

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

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

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

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 customer requirements and hence the product specifications are subject to change.
- Products described in this catalogue are manufactured and supplied according to the Certified Management System ISO 9001:2015.