

BEP Series High Voltage Solid Seal Vacuum Circuit Breaker



► General

BEP series high voltage solid seal vacuum circuit breaker is a high voltage indoor switch-gear with rated voltage 12kV, three-phase AC 50Hz. It's third generation vacuum circuit breaker of which the vacuum extinguish arc part and conduct connector are made of epoxide resin being cast into pole with special technique, and to be installed on Vs1 mechanism to produce.

► Main Technical Characteristic

1. The application of the miniaturization super-low resistance vacuum extinguish arc part.
 2. The inside and outside dual-skirt ledge design of the solid seal pole installation side
 3. High reliability, extinguish arc exempt-maintain
 4. Miniaturization design of phase distance can be reduced to 30~60mm.
- The operation of the product is spring storage power pattern, and can be operated electrically or manually.

► Main Technical Parameter

Number	Item		Unit	Data	
				31.5kA	40kA
1	Rated voltage		kV	12	
2	Maximum working voltage		kV	12	
3	Rated current		A	1250,1600	2000
					2500,3150
4	Rated short circuit breaking current		kA	31.5	40
5	Rated short circuit breaking current (peak value)		kA	80	100
6	Rated peak value withstand current		kA	80	100
7	4s rated short time withstand current		kA	31.5	40
8	Rated insulation level	Power frequency withstand voltage	kV	42(fracture 48)	
		Impulse withstand voltage		75(fracture 85)	
9	Rated sequence of operations			O-0.3s-CO-180s-CO	
10	Mechanical life		Time	20000	
11	Breaking times for rated short circuit breaking current		Time	50	
12	Operating voltage		V	110,220(DC or AC)	
13	Clearance between open contacts		mm	11 ± 1	

Vacuum Switch Series

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Following above table

Number	Item		Unit	Data
14	Distance travel		mm	3 ± 0.5
15	Three-phase opening/closing asynchronous		ms	≤ 2
16	Contact closing bounce time		ms	≤ 2
17	Average opening speed		m/s	$0.9 \sim 1.2$
18	Average closing speed		m/s	$0.6 \sim 0.8$
19	Opening time	Under highest operation voltage	ms	≤ 0.05
		Under lowest operation voltage		≤ 0.08
20	Closing time		ms	≤ 0.1
21	Each phase main loop resistance		$\mu \Omega$	≤ 35
22	Moving and fixed contact permission attrition accumulation thickness		mm	3

► Overall and installation dimensions

