LVB

Oil immersed current transformer

27.5kV-500kV Oil immersed inverted current transformer

Product introduction:

LVB series current transformers are of oil impregnated paper insulation and inverted structure to meet the IEC/IEEE standard. The series connected transformer in the line has the functions of electric energy measurement, metering, relay protection and transient protection.

Product features:

●The primary winding is of through type conductive rod structure, with good dynamic and thermal stability. The maximum thermal stability current is 63kA/3s (when the primary winding is in series).

●The primary winding passes through the center of the secondary winding without the influence of magnetic flux leakage, and the measurement accuracy reaches 0.2S and 0.1.

●The secondary winding is poured into the aluminum shield housing with organic materials, and the measuring and protection lines at the secondary side will not be subject to electrical attack due to insulation breakdown.

●The optimized capacitor screen bushing is wound by a high-performance computer controlled full-automatic wrapping machine with a whole sheet of imported wide width cable paper. The process dispersion is small, and the insulation performance is excellent. The partial discharge test is conducted under the power frequency test voltage.

●The fully automatic vacuum drying treatment system imported from Germany LEYBOLD is adopted. After the overall assembly of the product, the new process of variable pressure vacuum drying treatment and oil injection is carried out. The fully imported insulating materials ensure that the overall dielectric loss factor tand of the product is less than 0.3%.

●The head insulation of the product is wrapped with an automatic binding machine, and the insulation wrapping of the product is uniform, tight and consistent.

●The secondary outlet box is cast with aluminum alloy as a whole, with a dust-proof, waterproof and breathable sealing structure.

●The connection between product parts adopts argon arc welding, and the whole assembly is filled with high-pressure nitrogen for leak detection, which fundamentally solves the problem of oil leakage of oil immersed products.

●The shell, base and junction box are all made of aluminum alloy. The expander and nameplate are made of stainless steel. All exposed parts will never rust.

●The product is maintenance free.

Technical parameter

Type	Highest voltage (kV)	Rated frequency (Hz)	Power-frequency voltage(kV)	Lightning impulse voltage(BIL)(kV)	Rated primary current(A)	Class
LVB-31.5	31.5	50/60	95	200	IEC: Min current: 0.5A; Max current: 8000A; IEEE: MR5000/MR4000/MR3000/ MR2000/MR1200/MR600	IEC: 0.2/0.5/0.2S/0.5S/5P/ 10P/TPS/TPX/TPY IEEE: 0.3/0.6/1.2/C200/C40 0/C800
LVB-40.5	40.5	50/60	95	200		
LVB-72.5	72.5	50/60	160	350		
LVB-110	123	50/60	230	550		
LVB-126	126	50/60	230	550		
LVB-145	145	50/60	275	650		
LVB-170	170	50/60	325	750		
LVB-245	252	50/60	460	1050		
LVB-300	300	50/60	460	1050		
LVB-363	363	50/60	510	1175		
LVB-420	420	50/60	630	1425		
LVB-550	550	50/60	740	1675		

Technical parameter

Type	Thermal current (kA)	Dynamic current (kA)	Oil weight (kg)	Total weight (kg)	Dimensions		
					A(mm)	T(mm)	H(mm)
LVB-31.5	31.5kA/3S	80	34	140	300	984±25	1464±30
LVB-40.5	40kA/3S	100	78	315	475	1075±15	1615±25
LVB-72.5			80	350	475	1290±25	1815±25
LVB-110	50kA/3S	125	80	400	475	1790±15	2310±25
LVB-126			80	400	475	1790±15	2310±25
LVB-145			80	400	475	2198±15	2730±25
LVB-170			100	500	475	2198±15	2730±25
LVB-245	63kA/3S	160	180	800	550	2955±15	3650±25
LVB-300			222	935	550	3585±25	4285±30
LVB-363			330	1200	600	4535±25	5100±20
LVB-420			440	1400	600	4750±25	5650±30
LVB-550			550	2600	650	5920±15	7015±20

Remark: Approximate dimensions and weights for special requirements, please consult us.