

ZVMB vacuum on-load tap-changer

The service life of transformer can be 40 years or longer right now. Tap changer as the important component of the on load regulating transformer, less maintenance or maintenance free is decisive within so such long operating time. Our ZVMB vacuum on-load tap-changer can fully meet to the requirement.

ZVMB vacuum on-load tap-changer needs less maintenance and has a long service life: the electrical life is maintenance free for 300,000 operations, the mechanical life can reach to 1,500,000 operations. The application of ZVMB tap changer is wide, it can not only be used to the whole new design of transformer, but also can be used to the vacuum reform of ZM, ZMB and ZMD OLTC.

ZVMB OLTC applies to the power transformer or industrial transformer with rated voltage 35kV, 66kV, 110kV, 150kV, 220kV, max. rated through current three phase 300A, 500A, 600A, single phase 300A, 500A, 600A, 800A, 1200A, 1500A and the frequency is 50Hz or 60Hz to carry out the regulate under the load. Three phase on-load tap-changer is applicable to the three phase Y connection neutral point, single on-load tap-changer is applicable to the transformer with any selectable connection.



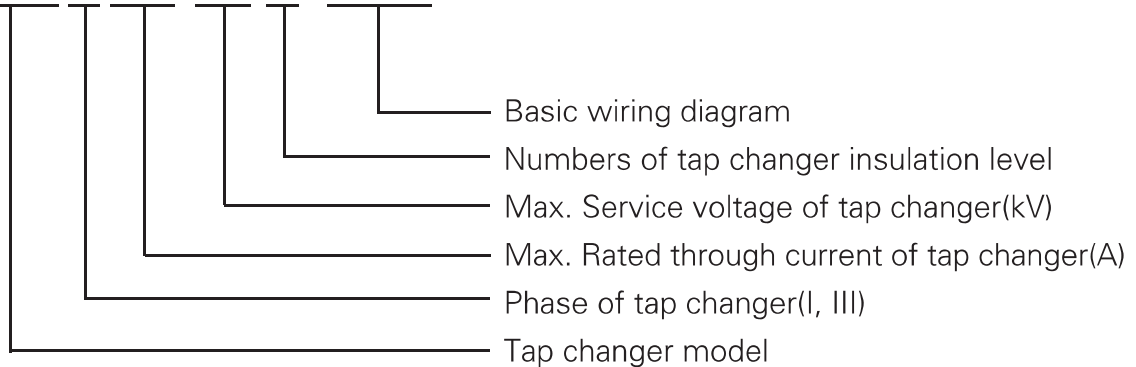
The outline dimension of ZVMB diverter insert is completely same as the diverter switch of ZM, ZMB and ZMD, the reformed oil arc extinguish diverter insert can be replaced directly. It can obtain the goal of oil arc extinguishing in the network at the most reliable and convenient.

The insulation material of its tap selector is widely using reinforced epoxy glass fiber, it has high mechanical strength, thus can reduce the deformation caused by improper operation; it has good insulating performance and not easy to get damp.



Model instruction

ZVMB III 500 - 72.5/ C - 10193W



Tap changer technical parameter

Item	Specification		III300	III500	III600	I301	I501	I601	I800	I1200	I1500
1	Max. rated through current(A)		300	500	600	300	500	600	800	1200	1500
2	Rated frequency (Hz)		50 or 60								
3	Phases and connection mode		Three phase for neutral point of Y connection				Single phase for any selectable connection				
4	Max. rated step voltage (V)		3300								
5	Rated step capacity (kVA)		1000	1400	1500	1000	1400	1500	2640	3100	3500
6	Short circuit current (kA)	Thermal (3s)	6	8	8	6	8	8	16	24	24
		Dynamic (peak)	15	20	20	15	20	20	40	60	60
7	Operating positions		Not include change-over selector: max 22 Include change-over selector: max 35								
8	Insulation level of tap-changer (kV)	Rated voltage	66		110		150		220		
		Max. service voltage	72.5		126		170		252		
		Power frequency withstand voltage (50Hz, 1min)	140		230		325		460		
		Rated lightning impulse withstand voltage (1.2/50μs)	350		550		750		1050		
9	Tap selector		3 Grades of B,C,D according to insulation level								
10	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 cap blast at (4~5) ×10 ⁵ Pa								
		Protective relay	QJ4-25 oil flow speed set at 1.0m/s±10%								
11	Motor drive mechanism		MA7B								

Note:

1. Step capacity is equal to the product of voltage and load current
2. Three-phase tap changer contacts in parallel to the single-phase tap, that should be considered shunt transformer coil when choose.