GV3N
36kV 630A…2500A UP TO 31.5kA SF₆ GAS INSULATED SWITCHGEAR

Introducing L&T GV3N modular SF₆ distribution switchgear, incorporating time tested vacuum interrupter based circuit breaker.

GV3N has been designed, keeping in mind the requirements of higher operational safety with minimal maintenance and sealed for life system. GV3N’s modular design provides a perfect platform for building reliable distribution network in compact space.

With a worldwide after sales and service network, L&T ensures that the prompt support is provided by our experts at all time.
Type tested according to IEC 62271-100, IEC 62271-200 & IEC 62271-102

Loss of service continuity: LSC2A
Partition Class: PM
Internal Arc Classification: IAC AFLR, 31.5kA-1s
Ingress Protection Class: Panel - IP4X
                     Tank - IP65

# Dimensions are per panel rating of 36kV up to 1250A
* Height and depth may vary on different configurations.

### Electrical Characteristics

<table>
<thead>
<tr>
<th></th>
<th>630A</th>
<th>1250A</th>
<th>2000A</th>
<th>2500A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Voltage</td>
<td>kV</td>
<td>36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated Current</td>
<td>A</td>
<td>630</td>
<td>1250</td>
<td>2000</td>
</tr>
<tr>
<td>Rated Frequency</td>
<td>Hz</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated Short Time Current</td>
<td>kA/3sec</td>
<td>25/31.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated short circuit Making Current</td>
<td>kA</td>
<td>63/80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated short circuit symmetric breaking Current</td>
<td>kA</td>
<td>25/31.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated Lightning Impulse Voltage (1.2/50 Micro Sec.)</td>
<td>kVp</td>
<td>170</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated a.c. 1 min pf voltage</td>
<td>kVrms</td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width*</td>
<td>mm</td>
<td>600</td>
<td>600</td>
<td>800</td>
</tr>
<tr>
<td>Depth*</td>
<td>mm</td>
<td>1130</td>
<td>1130</td>
<td>1780</td>
</tr>
<tr>
<td>Height*</td>
<td>mm</td>
<td>2475</td>
<td>2475</td>
<td>2570</td>
</tr>
</tbody>
</table>

### Design for Safety

L&T regards safety as the most important specification of switchgear design and operation and the following proven safety features have been built into type GV3N.
- No exposure to live parts
- 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 31.5kA for 1sec

### Product Variants

- Circuit breaker incomer and outgoing panel
- Bus sectioniser
- Bus Riser
- Metering panels
- Bus VT
- Line VT
- Surge arrester
- Cable entry from top/bottom, front/rear

### Features

- Most compact footprint with rigid structure
- VCB with SF₆ gas insulation Cable & Busbar are in air with touch proof connections
- Option for Busbar in SF₆ gas
- Safe, positive and fool proof interlocks
- Cable door & VCB interlock (optional)
- Padlockable VCB & 3-position motorized isolator
- Fully modular design with extension on both sides
- SF₆ content approx. 4.5 Kg
- Option available for front (bottom) & rear (top/bottom) cable entry.
- No rear access required in case of front cable entry.
- No SF₆ handling at site

### Customer Benefits

- Reduces cubicle space by >35%
- Suitable for highly polluted environment
- Safe operation behind close door
- Ease of installation & sealed for life
- Peace of mind with almost zero maintenance
- Productivity maximization
- No fire risk