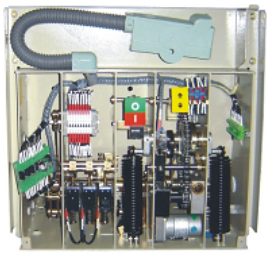
VS1 Spring Operating Mechanism

Summary

VS1 Spring operating mechanism applies to indoor three-phase AC 50Hz and rated voltage 12kV. This product conforms to standards of IEC62271 & GB/T1984 AC High-voltage circuit breaker, JB3855: 3.6~40.5kV indoor AC High-voltage vacuum circuit breaker, DL403: 10~35kV Indoor HV vacuum circuit-breaker technical instruction. VS1 limited-purpose spring operating mechanism can be mounting inside handcart and fixed switchgear. It can service for a long time, featuring with easy maintenance without noise, pollution and explosive danger. It applies to occasions with frequent operation and other rigorous conditions.



Ambient condition

1. Altitude: ≤1000m;
2. Ambient temperature: -25℃ to +40℃;
3. Relative humidity: daily average ≤95%, monthly average≤90%;
4. Earthquake intensity: ≤8 degree.

Model

VS 1 12 / 630, 1250, 1600, 3150, 4000

- 630, 1250, 1600, 3150, 4000 — Rated current
- 12 — Rated voltage
- 1 — Design serial No.
- VS — Indoor vacuum circuit breaker

Product feature

VS1 modle vacuum circuit-breaker is a type of indoor switch component of rated voltage 12kV, AC 50/60Hz. it conforms to standards in GB1984, DL403 and IEC62271. The CAD and dynamic simulation analysis programs keep the VCB operation in good state. The molybdenum disulphide oilless bearing decreases the VCB from too much maintenance. The product needs no cooling equipment even under rated current 3150A. The product is capable to control and protect electricity distribution system with normal performance, fault performance and short-circuit performance, also to break and make short-circuit frequently. Both midship mounting and fixed mounting are available.

Technical specification

1.Closing/opening electromagnetic technical parameter

	Closing coil	Opening coil	Over-current trip coil	
Rated operate voltage(V)	DC220, AC220	DC220, AC220	Rated current(A)	3
	DC110, AC110	DC110, AC110		
Coil power(w)	302	302		5
Normal working voltage range	85%~110% of rated voltage	65%~120% of rated voltage		

2. Technical specification of storage motor

Model	Rated voltage	Rated input power (W)	Normal working voltage range	Storage time under rated voltage(s)
ZYJ55-1	AC,DC110; AC,DC220	75	85%~110% rated voltage	12

3. Scheme of secondary control circuit

Control voltage	Interlock device	Jump resistance	Over-current trip		No-voltage and lack of voltage
○AC220	Yes	Yes	Yes	Triple over-current	Yes
○DC220	Yes	Yes	Yes	Secondary over-current	Yes
○AC110	No	No	No		Yes
○DC110	No	No	No		Yes