

Type : HG6-72.5

Rating : 72.5 kV , 2500A

31.5 kA, 50/60Hz



72.5 kV Rated Outdoor Dead Tank Circuit breaker



This HG6-72.5KV MTS uses dry compressed air as the insulation medium with no influence on the environment. Design of Spring - Operated mechanism and of 3 phase gang operation. It is most suited for applications in Earth quake prone area, high pollution areas and where space is a constraint in substation design.

Highlights

- High Safety and Reliability
- HG6-72.5kV MTS is split-phase switch equipment, greatly reduces the risk for interphase short circuit fault. Multi independent gas compartment can effectively reduce the internal fault incidences
- Good mechanical stability
- Adopting Circuit breaker unit & earthing switch unit in independent aluminium tank the separated gas chambers are also isolated by disc bushings. Flexible structure and suitable to different primary circuit scheme, belongs to Plug and Play switch device. Uses Silicon Rubber Composite Bushing for pollution level up to level IV
- Good for Frequent operation, Mechanical life designed for up to 10,000 times
- HG6-72.5kV MTS uses VCB and N₂ / Compressed Dry Air meaning Environmentally friendly
- Maintenance Free

- All high voltage components in main circuit are completely sealed inside the cast aluminum tank.

Operating service Conditions

- 1) Ambient Temperature : -40C to +40C
- 2) Altitude : < 1000m
- 3) Pollution Level IV
- 4) Seismic Capacity : <9 degree



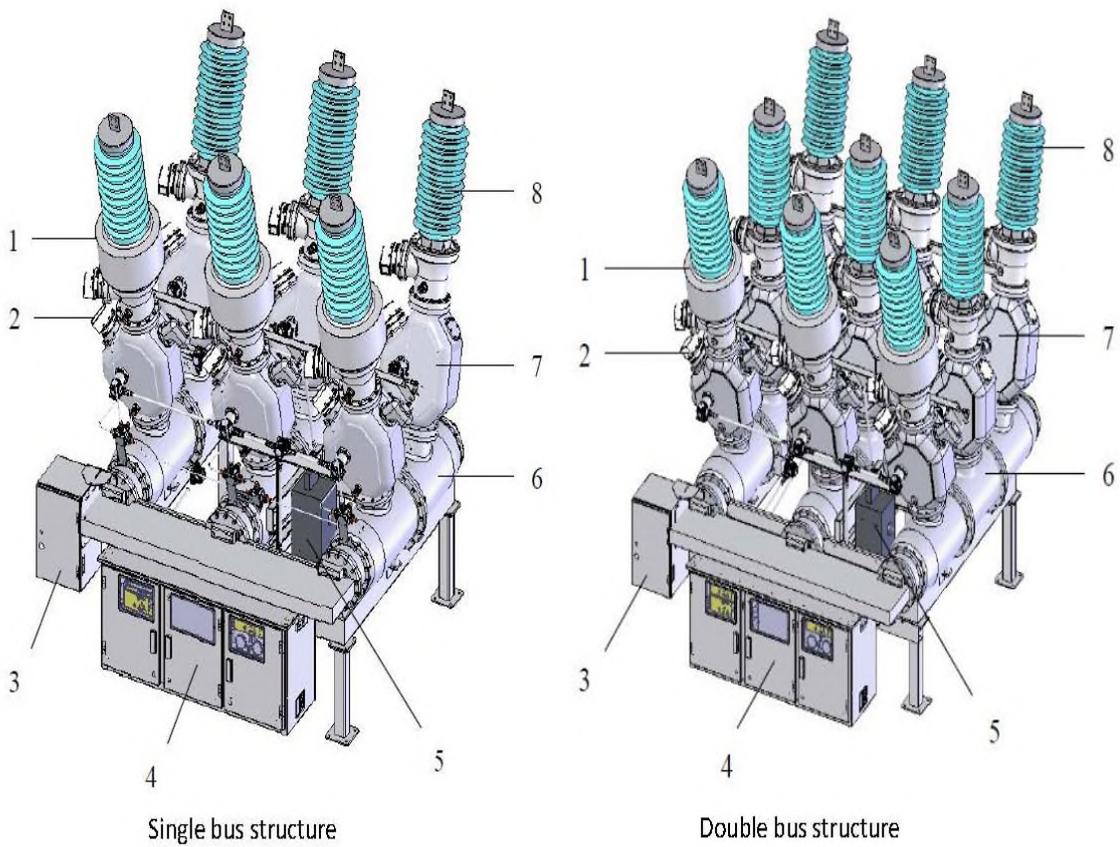


FRONT VIEW

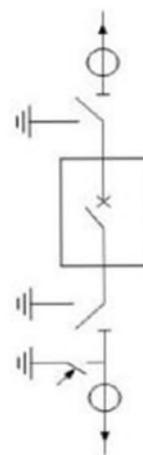
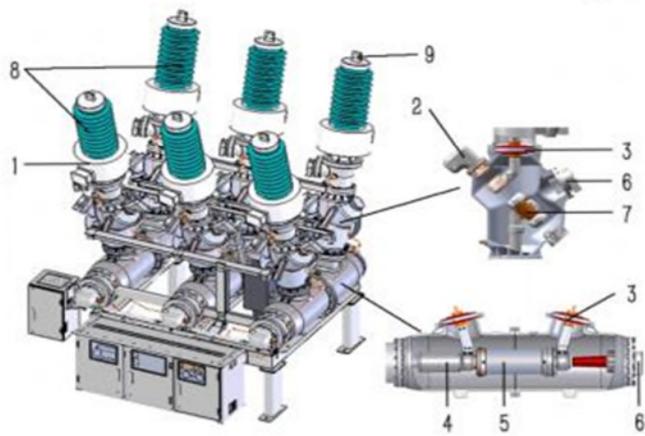
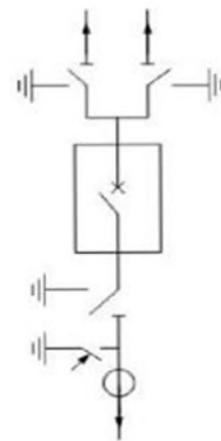
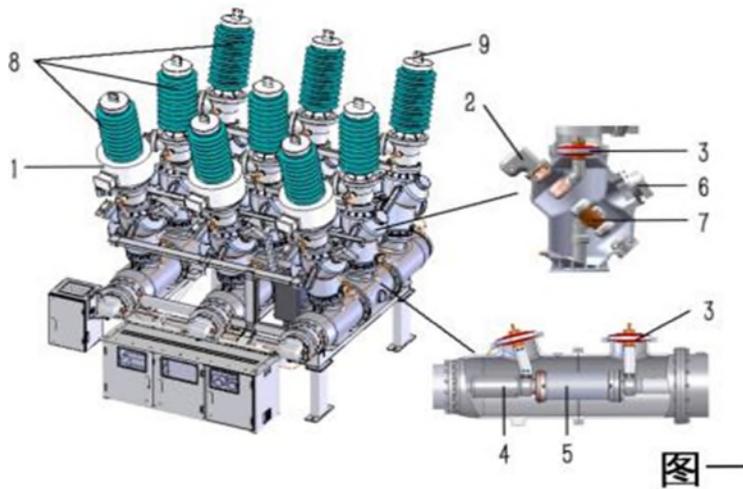
Technical Parameter

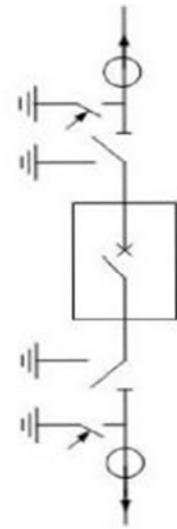
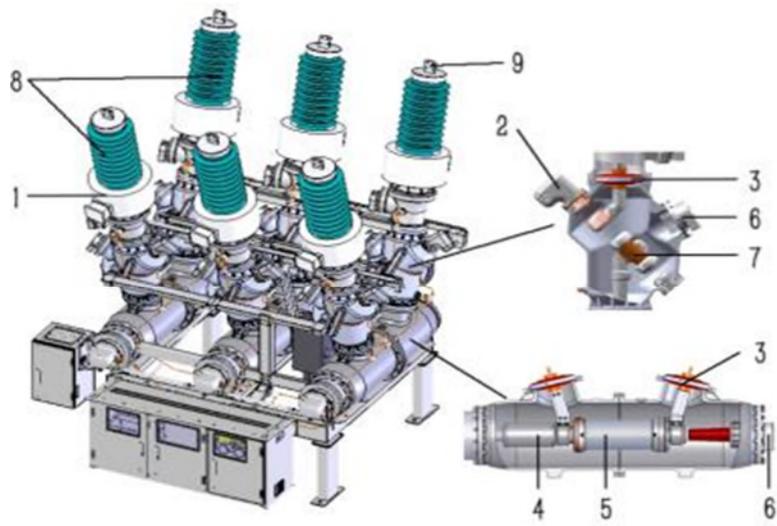
No.	Item		Unit	Technical parameter	
1	Rated voltage		kV	72.5	
2	Rated frequency		Hz	50	
3	Rated insulating level	Power frequency withstand voltage (1min)	Phase to ground, phase to phase	kV	160
			DS isolation distance and CB isolation distance	kV	202
		Lighting withstand voltage (peak value)	Phase to ground, phase to phase	kV	380
			DS isolation distance and CB isolation distance	kV	439
		Aux. and control circuit PF withstand voltage (1 min.)		kV	2.0
4	Rated current		A	2500	
5	Maximum partial discharge		Pc	5	
6	Rated short circuit breaking current		kA	31.5	
7	Rated short circuit making current (peak value)		kA	80	
8	Rated short time withstand current		kA	31.5	
9	Rated short circuit duration		s	4	
10	Rated peak withstand current		kA	80	
11	Insulation gas			Clean dry air	
12	Water content in the gas box		ppm	225	
13	Leakage rate/year		%	0.5	
14	Rated filling pressure (abs 20 ⁰ C)		MPa	0.70	
15	Alarm pressure (abs 20 ⁰ C)		MPa	0.65	
16	Minimum function pressure (abs 20 ⁰ C)		MPa	0.60	
17	Gas filled compartment design pressure (20 ⁰ C)		MPa	0.87	
18	Pressure-relief device released pressure (20 ⁰ C)		MPa	1.2-1.5	
19	Vacuum circuit breaker level			M2,E2,C1	
20	Rated operation sequence			0-0.3s-CO-180s-CO	
21	Vacuum circuit breaker mechanical life		times	10000	
22	EDS mechanical life		times	3000(M1)	
23	Earthing switch mechanical life			3000(M1)	
24	Protection degree of the sealing shell			IP65	
25	Dimensions (W*D*H) Double/single bus bar		mm	3200*3600*4100/3200*29	

Product Structure

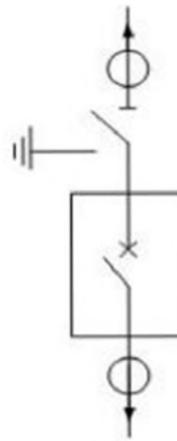
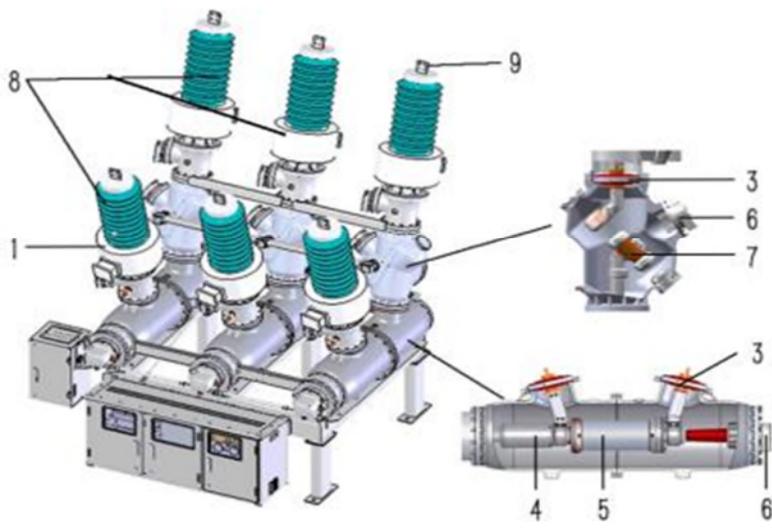


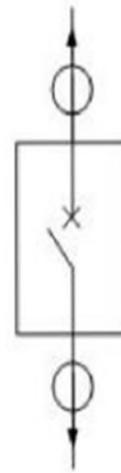
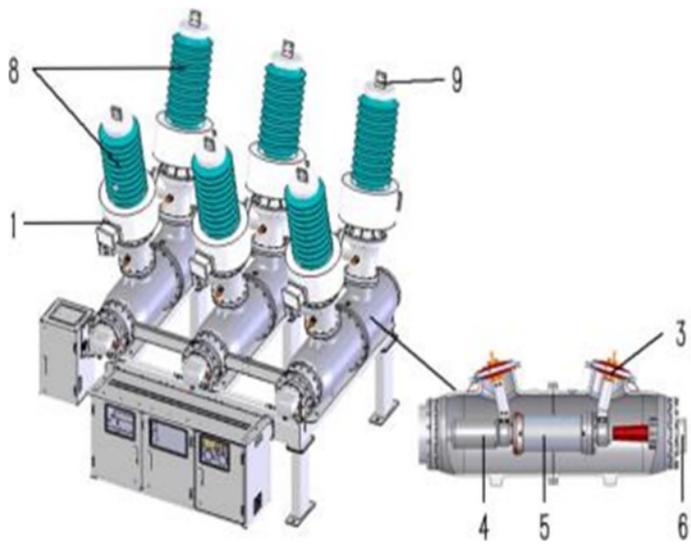
1. Current Transformer 2. Explosion-proof membrane 3. Spring operating mechanism
4. control cabinet 5. High speed earthing switch operating mechanism 6. breaker
7. EDS 8. Composite inflated bushing
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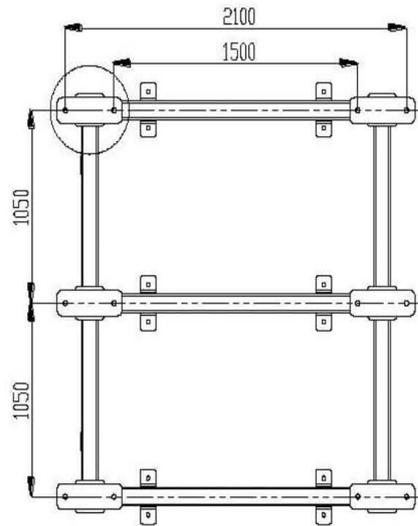


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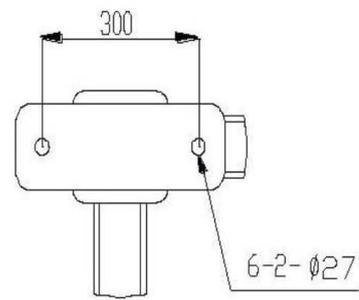




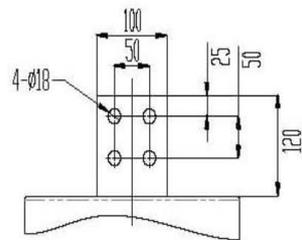
Foundation Frame



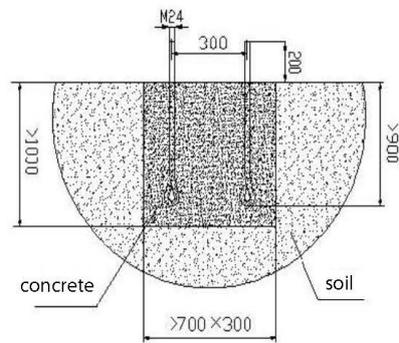
Single, double bus (MTS) fixed frame foot schematic



Foot mounting hole diagram



Terminal schematic



Ground foot civil construction schematic

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