Technical Specification of

Compensation Reactor (JXBK-736.5/17)

1. General

The compensation reactor can be used as compensation when testing MV capacitors. There is one test during which reactor (when 2 pcs JXBK-736.5/17 reactors are connected in series) is subjected to voltage lower than rated for 1.5 minutes and without interruption voltage is raised up to 54 kV in duration of 300 ms. This is repeated 60 times without interruption. Inductance must not change at 54 kV.

The compensation reactor can be used indoor and outdoor.



2. Operation Conditions

Altitude: ≤1500m

Temperature: $-5^{\circ}C \sim +40^{\circ}C$

Temperature day difference: 25 °C

Relatively humanity: <85% (25℃)

Indoor operation without conduction dirt or corrode metal and insulation material gas

Earthing system: earth resistance < 0.5 Ω with an independent earthing system

3. Main Technical Parameters

Frequency:50HzThere are 3 pcs of reactors, which can be connected in series.Rated capacity of one piece736.5kVAreactor:17kVRated voltage of one piece17kVRated current of one piece43.3Areactor:17kV
Rated capacity of one piece736.5kVAreactor:736.5kVARated voltage of one piece17kVreactor:43.3A
reactor: Image: second secon
Rated voltage of one piece 17kV reactor: 17kV Rated current of one piece 43.3A
reactor: Rated current of one piece 43.3A
Rated current of one piece 43.3A
reactor:
Inductance of one piece 1.25H±3%
reactor:
The tolerance of the _{≤±1%}
inductance of the two
reactors:
Rated capacity: 1473kVA (when 2 reactors are connected in
series)
Rate voltage: 34kV (when 2 reactors are connected in
series)
Rated current: 43.3A (when 2 reactors are connected in
series)
Rated inductance: 2.5H±3% (when 2 reactors are connected in
series)
Phase: Single phase
Insulation level of one Withstand 1 minute at 38kV, 38kV means the
reactor: applied voltage between the two terminals o
the reactor. The insulation level of winding to
the earth is 38kV 1 minute.

Insulation level of the	75k\//1min	
	75kV/1min	
winding to the earth (when 2		
reactors in series):		
Noise level:	≤60dB	
Running time:	The reactor can run upto 10 days at rated	
	voltage (34kV)and current (43.3A);	
	The reactor (2 reactors connected in series is	
	subjected to voltage lower than rated for 1.5	
	minutes and without interruption voltage is	
	raised up to 54 kV in duration of 300 ms, this	
	test can be repeated 60 times without interruption. this is to test one capacitor, 10 pcs	
	capacitors will be tested in one day. so this	
	above test will be repeated 600 times in one	
	day. The temperature rise of the winding is less	
	than 75K, the temperature rise of the oil on the	
	top is less than 65K.	
Quality factor:	>40	
There is no partial discharge requirement.		
Terminal:	None of the terminals are connected to earth.	
Structure:	ONAN (oil-immersed self-cooled);without iron	
	core; there are terminals in the flanges of the	
	reactor; with cylinder insulation made of epoxy	
	glass; with stainless steel base and corona ring	
	on the top	
The 3 pcs reactors can operate only in 1 pc reactor, or 2 pcs reactors in series,		
or 3 pcs for 3 phase.		