Part III Other Accessories

Circuit breaker mechanical characteristic monitoring module

With high-precision sensors and data collection technology, the module monitors the operation of switchgear in real time and sends alerts when abnormal situations occur.



Mechanical characteristic component

Electric switch cart control module

The controller uses a high-performance 32-bit processor, which can quickly detect abnormal conditions, brake the motor and sends alarm signals. With soft start, the module allows easy switch between manual and electric operation. The control module can operate on both strong and weak current inputs to achieve electrical interlocking/control.



Electric chassis cart accessories

Circuit breaker online temperature module

With the latest-generation of passive RFID wireless technology, the module is highly reliable and accurate. It is also small in size, easy to install, adaptable to various applications.



Temperature monitoring module

Part I Indoor High Voltage Vacuum Circuit Breaker

I. Product description

The VS1 series is the latest indoor high-voltage vacuum circuit breaker, suitable for substations, power plants, petrochemical plants and other engineering projects that require frequent operation. The VS1 series is suitable for the electrical facilities in three-phase AC current system with rated voltage of 3.6~24kV and frequency of 50Hz for controlling and protecting equipment.

With the latest-generation of modular spring operating mechanism, the product has passed M2/C2/E2 class tests. Both air insulated (with epoxy resin) and solid sealing pole (with automatic pressure gelation technology) types are available.

We offer 12kV/24kV circuit breakers with different rated current:

12kV	Rated current of 12kV	630A 1250A 3150A 4000A 5000A
	Rated short-circuit breaking current	25kA 31.5kA 40kA 50kA
24kV	Rated current of 12kV	1250A 3150A
	Rated short-circuit breaking current	31.5kA

Technical specification:

GB/T 1987-2014, JB/T 8738-2008 and IEC 62271-100:2017.

2. Working environment	
Altitude	2000m
Ambient temperature	Indoor: -15°C to 40 °C; daily average 35°C
Ambient humidity	Daily average 95%, monthly average 90% (relative to +25°C)
Pollution conditions	No more than secondary degree







3. Technical features

Flexible and highly compatible

- Spring operating mechanism or permanent magnetic operating mechanism for selection
- Secondary plug: 58pins or 64pins for selection
- Fully compatible with main stream interrupter brands

4. Technical parameter

Electrical parameter				
Rated voltage	kV	12	24	
Rated frequency	Hz	50		
Rated power frequency withstand voltage (1min)	kV	42(fracture 48)	65 (fracture 79)	
Rated lightning impulse withstand voltage	kV	75 (fracture 85)	125 (fracture 145)	
Control circuits frequency withstand voltage(1min)	V	2000		
Supply voltages of control circuits	V	DC110/220, AC110/220		
Rated current	A	630 1250 3150 4000 5000	1250 3150	
Rated short circuit breaking current	kA	25 31.5 40 50	31.5	
Rated short-time withstand current (4s)	kA	25 31.5 40 50	31.5	
Rated short-circuit closing current	kA	63 80 100 125	80	
Rated peak withstand current	kA	63 80 100 125	80	
Rated breaking current of single/back-to-back capacitor bank	A	630/400 800/400	630/400	
Rated operation sequence		O- s-CO-180s-CO		

Mechanical parameter				
Mechanical life	Times		10000	
Rated short circuit current breaking times	Times		30	
Contact erosion limit	mm		3	
Opening time	ms	50	30±10	
Closing time	ms	70	45±10	
Contact closing bounce time	ms		2	
Cincultaneity of poles during closing and mening	ms		2	

s: 400 and 5000 are under wind poling conditions;

for circuit bre ers with eclosic function is 0.3 s; For circuit aker eithout rec. Ing fun

Part II Handcart Accessories

(1) Isolation handcart

Used in PT cabinets (fxed installation of PT and other components) bus-tie cabinets

4 Grounding handcart

Used during switchgear testing and maintenance when busbars connect to the ground wire

(2) Fuse handcart

Used in substation transformer cabinet or PT cabinet (PT and lightning arrester are installed in switch cabinet)

5 Undermount lighting arrester handcart

Applied in the front lower section of the PT cabinet and can be used together with a PT handcart



3 Fuse & lighting arrester handcart

Used in PT cabinet (PT fxed installation)

6 Valve inspection handcart

Technical parameter Unit Data Rated voltage kV 12 24 Rated frequency Rated power frequency withstand voltage (1min) kV phase to phase/ phase to earth 42 phase to phase/ phase to earth 65 phase to phase/ phase to earth 75 Rated lightning impulse withstand voltage kV phase to phase/ phase to earth 12 Interphase center distance 275 ± 2

 Weight
 Kg
 100
 200

 Dimens
 r
 640*504*596
 838*770*747