

# VOX

## Outdoor Dead Tank Circuit Breaker



Distribution companies are facing ever-increasing challenges to improve the service quality and reduce operation cost of their network. VOX outdoor dead tank circuit breakers provide a reliable, cost effective solution for outdoor substation equipment.

The sealed-for-life, maintenance-free tank enables customers to reduce the cost of inspection and maintenance. In addition, the high-endurance mechanism contributes to further enhance the reliability of VOX reducing overall lifetime costs.

Flexible and easy to upgrade, VOX is the ideal, cost-effective choice for both dead and live tank applications, especially when complex protection and current transformer schemes are needed.



### CUSTOMER BENEFITS

- Reduced life-time costs
- Minimal maintenance required
- Small footprint for distribution breakers from 25.8 kV and above
- Out-of-phase switching for decentralized generation (windfarms)
- Suitable for high-speed auto-recloser switching
- Suitable for capacitor bank switching

### A new generation of dead tank circuit breakers

VOX combines the best new and proven technology for outdoor distribution applications up to 38 kV.

Schneider Electric's latest range of vacuum interrupters are housed in a fully welded, sealed-for-life, stainless steel tank, providing a controlled gas insulated environment totally immune from external ambient conditions. A spring charged mechanism provides manual or motorized circuit breaker operation.

VOX has been designed and tested to meet the requirements of the relevant applicable IEC, BS, AS, ANSI, IEEE, GOST and GB standards.



**Ease of installation**

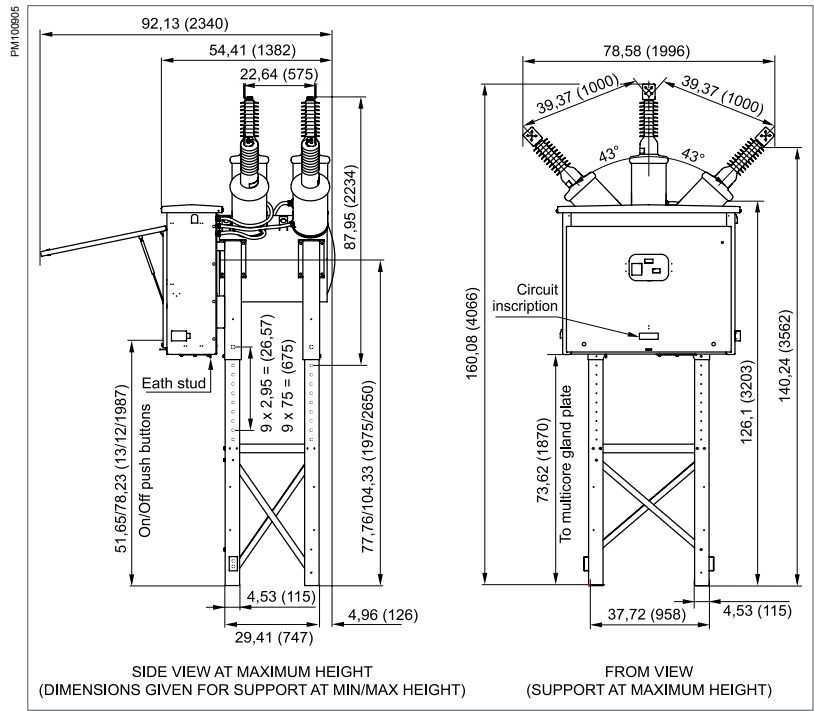
The compact, lightweight design of the VOX makes it easy to transport, handle and install.

The separate support frame can be pre-installed to accept the breaker tank and the control cabinet. Height can be adjusted within a range of 27 inches (675 mm).

**Ease of use**

Provisions for current transformers is available on all six polymer bushings which are external from the sealed circuit breaker tank.

Mechanical circuit breaker and spring status indications are easily viewable from ground level. An easily accessible cabinet houses the operating mechanism, control and protection equipment, with ample space to accommodate auxiliary equipment.



Technical characteristics		IEC/BS/AS	ANSI	GOST/GB
Rated maximum voltage	kV	36	38	40.5
Rated impulse withstand voltage	kVp	170/200	200 (258 kVp chopped wave)	190
Power frequency withstand voltage	kV	70/80/95	80	95
Rated continuous current	A	1 200 / 2 000		
Rated withstand current (3s)	kA	25 / 31.5 / 40		
Rated arc fault containment	kA	25-1s / 31.5-0.5s		
Rated short circuit breaking current	kA	25 / 31.5 / 40		
Closing and latching capability	kAp	65 / 82 / 100		
Operating sequence		OCO-15s-CO O-0.3s-CO-15s-CO		
Number of operations at rated current		10 000		
Number of operations at short circuit current		100		
Gas fill pressure	bar	0.5		
Control voltage	VDC	24,48,125, 250		
	VAC	120, 240		

Environment	
Operating temperature range	°C - 40 to + 40 (option - 60 to + 55)
Relative humidity	% 0 - 100
Altitude (maximum for quoted ratings)	ft / m 10 000 / 3 000
Seismic withstand	g 0.5

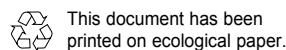
**Optional equipments**

- Accommodation for additional current transformers
- Gas density monitoring
- Surge arresters
- Recloser configuration with auxiliary voltage transformer and protection relay
- Possibility of "Bay Module" installation with disconnectors, earthing switch, VT's, CT's, SA...

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As standards, specifications and designs change from time to time, please ask for confirmation of the information given in this publication.



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