

ZVV vacuum on-load tap-changer

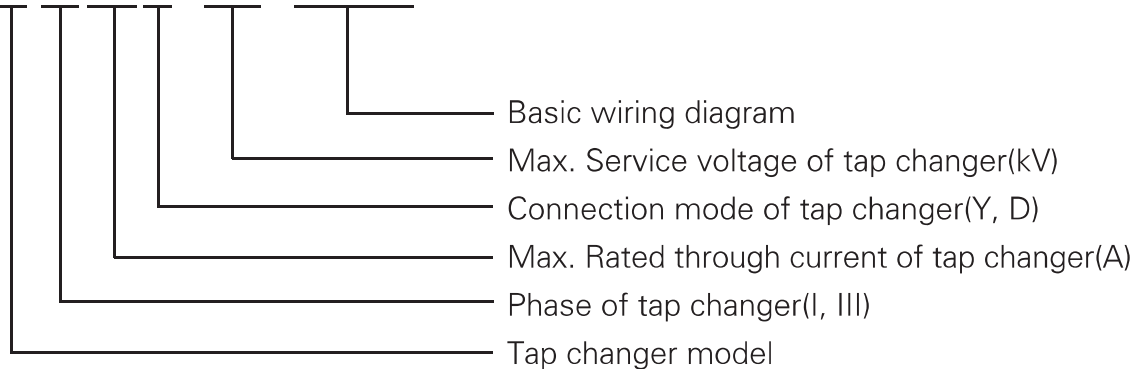
ZVV vacuum on-load tap-changer can be used for the power transformer with the highest equipment voltage up to 40.5kV, 72.5kV; Max. rated through current 350A , 500A and the frequency is 50Hz and 60Hz, which can change the tap position of transformer regulating winding under the load state so as to obtain the regulation.

The tap changer is produced and tested according to IEC 60214 (Tap-changers – Part 1: Performance requirements and test methods).



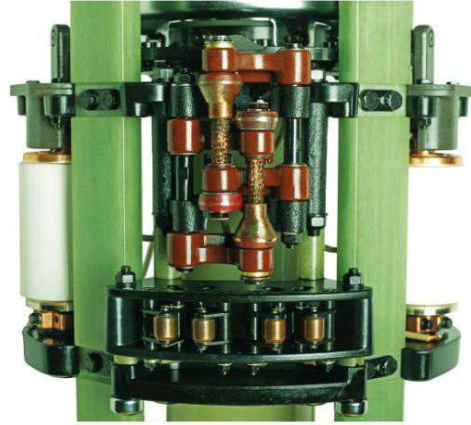
Model instruction

ZVV III 500 Y - 72.5 - 10193W

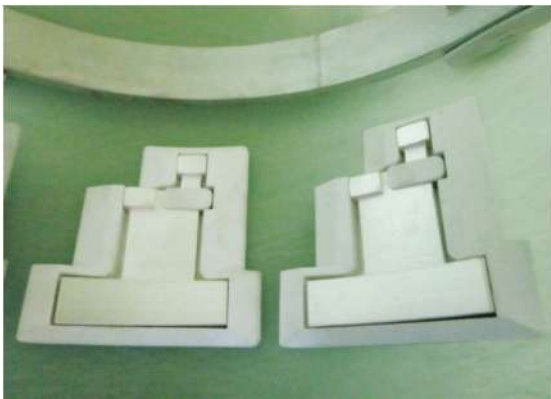




Flange mounting size is same as ZV type, the structure is simple and small space usage.



Moving contact system adopt rolling multiple point contact mode, the contact resistance is small, temperature rising is low and the current carrying is stable and reliable.



Fixed contacts of oil chamber adopt the contacts system with national patent protection, the seal performance is reliable.



Adopt traditional and mature energy storage transmission mechanism, ensure the operation of mechanism is reliable.

ZVV vacuum on-load tap-changer technical specifications

Item	Specification		III350Y	III350D	III500Y	III500D
1	Max. rated through current(A)		350	350	500	500
2	Rated frequency (Hz)		50 or 60			
3	Phase number and connection mode		Neutral point	Selectable connection	Neutral point	Selectable connection
4	Max. rated step voltage (V)	10 contacts	1500			
		12 contacts	1400			
5	Rated step capacity (kVA)	10 contacts	525		750	
		12 contacts	420		490	
6	Short circuit current	Thermal (3s)	5.0		7.0	
		Dynamic (peak)	12.5		17.5	
7	Operating positions		Liner regulating 5, 6, 7, 8, 9, 10, 11, 12, Reversal and coarse & fine regulation: $\pm 3 \sim \pm 11$			
8	Insulation level of tap-changer (kV)	Highest voltage	40.5	72.5	145	
		Power frequency withstand voltage (50Hz, 1min)	85	140	275	
		Rated lightning impulse withstand voltage (1.2/50 μ s)	200	35	650	
9	Mechanical service life		No less than 1,500,000 operations			
10	Electrical service life		No less than 350,000 operations			
11	Oil compartment for diverter switch	Service pressure	3×10^4 Pa			
		Leakage test	No leakage under 6×10^4 Pa for 24 hours			
		Over pressure protection	Blasting cover (4~5) $\times 10^5$ Pa			
		Protective relay	QJ4-25 oil flow speed set at 1.0m/s $\pm 10\%$			
12	Oil drainage volume(L)		Approx. 260~300			
13	Oil filling volume (L)		Approx. 245~280			
14	Weight (kg)		Approx. 180~270			
15	Motor-driven unit		MA7B			