GIS

TYPE GV3/GV3D

Safe | Reliable | Compact

The New Age Sustainable Solution For Electrical Switching

The switchgear specialist

www.tamco.com.my

TAMCO

GIS

Having manufactured vacuum switchgears since the early 1980's, TAMCO has now extended its product range to include Type GV3 and Type GV3D Gas Insulated Switchgear (GIS), which combines the superior insulation of SF_6 gas with the reliability of vacuum switching.

36kV Rated Voltage

170kVp Impulse Withstand Voltage

Up to 2500A Normal Current

25 / 31.5 / 40kA for 3 seconds, Short-circuit Current

Single-busbar (GV3) or Double-busbar (GV3D)

Designed to IEC 62271-100, 62271-200 and 62271-102

Tested at international labs like KEMA/CESI etc.

KEY DESIGN FEATURES

Compact

Suitable for polluted environments

No fire risk

Superior SF_6 gas insulation

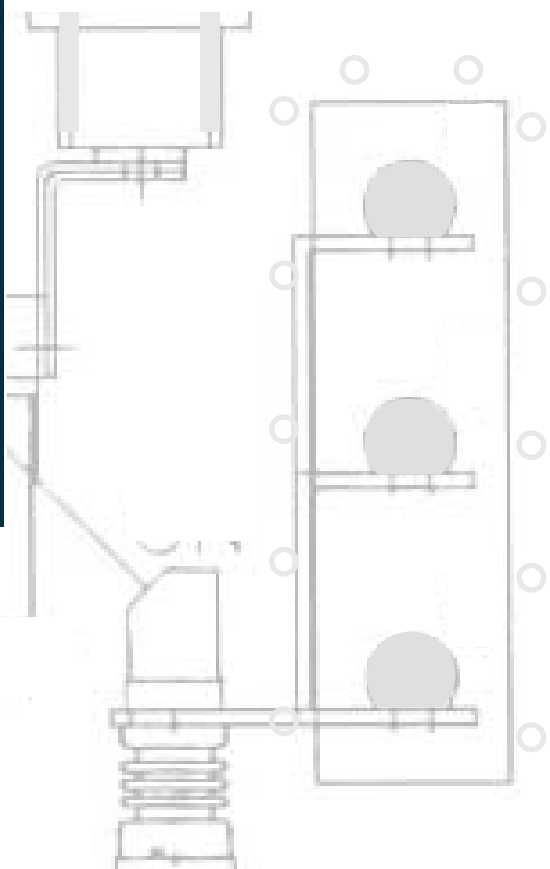
Reliable vacuum circuit breaker (VCB)

Minimal maintenance

Easy installation

Generous space for cable terminations

Fully extensible



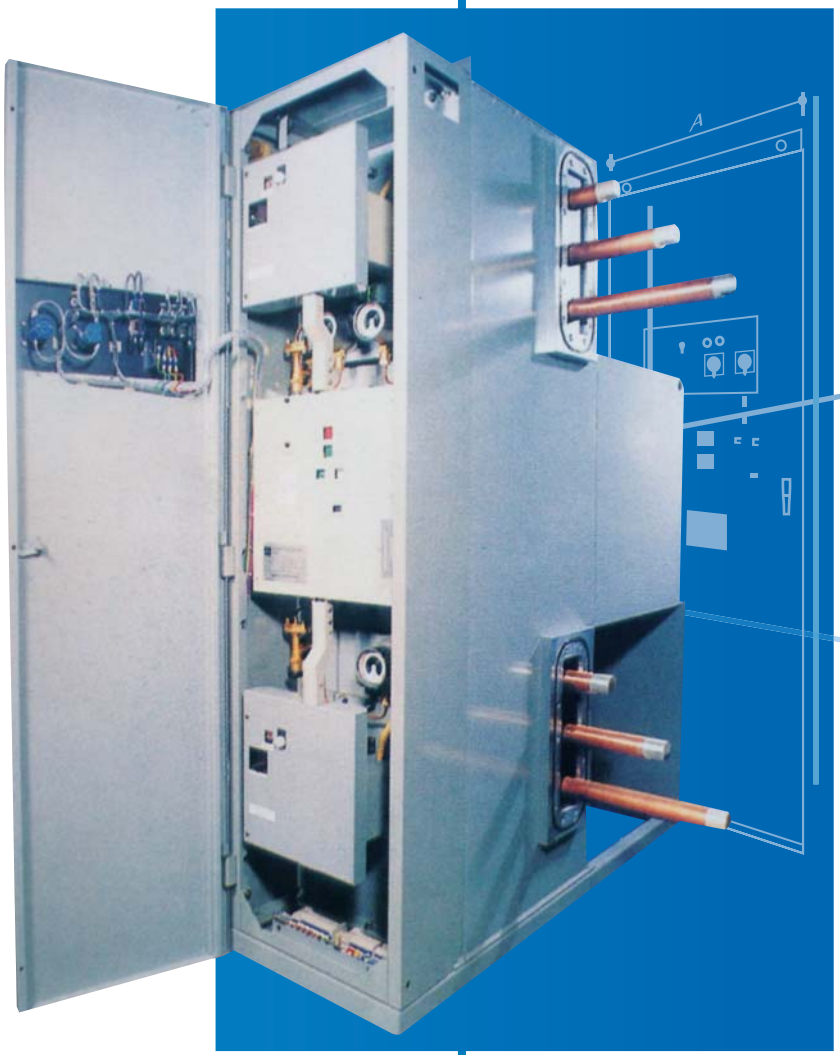
CUBICLE

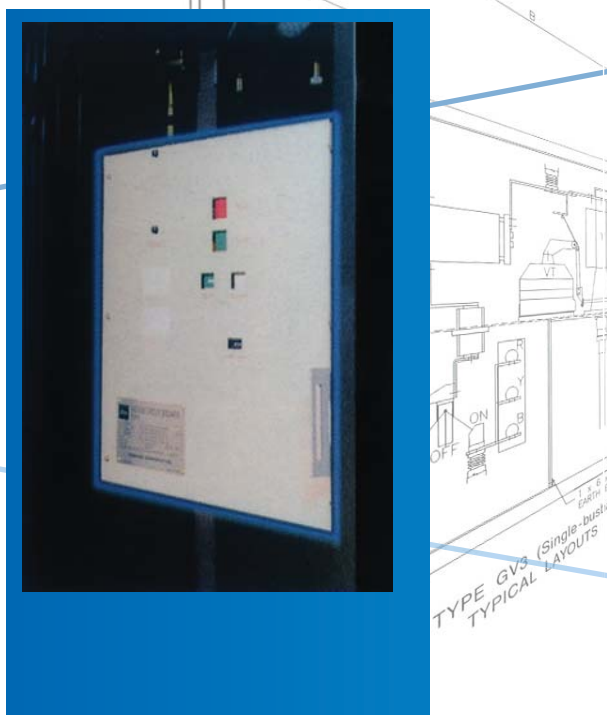
The cubicle is made out of heavy gauge steel sheets cut and welded using state-of-the-art laser and robotic techniques to obtain close manufacturing tolerances. Weld integrity and gas seals are extensively tested to ensure effective gas containment throughout the service life span of the switchgear.

Degrees of ingress protection, IEC 60529

– IP65 for high voltage compartments

– IP41 for mechanism and low voltage compartments





VACUUM CIRCUIT BREAKER

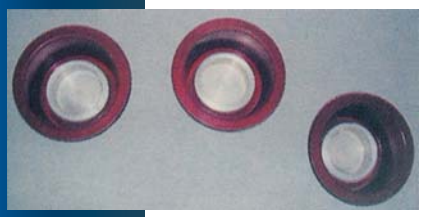
The switchgear incorporates a fixed VCB. The design emphasizes simplicity and minimum parts count for reliability, efficient heat dissipation and reduced maintenance.

SAFETY INTERLOCKS

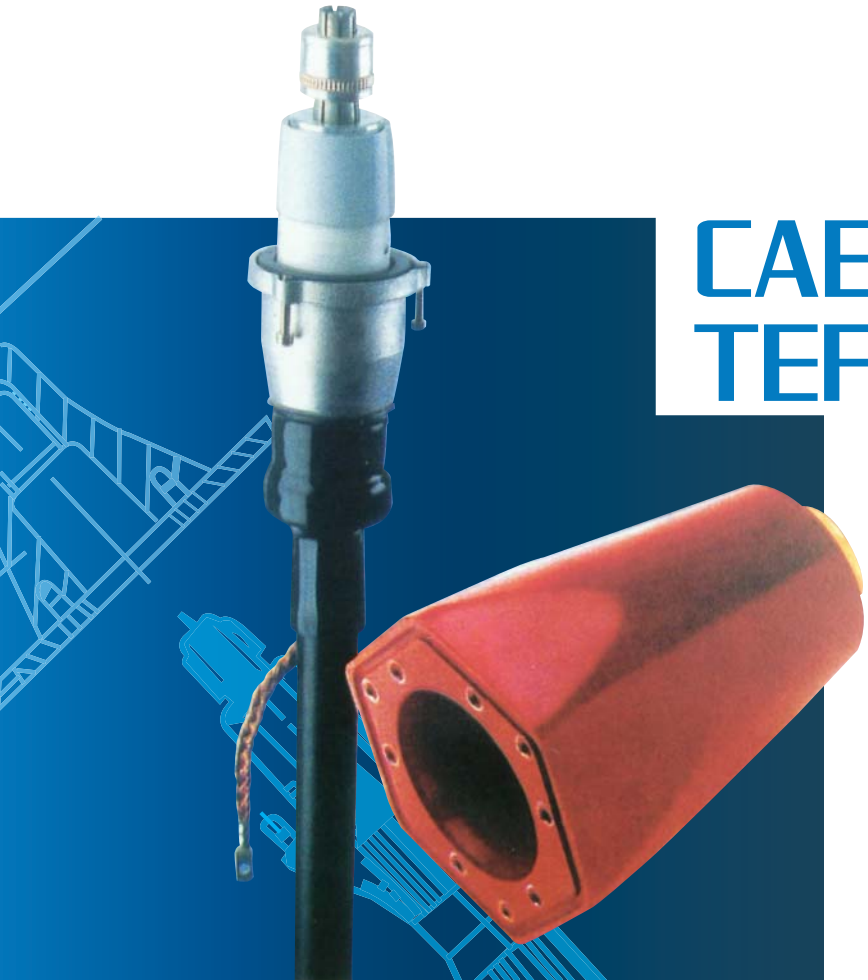
TAMCO does not compromise on operator safety.
Some of the safety interlocks are:

- Disconnecting switch cannot be operated if the VCB is closed;
- Disconnecting switch cannot be electrically operated if the manual operating handle is inserted;
- VCB cannot be operated either electrically or mechanically if the disconnecting switch handle is inserted;
- Earthing can only be effected through the circuit breaker.

MAIN BUSBAR



The switchgear construction has an optional design based on plug-in type of main busbar system, hence allowing for complete *in-factory* assembly. This design further eliminates inconvenient and time consuming gas filling process at sites.



CABLE TERMINATIONS

The switchgear is designed for use with plug-in type of cable terminations, for which purpose ample space is provided at a convenient height above floor level. The plug-in technique is an economical and proven method of cable termination. Multiple cables per phase can be accomodated.

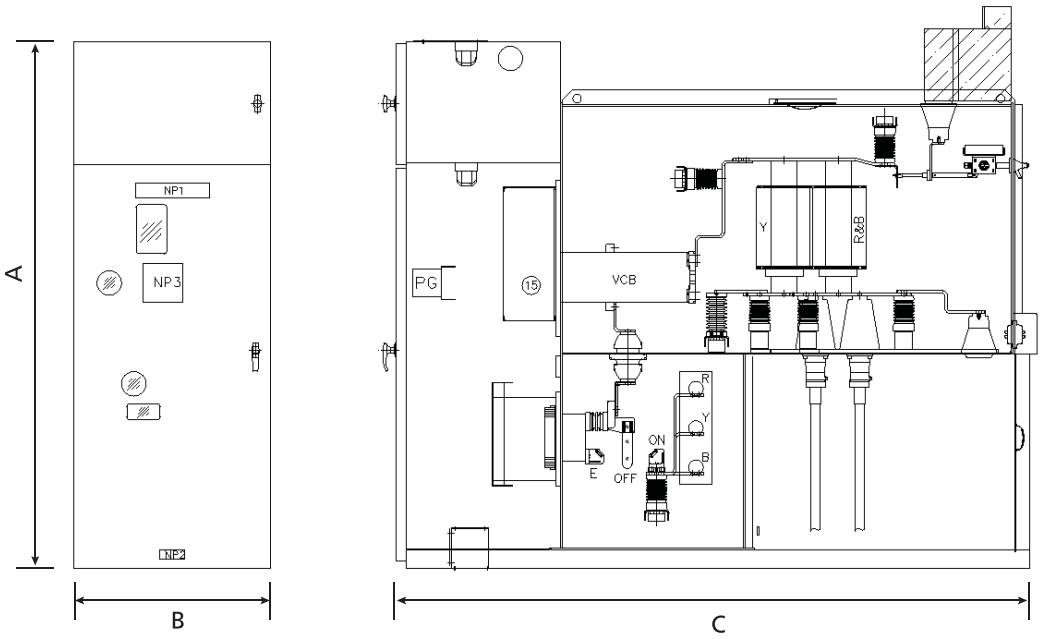
ELECTRICAL CHARACTERISTIC

MODEL	30M25	30P25	30M32	30P32	30Q32	
Voltage (kV)	36 / 40.5	36				
Current (A)	1250	2000	1250	2000	2500	Upto 2300
Frequency (HZ)	50					
Impulse Withstand Voltage (kVp)	170 / 200	170 / 195				
1 min. Power Frequency Voltage	70 / 80	70				
Operating Sequence	O-0.3sec-CO-3 min-CO					
Short Time Withstand Current (kA)	25		31.5			40
Peak Withstand Current (kA)	62.5		80			100
Width (mm)	600	800	800	800	800	800
Depth* (mm)	2305	2610	2305	2610	2610	2580
Height* (mm)	2140 / 2600					2560
Weight (excluding CT, VT, LV) Kg	1500	2000	2000	2000	2000	2000
Rated Operating Pressure of SF_6	1.35 bar absolute pressure at 20°C					
Minimum Operating Pressure of SF_6	1.20 bar absolute pressure at 20°C					
Loss of Service Continuity	LSC2B					
Internal Arc Classification	AFLR					
Partition Class	PM					
Ingress Protection Class	IP65 / IP4X					
Standard Complied	IEC 62271-200 IEC 62271-100 IEC 62271-102					

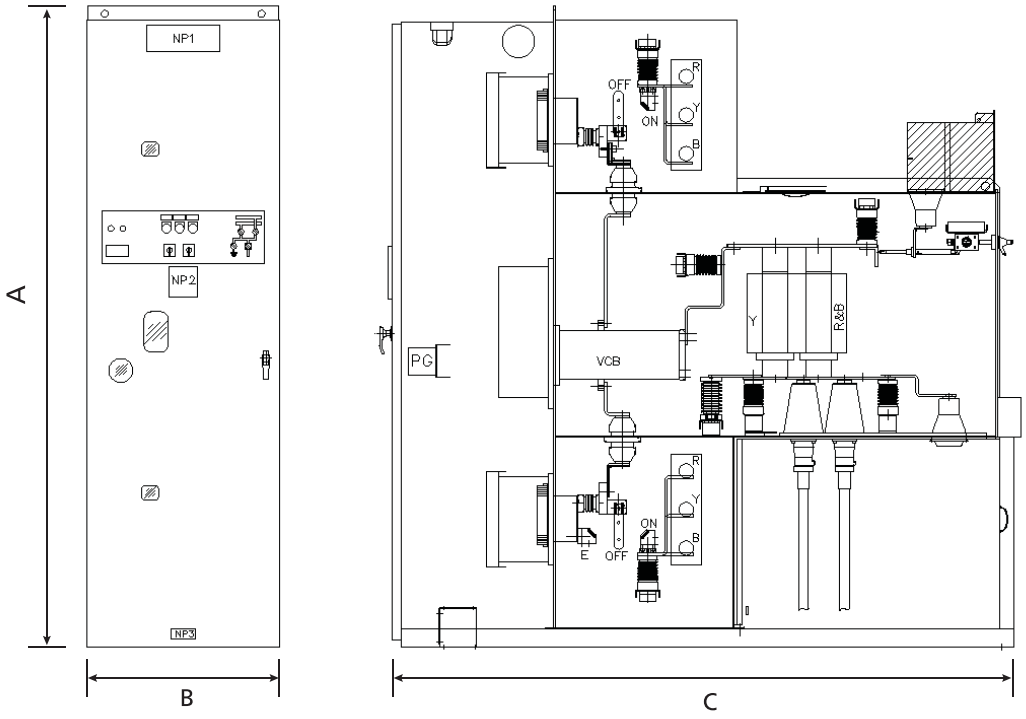
* Depth and height may vary depending upon the configuration.

GENERAL ARRANGEMENT

Single Busbar



Double Busbar



		25kA	31.5kA			40kA upto 2300A
		1250A	1250A	2000A	2500A	
SBB	A (mm)*	2140				2560
	B (mm)	600	800			800
	C (mm)*	2305 / 2610				2580
DBB	A (mm)*	2600				NA
	B (mm)	600	800			
	C (mm)*	2305 / 2610				

* Depth and Height may vary depending upon the configuration.

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