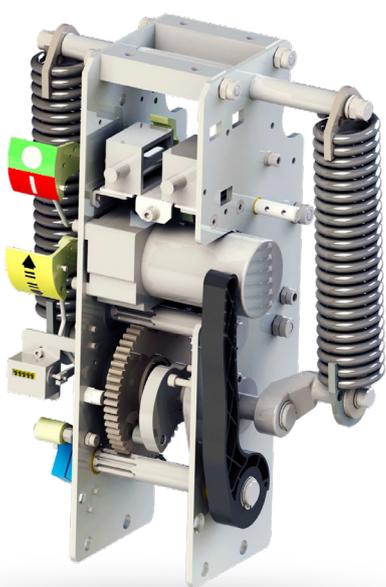
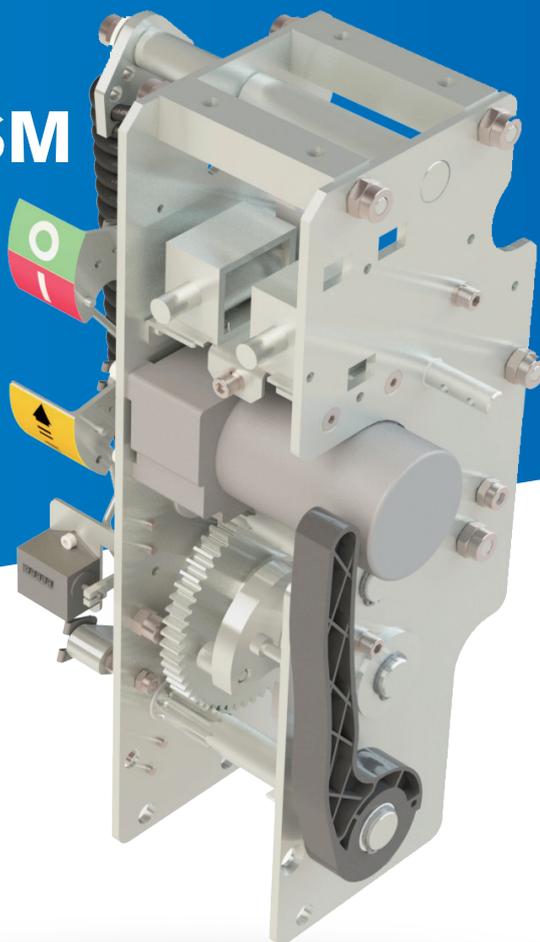


YAOZE SKM-12 MODULAR CIRCUIT BREAKER MECHANISM



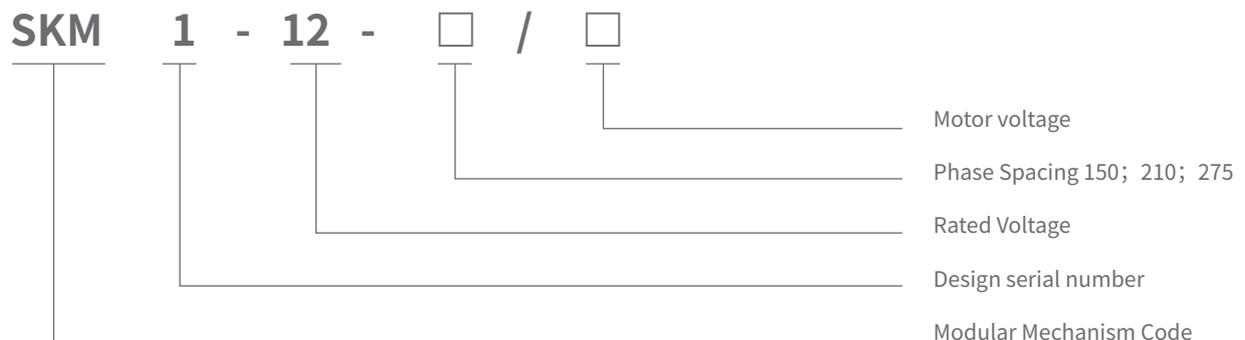
SKM-12 CIRCUIT BREAKER SPRING OPERATING MECHANISM



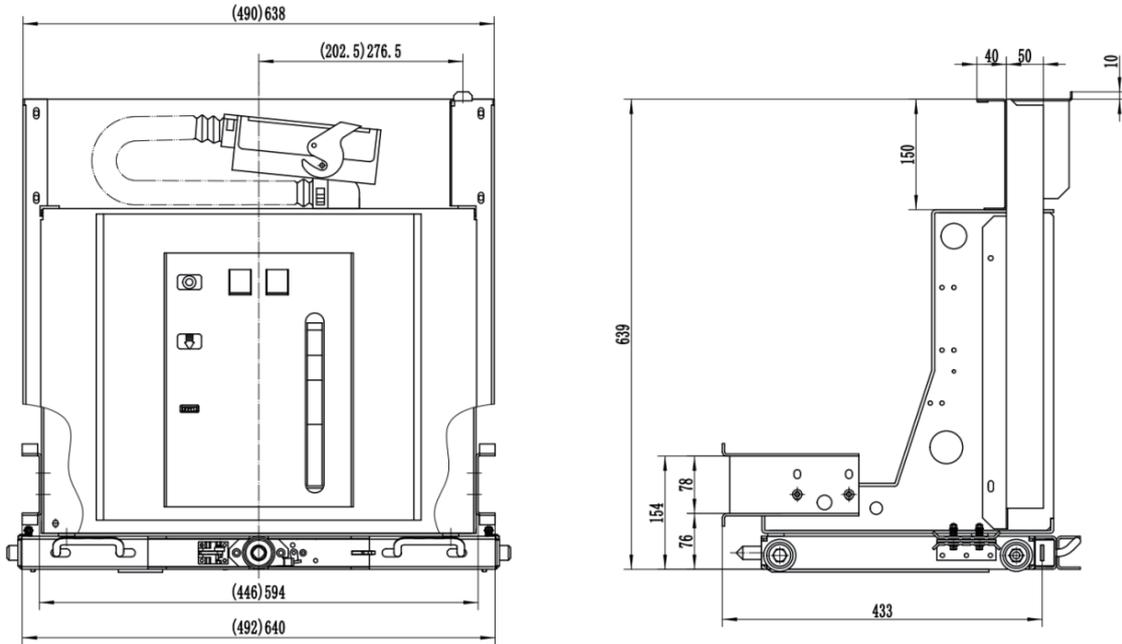
Product Overview

The spring operating mechanism adopts an independent design from the frame. It can be used either as a fixed installation unit or assembled with a withdrawable truck to form a draw-out unit. It features long service life, simple maintenance, no pollution, no explosion risk, and low noise, and is suitable for harsh working conditions such as frequent operations.

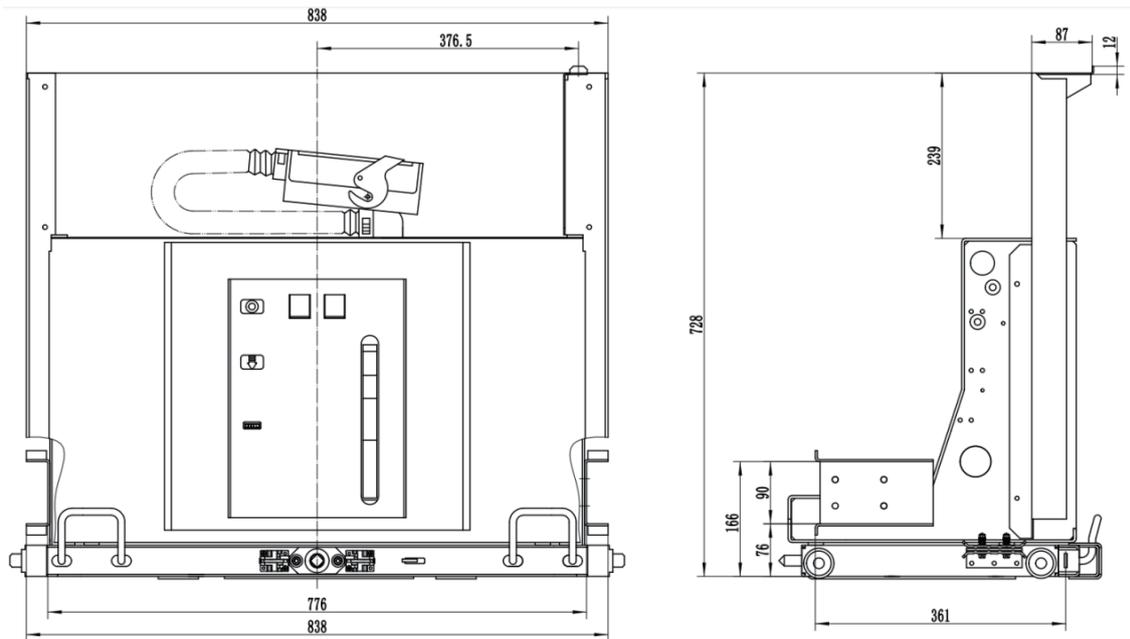
Model Composition And Meaning



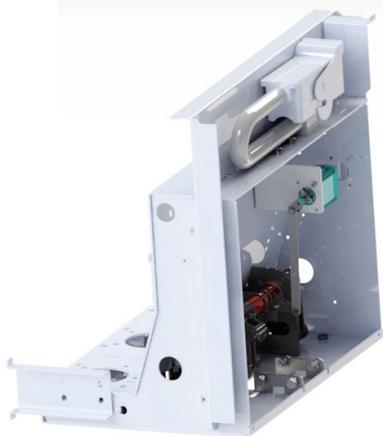
Mounting Outline for 650/800mm CB Frame



Mounting Outline for 1000mm CB Frame



Selection Table



Circuit Breaker Frame



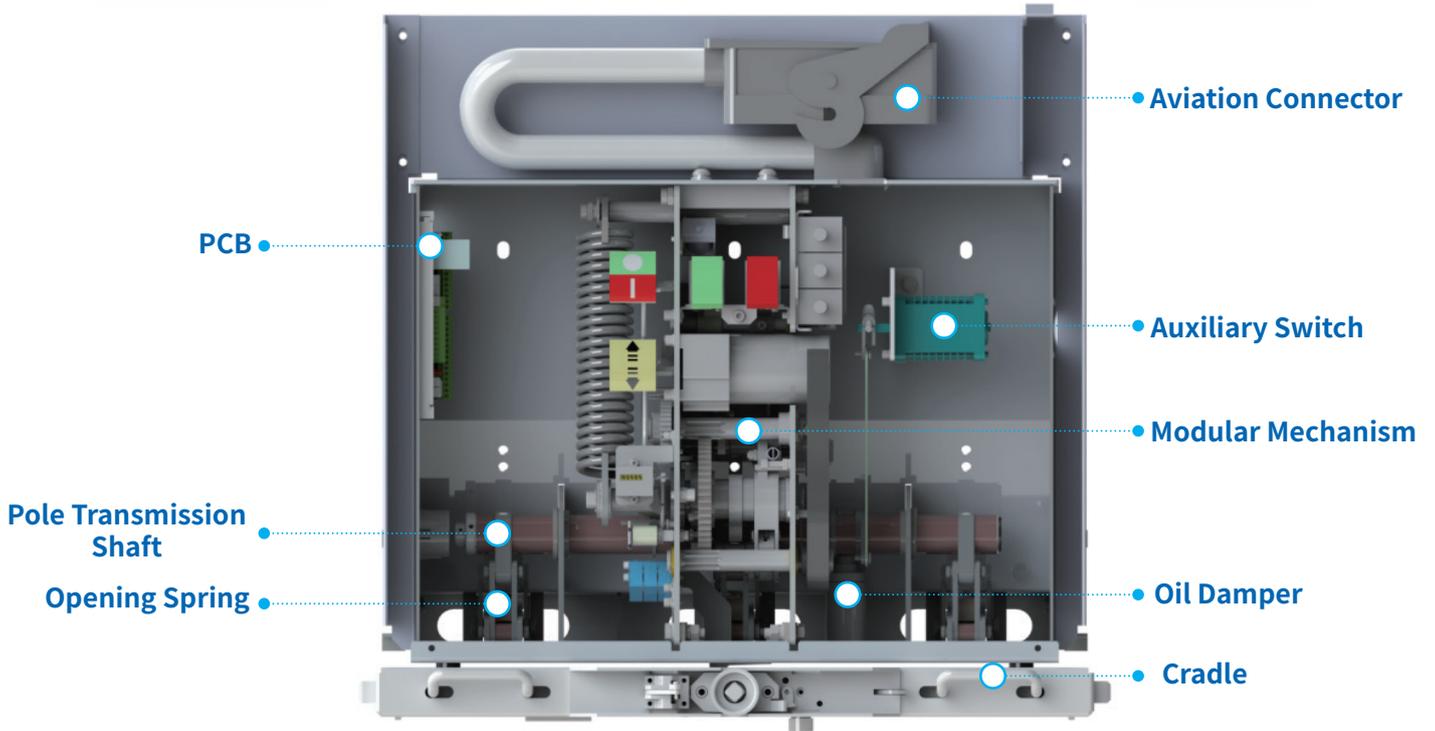
Modular Mechanism



Cradle

Model	Image	Cabinet Width	Model
Modular Mechanism		650mm 800mm	SKM1-JG-800
		1000mm	SKM1-JG-1000
Circuit Breaker Frame		650mm 800mm 1000mm	SKM1-KJ-650 SKM1-KJ-800 SKM1-KJ-1000
Cradle (Motorized or Manual)			800mm

Circuit Breaker Assembly (without Poles)



Main Parameters of Closing and Opening Electromagnets and Related Electrical Components

Item	Closing Solenoid		Opening Solenoid		Interlocking Solenoid		Anti-pumping Relay	
	DC220	DC110	DC220	DC110	DC220	DC110	DC220	DC110
Rated Op. Voltage (V)	DC220	DC110	DC220	DC110	DC220	DC110	DC220	DC110
Rated Op. Current (A)	1.1	2.2	1.1	2.2	25mA		9.1mA	
Rated Power (W)	242	242	242	242	2.7		1	
Operating Voltage Range	85% -100% Rated Voltage		65% -120% Un open; <30% Un no open.					

Technical Parameters of the Energy Storage Motor

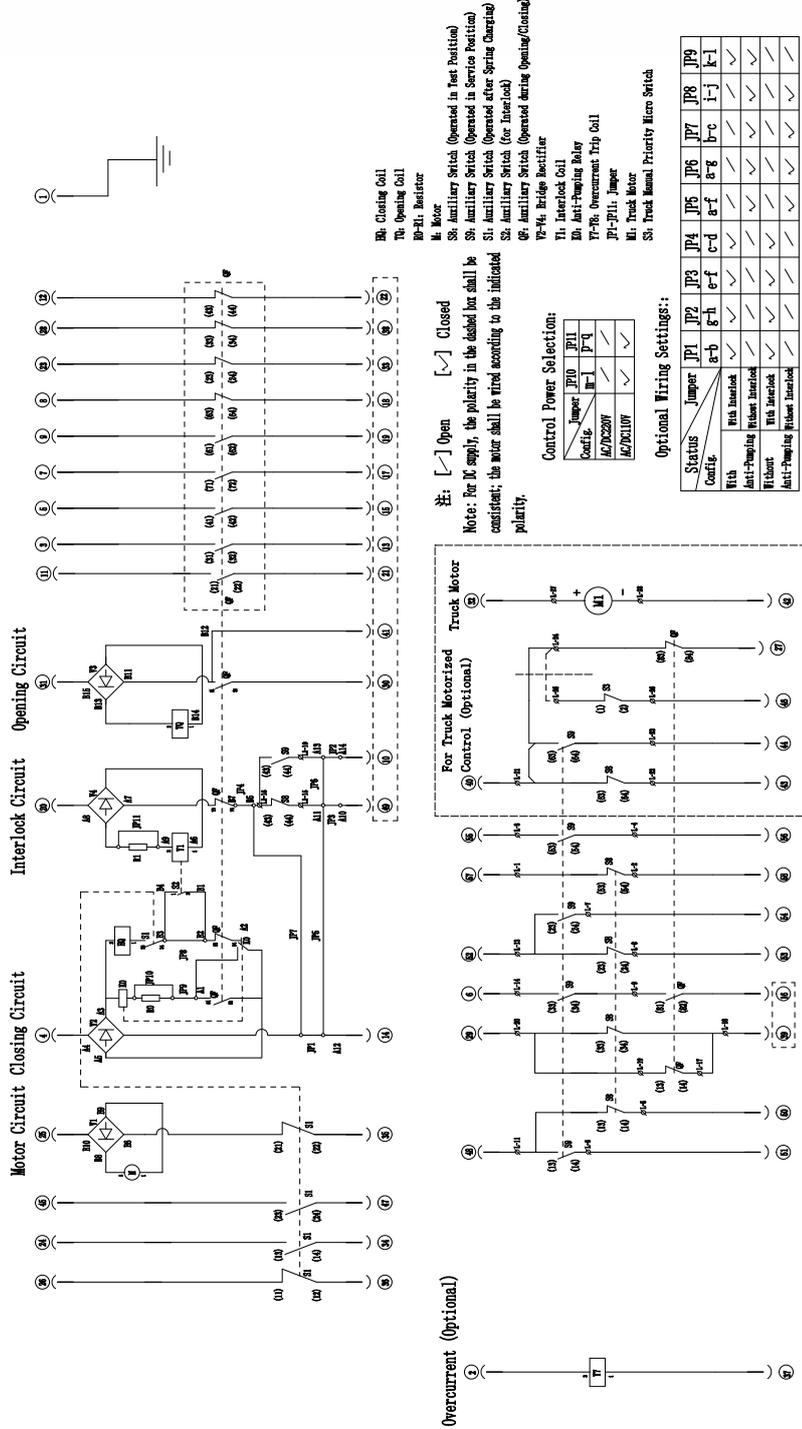
Model	Rated V.	Rated Power	Operating Voltage Range	Energy Storage Time
64ZY-CJ □ □ -6B-1	DC110V	90W	85% -110%	≤ 10S
	DC220V			

Main Technical Parameters

Item		Unit	Parameters			
Rated Voltage		kV	12			
Maximum Operating Voltage		kV	12			
Rated Current		A	630	630	1250	1600
			1250	1250	1600	2000
					2000	2500
					2500	3150
						4000
Rated Short-circuit Breaking Current		kA	20	25	31.5	40
Rated Short-circuit Making Current		kA	50	63	80	100
Rated Peak Withstand Current		kA	50	63	80	100
Rated Short-time Withstand Current (4 s)		kA	20	25	31.5	40
Rated Insulation Level	Power Frequency Withstand Voltage (Before/After Rated Breaking)	kA	42 (Contact Gap48)			
	Impulse Withstand Voltage (Before/After Rated Breaking)		75 (Contact Gap 85)			
Rated Operating Sequence			0-0.3s-CO-180s-CO			
Mechanical Life		Times	20000			
Number of Breaks at Rated Short-Circuit Current		Times	50			
Operating Mechanism Rated Closing Voltage (DC)		V	110, 220			
Operating Mechanism Rated Opening Voltage (DC)		V	110, 220			
Contact Gap		mm	9±1			
Contact Travel		mm	3.5±0.5			
Contact Bounce Time on Closing		ms	≤ 2			
Phase-to-Phase Asynchronous Opening/Closing		mm	≤ 2			
Opening Time		ms	≤ 50			
Closing Time		ms	≤ 100			
Average Opening Speed		m/s	1.1±0.2			
Average Closing Speed		m/s	0.6±0.2			
Contact Pressure		N	20kA	25kA	31.5kA	40kA
			2000	2400	3200	4750
Main Circuit Resistance per Phase		uΩ	60		50	



SKM-12 Electrical Schematic Diagram of Vacuum Circuit Breaker



BH: Closing Coil
 TH: Opening Coil
 M: Motor
 R: Resistor
 SH: Auxiliary Switch (Opened in Test Position)
 SH: Auxiliary Switch (Opened in Service Position)
 SI: Auxiliary Switch (Opened after Spring Charging)
 SI: Auxiliary Switch (for Interlock)
 SF: Auxiliary Switch (Opened during Opening/Closing)
 VS-14: Bridge Rectifier
 TH: Interlock Coil
 TH: Anti-Pumping Relay
 TP-16: Overcurrent Trip Coil
 JP-J11: Jumper
 M: Truck Motor
 S: Track Manual Priority Micro Switch

注: [✓] Open [] Closed
 Note: For M supply, the polarity in the dashed box shall be consistent; the motor shall be wired according to the indicated polarity.

The diagram shows the circuit breaker in test position, open status, and spring uncharged.