

## PVB-S

# Pole mounted outdoor vacuum circuit breaker

ABB PVB-S outdoor vacuum circuit breaker is dead tank, pole mounted device used for protection of medium voltage overhead lines.

PVB-S is an SF<sub>6</sub>-insulated, vacuum interrupting, outdoor pole mounted circuit breaker for overhead lines and specifically designed for use in modern remote controlled distribution automation systems. It also provides maximum functionality and mounting flexibility suitable for a variety of applications. Years of knowledge and modular manufacturing technique allows PVB-S to meet any need, including various protections requirements under the most common concerns for the distribution network, making and breaking short-circuit current, and others. PVB-S has a very good performance on frequent operation occasions, and PVB-S can meet specific applications such as reclosing sequences with high reliability and electrical service lifetime. PVB-S can be manually operated or motor operated for local and remote electric control, and can be easily upgraded.



### PVB-S highlighted features

- Suitable for DA application
- Contacts in vacuum environment to avoid oxidation and contamination
- High quality, 3 mm stainless steel tank designed for maximum robustness and minimum welding line to minimize corrosion
- Advanced laser cutting, CNC bending and robot welding to ensure high reliability on sealing
- ABB globally recognized vacuum interrupter
- Modularized and reliable spring mechanism minimizes operating energy and ensures longer mechanical life
- Status indicators visible from distance
- Offers reliable maintenance free operation even in the most demanding climatic conditions including salt laden atmospheres, corrosive industrial pollution, snow and ice
- The motor drive device can easily be retrofitted on site to manually operated units.
- E2-M2 class

## Technical data

Parameters			Unit	Values
Rated voltage Un			kV	12
Rated current In			A	630
Rated frequency			Hz	50/60
Ambient temperature			°C	-45~+55
Dielectric test	Power frequency withstand voltage, 50/60 Hz/1 min	To earth and between phases	kV	48
		Across the isolating distance	kV	55
	Lightning impulse withstand voltage	To earth and between phases	kV	85
		Across the isolating distance	kV	96
Short-circuit breaking current/operations			kA/n	25 kA/30
Short-circuit making current (peak)			kA	63
Short time withstand current/duration			kA/s	25 kA/4 s
Rated operating sequence				O-0.3 s-180 s(15 s)-CO
Mechanical mechanism type				Spring mechanism
Pollution level as per IEC 60815				Very heavy
Ingress protection degree				IP67
Mechanical endurance (number of close-open operations)				10,000
Electrical endurance				10,000
Filling pressure (+20°C)			kPa	101

Publication No. 1VXA140010-en, 201503

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