

# VH1F

## 12kV 800...2000A 25kA FIXED VCB AIR INSULATED SWITCHGEAR

Safe | Reliable | Compact



### Compact, modular & minimal maintenance fixed VCB Air Insulated Switchgear

The foundation of TAMCO's Air Insulated Switchgear is built around innovation, technology, intelligence and flexibility combined with highest quality. VH1F is a fixed VCB Switchgear for application upto 12kV 25kA 2000A that satisfies all the latest international standards. VH1F offers the flexibility and reliability of GIS type but with air insulation. It has ample termination space, higher air clearance yet has the most compact dimensions.

VH1F is designed for higher operational safety, minimal maintenance with an impressive small footprint. VH1F's modular design provides a perfect platform for building reliable distribution network in a compact space.

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

The switchgear specialist

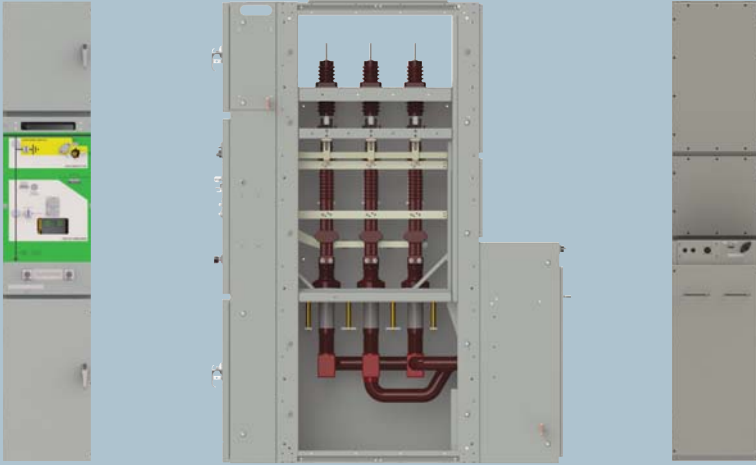
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**TAMCO**

FRONT

SIDE

REAR



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

Electrical Characteristics		800A			1250A		2000A		
Rated Voltage	kV	12							
Rated Current	A	800		1250		2000			
Rated Frequency	Hz	50							
Rated Short Time Current	kA/3sec	25							
Rated s.c. Making Current	kAp	63							
Rated s.c. Sym. Breaking Cur.	kA	25							
Rated Impulse Voltage (1.2/50)	kVp	75 / 95							
Rated a.c. 1 min pf Voltage	kV rms	28 / 38							
Width	mm	450				700			
Depth**	mm	1300 / 1700							
Height**	mm	2300							

## DESIGN FOR SAFETY

TAMCO regards safety as the most important specification of switchgear design and operation and the following proven safety features have been built into type VH1F.

- 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 25kA for 1 sec

\* Height and Depth may vary on different configurations.

\* Optional on customer request.

## PRODUCT VARIANTS

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

## FEATURES

- Most compact foot print with rigid structure
- Reduced substation dimensions saving civil and land costs
- Option for front, rear and dry type cable termination with cable entry from bottom and top
- Safe, positive and fool proof interlocks
- Cable door & VCB interlocked
- Pad-lockable VCB & 3-position isolator duly interlocked
- Fully modular design with extension on both sides
- Fixed VCB with motorised mechanism for switching
- Front cable entry & no rear clearance required
- Position of 3 position switch directly and easily visible without opening any cover in addition to the indicator

## CUSTOMER BENEFITS

- Reduces cubicle space requirement and therefore saving in civil and last cost
- Mechanical endurance (M2) 10000 operations
- Safe operation behind close door
- Internal Arc classification AFLR 25kA 1 sec
- Voltage detection system (VDS) as standard offering
- Cost optimised solution for distribution networks
- Peace of mind with very less maintenance
- Option of fixed VT with draw out primary fuses
- Flexibility of accommodating higher numbers CT's
- Ease of operation with direct and self exploratory interlocks/indicators

# TAMCO

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