



## Air Insulated MV Switchgear

## About us

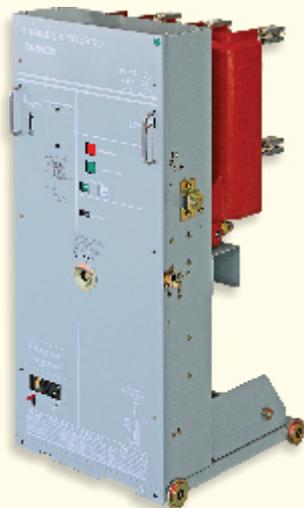
L&T Switchgear, a part of the Electrical & Automation business, is India's largest manufacturer of low voltage switchgear, with the scale, sophistication and range to meet global benchmarks. With over five decades of experience in this field, the Company today enjoys a leadership position in the Indian market with a growing international presence.

In continuing with its leadership position in low voltage switchgear, L&T-E&A introduced medium voltage switchgear range in Indian domestic market after acquiring TAMCO, Malaysia in 2007. TAMCO has decades of experience of MV switchgear supply to various sectors world wide. L&T's Air Insulated MV Switchgear, available from 3.3kV to 36kV, is a fully compartmentalized metal clad design with the superior interruption medium of vacuum. In India, these are manufactured at L&T's Ahmednagar factory and supplied to various customer segments viz. Iron & Steel, Power, Oil & Gas, Infrastructure, Building etc.

## Air Insulated Switchgear (AIS)

### Key Features

- Compliance with IEC 62271-100 and 62271-200
- Metal clad, fully compartmentalised
- Horizontal isolation, horizontal draw-out & floor-mounted VCB
- Earthing switch with full fault making capacity
- Readily extendable panel
- Cubicles designed to meet temperature rise limits without need for forced ventilation
- Fully type tested at renowned laboratories



### Easy operation and Maintenance

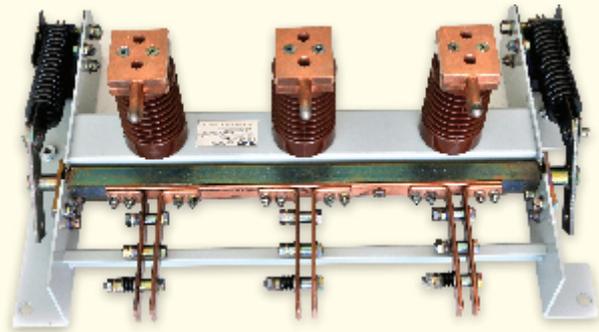
- Simple installation and easy to use
- Maintenance free vacuum interrupters
- Potential transformer module draw-out type
- Generous space for relays and instruments in low voltage compartment
- Ample space for cable termination in cable compartment
- Optimal compactness

### Advanced Manufacturing Technology

- State of the art Cathodic Electro Deposition (CED) paint line
- Advanced insulation materials, all bushings manufactured in house to stringent specification
- Quality assurance ISO 9001

## Safety

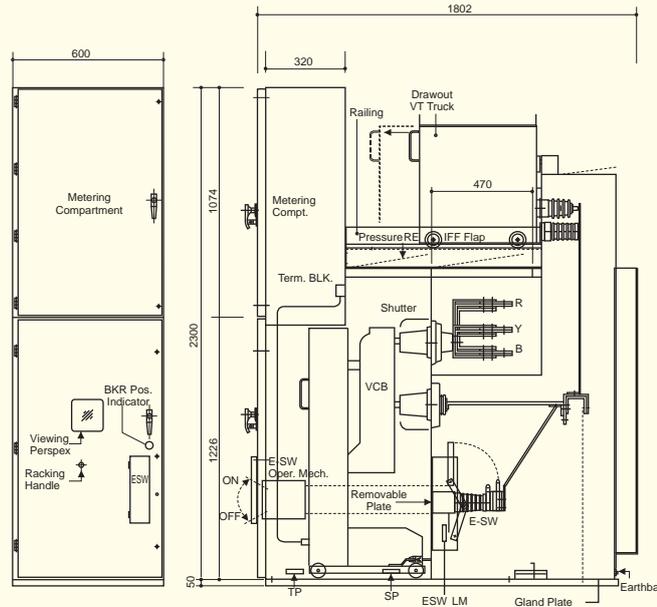
- Internal arc compliant as per IEC-62271-200
- Comprehensive safety interlocks
- Padlockable door to ensure operator safety
- Safety shutters to prevent accidental contact with live terminals
- Fully insulated busbars with removable shrouds at joints
- Seismic resistant
- Earthing switch and Earthing truck are optional



## Technical Specifications

Standards	IEC 62271-1, IEC 62271-100, IEC 62271-102, IEC 62271-200			
Voltage	12kV		24kV	36kV
Frequency	50 Hz			
Normal current (A)	630,800 1250, 2000	800, 1250 2000, 3150	630, 1250 2000	1250, 2000
Short circuit breaking capacity	26.3kA	40kA	25kA	25kA
Making capacity	62.5kA	100kA	62.5kA	62.5kA
Duration of short circuit withstand	3 sec			
Operating sequence	O-0.3 sec-CO-3 min-CO			
Opening Time	35ms		25ms	20ms
Break Time	<3cycles			
Impulse withstand voltage	75kVp		125kVp	170kVp
One minute power frequency withstand voltage	28kV (rms)		50kV (rms)	70kV (rms)
Transient recovery voltage	20.6kVp		41kVp	62kVp
Full load switching life	10,000			
Degree of protection	IP4X			
Closing & Tripping coil voltage	24V, 110V, 220V DC			
Spring charging motor voltage	24V, 110V, 220V DC / 230V AC			
Auxiliary contacts	6NO+6NC			

# Dimensional Drawing of Full Panel (12kV, 630A, 26.3kA)



## Ordering Information

Please furnish the following details while making an enquiry / order

### Parameters

Application	Feeder/Transformer/Motor/Capacitor/Generator Protection/Others			
Voltage	12kV		24kV	36kV
Current Rating (A)	630, 800 1250, 2000	800, 1250 2000, 3150	630, 1250 2000	1250, 2000
Short circuit breaking capacity	26.3kA	40kA	25kA	25kA
Panel Option	Full Panel / Half Panel / ICOG / Subcubicle			
Panel Version	With PT / Without PT			
Frequency	50 Hz			
Busbar Type	Copper / Aluminium			
CT Details	Ratio / Burden / Accuracy Class			
PT Details	Ratio / Burden / Accuracy Class			
Meters	A / V / MFM / TVM / Other			
Control Supply Voltage	24 / 110 / 220V DC or 230V AC			

Note: Please mention required protection and any other accessories.

### \*\* Panel Option

Full Panel : MV Panel with LV module                      ICOG : Incoming Outgoing MV Panel  
 Half Panel : MV Panel without LV module                      Sub-Cubicle : VCB with PDS in enclosure (for 12kV, 26.3kA)

*Product improvement is a continuous process. For the latest information and special applications, please contact any of our offices listed here.*



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