Technical data for 150 kV Voltage Transformer

Item	Description	Unit	Required by NPC "Ukrenergo"	Guaranteed by the Manufacturer
1	Manufacturer designation			
2	Standard		IEC 61869-1, IEC 61869-3 and other IEC standards	
3	Type		Inductive, SF6 insulated valid at the equipment manufacturing date	
4	Installation		Outdoor	
5	Frequency	Hz	50	
6	System Nominal Voltage	kV	150	
7	Maximum Equipment Voltage according to IEC	kV	170	
8	Rated short-duration power-frequency withstand voltage (RMS value)	kV	230	
9	Rated lightning impulse withstand voltage (peak-value), not less than	kV	650	
10	Transformation factor (4 windings)	V	$\frac{150000}{\sqrt{3}}/\frac{100}{\sqrt{3}}/\frac{100}{\sqrt{3}}/100$	
11	Accuracy class rating and burden of metering core	VA	0.2 and 50	
12	Accuracy class rating and burden of measuring core and protection	VA	0.2/3P and 100	
13	Min. lifetime of equipment	years	30	
14	Insulation		Polymer / Porcelain white or silver white*	
	Technical requirements to design			
15	Allowable value of mechanical load caused by horizontal wires stress, not less than	N	1500	
16	SF6 density indicator, with temperature compensation, with monitoring and two-step signaling of SF6 (gas mix) density and pressure decrease (warning and emergency signals and auxiliary contacts, (yes, no)		Yes	
17	SF6 (gas mix) cylinder(s) for replenishment and maintenance purposes, (yes, no)		yes	
	Scope of supply			
18	Voltage transformer assembly, (yes, no)		Yes	
19	Operation and Maintenance (O&M) documents in English and Ukrainian language		Yes	
20	Certificate of compliance		Yes	
21	Installation drawings with installation instruction		Yes	
22	Factory acceptance tests reports		Yes	

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23	Passport (Rating plate)		Yes	