

GV3N

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



Minimal maintenance, compact & modular SF₆ insulated distribution switchgear

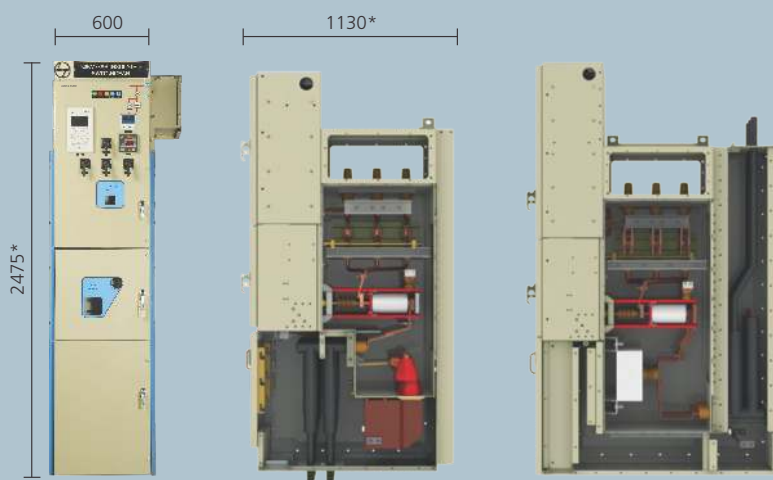
Introducing L&T GV3N modular SF₆ distribution switchgear, incorporating time tested vacuum interrupter based circuit breaker.

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.

FRONT TERMINATION

REAR TERMINATION



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 upto 1250A
* Height and Depth may vary on different configurations.

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

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 foot print 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)
- Pad- lockable 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



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