAS INSULATED SWITCHGEAR

Minimal maintenance, compact & modular SF₆ insulated distribution switchgear

Introducing L&T Electrical & Automation (E&A)’s GV1 modular SF₆ distribution switchgear, incorporating time tested vacuum interrupter based circuit breaker.

GV1 has been designed, keeping in mind the requirements of higher operational safety with minimal maintenance and sealed for life system. GV1’s modular design provides a perfect platform for building reliable distribution network in compact space.

With a worldwide after sales and service network, E&A ensures that the experts nearest to customer region are available for customer support at all time.
FRONT TERMINATION

REAR TERMINATION

Type-tested according to IEC 62271-100, IEC 6227-200 & IEC 62271-102

Loss of Service Continuity: LSC2B
Partition Class: PM
Internal Arc Classification: IAC AFLR 25kA –1s
Ingress Protection Class: IP4X for cubicle/IP65 for tank

Electrical Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>630/800A</th>
<th>1250A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Voltage</td>
<td>kV</td>
<td>12</td>
</tr>
<tr>
<td>Rated Current</td>
<td>A</td>
<td>800</td>
</tr>
<tr>
<td>Rated Frequency</td>
<td>Hz</td>
<td>50</td>
</tr>
<tr>
<td>Rated Short Time Current</td>
<td>kA/sec</td>
<td>25</td>
</tr>
<tr>
<td>Rated s.c. Making Current</td>
<td>kAap</td>
<td>63</td>
</tr>
<tr>
<td>Rated s.c. Sym. Breaking Cur.</td>
<td>kA</td>
<td>25</td>
</tr>
<tr>
<td>Rated Impulse Voltage (1.2/50)</td>
<td>kVp</td>
<td>75 / 95</td>
</tr>
<tr>
<td>Rated a.c. 1 min pf Voltage</td>
<td>kVrms</td>
<td>28 / 38</td>
</tr>
<tr>
<td>Width</td>
<td>mm</td>
<td>400 / 600</td>
</tr>
<tr>
<td>Depth*</td>
<td>mm</td>
<td>1045</td>
</tr>
<tr>
<td>Height*</td>
<td>mm</td>
<td>2275</td>
</tr>
</tbody>
</table>

* Height and Depth may vary on different configurations.

DESIGN FOR SAFETY

E&A regards safety as the most important specification of switchgear design and operation and the following proven safety features have been built into type GV1.
- Operational safety due to incorporation of PERMISSIVE interlock, PROOF OF EARTH, POINT OF ISOLATION etc.*
- Comprehensive pad - locking facilities
- Mimic diagrams and position indicators to guide the operators
- Arc fault tested at 25kA for 1 sec

PRODUCT VARIANTS
- Most compact foot print with rigid structure.
- VCB & Disconnecting Switch with SF6 gas insulation
- Busbar & Cable compartment with Air insulation
- No SF6 handling at side
- Safe, positive and fool proof interlocks
- Cable door & VCB interlocked
- Pad-lockable VCB & 3-position motorised isolator
- Fully modular design with extension on both sides
- SF6 content approx. 1.5Kg
- Front cable entry & no rear clearance required
- Optional rear top & bottom cable entry available

FEATURES
- Reduced footprint
- Suitable for highly polluted environment
- Ease of installation sealed for life
- Peace of mind with almost zero maintenance
- Productivity maximisation
- No fire risk

CUSTOMER BENEFITS

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