Indoor Vacuum Circuit Breakers

System Control

Construction

The Indoor Vacuum Circuit Breaker is manufactured in 11KV, 22KV and 33KV configurations. The Vacuum Circuit Breaker manufactured is of SYSVAC type. The entire unit is indigenously designed, manufactured, assembled and tested at our works. The Indoor Vacuum Circuit Breaker comprises of panel, breaker chamber, CT & PT chamber, busbar chamber and metering chamber. The required clearances are maintained between all load and non-loading bearing members and the unit is manufactured completely in accordance with IS/IEC Standards.The Indoor Vacuum Circuit Breaker is manufactured with following safety features :

- The breaker cannot be moved from test to service position without closing the breaker compartment door.
- The breaker cannot be moved from test to service position and vice-versa if the breaker is in closed condition.
- The breaker cannot be closed in between test and service position.
- The breaker compartment door cannot be opened if the breaker is in service position or in between test and service position.

Special Features

A special feature of the breaker truck is the double action auxiliary plug which makes the system fully draw out. There is no cumbersome manual plugging as the draw out operation itself takes care of everything. The draw out operation makes first and breaks last.

Fully Tested at C.P.R.I.

M2 CLASS VCB

The Indoor Vacuum Circuit Breaker is completely type tested at CPRI, Bangalore and Korea Electrotechnology Research Institute (KERI), South Korea.

Technical Data	11KV VCB	22KV VCB	33KV VCB
Type	SYSVAC	SYSVAC	SYSVAC
Voltage	12 KV	24 KV	36 KV
Current	400/630/800/1250 A 2000A/2500A/3150A/4000A	400/630/800/1250 A	400/630/800/1250 A
Symmetrical Breaking Capacity	16/20/25/31.5/40 KA	16/20/25/31.5/40 KA	16/20/25/31.5/40 KA
Short Circuit withstand current duration	3 Sec	3 Sec	3 Sec
Making Capacity (KA Peak)	40/50/63/80/100 KA	40/50/63/80/100 KA	40/50/63/80/100 KA
Insulation Level a. Power Frequency Withstand (KV RMS)	28 KV for 1 Min	61KV for 1 Min	82.5 KV for 1 Min
b. Impulse Withstand (KV Peak)	70 KV	125 KV	170 KV
Normal Operating Duty	0-3min-CO-3min-CO	0-3min-CO-3min-CO	0-3min-CO-3min-CO
Auto Re-closing Duty	0-.3sec.-CO-3min.-CO	0-.3sec.-CO-3min.-CO	0-.3sec.-CO-3min.-CO
Auxiliary Switch	8 NO + 8 NC	8 NO + 8 NC	8 NO + 8 NC
Applicable Standard	IEC 62271 - 100 / IS13118	IEC 62271 - 100 / IS13118	IEC 62271 - 100 / IS13118

Technical specifications may change due to constant improvements.

Works:
System Control
MFRS : HT Switchgear & LT Panel Boards
New No.83, Fairlands
Salem, Tamil Nadu
India 636 016

Ph: +91 427 244 7004
Fx: +91 427 244 5003

www.systemcontrol.in
info@systemcontrol.in

System Control

Outdoor Vacuum Circuit Breakers (KIOSKS)

System Control

Construction

The Outdoor Kiosk type Vacuum Circuit Breakers are manufactured in 11 KV, 22KV and 33 KV configurations. The Vacuum circuit breaker manufactured are of SYSVAC type. The entire unit is indigenously designed, manufactured, assembled and tested at our works. The outdoor vacuum circuit breaker comprises of panel, breaker chamber, CT & PT chamber, busbar chamber and metering chamber. The required clearances are maintained between all load and non-loading bearing members and the unit is manufactured completely in accordance with IS/IEC Standards. The outdoor vacuum circuit breaker is manufactured with following safety features:

- The breaker cannot be moved from test to service position without closing the breaker compartment door.
- The breaker cannot be moved from test to service position and vice-versa if the breaker is in closed condition.
- The breaker cannot be closed in between test and service position.
- The breaker compartment door cannot be opened if the breaker is in service position or in between test and service position.
- Incoming & Outgoing can be either by bushings, or by cable entry from bottom.

Special Features

A special feature of the breaker truck is the double action auxiliary plug which makes the system fully draw out. There is no cumbersome manual plugging as the draw out operation itself takes care of everything. The draw out operation makes first and breaks last.

Fully Tested at C.P.R.I.

M2 CLASS VCB

Technical Data	11KV VCB	22KV VCB	33KV VCB
Type	SYSVAC	SYSVAC	SYSVAC
Voltage	12 KV	24 KV	36 KV
Current	400/630/800/1250 A 2000A/2500A/3150A/4000A	400/630/800/1250 A	400/630/800/1250 A
Symmetrical Breaking Capacity	16/20/25/31.5/40 KA	16/20/25/31.5/40 KA	16/20/25/31.5/40 KA
Short Circuit withstand current duration	3 Sec	3 Sec	3 Sec
Making Capacity (KA Peak)	40/50/63/80/100 KA	40/50/63/80/100 KA	40/50/63/80/100 KA
Insulation Level			
a. Power Frequency Withstand (KV RMS)	28 KV for 1 Min	61KV for 1 Min	82.5 KV for 1 Min
b. Impulse Withstand (KV Peak)	70 KV	125 KV	170 KV
Normal Operating Duty	0-3min-CO-3min-CO	0-3min-CO-3min-CO	0-3min-CO-3min-CO
Auto Re-closing Duty	0-.3sec.-CO-3min.-CO	0-.3sec.-CO-3min.-CO	0-.3sec.-CO-3min.-CO
Auxiliary Switch	8 NO + 8 NC	8 NO + 8 NC	8 NO + 8 NC
Applicable Standard	IEC 62271 - 100 / IS13118	IEC 62271 - 100 / IS13118	IEC 62271 - 100 / IS13118

Technical specifications may change due to constant improvements.

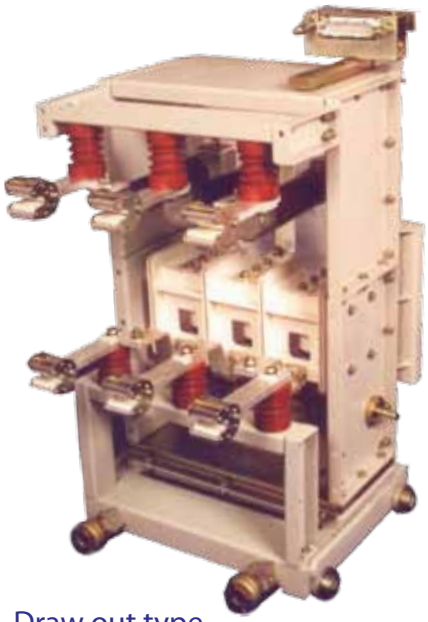
Works:
System Control
MFRS : HT Switchgear & LT Panel Boards
New No.83, Fairlands
Salem, Tamil Nadu
India 636 016

Ph: +91 427 244 7004
Fx: +91 427 244 5003

www.systemcontrol.in
info@systemcontrol.in

System Control

Vacuum Contactors



Draw out type

Applications

SYSTEM CONTROL manufactures Vacuum Contactors in 3.3 KV and 6.6 KV voltage range, 400 Amps configuration. These contactors are used in switching of H.T. Motors, Capacitor, Transformers and Furnaces. The product can be in either fixed type or draw out type design.

Special Features

The control circuitry comprises of solid state devices and advanced ICs that provide dual control voltage by changing a selector switch and consumes less power. The design of the contactor is such that chopping currents are low, the equipment is maintenance free and suitable for high switching frequency.

Optional Features

- Fully draw out type contactor
- Mechanical interlock for FWD/REW operation

Fixed type

Fully Tested at C.P.R.I.

Description	Details	3.3 KV	6.6 KV
Rated Voltage	Insulation	7.2 KV	7.2 KV
	Operational	3.3 KV	6.6 KV
Rated Current	Thermal	400 A	400 A
	Operational	400 A	400 A
Interrupting Capacity	Capacity	36 MVA	72 MVA
	Current	6.3 KA	6.3 KA
	Voltage	3.3 KV	6.6 KV
Making & Breaking (AC4 Category)	Making Current	4 KA	4 KA
	Breaking Current	3.2 KA	3.2 KA
	Duty (Operations)	'C' - 100 'O' - 25	'C' - 100 'O' - 25
	Time Interval	10 Sec	10 Sec
Short Time Current Carrying Capacity	AMP	4.4 KA for 12 Sec	4.4 KA for 12 Sec
	RMS	8.8 KA for 1 Sec	8.8KA fo 1 Sec
Peak Over Current		85KA for 10ms	85KA for 10ms
Switching Frequency Times/Hr		1200	1200
Mechanical Life Operations		2.5 Million	2.5 Million
Electrical Life (AC-3 Make/Break with 100% Voltage)		0.25 Million	0.25 Million
Impulse Voltage withstand		60 KV	60KV
Power Frequency Voltage withstand		20 KV	20KV
Closing Time		60-80 ms	60-80ms
Opening Time		15-25 ms	15-25ms
Opening Speed		400-500 m/s	400-500m/s
Applicable Standard		IEC 470-1974 / IS 9046-1978	IEC 470-1974 / IS 9046-1978

- Technical specifications may change due to constant improvements.

Works:
System Control
MFRS : HT Switchgear & LT Panel Boards
New No.83, Fairlands
Salem, Tamil Nadu
India 636 016

Ph: +91 427 244 7004
Fx: +91 427 244 5003

www.systemcontrol.in
info@systemcontrol.in

System Control

12 kv Retrofit VCB

System Control

Construction

In our country the installation of switchgear started with ACB, BOCB, MOCB and these arrangements are in service for more than five decades. These Switchgears need large amount of spares and since last few years the manufacturers have gradually tapered off the production. This resulted in retrofitting of old ACB / BOCB / MOCB Switchgear with VCB, which is the best alternative for the old installations. The main advantage of retrofitting is investment cost of upgrading is minimum besides less down time in the existing plant.

The maintenance of conventional circuit breaker i.e. ACB / BOCB / MOCB requires periodic maintenance like replacement of contacts, replacement of quenching medium such as oil and the spares for operating mechanism. The frequency of maintenance of ACB / BOCB / MOCB is dependent on no. of short circuit operations and the switching applications.

The operation and performance of any Switchgear is important to minimize the shut down period and this totally depends on maintenance and technology utilized. In Switchgear except Circuit Breaker all other components are stationary. The Circuit Breaker is only operated as and when required.

Advantage of Retrofitting

- It is a cheaper and simpler alternative to enhance the life for the old installation whose service life is almost over or even surpassed.
- The benefits of modern technology viz. vacuum technology can be made available with minimum installation cost.
- The frequency of maintenance can be drastically reduced as VCB is used in place of ACB / BOCB / MOCB.
- There is no need to store large quantity of costly spares of ACB/BOCB/MOCB which may not be available because its manufacturing has become obsolete.

Special Feature

Pole centers are adjustable to match any make of BOCB

Steps of Retrofitting

- Decide the current rating and fault level required.
- Matching the power isolating contacts.
- Confirming the interlock required as per current statutory requirement.
- Matching the secondary circuit isloating contacts.
- Ensuring the rigidity of Bus / Jumper support for the required rated current / fault level.
- Ensuring the Vermin proofing.

Description	Rating
Rated Voltage	12 kv
Rated Current	400/630/800/1250/1600/2000
Symmetrical breaking capacity	13.1/20/25KA/31.5KA/40KA
Short circuit with stand duration	3 Sec.
Making capacity (KA peak)	33/50/63 KA/79KA/100KA
Insulation level	28kv for 1 min.
Impulse level	75kv (Peak)
Normal operating duty	O-0.3 SEC - CO - 3 MIN-CO
Auxiliary switch	8 NO + 8 NC
Relevant standard	IEC 56/IS 13118

- Technical specifications may change due to constant improvements.

Works:
System Control
MFRS : HT Switchgear & LT Panel Boards
New No.83, Fairlands
Salem, Tamil Nadu
India 636 016

Ph: +91 427 244 7004
Fx: +91 427 244 5003

www.systemcontrol.in
info@systemcontrol.in

System Control

Load Break Switch

Construction

The 11KV/22KV Load break switches are manufactured suitable for mounting on a panel. The load break switches are manufactured in two types- SYSAIR and SYSCOM. SYSSAIR is snap action type SYSCOM is compressed air quenching type. The SYSAIR type load break switch offers a simple and compact construction with epoxy insulators, double switch blades, forged contacts with arc quenching chamber, lagging pin and loop less current path. The Nylon/FRP insulation makes the switch light weight with greater electrical safety and mechanical strength. LBS Panel is available in free standing Indoor/Outdoor type and RMU type configurations.

The main frame is welded steel structure and the contacts are mounted on epoxy insulators. The upper fixed contact houses the arc quenching chamber and the connection terminal. The switch is also equipped with spring-assisted mechanism due to which constant speed is achieved during opening and closing operation. The switch is also provided with stored energy tripping device.

Special Features

- Compact and reliable design.
- Rated SC making capacity up to 20 KA (RMS) 50 KA (PEAK) and make/break up to 630A.
- Tripping initiation by means of fuses or relays.
- The dry type arc quenching chambers join two switch principle for safe disconnections of heavy and small current.
- Nylon/FRP insulation provides lighter weight, greater electrical safety and higher mechanical strength to the switch.

Optional Mechanically interlocked earth switch.

Fully Tested at C.P.R.I.

Technical Data			Standard	Available Combinations
Parameter	Description		Aux Switch 1 NO + 1 NC or 2 NO + 2 NC or 4 NO + 4 NC	Load Break Switch + Aux Switch Load Break Switch + Aux Switch + Earth Switch Load Break Switch + Aux Switch + Fuse Trip Mech Load Break Switch + Aux Switch + Fuse Trip Mech + Shunt Trip Load Break Switch + Aux Switch + Fuse Trip Mech + Shunt Trip + Earth Switch
Designation	11 KV	22 KV		
	SYSAIR 126325	SYSAIR 246325		
Type of Break	Air Break	Air Break		
Rated Voltage	12 KV	24 KV		
Rated Insulation Voltage	28 KV RMS / 75 KV PEAK	50 KV RMS / 125 KV PEAK		
Rated Current	630 A	630 A		
Rated Frequency	50 Hz	50 Hz		
No. of Phase	3	3		
No. of Break / Pole	Single	Single		
Rated Short Circuit Withstand Current	25 KA	25 KA		
Rated Short Circuit Peak Withstand Current	63 KA	63 KA		
Rated Short Circuit Making Capacity	20 KA RMS / 50 KA PEAK	20 KA RMS / 50 KA PEAK		
Applicable Standard	IS-9920	IS-9920		

- Technical specifications may change due to constant improvements.

Works:
System Control
MFRS : HT Switchgear & LT Panel Boards
New No.83, Fairlands
Salem, Tamil Nadu
India 636 016

Ph: +91 427 244 7004
Fx: +91 427 244 5003

www.systemcontrol.in
info@systemcontrol.in

System Control

Procelain Clad Vacuum Circuit Breakers

System Control

33 KV PCVCB

Construction

The outdoor porcelain clad vacuum circuit breakers (PCVCB) are manufactured in 11KV, 22KV and 33KV configurations. The Porcelain Clad Vacuum Circuit Breakers manufactured are of SYSVAC - PCVCB Type. These PCVCB's are widely used in outdoor substations.

These breakers are supplied with a lattice structure made of Galvanized Iron and the breakers are mounted on this arrangement.

The breaker can be mounted on a plinth of adequate height to meet the statutory requirement of clearances of HT live parts to ground level. The PCVCB is of open terminal type construction with vacuum interrupter housed in weather proof porcelain insulators. The manual/motor spring charging mechanism and closing/tripping coils are housed inside the sheet metal enclosure that conforms to IP55 protection.

Optional Features

- CT & PTs (oil filled/DRY outdoor type)
- C&R Panel (Indoor/Outdoor)
- Mounting Structure for CTs & PTs

Our Outdoor PCVCB is completely type tested at CPRI, Bangalore and KERI, South Korea.

11 KV PCVCB

Fully Tested at C.P.R.I.

M2 CLASS VCB

Technical Data	11 KV PCVCB	33 KV PCVCB
Type	SYSVAC-PCVCB	SYSVAC-PCVCB
Voltage	12 KV	36 KV
Current	600/800/1250/2000 A	600/800/1250/2000 A
Symmetrical Breaking Capacity	20/25/40 KA	20/25/40 KA
Short Circuit withstand current duration	3 Sec	3 Sec
Making Capacity (KA Peak)	50/63/100 KA	63 KA
Insulation Level a. Power Frequency Withstand (KV RMS) b. Impulse Withstand (KV Peak)	28 KV 70 KV	70 KV 170 KV
Normal Operating Duty	0-3min-CO-3min-CO	0-3min-CO-3min-CO
Auto Re-closing Duty	0-.3sec.-CO-3min.-CO	0-.3sec.-CO-3min.-CO
Auxiliary Switch	8 NO + 8 NC	8 NO + 8 NC
Applicable Standard	IEC 62271 - 100 / IS13118	IEC 62271 - 100 / IS13118
Enclosure Standard	IP 55	IP 55

- Technical specifications may change due to constant improvements.

Works:
System Control
MFRS : HT Switchgear & LT Panel Boards
New No.83, Fairlands
Salem, Tamil Nadu
India 636 016

Ph: +91 427 244 7004
Fx: +91 427 244 5003

www.systemcontrol.in
info@systemcontrol.in

System Control

Vacuum Load Break Switch

System Control

Construction

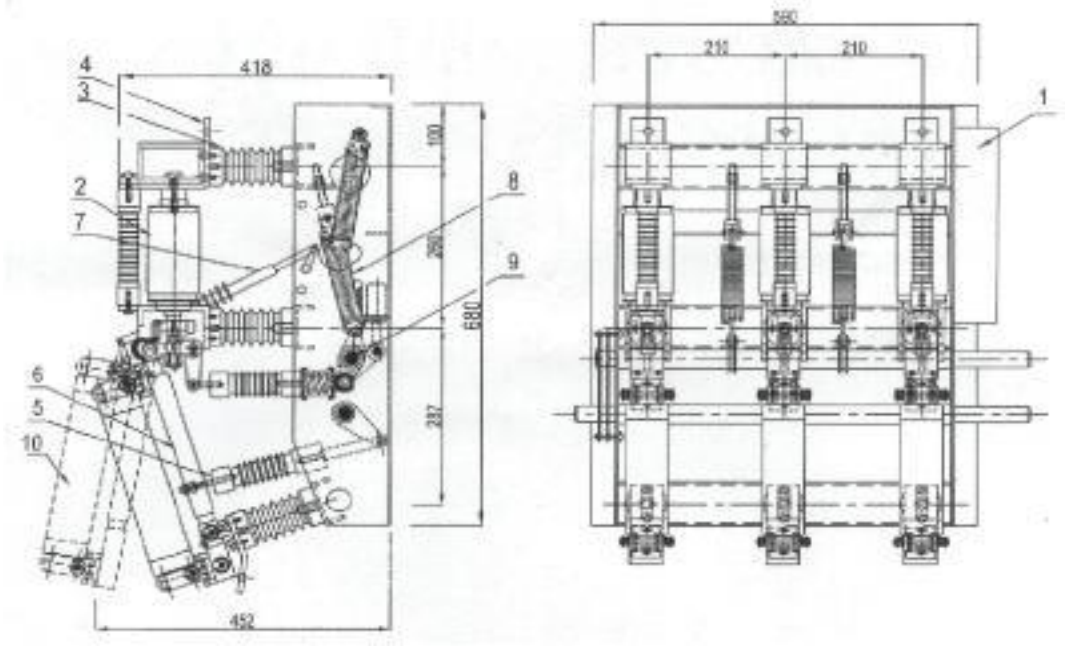
Vacuum Load Break Switch is an evolution from conventional load break switches in that it uses vacuum interrupters to extinguish the arc. The Load Break switch is metal enclosed and can be provided in Indoor or Outdoor configuration. Additional earth switch and fuses for fuse trip mechanism can also be provided. The Vacuum Load Break Switch is functionally robust, trouble free, easy to maintain and completely safe for the operator.

Salient Feature

- Motorized Operation.
- Shunt Trip Coil.
- Fuse Tripping Mechanism.
- Visible indication of contacts opening based on double break arrangement

Advantages

- Increased number of switching operation.
- Ideally suited for Capacitor switching in 11 Kv Systems in APFC panels.
- Trouble free operation.
- Extremely safe.
- Increased number of mechanical & electrical operations.
- Conventional Air Break Switch need maintenance & replacement of Arcing contact tips. In Vacuum LBS it is virtually maintenance free.



Fully Tested at C.P.R.I.

01. Mechanism
02. Vacuum Interrupter
03. Support Insulator
04. Top Terminal Support
05. Insulating Arm
06. Disconnect Blade
07. Fuse Trip Arm
08. Opening Spring
09. Main Shaft
10. Fuse

Technical Specification

Description	Data		
Rated Voltage	12 kV	24 Kv	36 Kv
Rated Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Rated Current	630 A	630 A	630 A
Rated active load breaking current	630 A	630 A	630 A
Rated closed loop breaking current	630 A	630 A	630 A
5% of active load breaking current	31.5 A	31.5 A	31.5 A
Rated breaking current of charging cable	10 A	10 A	10 A
Power Frequency Withstand Voltage	28 kV	61 Kv	82.5 Kv
Lightning Impulse Withstand Voltage	75 kV	125 Kv	170 Kv
Rated Short Time Withstand Current (3 Sec)	20 kA	20 kA	20 kA
Rated Short circuit making current	50 kA	50 kA	50 kA
Mechanical Life	10000	10000	10000
Applicable Standard	IEC 60265 / IS 9920	IEC 60265 / IS 9920	IEC 60265 / IS 9920

▸▸ Technical specifications may change due to constant improvements.

Works:
System Control
MFRS : HT Switchgear & LT Panel Boards
New No.83, Fairlands
Salem, Tamil Nadu
India 636 016

Ph: +91 427 244 7004
Fx: +91 427 244 5003

www.systemcontrol.in
info@systemcontrol.in

System Control

Compact RMU - Type Sysvac-RMU

System Control

Construction

The Compact ring main unit from System Control is a unique product that can be constructed based on specific customer requirements. The construction is modular and the combination of the RMU is based on the nature of application. A standard RMU is made of two vacuum isolators and one vacuum circuit breaker where one vacuum isolator is used as incoming, breaker is used as feeder and one vacuum isolator is used for T-OFF.

Special Features

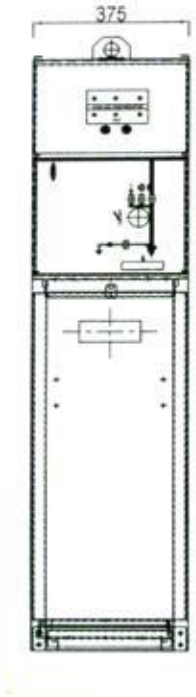
- Self powered relays with ring type CT's
- Voltage Indication using Live Line Indicators.
- Completely Eco –friendly.
- Vacuum RMU Conforms to Green Switching Technology Standards

Optional Features

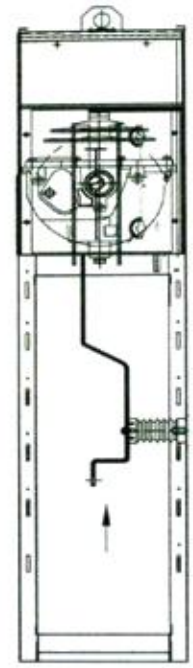
- Isolators can be Vacuum or SF6
- Vacuum Load Break Switch can be provided in place of Vacuum Isolators.
- VCB can be fixed type or Draw out type.
- Vacuum Load Break switch can be provided with Motorized Operation.
- Earth switch can be provided in breaker and or Vacuum Isolator / Vacuum LBS compartments.
- Fuse Trip arrangement and fuses can be provided in Vacuum LBS Compartments.
- Conventional CTs and PTs for Metering and protection.

SF6 LBS

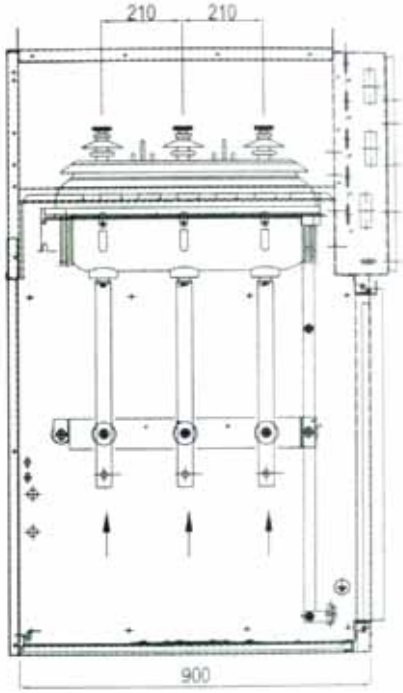
System Control



Front View

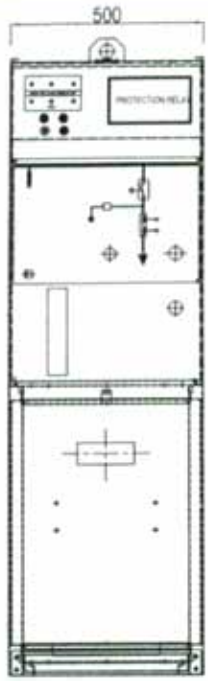


SEC – Front View

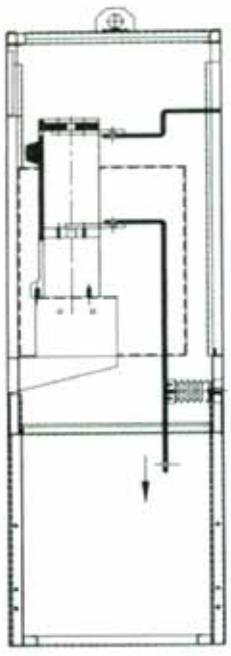


L.H.S View

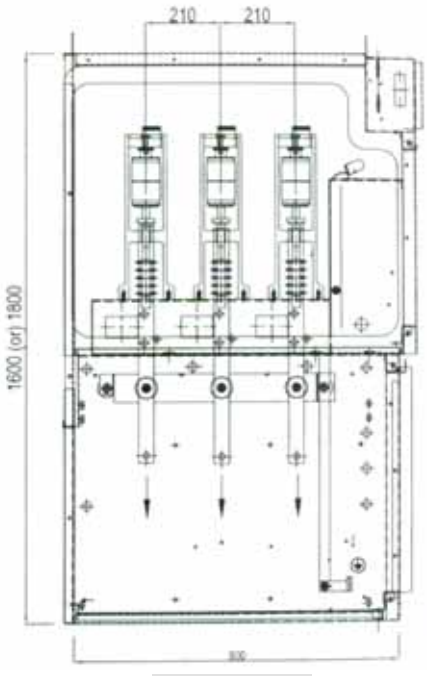
VCB



Front View



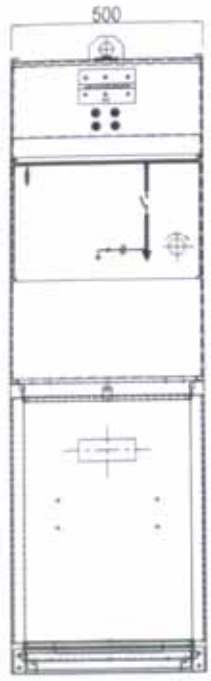
Rear View



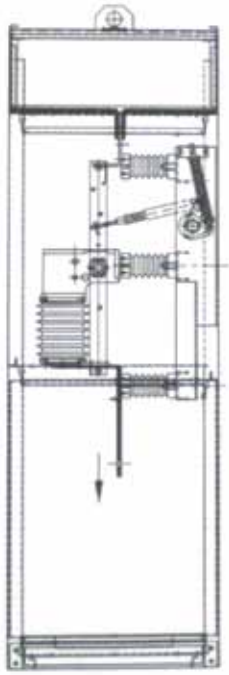
L.H.S View

VACUUM LBS

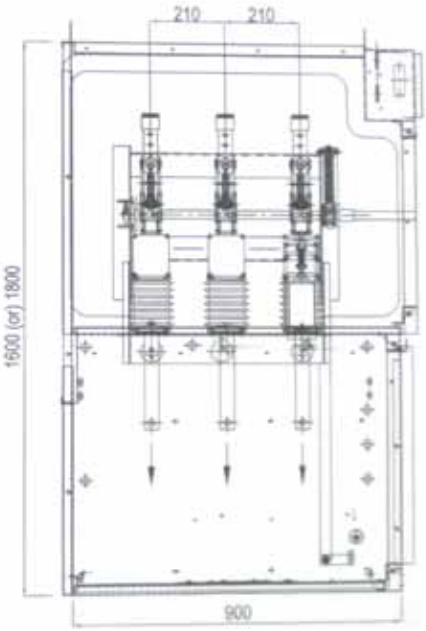
System Control



Front View

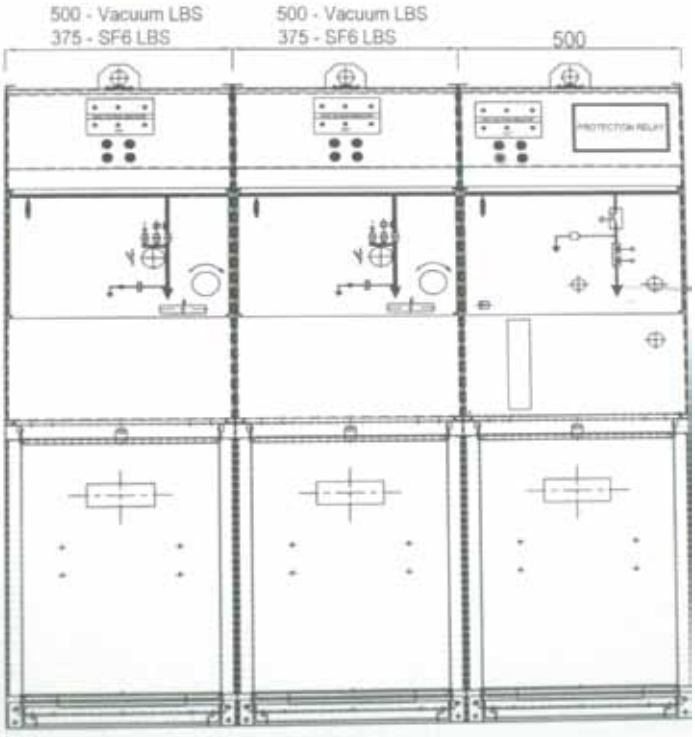


SEC – Front View



L.H.S View

General Arrangement



Fully Tested at C.P.R.I.

Technical Specification

Description		Data
Rated Voltage		12 kV
Highest working voltage		12 kV
Rated Frequency		50/ 60Hz
Main Busbar Rated Current		630 A
Short time withstand current		20 kA/3s
Peak withstand current		50 kA
Short-circuit making current		50 kA
Fuse Breaking current		31.5 50kA
Mechanical Life		2000
Power Frequency withstand Voltage		42/48 kV
Lightning Impulse withstand Voltage		75/85 kV
Protection Degree		IP 3X
Dimension Details	SF6 Medium RMU	1250mm X 900mm X 1800mm
	Vacuum Medium RMU	1500mm X 900mm X 1800mm
Applicable Standard	Vacuum Circuit Breaker	IS 13118, IEC 62271
	Vacuum Load Break Switch	IS 9920, IEC 60265

- Technical specifications may change due to constant improvements.

Works:
System Control
MFRS : HT Switchgear & LT Panel Boards
New No.83, Fairlands
Salem, Tamil Nadu
India 636 016

Ph: +91 427 244 7004
Fx: +91 427 244 5003

www.systemcontrol.in
info@systemcontrol.in

System Control

Capacitor Switch - Type - Sysvac-CAP

System Control

Construction

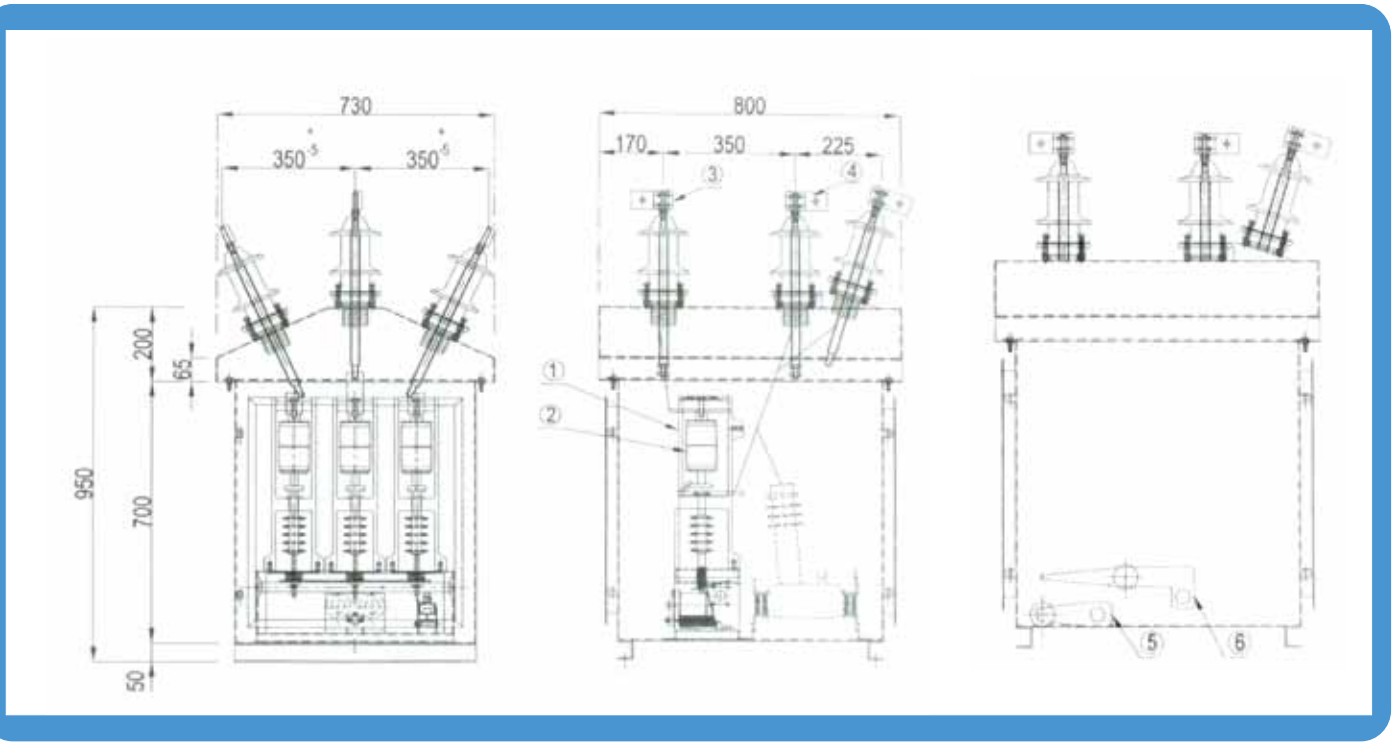
Capacitor switches are suitable for mounting on a power systems network for improving the power factor. The Capacitor switch is made up of special HT vacuum switching facility with self latching arrangement housed in sheet metal enclosures. The current and voltage sensors like CT and PT are mounted inside the cubicle along with fuses. Advanced solid state PCBs are used for automatically sensing the change in voltage and current values and this information is used for automatically switching ON and switching OFF of HT capacitor banks besides protecting the capacitor against High voltage. The entire unit is tested at CPRI Bangalore.

Special Features

- Compact and robust design
- Automatic time delay settings for switch ON and switch OFF of HT capacitor banks.
- Comprehensive design enabling switch ON and switch OFF of HT capacitor banks based on different values of voltage and current with necessary overriding conditions.

Optional Features

- Mechanical Interlocks.
- Pole mounted lockable control unit.
- Electrical/manual mode selector switch.
- Mechanical switching arrangement with delayed action facility.



1. Vacuum Switch
2. Vacuum Interrupter
3. Terminal Incoming
4. Terminal Outgoing
5. Manual Trip Lever (OFF)
6. Manual Close Lever (ON)

Fully Tested at C.P.R.I.

Technical Specification

Description	Data
Rated Voltage	12 kV
Rated Current	400 A
Lighting Impulse Withstand Voltage	75 kV
Power Frequency Withstand Voltage	28 kV
Rated Short-time current	12.5 kA/3s
Rated Short-time making current	31.5 kA/3s
Applicable Standard	IS 9920, IEC 60265

- Technical specifications may change due to constant improvements.

Works:
System Control
MFRS : HT Switchgear & LT Panel Boards
New No.83, Fairlands
Salem, Tamil Nadu
India 636 016.

Ph: +91 427 244 7004
Fx: +91 427 244 5003

www.systemcontrol.in
info@systemcontrol.in

System Control

system control

One / Two / Three Pole Vacuum Circuit Breaker with Magnetic Actuator Mechanism

SYSTEM CONTROL - SYSVAC-M is a reliable & maintenance free vacuum circuit breaker, consists of advanced, high performance magnetic actuator and electronic controller eradicating the need of numerous moving parts.

Applications

- Unmanned Substations
- Distribution Substations
- Railway and Metro Lines
- Paper, Steel, Textile, Chemical, Automobile Industries, Furnaces
- Finds universal applications from substations to all types of heavy industries

Fully Tested at

Key Features

- Simple and compact design
- Proven concept of electronic controlled magnetic actuator
- Less spare parts (60% reduction in spare parts compared with motor-spring mechanism)
- Latching and release by magnetic actuator controlled by electronic unit
- Longer life (1 Lakh operations) for Actuator
- Maintenance free operations
- Self-diagnosing control unit with fault signalling communicable with SCADA
- Available in One / Two / Three Pole configurations
- Easy installation and commissioning
- Low power consumption
- Few moving parts
- Magnetic VCB can operate for 30 sec even after complete input power failure
- VCB can be opened by emergency manual operating system
- Electronic controller is designed suitable for universal power supply (110/220 AC/DC)
- Continuous monitoring and display of charge status of individual trip and close capacitor assembly

MAKE IN INDIA

URS is a member of Registrar of Standards (Holdings) Ltd

Technical Details	12 kV
Rated voltage	12 kV
Rated continuous current	630 A / 800 A / 1250 A
Rated frequency	50 Hz
Number of phases	1 / 2 / 3
Rated short circuit breaking current	25 kA
Rated short circuit making current	62.5 kA
Rated short time current, 3 sec	25 kA
Rated power frequency withstand voltage	28 kV (RMS)
Rated impulse withstand voltage	75 kVp
Operating mechanism	Magnetic Actuator
Operating cycles of magnetic actuator	...100000
Power consumption at rest	< 10 W
Power consumption after an autoreclosing cycle	< 100 W
Power supply to Electronic controller	110 / 220 AC / DC
Opening Time	35 - 40 ms
Closing Time	45 - 55 ms
Minimum command time on closing	4 ms
Minimum command time on opening	4 ms
Height	950 mm
Depth	600 mm
Width	560 mm
Weight	110 kg.

✦ Technical specifications may change due to constant improvements.

Works :
SYSTEM CONTROL
Mfrs. : HT Switchgear & Panel Boards
379, Anna Nagar, Uttarappan Kadu, Maniyanoor, Salem, India - 636 010.
Ph. : **+91 94881 89406, +91 94881 89407**
Web : www.systemcontrol.in
e-Mail : sales@systemcontrol.in

BRANCH OFFICE
No. 2 (1A), 2nd Floor, Umapathi Street Extn.,
West Mambalam, Chennai - 600 033,
Tamilnadu, India.
Ph. : +91-44-2483 8221
+91-44-2483 9177
e-Mail : marketing@systemcontrol.in

Outdoor Pole Mounted ONLOAD BREAK SWITCH

system control

Construction

The Outdoor pole mounted on load break switches are meant for switching of feeder lines, ring mains or transformers.

The uniqueness of the product allows utilities to isolate the line manually without having to switch off upstream equipment as these are operable on load. The product can be mounted either vertically or horizontally based on site conditions.

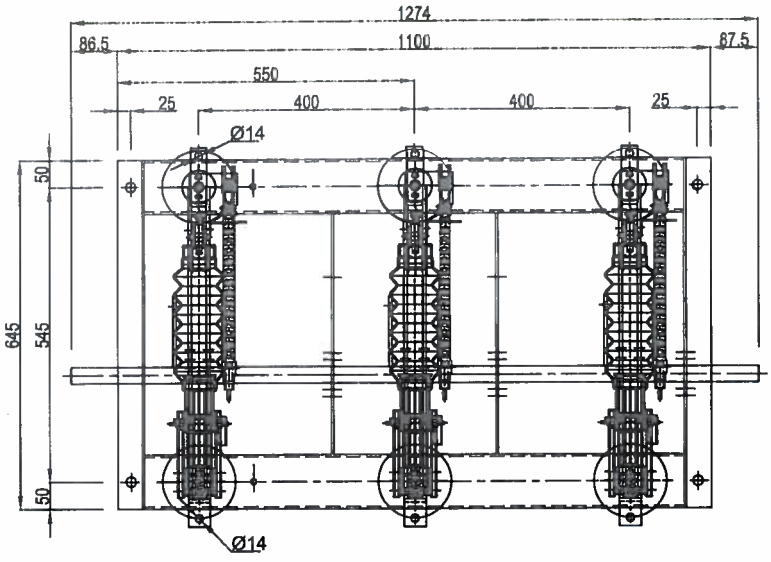
The current paths are formed by double isolating knives and line contacts of electrolytic copper.

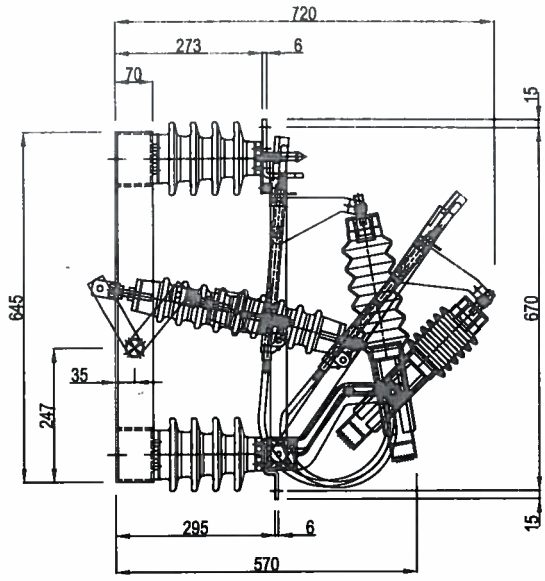
The frames are hot dip galvanized and switch shafts are arranged in maintenance free bearings. Porcelain / outdoor epoxy resin insulators are used for mounting the switches. Arc quenching medium is made of light weight synthetic material and arc is extinguished by principle of evaporation of hard gases.

URS®

ISO 9001 : 2015 Certified

Credibility, Confidence, Commitment and Competitive





Technical Data	11kV LBS
Type	Sysair-pm
Voltage	12kV
Current	400A/630A
Transformer off - Load Breaking Capacity	1250kVA
Cable Charging and Line Breaking Current	35A
Closed Loop Breaking Current	400A
Short Circuit Current	25kA for 1 sec
Peak Withstand Current	63kA
Lightning Impulse Withstand Voltage	75/85kV
Applicable Standard	IEC 60265

Fully Tested at C.P.R.I

Optional Features

1. Motorised operation
2. Interlocked Earth Switch
3. Single/double Pole configuration
4. Fuse tripping arrangement

» Technical specifications may change due to constant improvements.

Works:
SYSTEM CONTROL
MFRS : HT Switchgear & Panel Boards
379, Anna Nagar, Uttarappan Kadu, Maniyanoor, Salem,
India - 636 010.
Ph: **+91 94881 89407, +91 94881 89406**
www.systemcontrol.in
systemcontrolvcb@gmail.com

BRANCH OFFICE
No.2 (1A), 2nd Floor,
Umapathi Street Extension,
West Mambalam, Chennai,
India - 600 033.
Phone : 044 - 24838221
Email : marketing@systemcontrol.in