

High and low voltage switchgear

Model: KYN28A-12 Armored open metal sealing switchgear

Application:

KYN28A-12 indoor AC armored removable metal enclosed switchgear. It is suitable for three-phase AC power system with rated voltage of 12KV and rated frequency of 50Hz, and is used to receive and distribute electric energy and control, protect and monitor the circuit.

This product conforms to GB 3906 "3-35kV AC metal enclosed switchgear", GB/T11022 "Common technical requirements of high-voltage switchgear and control equipment standards" and EC60298 "Rated voltage 1KV"

Above 52KV and below AC metal shell switchgear and control equipment "and DL/T404" Technical conditions for ordering indoor AC high-voltage switchgear".

Features:

- Ambient temperature: the highest temperature is +40°C, and the lowest temperature is -15°C (it can reach -45°C under special process);
- Ambient humidity: daily average < 95%; monthly average ≤90%;
- Altitude: below 1000m;
- Earthquake resistance; The earthquake intensity does not exceed 8;
- The surrounding air should be free from obvious pollution such as corrosive or combustible gas and water vapor;
- There is no serious pollution and frequent violent vibration, and the harshness design under harsh conditions meets Class I requirements;
- When it is used under normal environmental conditions exceeding those specified in GB3906, it shall be negotiated between the user and the manufacturer.

Note: (1) When the relative humidity is greater than 70%, the electric heater should be turned on. (2) Where the altitude exceeds 1000m, it shall be handled according to JB/Z102-71.

Specification:

Project	Unit	Parameter			
Rated voltage	kV	3.6,7.2,12			
Rated frequency	Hz	50			
Circuit breaker rated current	A	630、1250、1600、2000、2500、3150			
Switch cabinet rated current	A	630、1250、1600、2000、2500、3150			
Rated dynamic current(4S)	kA	16、20、25、31.5、40、50			
Rated steady current(peak)	kA	40、50、63、80、100、125			
Rated short-circuit breaking current	kA	16、20、25、31.5、40、50			
Rated short circuit closing current(peak)	kA	40、50、63、80、100、125			
Rated insulation level	Power frequency withstand voltage	kV	24	32	42
	Light impulse withstand voltage		40	60	75
Protection level		IP2Xfor enclosure IP4X,isolation compartment,and circuit			

		breaker compartment door
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VD4、VS1-12 Vacuum circuit breaker technical parameters

Project	Unit	Parameter	
Rated voltage	kV	12	
Rated frequency	Hz	50	
Circuit breaker rated current	A	630、1250、1600、2000、2500、3150	
Rated dynamic current(4S)	kA	16、20、25、31.5、40、50	
Rated steady current(peak)	kA	40、50、63、80、100、125	
Rated short-circuit breaking current	kA	16、20、25.31.5、40、50	
Rated short circuit closing current(peak)	kA	40、50、63、80、100、125	
Rated insulation level	Power frequency withstand voltage	kV	42
	Light impulse withstand voltage	kV	75
Rated operation sequence		分-0.3s-合分-180s-合分 50	
Rated short-circuit breaking current breaking times	times	50	
Mechanical life	times	20000	

VD4、VS1 Vacuum circuit breaker mechanical characteristics

Project	Unit	Parameter	
Contact opening distance	mm	11±1	
Overtrave	mm	4±0.5	
Interphase center distance	mm	210±0.5,275±0.5	
Closing contact bounce time	ms	≤2	
Three-phase opening and closing	ms	≤2	
Opening time When the operating voltage is	Highest	ms	≤50
	Rated	ms	≤50
	Lowest	ms	≤60
Closing time	ms	≤100	
Average closing speed	m/s	0.9-1.2	
Average opening speed	m/s	0.6-0.8	

When the circuit breaker is used to control a 3-10kv motor, if the starting current is less than 600A, a metal zinc oxide arrester must be added. The specific requirements shall be negotiated between the user and our company: when the circuit breaker is used to open and close the container group, the rated current of the capacitor shall not be greater than 80% of the rated current of the circuit breaker.

Operating mechanism technical parameters

Project	Unit	Parameter	
Rated operating voltage	Closing coil	V	AC/DC220,110
	Opening coil	V	AC/DC220,110
Coil power	Closing coil	W	245



	Opening coil	W	245
Energy storage motor power		W	50
Rated voltage of energy storage motor		V	AC/DC220,110
Energy storage time		s	≤10