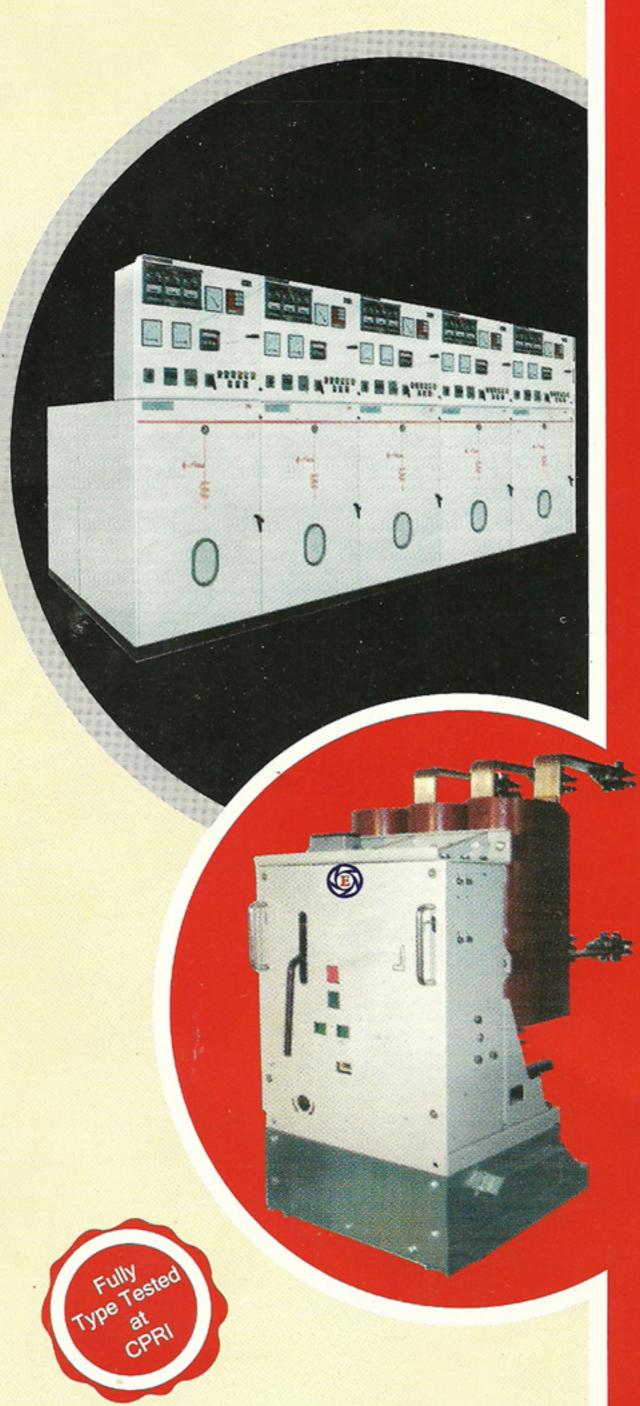
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ELECTRICFIELD SWITCHGEARAn Icon of Quality Engineering



M.V. Indoor Metal Clad
Air Insulated Switchgear
with Vacuum Circuit Breaker



ISO 9001 Company

Electricfield Switchgear offers H.V.Switchgear panels in metal clad enclosure, fully extensible & with horizontal draw out vacuum circuit breakers (Single/multi lineup). These breakers are protecting the power transformers, HT capacitors bank, generators & feeders. These breakers are also used for starting the HT motors and auto re closing duty.

VACUUM CIRCUIT BREAKER

It consists of manual/motor operated spring charged mechanism of stored energy type. In the closed state of the breaker, the closing springs can perform the duty operation. Facility is also available for hand charging the springs in the event of supply failure. The closing spring is charged by the motor in less than 15 second. Electrical anti-pumping feature is also provided.

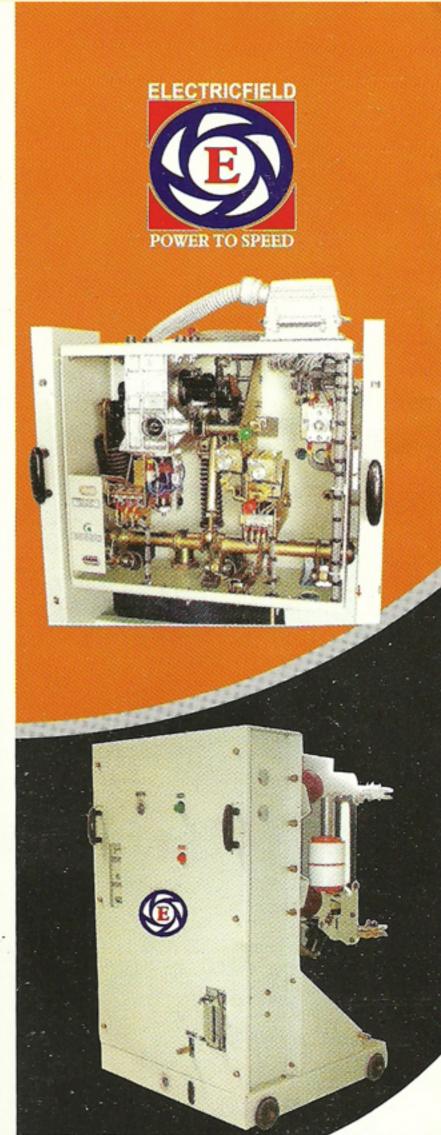
The mechanism is trip free and suitable for rapid re closing. The vacuum interrupters are capable of switching capacitive currents and small magnetising current.

SALIENT FEATURES

- Conforms to IS13118: 1991/IEC62277-100 IEC-62277-200.
- Fully compartmentalised & Compliance to internal arc as per standards.
- Emergency tripping arrangement without opening the Breaker chamber front door.
- Extensible & modular construction.
- High reliability
- Re strike free
- Horizontal draw out Type.
- Self aligning type cluster contacts for robust design.
- Stored energy type spring closing mechanism.
- Fully interlocked for operational safety.

TECHNICAL SPECIFICATION

Unit		A	VKVCB	71	
KA-rms	13.1	20		26.3	
Amp	800	800	1250	800	1250
kV			12		
Nos.			3		
Hz			50		
%			50		
Sec.			3		
Kvpk			75		
	A				
kVrms	28/35(optional)				
No.		one			
	IS 13118: 1991 / IEC 62277-100				
	IEC62277-200				
	KA-rms Amp kV Nos. Hz % Sec. Kvpk	KA-rms 13.1 Amp 800 kV Nos. Hz % Sec. Kvpk	KA-rms 13.1 Amp 800 800 kV Nos. Hz % Sec. Kvpk kVrms No. IS 13118:	KA-rms 13.1 20 Amp 800 800 1250 kV 12 Nos. 3 Hz 50 % 50 Sec. 3 Kvpk 75 kVrms 28/35(optional) one IS 13118: 1991 / IEC 62	KA-rms 13.1 20 2 Amp 800 800 1250 800 kV 12 12 Nos. 3 50 50 % 50 50 3 Sec. 3 3 3 Kvpk 75 75 50 kVrms 28/35(optional) 00 No. 00 00 00 IS 13118: 1991 / IEC 62277-100 10 00



PANEL SPECIFICATION

Indoor metal clad panel

Horizontal withdrawal & isolation

Upto 1250A rating of buabar

Degree of protection IP4X

Current Transforms of ratio accuracy as per requirement

2 Nos. Space Heaters Service & Test position of CB

IS 3427: 1997 IEC 60298

Rear entry for power cable 32wayplug & socket for sec contact

CONSTRUCTION

Metal clad VCB cubicles are fabricated out of high quality sheet steel by sophisticated manufacturing process, stringent in process quality checks and in house production of all critical components. The panels are dust and vermin proof and with degree of protection IP 4X as per IS2147 for Indoor Panel.

Electricfield Switchgear Vacuum circuit breaker panel consists of 4 chambers namely

- 1. Breaker Chamber
- 2. Metering & Relay Chamber
- 3. Bus bar Chamber
- 4. CT/PT (Duly Type Tested), Cable Chamber

BREAKER CHAMBER:

This consists of VCB mouted on a trolley, horizontal draw out with self aligning type moving contacts. Fixed contacts are covered automatically by movable shutters while draw out the VCB, to ensure no direct contacts with live parts is possible, thus ensuring the safety of operator.

METERING & RELAY CHAMBER

This consists of all meters, protective relays, switches, indicating lamps etc, and wired as per the specification of the clients.

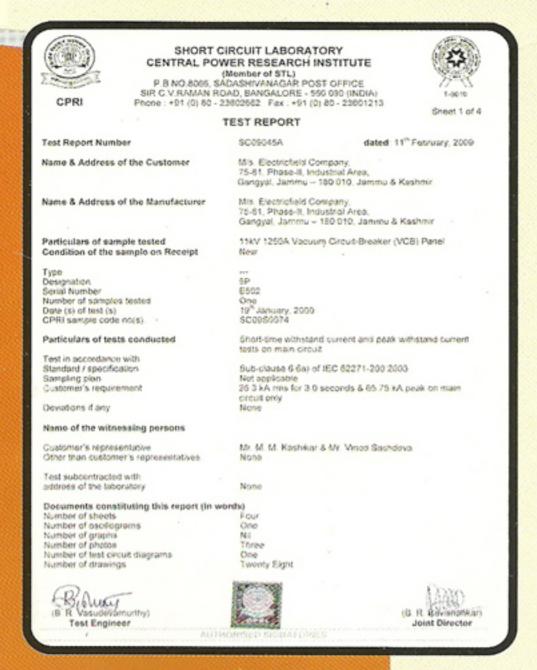
BUS BAR CHAMBER

The switchgear panels are provided with single/double bus bars with high electrical grade copper/Aluminium depends on the current rating. The 3 phase Bus bars are supported on strong epoxy insulation and fixed delta configuration which minimised electro mechanical stresses under short circuit conditions. Bus bars will be provided with sleeve insulation.

CT/PT (Electricfield Make), CABLE CHAMBER

The CT/PT (Type Tested) & Cable chamber is located at the rear side of the panel and ready access is available by opening the rear cover with safety weld mesh. It is also possible to mount core balance CTs with in the cubicle.

The panels are powder coated with epoxy base paint to give an aesthetically pleasing appearance. The pre treatment process is done by seven tank method. The paint shall be as per the requirement of clients.



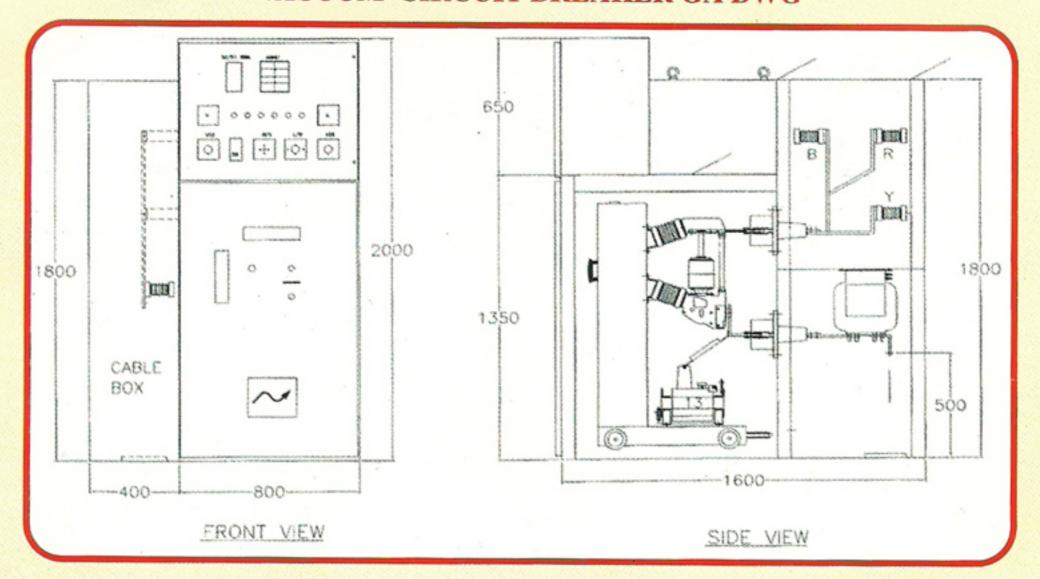
OUTDOOR VCB KIOSK

Electricfield Switchgear offers Outdoor Vacuum Circuit Breaker Kiosk can be directly installed on a plinth. The power supply can be taken either through roof Bushings or cable box or a combination of roof bushing and cable box. The CTs/PTs and relays are in-built in the metal enclosure.

EARTHING (OPTIONS)

Earthing through a draw-out earthing truck with solid links on the bus bar/feeder side.

VACUUM CIRCUIT BREAKER GA DWG



INTERLOCKS

- Interlocks are provided such that breaker closing is prevented in intermediate position between service and test/isolated positions.
- Mechanical interlocks to prevent truck racking in/out when breaker is in closed position.
- Breaker can be inserted only when control plug & socket in position.
- Control plug & socket can be removed only in isolated position.
- Mechanical castle interlock with upstream/downstream isolators can be provided on request.

TESTING FACILITIES

- CT & PT Test setup
- PD Test setup
- Impulse Testing
- VCB Analyzer
- Mechanism Endurance Test Jig
- HV & MV Drop Test
- Temp rise Test
- Portable Vacuum Checker
- For Vacuum Interrupters
- Mechanical Testing facilities

Specification and dimension are subject to change due to improvement in the design.

OTHER PRODUCTS:

- Control And Relay Panels Upto 220KV
- Servo Controlled Stabilizer 400V 33000V 10MVA
- Automatic Voltage Stabilizer 230V
- Continuously Auto Variable Transformer 1200A
- Automatic Battery Charger 220V. 500AH & 1000AH
- Power Control Centre 6000A.415V 3Phase
- Motor Control Centre 3Phase
- Instrument Transformer: Potential, Current Transformer. Indoor/Outdoor Upto 220 KV
- Distribution / power Transformer Upto 33KV / 10MVA
- Oil Testing Set 0-100KV
- ***** Testing Equipment

Works:

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