



SPCV27.5-VC20

PORCELAIN CLAD OUTDOOR SINGLE POLE VACUUM CIRCUIT BREAKERS

Single pole porcelain clad vacuum circuit breakers (PCVCB) are designed & manufactured for outdoor application 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.

Salient Features

- Virtually Maintenance Free
- High Availability Through Spring Charge Spring Operated Mechanism
- Single Unit - Easy to Transport & Ready to Install
- Modular Construction for Ease of Maintenance
- 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
- Mechanical On/Off & Spring Charged Indications
- Visible Without Opening The Front Door
- Sealed Poles to Prevent Ingress of Moisture
- Front Access to Operating Mechanism
- Design for Special requirement of RDSO



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

Optional Features

- External Emergency Trip Push Button On The Front Door
- 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 Releases Suitable for Low Wattages, Operations at Low Supply Voltage

One Stop Solution

As an ideal solution, the Single pole Circuit Breaker develop for switching application for RDSO requirement of power supply system at 27.5kV. Interrupter design to suite a lightning impulse withstand voltage for 250 kVp. Confirms to IEC 62271-100, IEC 60694, RDSO Specifications

Accessories

- The Supplied Circuit Breaker is with Foundation Bolts, Operating handles & Terminal Connectors.

Technical Specifications

Details	Units	SPCV27.5-VC20
Rated Voltage	kV	27.5
Rated Normal Current	A	2000
Basic Insulation Level	kVrms/kVP	95/250
Rated Frequency	Hz	50
Rated Short-Circuit Breaking Current	kA	20
Rated Short-Circuit Making Current	kAp	50
Duration of Rated Short-Circuit Current	s	3
Rated Operating Sequence	-	O-0.3s-CO-15s-CO
Creepage of Porcelain Insulators	mm	
Voltages of Closing & Opening Releases	V DC	24/30/110/220
Operating Mechanism	-	Spring type or Magnetic Actuator

- There is a continuous effort at Stelmec to keep abreast of latest technology in line with customers' requirements and hence the product specifications are subject to change.
- Products described in this catalogue are manufactured and supplied according to Certified Management System ISO 9001:2015.