VHIH

12/17.5kV 630A...3150A UP TO 50kA AIR INSULATED SWITCHGEAR

Safe | Reliable | Compact

The new age sustainable solution for Electrical Switching

TAMCO's VHIH Switchgear is based on decades of experience of catering to a wide variety of customer requirements ranging from cassette or truck mounted, single or double tier, single or double busbar, manual or motorised type of switchgears. This experience enables TAMCO to offer versatile, safe and end user friendly products.

VHIH comprises PM class medium voltage switchgear assemblies up to 17.5kV and features a cubicle width of only 600mm for ratings up to 1600A and fault levels of 40kA for 3s.

VHIH is robustly designed and built to perform even in the most adverse environments.

The switchgear is absolutely safe and designed to work in a wide range of applications including utility, industrial infrastructure and complies with the latest IEC standards.

The switchgear specialist

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Type-tested according to IEC62271-100, IEC62271-200, IEC62271-102, IEC62271-1, IEC60137 & IEC60529

Loss of Service Continuity : LSC2B
Partition Class : PM
Internal Arc Classification : IAC AFLR 40/50kA –1s
Ingress Protection Class : IP4X for cubicle

* Depth and Height may vary on different configurations.

ELECTRICAL CHARACTERISTICS		12kV	17.5kV
Rated current	A	630/800/1250/1600/2000/3150/4200*	
Rated frequency	Hz	50 / 60	
Rated short time current	kA/3sec	25/31.5/40/50	25/31.5/40
Rated s. c. making current	kAp	62.5/79/100/125	62.5/79/100
Rated s.c.sym.breaking cur.	kA	25/31.5/40/50	25/31.5/40
Rated impulse voltage (1.2/50)	kVp	75	95
Rated A.C. 1 min pf voltage	kV-rms	28	38
Internal arc for 1 sec	kA	40/50	
Width		Up to 1600A - 600mm	
		Up to 2500A - 800mm	
		Up to 4200A - 1000mm	
Depth	mm	1570/1970/2170**	
Height	mm	2495**	

Note: Higher values available on request
* With forced cooling

** Depth and Height may vary for different configurations

DESIGN FOR SAFETY

TAMCO regards safety as the most important consideration for switchgear design and operation and the following proven safety features have been built into VHIH.

- 40kA IAC for 1 sec in 600mm width cubicle
- For operational safety positive fail safe interlocks are incorporated for VCB, Earth Switch & VT operation
- Metallic independent movement shutter with padlock option
- Arc fault contained viewing window for viewing earthswitch main contacts prior to operation
- Optional motorised remote racking in and out facility for VCB trucks
- Comprehensive pad-locking facilities
- Mimic diagram and position indicators to guide operators

VHIH VARIANTS

- Incomer & Feeder Panel
- Bus Sectioniser
- Bus Riser
- Cassette or Floor Rolling VCB
- Bus VT & Line VT
- Two Tier VT Panel
- Swing-out or Trolley VT
- Metering Panels
- Vacuum Contactor Panels
- Cable entry from top & bottom

FEATURES

- Fully typed tested as per IEC62271-100/200/102
- Compact dimensions
- Generous air clearances for busbars
- Safe and fail-safe positive interlocks
- All operations behind closed door
- Fault make type earthing switch available
- Sliding door, easier locking
- Optional motorised rack-in and rack-out
- Fixed type, swing type and draw-out type VT options
- Block type or ring type CT options available
- Generous cable termination height
- Seismic Zone -V tested

CUSTOMER BENEFITS

- Space saving
- Safe operation behind closed door
- Ease of installation
- Breaker movement inside cubicle is independent of floor surface condition
- Extensible both sides
- Minimum operator training required
- Internal Arc Fault tested for 1 second for up to 40/50kA

VHIH_R0

TAMCO

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