

PB69

PB72.5

Superior Performance

The PB72 breaker family delivers superior performance with advanced spring and interrupter technology:

- Tested to L30 line fault duties for proper interruption at short-circuit levels
- First-pole-to-clear factor of 1.5 at 170kV for ungrounded and improved grounded system performance
- High asymmetry ratio of 33, nearly double the standard
 17
- 50kA short-time current test, 25% above standard, with no deformation or welding of contacts
- Certified for fast transient recovery rise times per ANSI C37.06.1

Ease of Maintenance

Maintenance is simplified with built-in lube fittings on all main bearings, hand-charging via a standard wrench, and auxiliary switches mounted directly on the mechanism—eliminating the need for special tools or linkage adjustments.

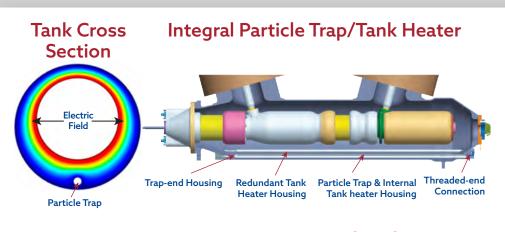


PB72 Breakers - Performance, Reliability, Simplicity

Family of Breakers

72.5kV • 40kA

The PB72 Family of High-Voltage Dead-Tank Circuit Breakers (38.5–72.5kV) combines proven performance with easy maintenance and long-term reliability. With advanced insulation, efficient heating, and customizable options, they deliver dependable protection in even the toughest conditions.



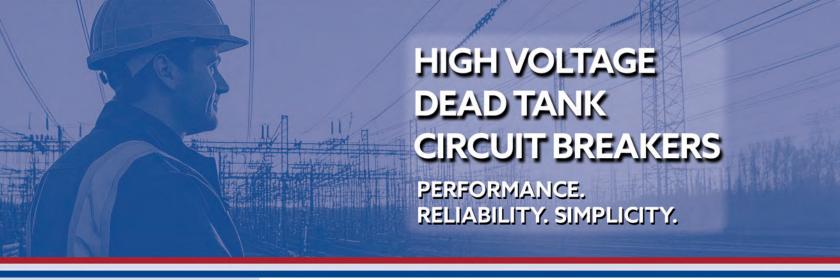
Design Features

Integral Particle Trap: Improved dielectric performance is achieved through the patented particle trap design, integral to each interrupter's enclosure. The trap collects particles and arc byproducts during breaker operation, electrically shielding them at the enclosure's lowest point.

Internal Tank Heater

The internal tank heater efficiently warms the interrupter's SF6 gas by being installed inside the tank, unlike conventional external heaters. The heater element can be replaced within minutes without opening the tank or removing the SF6 gas.





Standard Features

- Integral particle trap
- Composite insulators
- Galvanized support frame
- Powder-coated NEMA 3R control cabinet
- · Stainless steel door handles
- · Stainless steel SF6 tubing
- Ganged SF6 monitoring
- SAE hardware
- Fully assembled shipments

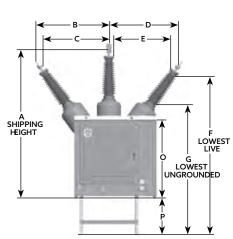
Optional Features

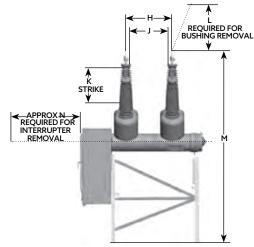
- Low-temperature performance to -55°C
- ASME Pressure Vessel Certification
- · Internal tank heater
- Porcelain insulators
- Extra-high creep/high-altitude insulators
- · High seismic performance
- Individually-phased SF6 monitoring
- NEMA four-hole universal positioning terminals
- NEMA 4X mechanism/control cabinet
- Custom control package
- Extra auxiliary contacts
- Custom support structure
- Side-mounted position indicator for long-distance viewing



Pennsylvania Switchgear uses advanced design tools to develop modern circuit breakers faster, delivering the industry's fastest mechanisms and highest X/R ratings.

Inches	Α	В	С	D	Е	F	G	Н	J	K	L	М	N	0	Р
PB72	114	57	51	54	42	122	100	35	28	27	22	147	84	58	30





RATINGS	PB123-40					
Standards	ANSI/IEEE					
Maximum Voltage	72.5kV					
BIL	350kV					
Frequency	60Hz					
60HzWithstand	160kV					
Short-Circuit Current	40kA					
Continuous Current	2kA/3kA/4kA					
Interrupting Time	3 cycles					
Duty Cycle	O-0.3s-CO-15s-CO					
Temperature	-55°Cto+50°C					
Altitude above sea level	up to 3,300ft					
Seismic (IEEE 693-2005)	High					
Normal Operating	90psig@20°C					
Pressure						
Minimum pressure to	76psig@20°C					
interrupt fault current						
Minimum pressure to	76psig@20°C					
interrupt load current						

Operating Mechanism



Spring mechanism ensures reliable 3-cycle performance with low maintenance, easy access, and part replacement without disassembly.

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