

OUTDOOR VACUUM CIRCUIT BREAKER

Circuit Breaker including Retrofit Offering

One Stop Switching Solutions

S&S Power Switchgear offers a full line of Indoor & Outdoor Circuit Breakers to help meet many of your application needs. With voltage range up to 36kV, current range up to 2000A and a large variety of functions, these components are used in multiple industries. Over 15,000+ have been already installed worldwide.

COMPANY HISTORY

S&S Power Switchgear Ltd (S&S) was established in 1975 in Technical collaboration with Brush Fusegear, UK for manufacture of Fuses. S&S introduced High Voltage Disconnecting Switches in 1978 collaborating with Southwales, UK. S&S indigenously developed Outdoor Porcelain Clad Vacuum Circuit Breaker and introduced for the first time in Indian market.

S&S became the industry leader in the country in sales and market shares in Medium Voltage and High Voltage Disconnecter Industry.

The factory has state-of-the-art manufacturing facilities to produce high quality equipment. A world class Factory in Puducherry houses all third generation equipment and provides low cost high quality manufacturing facility for Disconnectors.

The products of S&S have been tested in internationally renowned Laboratories- Kema Holland and CESI-Italy. The type test conducted include Ice Breaking test for High Altitude installation of these Disconnectors.

S&S continues its success march backed by a strong team of quality Engineers and a fully equipped

in house Research and Development.

S&S is the only company in India to have sold more than 18,000 nos of Circuit Breakers and more than 25,000 nos of Disconnectors to all major Utilities in India and Worldwide.

S&S continues its thrust and introduced wide range of products to meet the customer's changing needs which are their core strength in staying ahead successfully in the competitive market.

Careful selection of automatic and semi-automatic machines enables S&S to manufacture quality products to meet the stringent customer requirements.

THE COMPANY

S&S Power Switchgear Equipment Ltd has its Disconnector manufacturing unit at Puducherry in India. S&S Power Switchgear Ltd has its Circuit Breaker manufacturing unit at Maraimalai Nagar in Chennai, India. S&S also has a group company called Acrastyle Limited located in the United Kingdom who is the world leader in design and manufacture of Control and Protection for Power Generation, Transmission & Distribution Systems and Acrastyle Power (India) Ltd our Indian Engineering and CRP manufacturing setup located at Maraimainagar near Chennai.



OUTDOOR VACUUM CIRCUIT BREAKER TYPE OFVp12&36 RANGE

INTRODUCTION :

Pioneering zeal of S&S created the first indigenously made Outdoor Porcelain Clad Vacuum Circuit Breaker in the country. With further innovative skills S&S made this Circuit Breaker meet highly demanding needs for performance from all quarters like Consultants, Contractors, Industries and Utilities. Today more than 18,000 of this Circuit Breaker are in operation worldwide. Outdoor Porcelain Clad Circuit Breaker for 12kV & 36kV type OFVp12 & OFVp36 resp. is the most reliable and cost effective solution for distribution at 12kV & 36kV.

The Circuit breaker is fully Short Circuit tested in the international testing laboratory of CESI, Italy to the relevant IEC specifications and caters for all climatic conditions.

THE CIRCUIT BREAKER

Each phase of the three phase circuit breaker is self contained in a porcelain bushing, which houses the Vacuum Interrupter. This also contains incoming and outgoing terminal connections at the top and bottom of the bushing. This porcelain bushing is supported by another porcelain bushing which contains the drive rod for the interrupter.

All associated live parts within the vacuum interrupter housing bushing are surrounded by favorable climate. Simultaneously the porcelain bushing is fully sealed to protect the interrupter from adverse weather and polluted environments.

The creepage of the interrupter surface being fixed, the porcelain protection ensure that the Circuit Breaker operates in atmosphere of varying degrees of degrees of pollution from saline atmosphere, flue, gasses, dust etc.

They are suitable for direct connection to overhead line and cables.

THE VACUUM INTERRUPTER

OFVp12 & OFVp36 employs rated Vacuum Interrupters as an arc extinguishing medium.

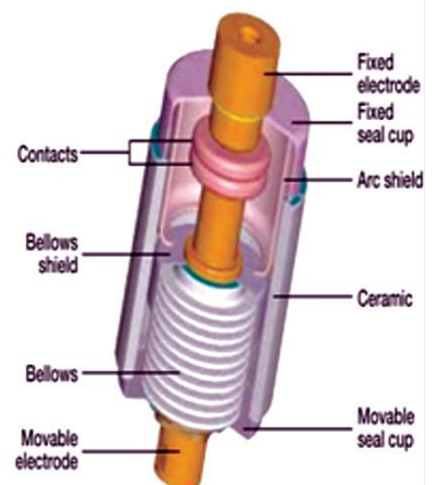
These interrupters are procured from the most renowned and best manufacturers of the world. The interrupters are suitable for large number of full short circuit operations of more than 20,000 operations at thermal rating and 50,000 mechanical operations.

Our Vacuum Interrupter Advantages:

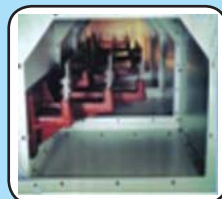
- Very low arcing time
- Quick recovery of dielectric strength
- Small contact gap
- Minimum Maintenance
- Low energy mechanism

Special Features:

- Compact Design
- Low Operational load
- Low maintenance
- Minimal free hazard
- Low noise level
- Extended life
- Sleek & Compact look
- Easy accessibility for servicing



OUTDOOR VACUUM CIRCUIT BREAKER



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INSTRUMENT TRANSFORMER

Current transformer and potential transformer suitable for outdoor application can be provided for mounting on cantilever type support structure as package wherever required.

CONTROL PANEL

Indoor/Outdoor type Control and Relay panels housing the meter, relays, switches, etc. suitable for structure mounting on to the VCB structure or for separate plinth mounting can be provided along with the Vacuum Circuit Breaker.

SPECIAL APPLICATION

In addition to transformer and feeder switching where outdoor vacuum circuit breakers are widely used, OFVp-12 & OFVp-36 is capable of switching circuits for the following applications:

- Capacitor Switching
- Furnace Switching

Applicable standard	: IEC 62271-100	IEC 62271-100
Type designation	: OFVp12	OFVp36
Normal Voltage	: 11kV	22/33kV
Rated voltage	: 12kV	24/36kV
Frequency	: 50Hz	50Hz
Normal rated current	: upto 1600 Amps	upto 1600 Amps
Short Circuit Breaking Capacity	: upto 25kA	upto 25kA
Rated 1minute power frequency		
Withstand Voltage	: 28 kV rms	50/75 kVrms
Rated impulse withstand voltage	: 75 kV peak	125/170 kV peak
Nominal creepage of bushings		
Support Interrupter housing	: 400 mm	910 mm
	: 400 mm	910 mm
Duty Cycle-full breaking capacity		
Normal	: 0-3MIN-CO-3MIN-CO	0-3MIN-CO-3MIN-CO
Auto reclose	: 0-0.3 SEC-CO-3MIN-CO	0-0.3 SEC-CO-3MIN-CO



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