

Medium Voltage Switchgear



22KV VCB Panels
 VD4 VCB - ABB make

Key Features :

Indoor Panels / Outdoor Kiosks

Panels are designed in accordance with ABB’s guidelines and as per IEC / IS Standards.

Compact and Robust

Cassette mounted CB of ABB make with draw out feature with cubicle front door closed

Complies to latest standards of IEC 62271-200

Modular structure with metal clad design with inter panel metal segregation

Lockable Automatic Safety Shutters for Breaker Compartment

Mechanical indication of test and service positions

Long mechanical life with sturdy and proven operating mechanism

Electrical anti-pumping

Fully Compartmentalized construction with IP4X degree of protection externally and IP2X between compartments for Indoor Type

Bus Riser is provided in bus coupler panel itself for panels rated upto 22KV 2000A, leading to floor space saving.

Emphasis on Operator’s safety by:

Foolproof mechanical interlock to prevent rack-in and rack-out of closed breaker

Independent exhaust vent for all HT compartments

Multiple guides for safe, sure and enduring self aligning power contacts

Live parts are covered by automatic shutters when breaker is racked out

Integral Earthing switch (optional)





MV Air – Insulated Switchgear Range

Medium Voltage family, mirroring all the Construction characteristics of the Standard version

Indoor Type Panels :

Available with current ratings upto 4000A and Short Time Ratings of 26.3/40KA. Panel is designed and type tested to meet the requirements of IEC-60298 / IS :3427. Choice of Aluminium and Copper Busbars

Outdoor Type Kiosks :

Available with current ratings upto 4000A and Short Time Ratings of 26.3/40/44KA. Panel is designed and type tested to meet the requirements of IEC-60298 & IS :3427. Degree of Protection for enclosure upto IP42 For Indoor and IP55 for Outdoor Applications.



VCB Technical Data			Switchgear Panel Data	
Type	VD4		Specification	SAF T 22
Operating Method		Manual / Motor Spring Charge Type	Installation & Type	Indoor Metal Clad
Rated Voltage	KV	33	Insertion of Circuit Breaker	Horizontal draw-out and horizontal isolation
No. of Poles	Nos	3	Position of CB in the panel	Service & Test
Frequency	Hz	50 / 60	Secondary contacts	Manually engaged 16 /32 way plug & socket
Rated Current	Amp	630 / 1250 / 2000	Degree of Protection	IP4X (Enclosure)
Short circuit Current	KA	13.1 / 20 /25/31.5		IP2X (Internal)
Making Current	KAP	62.5	Rating of Bus Bar	1250 / 1600 / 2000 A
Duration of short time current	Sec.	3	Space for CTs	1 Set CT in Cable Compartment
Insulation Level Impulse Power Frequency rms	KVp	170	Space for PT	1. With-drawable bus & cable PT. Top of Panel / CB Compartment (Optional)
	KV	70		2. Fix type bus / cable PT. In cable Compartment (Optional)
Contact travel	mm	7 (+1, -1)		
Opening Time	Cycles	Less than 2 cycles	Space heaters	230 V AC, 100 W / 200 W strip Type (Optional)
Interrupting Time	Cycles	Less than 3 cycles	Cable Termination Height	700 mm From Bottom
Closing Time	Cycles	Less than 3 cycles	Applicable Standard	IEC 62271-200, IS 3427
Duty cycle	Cycles	0-0.3 sec. -CO-3 min-CO		
Applicable Standard		IEC 62271-100, IS 13118		