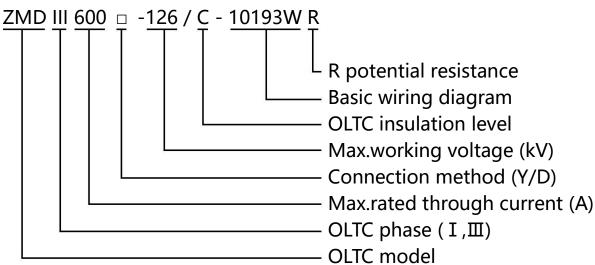
ZMD ON LOAD TAP CHANGER

Product Introduction

ZMD on-load tap-changer is a high-quality, high-tech product designed by Guizhou Long March through digestion, absorbing and introducing technology, combined with years of on-load tap-changer production and management. It is suitable for voltages below 252kV and a maximum rated current of three-phase 300A., 500A, 600A, 1000A, single-phase 300A, 500A, 600A, 800A, 1200A, 1500A, power transformer or industrial transformer with rated frequency of 50 or 60Hz. Suitable for three-phase Y-connection neutral point voltage regulation, single-phase voltage regulation at any part.

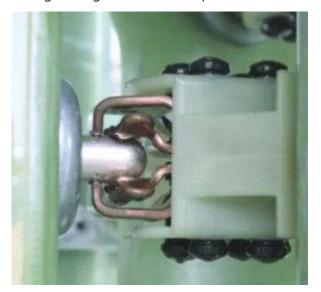


Model Description



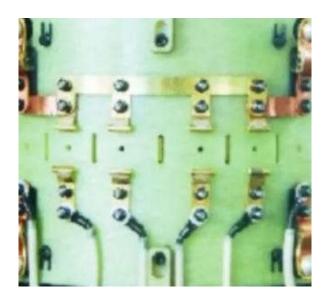
Product features

The diverter switch of the ZMDIII100A on-load tap changer adopts a four-resistance excessive tail push compensation switching mechanism, which generates three arcs during switching (double-resistor type generates two arcs), and the switching capacity allocated to each arc is low, which improves the switching capacity. In addition, the recovery voltage at the fracture of the arc contact is low, which is beneficial to extinguishing the arc and improves the level voltage.



The lead wire of the tap selector adopts a mature outer sheath lead method. The central insulating column and the contact ring are not only simple in structure, but also have a large insulation margin. Compared with the external lead method, each phase reduces two lead-out rings and lead-out contacts, and shortens the axial size of the tap selector.

Conversion selector: Compared with the existing cylindrical tap selector structure, its moving contact system reduces movement conversion links, reduces the transposition connection of conductors, and improves the contact and positioning reliability of the conversion selector. Design according to the coarse and fine adjustment of the insulation level. It can be used for both positive and negative adjustment transformers and coarse and fine adjustment transformers.



The moving contact of the tap selector of the ZMDIII1000A OLTC adopts double-layer multi point contact, with reliable contact, low resistance, low temperature rise, large current carrying and strong short-circuit resistance.

The tap selector structure adopts a semi-closed cylindrical structure composed of an insulating cylinder and an arc-shaped insulating plate. Strong anti-traction ability. It is not easy to be deformed or damaged during installation and transportation; the structure is compact, the radial installation size is small, and the space is small.

ZMD Technical Data

ltem	Specifications			111300	III500	111600	I301	I501	I601	1800	I1200	I1500	III1000	
1	Max.rated through current (A)			300	500	600	300	500	600	800	1200	1500	1000	
2	Rated frequency (Hz)			50 or 60										
2	3 Phase & connection method			3 phase neutral point of Y connection										
5				Single phase for any connection model										
4	Max.rated step voltage (V)			3300									4000	
5	Rated step capacity(kVA)		1000	1400	1500	1000	1400	1500	2640	3100	3500	2500		
6	Withstand		Thermal (3s)	6	8	8	6	8	8	16	24	24	12	
	short circu capacity (k		Dynamic (peak)	15	20	20	15	20	20	40	60	60	30	
7	Operating positions			Linear regulating: 7,10,12,14,16,18,22,34										
				Reversing regulating: ±3~±17										
8	Insulation level of tap changer (kV)	Rated voltage		35	35			110		150		220		
		Max. service voltage		40.5		72.5		126		170		252		
		Power frequency		40		140		222	230 325		225		460	
		withstand voltage (50Hz, 1min)		48				230			5	460		
		Rated lightning												
		impulse withstand voltage (1.2/50µs)		200		350		550		750		1050		
9	Tap selector			3 Grades of B,C,D according to insulation level										
10	Mechanical life			≥1000000 times										
	Electrical life			≥200000 times										
12	Work pressure			3×10⁴Pa										
		Seal	-	No leakage under 6×10 ⁴ Pa for 24 hours										
	switch Oil chamber	•	ormance	The locality and the formation of the fo										
			rpressure ection	Blasting cap blast at (4 \sim 5) ×10 5 Pa										
		Prot	ection relay	QJ4-25 oil flow speed set at 1.0m/s±10%										
13	Oil displac	nt (L)	About 191~350											
14	Oil filling capacity (L)			About 130~220										
15	Weight (KG)			About 250~330										
16	With moto	ZD/MAE/MA7B												

Note:

- 1. The stage capacity is equal to the product of the stage voltage and the load current, and the rated stage capacity is the maximum stage capacity allowed continuously.
- 2. When selecting the single-phase switch formed by the parallel connection of the three-phase tap switch contacts, the transformer coil shunt should be considered, ZMDI800 two-way shunt, ZMDI1200, I1500 three-way shunt.
- 3. The single-phase linear regulating OLTC with 34 working positions has only: I500A, I800A, I1500A.