

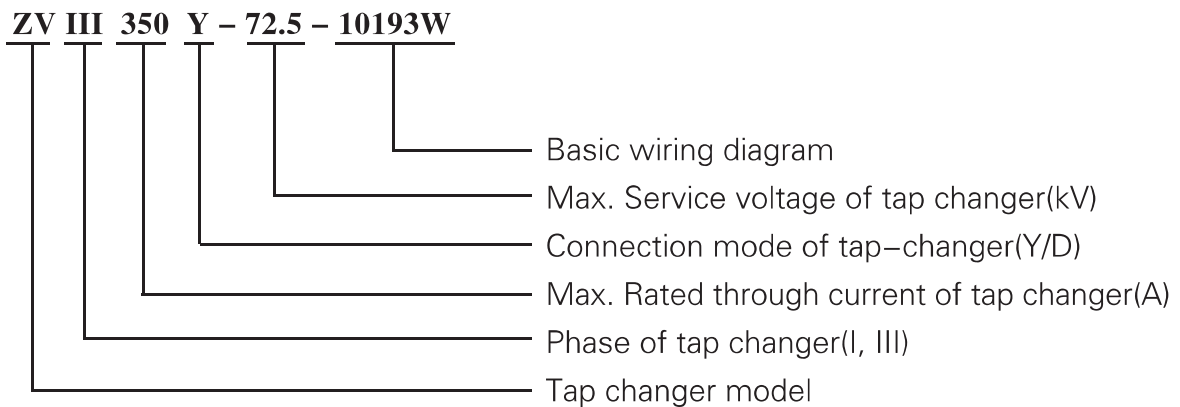
ZV on-load tap-changer

ZV on-load tap-changer applies to the power transformer or industrial transformer with rated voltage 35kV, 66kV, Max. rated through current three phase 350A, 500A, single phase 350A, 700A, frequency is 50Hz or 60Hz to change the tap position of voltage regulating coil under load for the aim of voltage regulating.

ZV on-load tap-changer is combined structure, combining the function of diverter switch and tap selector together to form selector switch, it bears the selection of taps and switching of load current, and form into integrated insert structure, the structure is impact, convenient in maintenance, reliable in work, applies to middle and small transformer.



Model instruction



ZV on-load tap-changer technical specifications

Item	Specifications		III350Y	III350D	I350	I700	III500Y	III500D						
1	Max. rated through current(A)		350	350	350	700	500	500						
2	Phase number and connection mode		Neutral point	Selectable connection			Neutral point	Selectable connection						
3	Rated frequency (Hz)		50 or 60											
4	Max. rated step Voltage (V)	Contacts No.: 10	1500											
		Contacts No.: 12	1400											
		Contacts No.: 14	1000			-								
5	Rated step capacity (kVA)	Contacts No.: 10	525		660		400-525							
		Contacts No.: 12	420		520		325-420							
		Contacts No.: 14	350		450		-							
6	Short circuit current	Thermal (3s)	5.0		10		7							
		Dynamic (peak)	12.5		25		17.5							
7	Operating positions	Liner regulating	Max.14				Max.12							
		Reversal and coarse regulation	±3~±13				±3~±11							
8	Insulation level of tap-changer (kV)	Rated voltage	35			66								
		Highest voltage	40.5			72.5								
		Power frequency withstand voltage (50Hz, 1min)	85			140								
		Rated lightning impulse withstand voltage(1.2/50μs)	200			350								
9	Mechanical service life		No less than 800,000 operations											
10	Electrical service life		No less than 200,000 operations											
11	Oil compartment for diverter switch	Service pressure	3×10 ⁴ Pa											
		Leakage test	6×10 ⁴ Pa no leakage in 24h											
		Over pressure protection	Blasting cover (2.5±0.5) ×10 ⁵ Pa											
		Protective relay	QJ4-25 setting oil speed 1.0m/s±10%											
Motor-driven unit			MA9B											
Weight (kg)	Model of tap-changer	III350Y	III350D	I350	I700	III500Y	III500D							
	Weight (kg)	140	150	120	130	190	200							
12	Oil drainage volume(L)	Liner regulating	135	185	85	120	205	240						
		Reversal and coarse regulation	166	220	115	150	235	275						
12	Oil filling volume Vs and Min. capacity of oil conservator		Vs	DV	Vs	DV	Vs	DV	Vs	DV	Vs	DV	Vs	DV
		Liner regulating	105	14	165	21	60	10	85	12	160	20	200	24
		Reversal and coarse regulation	130	17	180	22	85	12	108	15	185	22	225	26

Note: 500A rated step capacity can be increased from 400kVA to 525kVA (10 contacts), from 325kVA to 420kVA (12 contacts) under the condition of reducing rated current.