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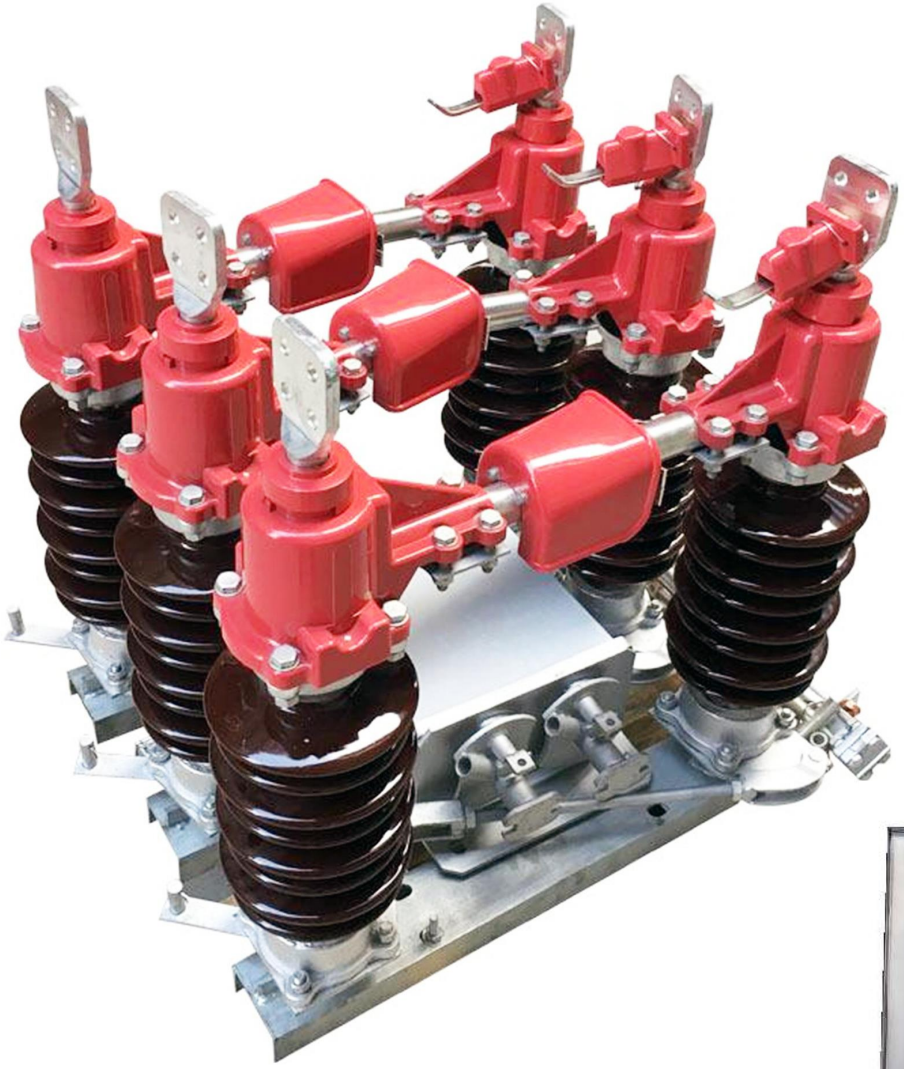
GW4A – 40.5

ISOLATION SWITCH / DISCONNECTOR

OUTDOOR / THREE-PHASE / HIGH-VOLTAGE







登高电气有限公司
DENGGAO ELECTRIC CO.,LTD.

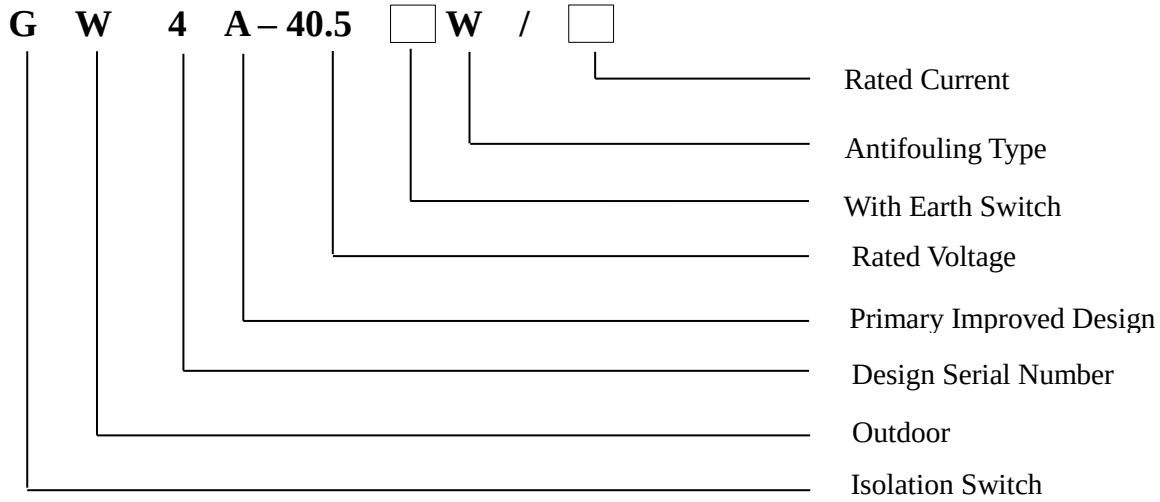
GW4A – 40.5 OUTDOOR ISOLATION SWITCH / DISCONNECTOR

1. SUMMARY

GW4A-40.5 series improved outdoor high voltage AC disconnector (hereinafter referred to as "disconnector") 'it is an outdoor high-voltage switchgear with a rated frequency of 50Hz, which is used for switching 35kV line under voltage and no load, and for the electrical isolation of the overhauled high-voltage bus, circuit breaker and other electrical equipment from the live high-voltage line. It can also be used to close a very small capacitive current and inductive current.

The Isolation switch meets the technical standards of high voltage AC disconnectors and earthing switches (GB/T 1985-2014) and high voltage AC disconnectors and earthing switches (DL/T 486-2010).

2. MODEL AND MEANING



3. USAGE: ENVIRONMENTAL CONDITIONS

1. Altitude: Not more than 1000m / Icing thickness: not more than 20mm
2. Ambient air temperature: maximum +40 ℃, minimum - 40 ℃, daily temperature difference 25K
3. Humidity: daily average relative humidity ≤ 95%, monthly average relative humidity ≤ 90%
4. Solar Radiation Intensity (outdoor)/ Pollution level: 0.1W/cm^2 / e-level
5. Winding speed / pressure (outdoor): 34m/s / 700Pa
6. Earthquake resistance: horizontal acceleration 0.3 m/s^2, vertical acceleration 0.15m/s^2
7. Safety factor: sinusoidal resonance three-cycle wave, safety factor above 1.67

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4. MAIN ADVANTAGES

1. The improved design is adopted, and the installation is simple and convenient without welding.
2. It adopts double column mid opening and contact tap in structure, with automatic contact cleaning capability and strong operation reliability.
3. The contact finger is made of materials with high strength, high conductivity and high elasticity, which can snap the contact with its own elasticity, avoiding the vicious circle caused by the reduction of contact clamping force caused by spring corrosion and thermal annealing, the increase of contact resistance and the intensification of contact heating.
4. The insulator is made of high-strength porcelain material and designed with large creepage distance. It has strong pollution resistance and environmental adaptability and can meet the operation requirements in high altitude areas.
5. The rotating part shall be designed according to maintenance free requirements.

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5. TECHNICAL PARAMETER TABLE

No.	Item		Unit	Parameters					
1	Rated Frequency		Hz	50 / 60					
2	Rated Voltage		kV	40.5					
3	Rated Current		A	630	1250	2000	2500	3150	4000
4	Rated Short-Time Withstand Current		kA	20		31.5		40/50	
5	Rated Short-Time Withstand Current (Peak Value)		kA	50 / 63		80		100 / 125	
6	Rated Short-Time Power Frequency Withstand Voltage	Phase, to Earth (Dry)	kV / min	95 / 1					
		Fracture (Dry)		118 / 1					
7	Rated Lightning Impulse Withstand Voltage	Phase, to Earth	kV	185					
		Fracture		215					
8	Rated Short-Time Withstand Current and Continuous Time		s	4 (Isolation Switch), 2 (To Earth Switch)					
9	Circuit Resistance		μΩ	≤ 100			≤ 80		
10	Matching operating mechanism	Human Operational Mechanism		CS14G (Without Earthing Switch)					
				Main force CS14G, grounding force CS11 (with single/double grounding switch)					
		Motor Operational Mechanism		CJ6 type, motor voltage AC380V or DC220v, grounding voltage AC220V or DC220v, auxiliary contact 8 normally open and normally closed (standard configuration)					
11	Mechanical Life		Times	2000 (Isolation Switch / To Earth Switch)					
12	Creepage distance / Pollution Grade		mm	≥ 372 / E - level					
If the altitude is over 1000m, the rated insulation level should be modified as appropriate									

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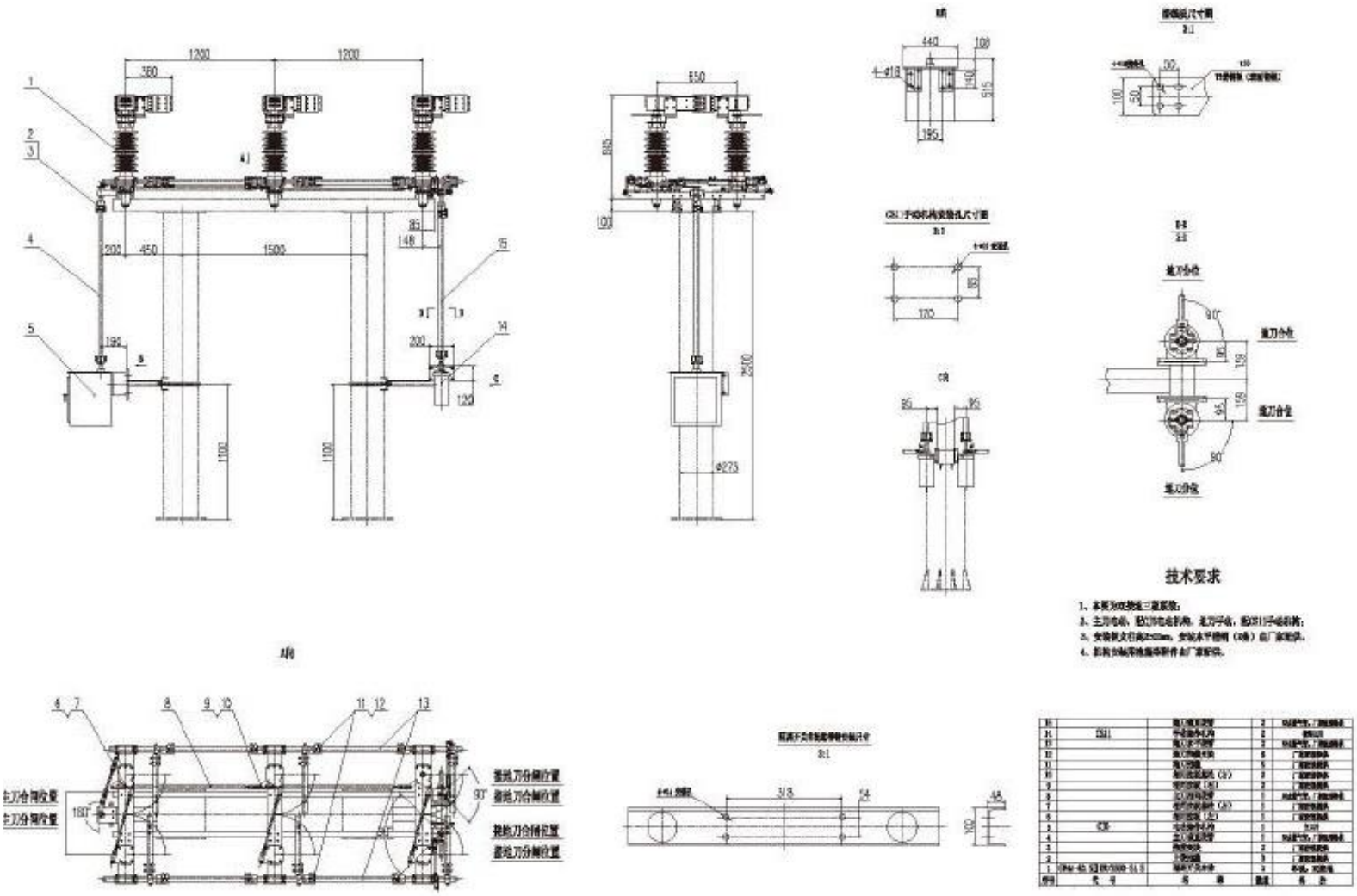
6. OUTLINE AND INSTALLATION DIMENSION



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