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VS1/C-12 Series Indoor High Voltage Vacuum Circuit Breaker With Lateral Operating Mechanism

General Description

VS1/C-12 type Side installation indoor high voltage vacuum circuit breaker used spring to storage energy. The operating mechanism can be operated by two ways: by manual and electromotive operation. The characteristics is according with GB1984-2003 High Voltage AC Circuit Breaker, JB3855-1996 3.6-4.5KV Indoor AC High Voltage AC Circuit Breaker and IEC standard 62271-100:2001 High Voltage AC Circuit Breaker.

Applying ambient conditions

1.Ambient temperature: -25℃ ~+40℃ ;
2.Relative humidity: the average humidity of a day should be no more than 95%; the average humidity of a month should be no more than 90%;
3.Saturated vapor pressure: the average pressure of a day should be no more than 2. 2kPa, the average humidity of a month should be no more than1.8kPa;
4.Earthquake intensity: not exceed 8 degrees;
5.Height above sea level: ≤1000m(not including special requirements);
6.Environmental conditions: It should be used in the places without fire, explosion, serious filth, chemical erosion and violent VSLration.

Typical wiring diagram of the second principle

S.N	Name		Unit	Data	
1	Rated voltage		kV	12	
2	Rated frequency		HZ	50/60	
3	Rated insulation level	1 min power frequency withstand voltage	KV	42	
		Rated Lightning Impulse voltage tolerance	KV	75	
4	Rated current		A	630	1250
5	Rated short circuit breaking current		KA	20	20
				25	25
					31.5
6	Rated short-circuit making current (peak)		KA	50	50
				63	60
					80
7	Rated heat-stable time		S	4	
8	Rated operating sequence			0-0.3s-C0-180s-C0	
9	Mechanical endurance		Cycle	30000	

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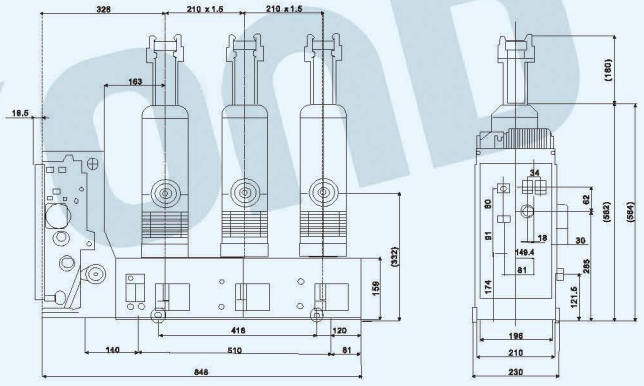
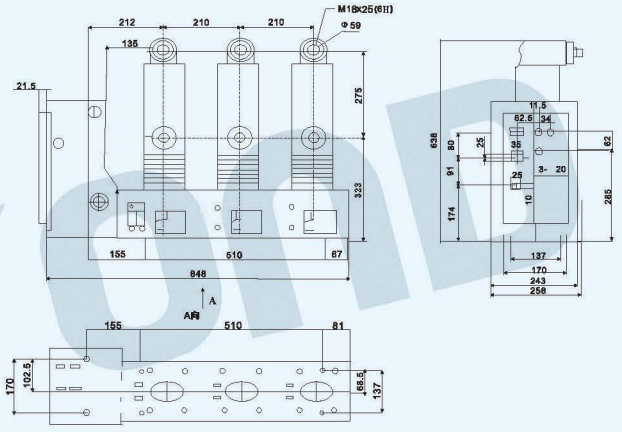
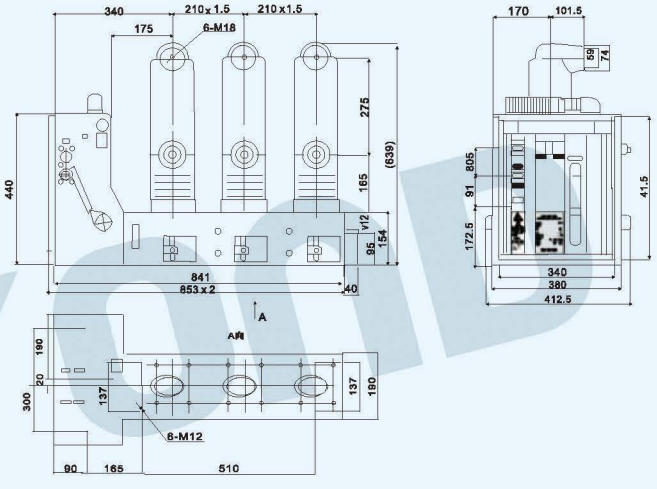
Overall Outline Drawing



VSL/CX-12(210) Overall Outline Drawing



VSL/CX-12(230) Overall Outline Drawing



VSL/CX-12(380) Overall Outline Drawing

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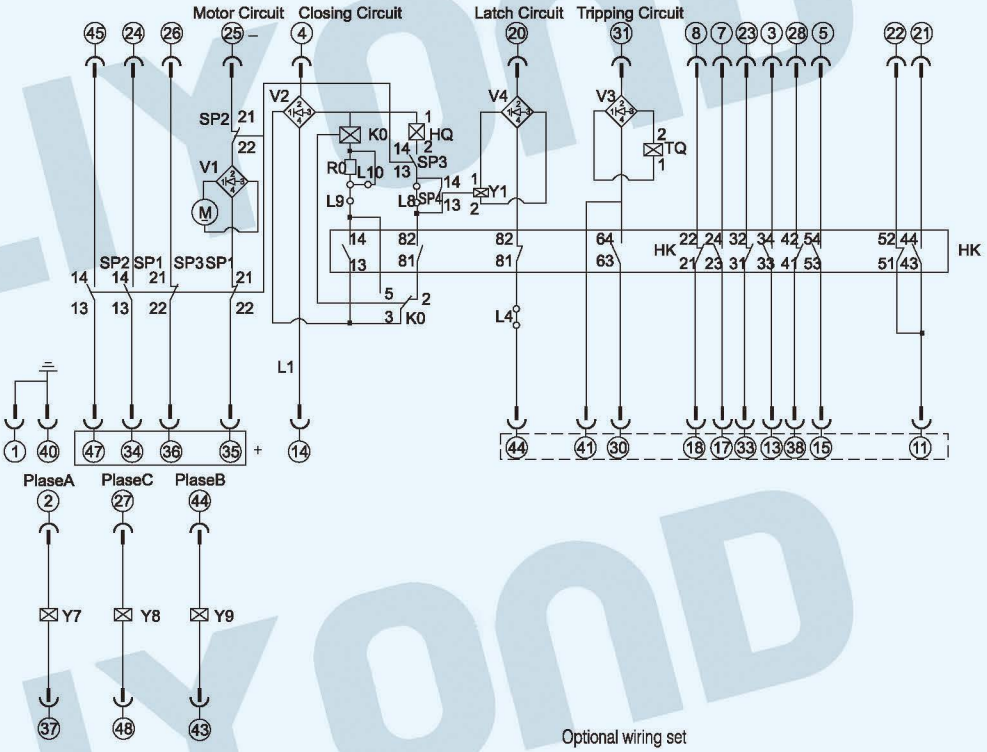
Typical secondary wiring diagram for fixed type vacuum circuit breaker



Note:
1. "/" means disconnect; "√" means connect.
2. Switchgear status: off, without energy storage; the truck is in test position.
3. When the operation source is D.C, the polarity within dashed box is equivalent.
4. When the user choose 46 air pug, 47 wire size should be changed to 32, 48 to 42, 49 to 10.

Optional wiring set

Configuration: Jumper	Jumper status	a-b L1	d-c L4	i-j L6	l-k L9
With anti-jump	With interlock	√	√	√	√
	No interlock	/	/	/	/
No anti-jump	With interlock	√	√	√	√
	No interlock	/	/	/	/

SP5 : : limit switch
SP1~SP4 : micro switch (used to switch the energy storage spring)
HK : auxiliary switch (used to switch the operation of closing and opening)
V1~V4 : bridge rectifier (canceled when it' s DC)
Y1 : closing coil (optional)
KO : anti-jump relay (optional)
Y7~Y8 : indirect over current trip (optional)
L1~L11 : wire jumper
HQ : closing coil
TQ : tripping coil
M : storage motor

Operating power source

Source Jumper: Operatingpower	1-m L10
AC/DC220V	/
AC/DC110V	√

VSL/C (210) Vacuum Circuit Breaker Internal Secondary Wiring Schematic Diagram

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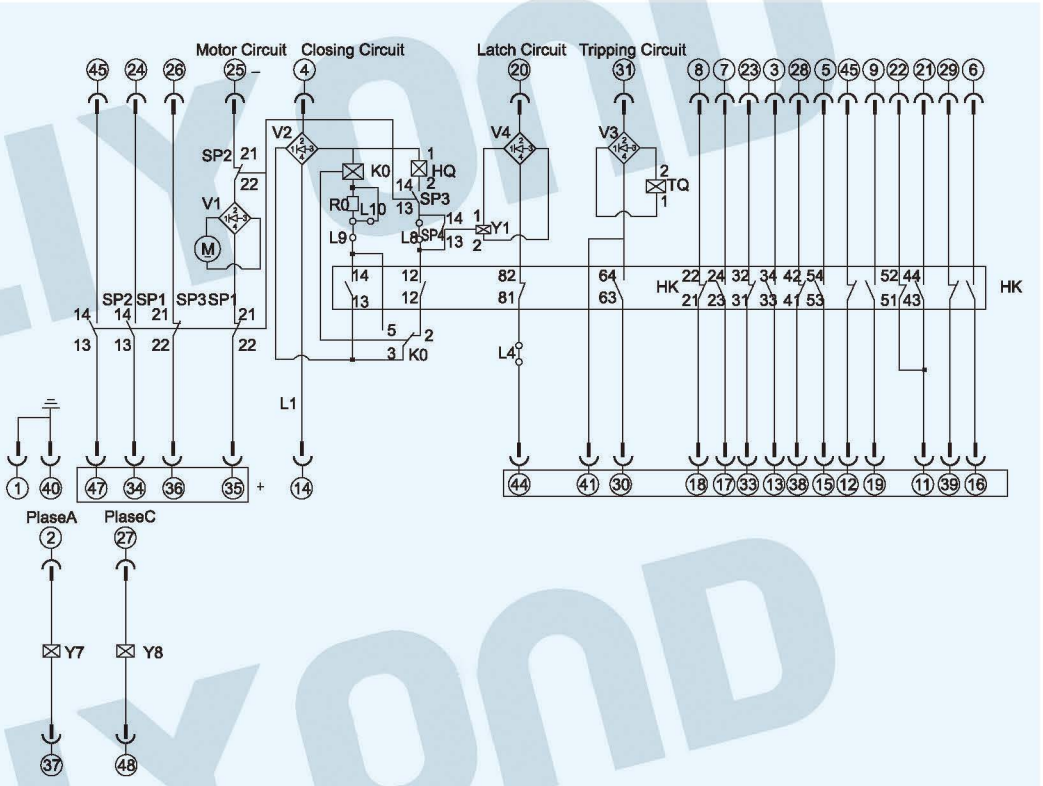
Typical secondary wiring diagram for fixed type vacuum circuit breaker



Note:
1. Switchgear status: off, without energy storage; the truck is in test position.
2. When the operation source is D.C, the polarity within dashed box is equivalent.
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V1~V4 : bridge rectifier (canceled when it' s DC)
Y1 : closing coil (optional)
KO : anti-jump relay (optional)
Y7~Y8 : indirect over current trip (optional)
L1~L11 : wire jumper
HQ : closing coil
TQ : tripping coil
M : storage motor

Optional wiring set

Configuration / Jumper status		A9-A10
With anti-jump	With interlock	/
	No interlock	√
No anti-jump	Disconnect HK13、HK14	

Operating power source

Source Jumper / Operatingpower	1-m L10
AC/DC220V	/
AC/DC110V	√

Lateral Type Vacuum Circuit Breaker Internal Secondary Wiring Schematic Diagram