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ZW10 – 12XDG

INTELLIGENT DUAL POWER MUTUAL TRANSFER DEVICE

OUTDOOR / THREE-PHASE / HIGH-VOLTAGE



ZW10 INTELLIGENT DUAL POWER MUTUAL TRANSFER DEVICE

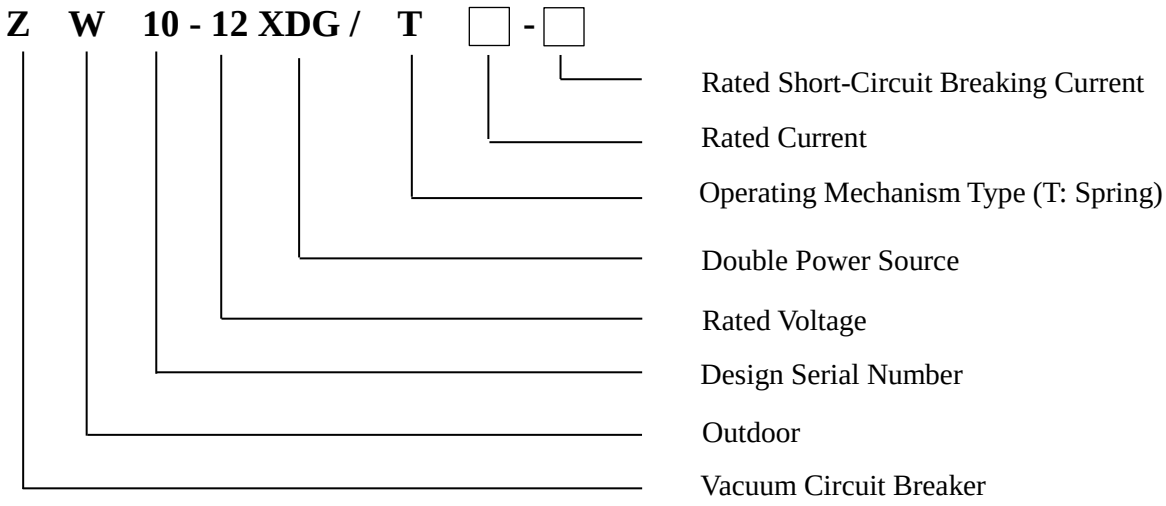
1. SUMMARY

ZW10-12XDG series outdoor high-voltage AC intelligent dual power mutual transfer device (hereinafter referred to as "dual power mutual transfer device") , is an outdoor voltage isolating switchgear with rated voltage of 12V and three-phase AC 50H, which is applicable to the loop network or simple emergency power supply system. It automatically switches the load circuit from one side of the power supply to the electrical equipment of the other side of the power supply, so as to ensure the continuous, reliable and continuous operation of important load electrical equipment. It can realize the continuous power supply of the power supply in case of an emergency. It can be put into other standby power supply equipment through the automatic transfer switch of dual power supplies.

The dual power input device is widely used in 10KV power distribution lines in oil fields, mines, metallurgy, chemical industry, railways, communications, machinery, etc.

The double power supply mutual transfer device complies with technical standards such as GB19842014 High Voltage AC Circuit Breaker, DT/L 402-2007 Technical Conditions for Ordering High Voltage AC Circuit Breaker, DT/T 403-2000 (Technical Conditions for Ordering 12-40.5kV High Voltage Vacuum Circuit Breaker) and DL/T 721-2013 Power Distribution Automation Remote Terminal..

2. MODEL AND MEANING



3. USAGE: ENVIRONMENTAL CONDITIONS

1. Altitude: ≤ 1000 m. If the altitude is higher than 1000m, the rated insulation level shall be corrected.
2. Ambient air temperature: maximum 40 ℃, minimum - 25 ℃, daily temperature difference 25k
3. Temperature: daily average relative humidity ≤ 95%, monthly average relative humidity ≤ 90%
4. Sunshine intensity: 0.1W/cm^2
5. Icing thickness: not more than 10mm
6. Resistance to floor drain: horizontal acceleration 0.3g, vertical acceleration 0.2g
7. Outdoor Wind speed (Wind pressure): 34m/s (700Pa)
8. Pollution level: e-level

4. MAIN ADVANTAGES

1. Novel design, perfect performance, safety and reliability, high degree of automation, and wide range of use;
2. The complete isolation of two high-voltage power supplies is ensured in the design, and perfect and reliable mechanical and electrical interlocking is adopted
3. Both side disconnectors can realize electric operation and remote or local remote control
4. It has protection interlock functions such as short circuit and over-current, which can effectively avoid unnecessary power supply impact in case of load fault.

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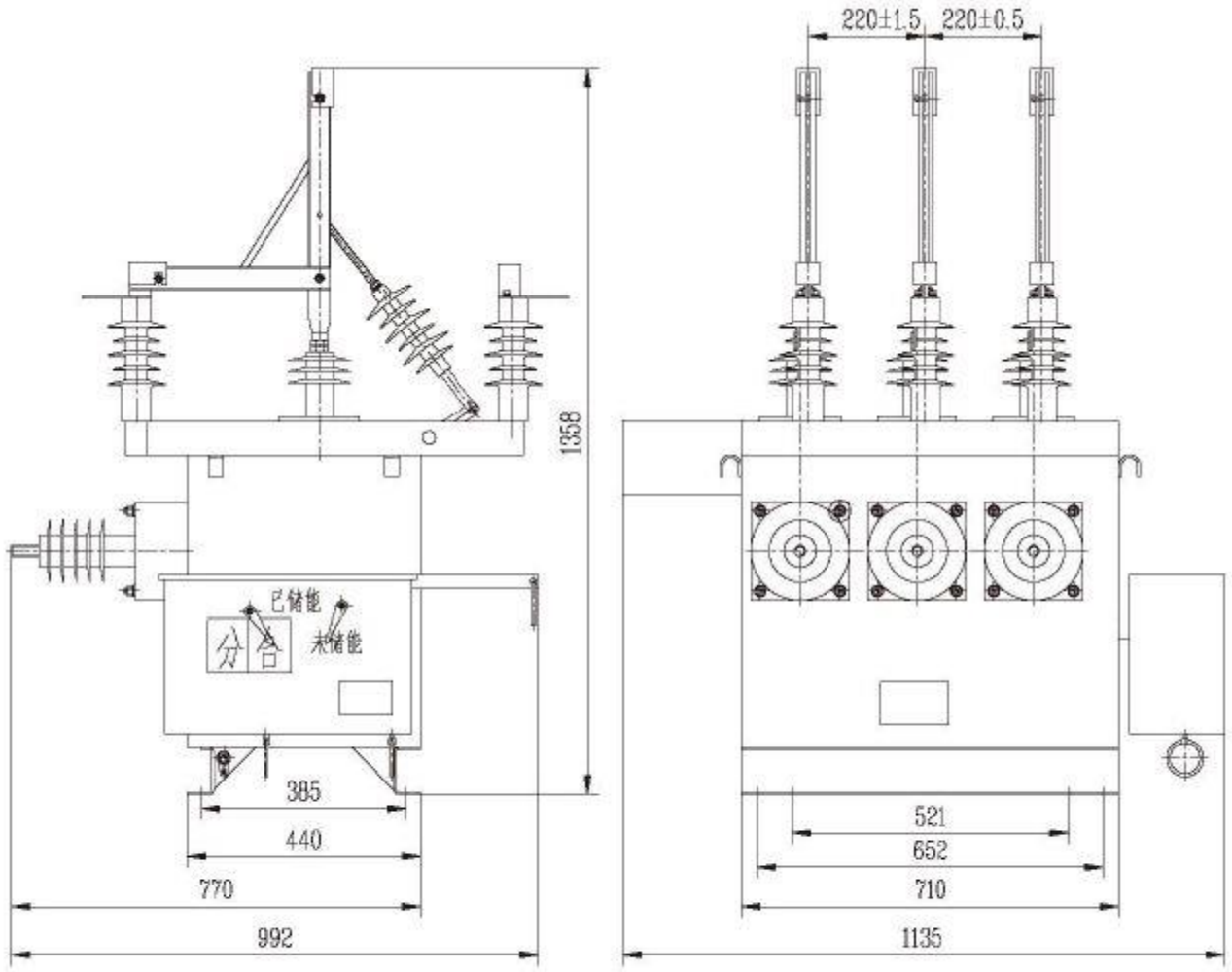
5. TECHNICAL PARAMETER TABLE

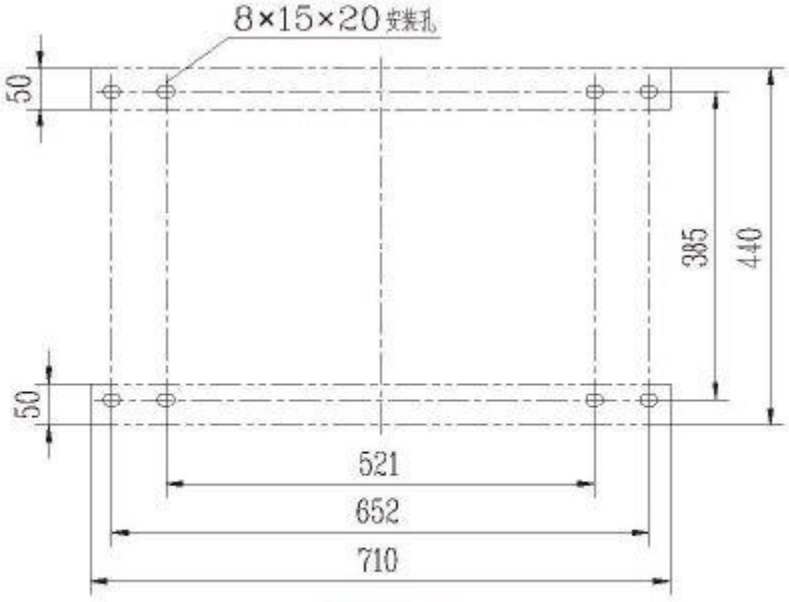
No.	Item		Unit	Parameters	
1	Rated Frequency		Hz	50 / 60	
2	Rated Voltage		kV	12	
3	Rated Breaking Current		A	630	1250
4	Rated Short-time Power Frequency Withstand Voltage	Phase, To Earth (Wet)	kV / min	42 / 1	
		Phase, To Earth (Dry)		48 / 1	
		Fracture (Dry)		34 / 1	
		Secondary Circuit to Earth		2 / 1	
5	Lightning Impulse Withstand Voltage	Phase, To Earth	kV	75	
		Fracture		85	
6	Rated Short-Circuit Breaking Current		kA	20	25
7	Rated Short-Circuit Making Current (Effective value)			50	63
8	Rated Short-Time Withstand Current and Continuous Time		kA/s	20/4	25/5
9	Rated Peak Value Withstand Current		kA	50	63
10	Rated Short-Circuit Breaking Current Breaking Times		Times	30	
11	Rated Operating Voltage & Auxiliary (Control) Circuit Rated Voltage		V	AC/DC220, DC48, DC24	
12	Main Circuit Resistance		μΩ	≤ 200	
13	Mechanical Life Span		Times	10000	
If the altitude is over 1000m, the rated insulation level should be modified as appropriate					

Note: If the parameters requested by the user are beyond the scope of the above table, they can be determined after consultation with our company.

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6. OUTLINE AND INSTALLATION DIMENSIONS





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