

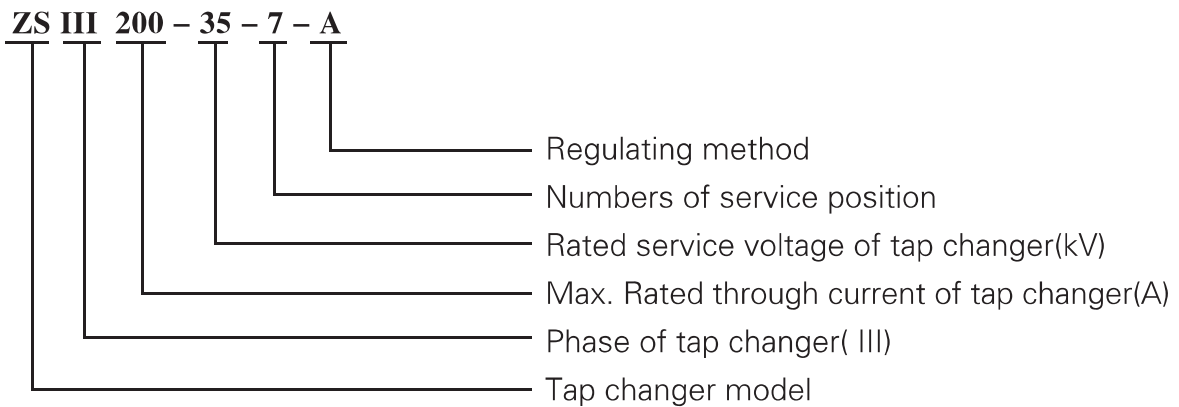
ZS on-load tap-changer

This series on-load tap-changer applies to the oil immersed type power transformer or industrial transformer with rated voltage 10kV, 35kV, Max. rated through current 125A, 200A, 400A, rated frequency 60Hz to change the tap connection position change ratio of voltage regulating coil under load, in order to achieve the aim of improving electric energy quality.

On-load tap-changer works with YK-2, YK-3 controller and can realize the hand operation, automatic operation and remote control of on-load tap-changer.



Model instruction



Note:

Regulating method: A (neutral point liner regulating, without neutral point output); A1 (neutral point liner regulating, with neutral point output); B (middle part crossover)

There are several models of simply type on-load tap-changer as follows:

125A neutral point regulating: ZSIII125-10-9-A	400A neutral point regulating: ZSIII400-35-7-A
200A neutral point regulating: ZSIII200-35-7-A	400A crossover regulating: ZSIII400-35-7-B
200A crossover regulating: ZSIII200-35-7-B	200A crossover regulating: ZSIII200-35-9-B

Technical specifications of ZS on-load tap-changer

Item	Specifications		III125	III200			III400	
1	Max. rated through current (A)		125	200			400	
2	Connection methods		Neutral point	Neutral point	Crossover regulating	Neutral point	Crossover regulating	
3	Rated frequency (Hz)		50 or 60					
4	Max. rated step voltage (V)		300	600				
5	Short circuit current (kA)							
	Thermal (3s)		2	4				
	Dynamic (peak)		5	10				
6	Numbers of max. operating position		9	8	7	9	8	7
7	Insulation level of tap-changer (kV)	Rated voltage	10	35				
		Highest voltage	12	40.5				
		Power frequency withstand voltage (50Hz, 1min)	35	85				
		Impulse test voltage (1.2/50 μ s)	75	200				
8	Mechanical service life		No less than 200,000 operations					
9	Electrical service life		No less than 50,000 operations					
10	Oil compartment for tap-changer	service pressure	3 \times 10 ⁴ Pa					
		Leakage test	No leakage under 6 \times 10 ⁴ Pa for 24 hours					
		Overpressure protection	Pressure relief device (2.5 \pm 0.5) \times 10 ⁵ Pa	Pressure relief valve (starting pressure 3.5 \times 10 ⁴ Pa)				
		Protective relay	QJ4-25 oil flow speed set at 1.0m/s \pm 10%					
11	Weight (kg)			Approx.150				
12	Controller		YK-2	YK-3				

Note: ZSIII125 is single resistor transition, it is only available for the transformer that the direction of power frequency is not changed, and it is not available for the coupling transformer, tap position of tap-changer "1" needs to be connected to the taps with most transformer coils.