



SIVP12

12kV AIS VCB PANEL

An Air-Insulated Switchgear (AIS) Panel is a type of electrical switchgear that uses air as the primary insulating medium to protect live conductors and prevent electrical faults. These panels are commonly used in utility & industrial applications due to their reliability, and ease of maintenance.

AIS panels are ideal for indoor and outdoor applications, providing a dependable solution for power distribution and protection systems.

Salient Features

- Compact, Sturdy with Extensible Design
- Less Maintenance & High Reliability
- Draw-out VCB with Compartmentalized Design
- Long Electrical & Mechanical Life
- Conforms to IEC 62271-100 & 200 / IEC 62271-1 / IS 13118
- VCB Type Tested For E2, C2, M2 Class
- Internal Arc Tested For 12kV, 40kA IAC AFLR for 0.1 & 1 sec
- Seamless Integration with SCADA Network for Remote Operation and Control
- Closed Door Operation ensuring Enhanced Safety
- Motorized VCB Rack In and Rack Out (Optional)
- Front Operated Earth Switch

Application

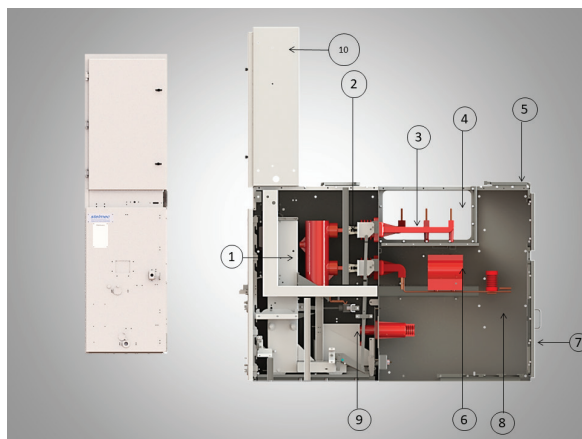
- Utilities and Power Plants
- Steel, Infrastructure, Commercial Buildings, Hospitals, Data Center, etc
- Switching Duties for Capacitor & Motors



Technical Data

Parameters	Unit	SIVP 12 - VC32	SIVP 12E - VC32E	SIVP 12 - VC40
Rated Voltage	kV	12	12	12
Rated Frequency	Hz	50	50	50
Rated Main Bus Bar Current	A	Up to...2500	3000	Up to...4000
Rated Feeder Current	A	Up to...2000	2000	Up to...3150
Rated Insulation Level	kV	12/28/75	12/28/75	12/28/75
Rated Short Time Current for 3 Sec	kA	26.3	31.5	40
Rated Short-Circuit Breaking Current of The Circuit Breaker	kA	26.3	31.5	40
Rated Short-Circuit Making Current of The Circuit Breaker	kA	65.75	79	100
Rated Operating Sequence		O-0.3Sec-CO-3min-CO		
Internal Arc Test	Sec	26.3kA/0.1 & 1sec	31.5kA/1 sec	40kA/0.1/1 sec

Panel Overall Dimensions				
Height (H)	mm	2200	2200	2400
Width (W)	mm	600/630/700	700	800/1000
Depth (D)	mm	1650/1800	1800	1700
Degree of Protection for Enclosure		IP5X / IP4X		
Applied Standard		IEC 62271-100 & 200		



Typical G.A Drawing for Incomer Panel

Description

1. Breaker Chamber
2. Jaw Contact
3. Spout Bushing
4. Bus Bar Chamber
5. Pressure Relief Flap
6. Current Transformer
7. Rear Cover
8. Cable Chamber
9. Potential Transformer
10. Instrument Chamber

Each panel consists of a single unit that can be equipped with Vacuum Circuit Breaker, Vacuum Contactors, Load Break Switch or Switch-Disconnecter, as well as all accessories for the switchgear's conventional units. Each panel provides a cubical in the upper part for auxiliary instrumentation.

- 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.