

ZWG OFF CIRCUIT TAP CHANGER

◎ Product Introduction

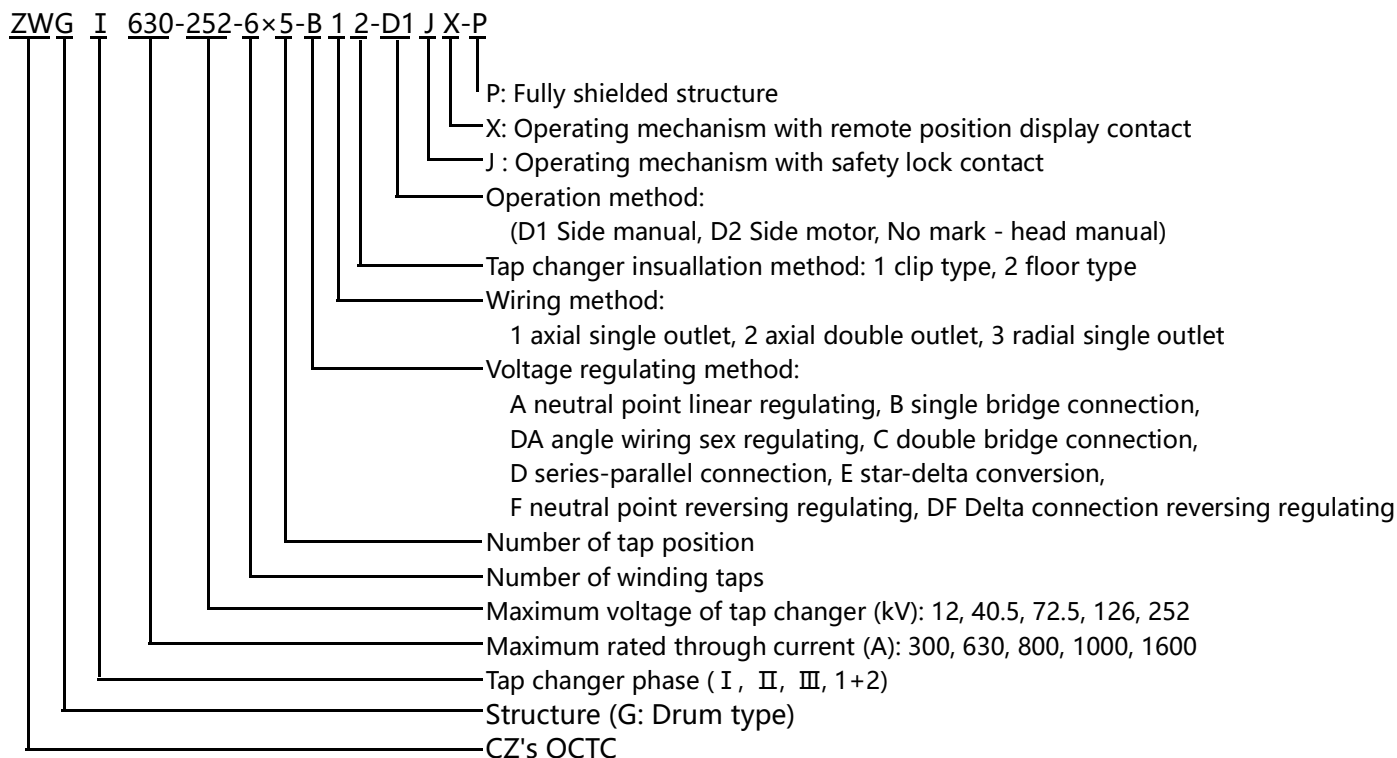
ZWG Off circuit drum tap changer is independently developed by Guizhou Changzheng Electric Co., Ltd. The maximum working voltage of this product is 252kV, the maximum rated through current is 3000A, and the partial discharge is ≤ 10 pc. With multiple patented technologies, it is especially suitable for non-excitation voltage regulation of traction transformers, and also used for voltage regulation of various oil-immersed power transformers and industrial transformers.

ZWG Off circuit tap changer breaks through the defects of drum switch contacts over dead point shifting for many years, adopts dynamic and static contact automatic unloading force technology, removes the moving contact pressure when shifting, and increases the moving contact pressure when working, The moving contacts are disengaged during the shifting process, the closing feel is very strong, and the shifting torque is small; this product also solves the technical problems of inconvenient and inaccurate installation of the non-excited drum switch for many years, and it is easy to maintain.

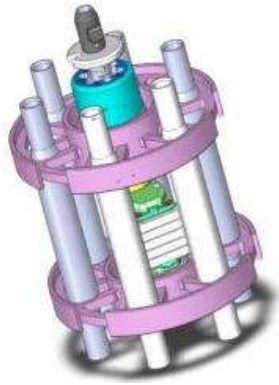


◎ Model Description

ZWG I 630-252-6×5-B 1 2-D1 J X-P



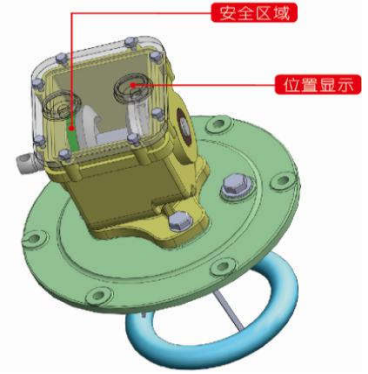
◎ Product features



Use dynamic and static contact automatic unloading technology. Remove the pressure of the moving contact when shifting and increase the pressure of the moving contact when working. The moving contact feels very strong when the moving contact is disconnected and closed during the shift.



Using self-locking technology for installation and positioning. Solve the installation problems, reliable, accurate and simple installation and connection, effectively prevent inaccurate installation of the transformer factory, ensure the reliable operation of the tap changer, and improve its reliability.



Adopt incomplete bevel gear transmission technology of operating mechanism. The output angle is accurate to ensure the reliable operation of the tap changer; the input angle tolerance range is wide, and the input safety position area display is set, which is convenient for installation, connection and operation with high reliability.

◎ ZWG Technical Data Performance parameters (subject to contract technical requirements)

1	Tap changer model	ZWG I 630	ZWG I 1000	ZWG I 1600	ZWG I 2000	ZWG(1+2))630	ZWG(1+2) 1000	ZWGIII 630	ZWGIII 1000	
2	Phase	Single phase				1+2phase		3phase		
3	Working frequency (Hz)	50/60								
4	Rated through current (A)	630	1000	1600	2000	630	1000	630	1000	
5	Short circuit capacity (kA)	Thermal (3s)	6.3	10	16	20	6.3	10	6.3	10
		Dynamic (peak)	15.75	25	40	50	15.75	25	15.75	25
6	Insulation level	Voltage level (kV)	10	35	66	110	220			
		Max. working voltage (kV)	12	40.5	72.5	126	252			
		Power frequency voltage (50Hz, 1min)	To ground	45	100	160	230	460		
			Between moving & fixed contacts	20	30	45	55	90		
		Impulse withstand voltage (1.2/50μs)	Interphase	45	100	160	230	/		
			To ground	100	230	350	550	1050		
Between moving & fixed contacts	70		90	150	175	285				
	Interphase	100	230	350	550	/				
7	Drying temperature (°C)	Vacuum drying 110, Air phase drying 125								
8	Wiring	B Single bridge connection, F Neutral point reversing regulating, DF Delta connection reversing regulating								
9	Operation method	D1 Side manual, D2 Side motor, Head manual								
10	Number of tap positions (max)	9								
11	Contact resistance between moving and fixed contacts	≤350μΩ								
12	Partial discharge (pC)	≤50								
13	Sealing performance	6×10 ⁴ Pa 24h No leakage								
14	Mechanical life	>100000 times								

Note: 1. The insulation distance of the tap changer to the ground, coil and other accessories is considered by the user, and sufficient insulation distance should be ensured during design;

2. The partial discharge of the switch with a fully shielded structure can be lower (less than 10pC);

3. Please contact us if you need other performance parameters.