



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory

ALCE ELEKTRİK SANAYİ VE TİCARET ANONİM ŞİRKETİ

Central Address: RAMAZANOĞLU MAH. TRANSTEK CAD. ALCE No:6/ PENDİK/İSTANBUL İstanbul / Türkiye

is accredited in accordance with TS EN ISO/IEC 17025:2017 standard within the scope given in Annex following the assessment conducted by TURKAK.

Accreditation Number : AB-0948-T

Accreditation Date : 12.10.2015

Revision Date / Number : 09.02.2024 / 04

This certificate shall remain in force until **09.10.2027**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.

Gülden Banu Müderrisoğlu
Secretary General



Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

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 Test TS EN ISO/IEC 17025 AB-0948-T	ALCE ELEKTRİK SANAYİ VE TİCARET ANONİM ŞİRKETİ	
	Accreditation Nr: AB-0948-T Revision Nr: 04 Date: 09.02.2024	
	Testing Laboratory	
	Address : RAMAZANOĞLU MAH. TRANSTEK CAD. ALCE No:6/ PENDİK/İSTANBUL İstanbul / Türkiye	Phone : +90 216 585 4267 Fax : - Email : emre.tastemel@alce-elektrik.com.tr Website : www.alce-elektrik.com.tr

Electrical,Electronic and IT Products and Devices

Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Power-frequency voltage withstand tests between sections and power-frequency voltage withstand tests on secondary terminals (Max. 5 kV AC, 500 V DC)	IEC 61869-1, IEC 61869-2, Clause 7.3.3, Clause 7.3.4 IEEE ANSI C57.13 Clause 8.5 TS EN 61869-1, TS EN 61869-2, Clause 7.3.3, Clause 7.3.4 AS 60044.1 Clause 8.3 GOST 7746 Clause 9.2.4
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Determination of the secondary winding resistance	IEC 61869-2 Clause 7.3.201 TS EN 61869-2 Clause 7.3.201 AS 60044.1 Clause 13.3.4, Clause 14.4.2 GOST 7746 Clause 9.11
Insulated bushings	Insulated bushings for alternating voltages above 1000 V Dry power-frequency withstand voltage test (Max. 100 kV)	IEC 60137 Clause 9.4 TS EN 60137 Clause 9.4
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Temperature-rise test	IEC 61869-1, IEC 61869-2, Clause 7.2.2 IEEE ANSI C57.13 Clause 4.6, Clause 8.7 TS EN 61869-1, TS EN 61869-2, Clause 7.2.2 AS 60044.1 Clause 7.2
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Inter-turn overvoltage test (Max.10 kV, Frequency: 50 - 400 Hz)	IEC 61869-2 Clause 7.3.204 IEEE ANSI C57.13 Clause 6.7 TS EN 61869-2 Clause 7.3.204 AS 60044.1 Clause 8.4 GOST 7746 Clause 9.4
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Measurement of capacitance and dielectric dissipation factor (U:1-10 kV / F: 50 Hz)	IEC 61869-1, IEC 61869-2, Clause 7.4.3 TS EN 61869-1, TS EN 61869-2, Clause 7.4.3 AS 60044.1 Clause 9.2
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Test for rated knee point e.m.f. (Ek) and exciting current (Ie) at rated knee point e.m.f. (Max. 2000 V / 0,1 - 5 A)	IEC 61869-2 Clause 7.3.203 IEEE ANSI C57.13 Clause 6.4 TS EN 61869-2 Clause 7.3.203 AS 60044.1 Clause 14.4.1
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Power-frequency voltage withstand tests on primary terminals (Max.100 kV, Frekans: 50 Hz, 60 Hz)	IEC 61869-1, IEC 61869-2 Clause 7.3.1 IEEE ANSI C57.13 Clause 8.8.1 TS EN 61869-1, TS EN 61869-2 Clause 7.3.1 AS 60044.1 Clause 8.2.1 GOST 7746 Clause 6.3.1, Clause 9.2.1
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Partial discharge measurement	IEC 61869-1, IEC 61869-2 Clause 7.3.2 IEEE ANSI C57.13 Clause 8.10 TS EN 61869-1, TS EN 61869-2 Clause 7.3.2 AS 60044.1 Clause 8.2.2 GOST 7746 Clause 6.3.6, Clause 9.2.5



Accreditation Scope

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Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Test for accuracy (Primary current: 1 A - 5000 A Secondary current: 1 A, 5 A Frequency: 50 Hz, 60 Hz)	IEC 61869-1, IEC 61869-2 Clause 7.3.5 TS EN 61869-1, TS EN 61869-2 Clause 7.3.5 AS 60044.1 Clause 11.1, Clause 11.5, Clause 12.1, Clause 12.4 GOST 7746 Clause 6.4.2, Clause 9.5
Instrument transformers	Instrument transformers - Part 2: Additional requirements for current transformers Verification of markings	IEC 61869-1, IEC 61869-2 Clause 7.3.6 TS EN 61869-1, TS EN 61869-2 Clause 7.3.6 AS 60044.1 Clause 10.1 GOST 7746 Clause 6.9, Clause 9.5
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Power-frequency voltage withstand tests between sections and power-frequency voltage withstand tests on secondary terminals (Max. 5 kV AC, 500 V DC)	IEC 61869-1, IEC 61869-3 Clause 7.3.3, Clause 7.3.4 IEEE ANSI C57.13 Clause 8.8 TS EN 61869-1, TS EN 61869-3 Clause 7.3.3, Clause 7.3.4 AS 60044.2 Clause 9.3 GOST 1983 Clause 9.4
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Measurement of capacitance and dielectric dissipation factor (1 kV - 10 kV Frequency: 50 Hz)	IEC 61869-1, IEC 61869-3 Clause 7.4.3 TS EN 61869-1, TS EN 61869-3 Clause 7.4.3 AS 60044.2 Clause 10.2
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Temperature-rise test	IEC 61869-1, IEC 61869-3, Clause 7.2.2 TS EN 61869-1, TS EN 61869-3, Clause 7.2.2 AS 60044.2 Clause 7.2
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Power-frequency voltage withstand tests on primary terminals (Max.100 kV, 50/60 Hz)	IEC 61869-1, IEC 61869-3 Clause 7.3.1 IEEE ANSI C57.13 Clause 8.8.1 TS EN 61869-1, TS EN 61869-3 Clause 7.3.1 AS 60044.2 Clause 9.2 GOST 1983 Clause 6.12, Clause 9.4
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Partial discharge measurement	IEC 61869-1, IEC 61869-3 Clause 7.3.2 IEEE ANSI C57.13 Clause 8.10 TS EN 61869-1, TS EN 61869-3 Clause 7.3.2 AS 60044.2 Clause 9.2.4 GOST 1983 Clause 6.12.5, Clause 9.17
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Test for accuracy (U:3 -36 kV / F:50 Hz, 60 Hz)	IEC 61869-1, IEC 61869-3 Clause 7.3.5 TS EN 61869-1, TS EN 61869-3 Clause 7.3.5 AS 60044.2 Madde 12.1, Clause 12.4, Clause 13.1, Clause 13.6 GOST 1983 Clause 6.15, Clause 9.6
Instrument transformers	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers Verification of markings	IEC 61869-1 Clause 7.3.6, IEC 61869-3 Clause 6.13.301 TS EN 61869-1 Clause 7.3.6, TS EN 61869-3 Clause 6.13.301 AS 60044.2 Clause 11.2 GOST 1983 Clause 5.10, Clause 9.6
Insulated bushings	Insulated bushings for alternating voltages above 1000 V Measurement of partial discharge quantity	IEC 60137 Clause 9.5 TS EN 60137 Clause 9.5
Insulated bushings	Insulated bushings for alternating voltages above 1000 V Measurement of dielectric dissipation factor (tan δ) and capacitance at ambient temperature	IEC 60137 Clause 9.2 TS EN 60137 Clause 9.2
Insulated bushings	Insulated bushings for alternating voltages above 1000 V Visual inspection and dimensional check	IEC 60137 Clause 9.11 TS EN 60137 Clause 9.11



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Indoor Post Insulators	Insulators – Tests on door post insulators of organic material for systems with nominal voltages grater than 1 kV up to but not including 300 kV Dry power-frequency withstand voltage test (Max.100 kV)	IEC 60660 Clause 3.4 TS EN 60660 Clause 3.4
Indoor Post Insulators	Insulators – Tests on door post insulators of organic material for systems with nominal voltages grater than 1 kV up to but not including 300 kV Partial discharge extinction voltage test and Electrical routine test and partial discharge measurment	IEC 60660 Clause 3.5,Clause 5.4 TS EN 60660 Clause 3.5,Clause 5.4
Indoor Post Insulators	Insulators – Tests on door post insulators of organic material for systems with nominal voltages grater than 1 kV up to but not including 300 kV Verification of dimensions and visual examination	IEC 60660 Clause 4.2 Clause 5.2 TS EN 60660 Clause 4.2 Clause 5.2

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