



Porcelain clad vacuum circuit-breakers (PCVCBs) are designed & manufactured for outdoor applications for switching & protection in medium voltage transmission & distribution networks keeping in mind the tropical climate. Simple construction & less number of moving parts ensure reliable service & safety.

## **SPCV12-VC32** **SPCV36-VC53** **SPCV40-VC73**

### **PORCELAIN CLAD OUTDOOR VACUUM CIRCUIT-BREAKERS**



#### **Salient Features**

- Virtually maintenance free
- High availability through spring charge spring operated mechanism
- Single unit - easy to transport & ready to install
- Simple & safe to operate
- Modular construction for ease to maintain
- Compact & rugged design for outdoor application
- Well proven vacuum interrupters for switching functions
- Long electrical & mechanical life
- Adequate ground & sectional clearances as required
- Suitable for rapid auto-reclosing duty
- Fully type tested at NABL accredited lab such as CPRI & ERDA as per latest IEC 62271-100, IEC 62271-1 & IS 13118
- Type tested for class M2 (10,000 operation)
- Specially type tested for Seismic test at 0.6g
- Compatible for remote & SCADA operations
- Mechanical on/off & spring charged indications visible without opening the front door
- Sealed Poles to prevent ingress of moisture
- Front access to operating mechanism

### Applications

- Transmission & distribution networks
- Switching duties of capacitive load such as station capacitors, cables & overhead lines
- Switching duties of inductive load such as transformers, reactors & motors
- Onerous applications of rapid auto-reclosing

### One Stop Solution

- As an ideal solution, the circuit-breaker can be supplied along with CRPs (Control & Relay Panels), outdoor CTs & VTs and Isolators as a whole unit for electrical networks in the field of transmission & distribution.

### Optional Features

- Inert gas filled poles
- External emergency trip push button on the front door
- Castel Lock for mechanical interlock with Isolator
- Higher Creepage for more polluted sites of installation
- Electrical on/off & spring charged indications visible without opening the front door
- Higher Insulation levels when installing at elevated altitudes
- Closing & Opening releasesuitable for low wattages, operations at low supply voltage, faster operating times

### Accessories

- The supplied CB is with foundation bolts, operating handles & terminal connectors.

### Technical Specifications

Details	Units	SPCV12-VC32	SPCV36-VC53	SPCV40-VC73
Rated Voltage	kV	12	36	40.5
Rated Normal current	Amps	630 / 1250 / 1600	800 / 1250 / 1600	1250 / 1600 / 2000
Basic insulation level	kVrms/kVP	28 / 75	70/170	85/185
Rated Frequency	Hz	50	50	50
Rated short-circuit breaking current	kA	13.1/25	26.3	31.5
Rated short-circuit making current	kAp	32.75 / 62.5	65.75	78.75
Duration of rated short-circuit current	s	3	3	4
Rated operating sequence	-	O-0.3s-CO-3min-CO		
Creepage of porcelain insulators	mm	500	900	
Voltages of Closing & Opening releases	V DC	24/30/110/220		
Operating mechanism	-	Spring charged spring operated		
Class M2 tested	Nos.	10,000 operations		

- There is a continuous effort at Stelmec to keep abreast of latest technology inline with customers' requirement.
- All these activities are followed as per ISO 9001 : 2008.