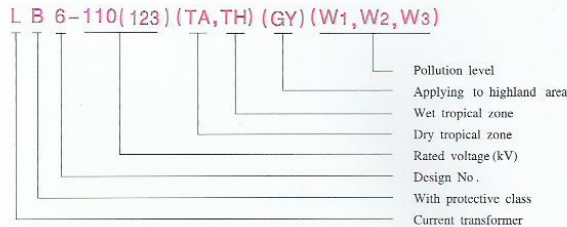


LB6-123 132 (TA,TH)(W₁,W₂,W₃)Current Transformer

■ Type description



■ Purpose

It is outdoor, single phase and oil immersed hair-pin type current transformer, which is used for metering and relay protection of 123kV or 132kV,50 or 60Hz system.

■ Standards

IEC Standard: IEC60044-1 《Current Transformer》

National Standard: GB1208 《Current Transformer》

GB311.1 《Insulation co-ordination for high voltage transmission and distribution equipment》

■ Service condition

Ambient temperature: -40~+40℃

Altitude: LB6-123(W₁,W₂,W₃) less than 1000m

LB6-123GY(W₁,W₂,W₃) less than 3500m

Environment pollution level: II、III、IV

■ System condition

System Rated Voltage: 123kV,132kV

System Highest Voltage: 123kV,145kV

System Rated frequency: 50Hz or 60Hz

System neutral earthing method: effectively earthed

■ Structure feature

- It is oil/paper insulation system, the primary insulation is wound from high voltage cable paper, and is placed several capacitor screen of voltage division in the primary insulation, which can improve electric field distributing and decrease the consumption of insulation material. It will be immersed with transformer oil after desiccating under vacuum. It has advantages of stable and reliable performance of insulation, rich successful experience, a long life time and convenient maintenance.
- Perfect fluidity performance of transformer oil is good for heat dissipation, it also has self recover ability for the failure of partial discharge caused by air bubble and dust.
- The current ratio can be changed easily by change the connection method of connecting plate on oil conservator to series or parallel connection.
- Hermetically sealed stainless steel metallic bellows is installed on the top, which protect the transformer oil from moisture and extend the life time, also there is a oil level gauge on the bellows for observing the changing of oil volume.
- There is a multi function oil drain valve on the base, which make it more convenient for sampling, draining and refilling.
- The primary terminal and secondary terminal board are made of epoxy casting, the seal performance is more reliable.
- There is a individual terminal of earth screen in the terminal box.
- The oil conservator and base etc use DACRAL (Zinc/Chromate coatings) for resistance to corrosion, which gives a high degree of corrosion resistance.
- The primary over-voltage protection device and secondary open circuit over-voltage protection device can be provided according to the requirements of user.

Technical data

Rated voltage	123kV;132kV	Rated primary current	Rated short-time thermal current	Rated dynamic current
Highest voltage for equipment	126kV;145kV			
Rated frequency	50or60Hz	(A)	(kA)	(kA)
Rated transformation ratio	2×30-2×1000/5 or 1A	30-60	3.15-6.3	7.9-15.8
Number of measuring winding	1-6	50-100	5.3-10.5	13-26
Accuracy of measuring winding	0.2, 0.2S, 0.5, 0.5S	75-150	7.9-15.8	20-40
Accuracy of protection winding	5P or 10P	100-200	10.5-21	27-54
Rated secondary output	20-50VA	150-300	15.8-31.5	40-80
Accuracy limit factors	15, 20, 25, 30	200-400	21-42	54-108
Instrument security factor	≤5 or 10	300-600	31.5-45(3s)	80-115
Partial discharge, under 1.2Um/3kV	≤5pC	400-800	31.5-45(3s)	80-115
Dielectric dissipation factor tg δ, under 10kV-U _m /3kV	≤0.005, (variation) ≤0.001	500-1000	31.5-45(3s)	80-115
External insulation creepage distance(mm)	W ₁ /2760mm W ₂ /3150mm W ₃ /3906mm	600-1200	31.5-45(3s)	80-115
Power frequency withstand voltage on primary windings	185(230)(275)kV rms	750-1500	31.5-45(3s)	80-115
Rated lightning impulse withstand voltage	450(550)(650)kV rms	800-1600	31.5-45(3s)	80-115
Power frequency withstand voltage between primary sections	3kV rms	1000-2000	31.5-45(3s)	80-115
Power frequency withstand voltage on earth screen to earth	5kV peak			
Power frequency withstand voltage on secondary windings and secondary windings to earth	3kV rms			
Secondary winding inter-turn withstand voltage	4.5kV peak			
Mechanical strength (three direction)	2000N			

Outline drawing

