

No.	Name of Tested Products	Type of Test/ Characteristics	Test Methods (standard/ validated method)
1	2	3	4
1.	Power transformers with rated power up to 275 MVA and rated voltage up to 420 kV	1.1. Measurement of DC insulation resistance between each winding to earth and between windings	БДС EN 60076-1:2011 т. 11.1.2.2, b (IEC 60076-1:2011 cl. 11.1.2.2, b) БДС EN 60076-1:2011 т. 11.1.4, h (IEC 60076-1:2011 cl. 11.1.4, h)
		1.2. Determination of capacitances windings-to-earth and between windings. Measurement of dissipation factor ($\tan \delta$) of the insulation system capacitances	БДС EN 60076-1:2011 т. 11.1.2.2, a (IEC 60076-1:2011 cl. 11.1.2.2, a) БДС EN 60076-1:2011 т. 11.1.4, c (IEC 60076-1:2011 cl. 11.1.4, c) БДС EN 60076-1:2011 т. 11.1.2.2, c (IEC 60076-1:2011 cl. 11.1.2.2, c) БДС EN 60076-1:2011 т. 11.1.4, d (IEC 60076-1:2011 cl. 11.1.4, d)
		1.3. Measurement of winding resistance	БДС EN 60076-1:2011 т. 11.2 (IEC 60076-1:2011 cl. 11.2)
		1.4. Measurement of voltage ratio and check of phase displacement	БДС EN 60076-1:2011 т. 11.3 (IEC 60076-1:2011 cl. 11.3)
		1.5. Measurement of short-circuit impedance and load loss	БДС EN 60076-1:2011 т. 11.4 (IEC 60076-1:2011 cl. 11.4)
		1.6. Measurement of no-load loss and current	БДС EN 60076-1:2011 т. 11.5 (IEC 60076-1:2011 cl. 11.5)
		1.7. Measurement of zero-sequence impedance(s) on three-phase transformers	БДС EN 60076-1:2011 т. 11.6 (IEC 60076-1:2011 cl. 11.6)
		1.8. Check of core and frame insulation for liquid immersed transformers with core or frame Insulation	БДС EN 60076-1:2011 т. 11.12 (IEC 60076-1:2011 cl. 11.12)
		1.9. Temperature-rise test	БДС EN 60076-2:2011 (IEC 60076-2:2011)
		1.10. Applied voltage test (AV)	БДС EN 60076-3:2018 т. 10 (IEC 60076-3:2018 cl. 10)
		1.11. Induced voltage withstands test (IVW)	БДС EN 60076-3:2018 т. 11.2 (IEC 60076-3:2018 cl. 11.2)
		1.12. Induced voltage test with partial discharge measurement (IVPD)	БДС EN 60076-3:2018 т. 11.3 (IEC 60076-3:2018 cl. 11.3)
		1.13. Line terminal AC withstand test (LTAC)	БДС EN 60076-3:2018 т. 12 (IEC 60076-3:2018 cl. 12)
		1.14. Full wave lightning impulse test (LI)/on a neutral terminal (LIN)	БДС EN 60076-3:2018 т. 13.2, т. 13.4 (IEC 60076-3:2018 cl. 13.2, 13.4)
		1.15. Chopped wave lightning impulse test (LIC)	БДС EN 60076-3:2018 т. 13.3 (IEC 60076-3:2018 cl. 13.3)
		1.16. Switching impulse test (SI)	БДС EN 60076-3:2018 т. 14 (IEC 60076-3:2018 cl. 14)
		1.17. Determination of sound level for each method of cooling for which a guaranteed sound level is specified	БДС EN 60076-10:2020 (IEC 60076-10:2020)

ELPROM HEAVY INDUSTRIES	LABORATORY ACTIVITIES (related to flexible scope of accreditation according to cl. 4.1.1 from BAS QR 32)	Issue: 0
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No.	Name of Tested Products	Type of Test/ Characteristics	Test Methods (standard/ validated method)
1	2	3	4
2.	On-load tap-changers and de-energized tap-changers with rated voltage up to 362 kV	2.1. Full wave lightning impulse test (LI)	БДС EN 60214-1:2014, т. 5.2.8.5; т.7.2.5.5 (IEC 60214-1:2014, cl. 5.2.8.5; cl.7.2.5.5)
		2.2. Chopped wave lightning impulse test (LIC)	БДС EN 60214-1:2014, т. 5.2.8.6; т.7.2.5.6 (IEC 60214-1:2014, cl. 5.2.8.6; cl.7.2.5.6)
		2.3. Switching impulse test (SI)	БДС EN 60214-1:2014, т. 5.2.8.7; т.7.2.5.7 (IEC 60214-1:2014, cl. 5.2.8.7; cl.7.2.5.7)
		2.4. Applied voltage test (AV)	БДС EN 60214-1:2014, т. 5.2.8.5; т.7.2.5.5 (IEC 60214-1:2014, cl. 5.2.8.5; cl.7.2.5.5)
		2.5. Measurement of partial discharges	БДС EN 60214-1:2014, т. 5.2.8.6; т.7.2.5.6 (IEC 60214-1:2014, cl. 5.2.8.6; cl.7.2.5.6)

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