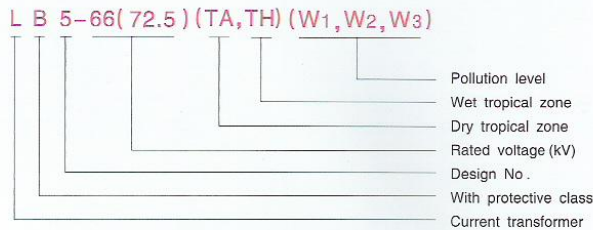


LB5-66(72.5)(TA,TH)(W₁,W₂,W₃) Current Transformer

■ 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 66kV, 50 or 66Hz 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: less than 1000m

Environment pollution level: II、III、IV

■ System condition

System Rated Voltage: 66kV

System Highest Voltage: 72.5kV

System Rated frequency: 50Hz or 60Hz

System neutral earthing method: non-effectively earthed

■ Structure feature

- It is oil/paper insulation system, the primary insulation is wound from high voltage cable paper. 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 lifetime 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 form 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.

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 opencircuit over-voltage protection device can be provided according to the requirements of user.

Technical data

Rated voltage	66kV	Rated primary current (A)	Rated short-time thermal current (kA)	Rated dynamic current (kA)			
Highest voltage for equipment	72.5kV				25-50	2.7-5.3	6.8-13.5
Rated frequency	50or60Hz				30-60	3.15-6.3	7.9-15.8
Rated transformation ratio	2×25-2×1000/5 or 1A				50-100	5.3-10.5	13.5-27
Number of secondary winding	1-5				75-150	7.9-15.8	20-40
Accuracy of measuring winding	0.2, 0.2S, 0.5, 0.5S				100-200	10.5-21	27-54
Accuracy of protection winding	5P or 10P				150-300	15.8-31.5	40-80
Rated secondary output	20-50VA				200-400	20-40	50-100
Accuracy limit factors	15, 20, 25, 30				300-600	31.5-45	80-115
Instrument security factor	≤5 or 10				400-800	31.5-45	80-115
Partial discharge, under 1.2Um/3kv	≤5pC				600-1200	31.5-45(3s)	80-115
Dielectric dissipation factor tg δ, under 10kv-Um/3kv	≤0.015, (variation) ≤0.001	750-1500	31.5-45(3s)	80-115			
External insulation creepage distance(mm)	W1/1500mm W2/1820mm W3/2250mm	800-1600	31.5-45(3s)	80-115			
Power frequency withstand voltage on primary windings	140kV rms	1000-2000	31.5-45(3s)	80-115			
Rated lightning impulse withstand voltage	325kV peak						
Power frequency withstand voltage between primary sections	3kV rms						
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						
Oil weight/Product weight	90/470kg						

Outline drawing

